



Periodic Review Report

2500 Central Park Avenue
Yonkers, New York

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Prepared for:

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Executive Summary

This Periodic Review Report (PRR) has been prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) on behalf of UE Yonkers II LLC (current site owner) and serves as a required element of the remedial program for the Clean Zone Dry Cleaners Site located in Yonkers, New York (hereinafter referred to as the "Site"). A Site location map is attached as Figure 1. The Site was formally enrolled in the New York State (NYS) Voluntary Cleanup Program (VCP), Site No. 360050, which is administered by the New York State Department of Environmental Conservation (NYSDEC). The Site is currently subject to an Order on Consent (Index No. CO 3-2008-0104-3) issued by the NYSDEC. Under the VCP, the property was remediated to allow for commercial and industrial use, and the Site is currently operating as a commercial shopping space.

The following sections provide a brief summary of the controls implemented for the Site, as well as the inspections, monitoring, and reporting activities completed in accordance with the Site Management Plan (SMP), dated December 20, 2019, which was approved by NYSDEC on January 3, 2020 (Appendix A). The required Site-wide inspection, sub-slab depressurization system (SSDS) monitoring, and quarterly groundwater monitoring were completed during this SMP monitoring phase from May 07, 2021 to May 07, 2022. The components, data, and rationale included in this PRR demonstrate that the engineering and institutional controls (IC/ECs) are performing as designed, are effective, and are compliant with specifications described in the SMP. No changes to the monitoring plan are recommended by Roux at this time.

1. Introduction

This Periodic Review Report (PRR) was prepared by Roux Environmental Engineering and Geology D.P.C. (Roux)¹ on behalf of UE Yonkers II LLC (UE Yonkers II; current Site Owner) and serves as a required element of the remedial program for the Clean Zone Dry Cleaners Site located in Yonkers, New York (hereinafter referred to as the "Site"). A Site map location map is attached as Figure 1. This PRR documents post-remediation activities performed at the Site from May 07, 2021 to May 07, 2022.

The Site was formally enrolled in the New York State (NYS) Voluntary Cleanup Program (VCP), Site No. 360050, which is administered by the New York State Department of Environmental Conservation (NYSDEC). The Site is currently subject to an Order on Consent (Index No. CO 3-2008-0104-3) issued by the NYSDEC. Under the VCP, the property was remediated to allow for commercial and industrial use, and the Site is currently operating as a commercial shopping space. The Site Management Plan (SMP), dated December 20, 2019, was approved by NYSDEC on January 3, 2020.

Site Management activities, reporting, and Institutional Control (IC)/ Engineering Control (EC) certification are scheduled on a certification period basis. This certification is based on the submission of a PRR (included herein), submitted to the NYSDEC every year beginning sixteen months after the SMP was approved. These PRRs will identify and assess all of the IC/ECs required by the remedy for the Site, any environmental monitoring data and/or information generated during the reporting period, and a complete Site evaluation which discusses the overall performance and effectiveness of the previous remedy.

¹ Prior to March 1, 2018, Roux Environmental Engineering and Geology, D.P.C. performed work as Remedial Engineering P.C. and Roux Associates, Inc. Remedial Engineering P.C. is a New York State professional service corporation organized primarily for the purpose of providing engineering services for clients of Roux Associates, Inc.

2. Site Overview

2.1 Site Description and History

The Site is located in Yonkers, Westchester County, New York and is identified as Section 4, Block 4877 and Lot 200 on the County of Westchester Tax Map. The Site is 8.3 acres of the approximately 27-acre Gateway Shopping Center and is bounded by Central Plaza Shopping Center to the north, residential properties to the east, additional stores within the Gateway Shopping Center, Bacon Place and Fortunoffs Backyard Furniture to the south, and Central Park Avenue to the west (see Figure 2 – Site Layout Map).

According to Phase I Environmental Site Assessments (ESAs) prepared for the Site, the Site was first developed in the 1950s as a golf driving range before it was developed into the current commercial/retail development in the 1960s and early 1970s. The Site is currently operating as a commercial/retail shopping space.

The Site consists of one structure known as Building 22 and surface level asphalt paved parking/drive areas. Structural components of Building 22 consist of a concrete foundation, steel interior framing, concrete block and brick perimeter walls, and steel floor decks. The total area of Buildings 22 within Lot 200 is approximately 51,000 square feet.

The Site is zoned as commercial land and is currently utilized by tenants as a commercial shopping space. The tenants occupying Building 22 at the time of Site reconnaissance are listed in the following table.

Building	Tenant Name, Type of Business
East	HomeSense (formerly occupied by the Pathmark Grocery Store)
East	Singas Pizza
East	Tiger Shulmans, instructional mixed martial arts
East	D&C Nail, salon
East	\$\$ Zone, retail sales of discounted consumer goods
East	Central Park Optical, optometrist and related retail sales
East	SAS Shoes, retail sales of shoes
East	Central Warehouse Wine & Liquor, retail sales of wine and liquor
East	Rice Star Chinese Restaurant/take-out
East	Five Guys restaurant/take-out

The properties immediately south and north of the Site include commercial properties; the properties immediately to the east of the Site include residential properties; and the properties to the west of the Site include commercial and residential properties.

Previous ESAs identified the operation of the former Clean Zone Dry Cleaners (currently Singas Pizza) as a recognized environmental condition (REC). A Phase II ESA identified tetrachloroethene (PCE) contamination outside the rear entrance of the former Clean Zone Dry Cleaners tenant space. As a result, the NYSDEC issued a Consent Order on March 21, 2006 (2006 Order on Consent) to investigate and remediate the PCE contamination.

2.2 Summary of Remedial Action

Following issuance of the 2006 Order on Consent, several investigations were conducted at the Site to characterize subsurface soil, groundwater and soil vapor. According to the 2013 Pressly Construction Completion Report, volatile organic compounds (VOCs) were detected above regulatory action levels within sub-slab and indoor air during subsurface investigations. To remediate these impacts, the following remedies were implemented:

- Installation and operation of Air sparging (AS) and soil vapor extraction (SVE) system.
 - One AS well and one SVE well were installed.
 - An AS/SVE system, consisting of one AS and one SVE well was operational at the Site between April 2001 and April 2002. During that period, two monitoring well sampling rebound events (after approximately 1-month of downtime) were performed on October 26, 2002 and May 1, 2002. Based on the rebound results obtained on February 26, 2003, the AS compressor was replaced in April 2003 and the system was operational between that time and September 2003. The air supply pipe to the sparge well was found to be broken on the May 6, 2004 sampling event, probably as a result of icing during the winter.
 - The AS/SVE system is no longer operational at the Site and is not a required EC.
- Installation of the SSDS with two vapor extraction points.
- Preparation and implementation of SMP which was submitted to the NYSDEC in July 2011.
- Installation of two additional monitoring wells.

On June 6 and 7, 2019, Roux completed repair work for the two SSDS as summarized below:

Singas Pizza System

- Replaced the nonfunctioning blower for the Singas Pizza system
- Installed a ½" hole with a threaded cap to collect flow measurements
- Started up system successfully and collected the following measurements:
 - Flowrate: 160-185 scfm
 - Vacuum: 4.1 in. w.c.
- Observed sub-slab influence consistent with TRC's monitoring data from 2014-2015, as follows:
 - Singas Kitchen Vacuum: 0.007 in. w.c.
 - Singas Hall Vacuum: 0.010 in. w.c.

Former Pathmark SSDS

- Extended length of SSDS piping to allow for installation of instrumentation (see field notes for as-built sketch).
- Installed a ½" hole with a threaded cap to collect flow measurements
- Installed sample port with isolation ball valve
- Started up system successfully and collected the following measurements:
 - Flowrate: 170 scfm
 - Vacuum: 2.72 in. w.c.

The initial SMP for the Site was prepared by Pressley in 2011 and was replaced by the 2019 SMP prepared by Roux.

2.2.1 Remedial Action Objectives

The Remedial Action Objectives (RAOs) for the Site established in the 2019 SMP are as follows.

Remedial Action Objectives

Groundwater RAOs

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.

RAOs for Environmental Protection

- Remove the source of ground or surface water contamination.

Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from soil.

Soil Vapor RAOs

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site.

2.3 Remaining Contamination

Residual contamination is present at the Site beneath the Site Composite Cover System as summarized in the following sections. Additional information, including tables detailing the remaining contamination at the Site can be found in the 2019 SMP.

2.3.1 Soil

PCE is present in the soil below the operating space of the former Clean Zone Dry Cleaners (current Singas Pizza) at a concentration greater than the NYSDEC Part 375 Commercial Use Soil Cleanup Objectives (SCOs).

In 2013, TRC collected soil samples to characterize subsurface soil at the Site. The results of the soil analysis were compared to NYSDEC Part 375 Commercial Soil Cleanup. The results indicate that only one VOC, PCE, in one sample (TRC-SB-1), was detected at a concentration exceeding the corresponding Commercial Use SCO. PCE was detected in the soil sample collected from boring TRC-SB-1 from the interval of 6 to 7.5 feet below ground surface (bgs) at 4,500 milligrams per kilogram (mg/kg), which exceeds the Commercial Use SCO of 150 mg/kg.

2.3.2 Groundwater

The groundwater contamination remaining at the site is located proximate to the source area of the historic spill and includes PCE, trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE) at monitoring wells MW-1 and SVE (MW-C). The most recent round of SMP groundwater monitoring (September 16, 2021) indicated that PCE and TCE were the only compounds detected in concentrations above NYSDEC

AWQSGVs. PCE was detected at two of the six monitoring wells at concentrations ranging from 41 to 62 µg/L with the highest concentration detected in MW-C (SVE). TCE was detected at two of the six monitoring wells at concentrations ranging from 6.2 to 8.4 µg/L with the highest concentration detected in MW-C (SVE).

A summary of the groundwater monitoring analytical results for September 2018 through September 2021 is provided on Table 1. The results of the semi-annual groundwater monitoring events performed from July 2013 through to March 2016 are provided in Table 1 of the SMP.

2.3.3 Soil Vapor

In June 2013, TRC Companies Inc. (TRC) performed sub-slab vapor, indoor and ambient air samples to assess the Singas Pizza, CP Optical and Pathmark tenant spaces. The sub-slab vapor, indoor and ambient air samples were analyzed for PCE, TCE, cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE), vinyl chloride (VC), and 1,1-dichloroethene (1,1-DCE). Indoor and ambient air samples results were not detected above NYSDOH Air Guideline Values (AGVs) or background levels of VOCs in indoor air presented in Appendix C of the NYSDOH Guidance Document. A comparison of the sub-slab vapor and co-located indoor air samples to the matrices provided in Section 3.4 of the NYSDOH Guidance Document indicated that mitigation was the recommended action in the western portion of Singas Pizza and in the northern portion of Pathmark (now Home Sense).

The most recent round of SVI samples (March 16, 2022) was collected during the heating period and indicated that Cis-1,2-DCE was still present in sub-slab vapor. Cis-1,2-DCE, PCE and TCE were still present in indoor air at the Site. The results of the most recent sampling event are provided in Section 3.3.3 and in Table 4.

2.4 Engineering and Institutional Controls

Since residual contamination remains beneath the Site, ICs/ECs have been incorporated into the Site remedy as part of the NYSDEC-approved 2019 SMP, to provide proper management of residual contamination in the future and ensure protection of public health and the environment.

2.4.1 Engineering Controls

The Site has ECs consisting of:

- Site Composite Cover System;
- Active Sub-slab Depressurization Systems (SSDS); and
- Monitoring Wells associated with Monitored Natural Attenuation.

The purpose of each EC is described below:

- **Site Composite Cover System:** The Site Composite Cover System is comprised of building slabs, concrete sidewalks, and pavement as is serving as a permanent control designed to prevent exposure to remaining contamination in soil/ fill at the Site.
- **Active SSDS:** The active SSDS is designed to prevent potential vapor intrusion into the tenant spaces at the Site.
- **Monitoring Wells associated with Monitored Natural Attenuation:** Groundwater monitoring activities to assess natural attenuation will continue, as determined by the NYSDEC with consultation with NYSDOH, until residual groundwater concentrations are found to be consistently below the

ambient water quality standards, the site SCGs, or have become asymptotic at an acceptable level over an extended period.

All ECs fully in place and effective at meeting their objectives.

2.4.2 Institutional Controls

A Site-specific Environmental Easement has been recorded with Westchester Counter Clerk's Office that provides an enforceable means to manage the remaining contamination at the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. The ICs presented in the SMP consist of the following:

- The property may be used for commercial or industrial use;
- All ECs must be operated and maintained as specified in the 2019 SMP;
- All ECs must be inspected at a frequency and in a manner defined in the 2019 SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Westchester Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Groundwater and other environmental or public health monitoring must be performed as defined in the 2019 SMP;
- Data and information pertinent to Site management must be reported at the frequency and in a manner as defined in the 2019 SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the 2019 SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the 2019 SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the 2019 SMP;
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the Site are prohibited.

3. SMP Requirements and Compliance Monitoring

Since remaining contaminated soil, groundwater and soil vapor exist beneath the Site, ICs and ECs are required to protect human health and the environment. This section details the elements of the SMP including the inspection, monitoring, and reporting requirements, IC/ECs, whether the IC/EC requirements were met, and regulatory notification and certification requirements. The various subsections below also include an evaluation of the remedy performance, effectiveness, and protectiveness.

3.1 IC/EC Plan Compliance Report

Since remaining contamination exists beneath the Site, ICs and ECs are required to protect human health and the environment and are described in detail in Section 2.4. On an annual basis, required certifications must be made for these Site-specific ICs and ECs to ensure that the required IC/ ECs are in place, are performing properly, and remain effective; and to confirm that they are continuing to be protective of human health and the environment. The respective IC/EC Certification Form for the controls that are currently in place for the Site is provided in Appendix B.

3.1.1 Notifications

Notifications will be submitted by the property owner to the NYSDEC, as needed, in accordance with NYSDEC's DER – 10 for the following reasons:

- 60-day advance notice of any proposed changes in Site use that are required under the terms of the Order on Consent, 6NYCRR Part 375 and/or Environmental Conservation Law.
- 7-day advance notice of any field activity associated with the remedial program.
- 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan.
- Notice within 48-hours of any damage or defect to the foundation, structures or EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.
- Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the Site, along with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the Site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser/Remedial Party has been provided with a copy of the Order on Consent, and all approved work plans and reports, including this SMP.
- Within 15 days after the transfer of all or part of the Site, the new owner's name, contact representative, and contact information will be confirmed in writing to the NYSDEC.

No notifications to NYSDEC were required during the reporting period.

3.2 Inspections

All inspections were conducted at the frequency specified in the schedules provided in the following Monitoring Plan Reporting section of this PRR. At a minimum, one Site-wide Cover System and one comprehensive Site-wide inspection are to be conducted annually (starting no more than 15 months after the issuance of the COC) per the SMP. Details of requirements and completed inspections are provided in the following sections. Inspections of remedial components will also be conducted when a severe condition has taken place, such as power interruption or fire that may affect the ECs. The inspections determine and document the following:

- IC/ECs are in place, are performing properly, and remain effective;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria;
- Sampling and analysis of appropriate media during monitoring events;
- If Site records are complete and up to date; and
- Changes, or needed changes, to the remedial or monitoring system.

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the IC/ECs implemented at the Site by a qualified environmental professional as determined by NYSDEC.

3.3 Monitoring Plan Compliance Report

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the Site cover system, and all affected Site media identified below. Components of the Monitoring Plan are:

- Sampling and analysis of all appropriate media (e.g., groundwater).
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards and Part 375 SCOs for soil.
- Assessing achievement of the remedial performance criteria.
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.
- Preparing the necessary reports for the various monitoring activities.

Monitoring of the performance of the remedy and overall reduction in contamination onsite will be conducted for the periods specified for each matrix listed in table below. The frequency is subject to change in consultation with NYSDEC and based on reports submitted showing contaminant trends.

Monitoring Program	Frequency	Matrix	Analysis
Site Cover System and Site-Wide Inspection	Annually. First inspection no more than 15 months after issuance of the COC.	Soil	Visual inspection of all cover system components
Groundwater in Monitoring Wells	Annual gauging and sampling	Groundwater	PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, VC, and 1,1-DCE
SSDS	Semi-annually for first year under revised SMP and annually thereafter during heating season	Vapor	PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, VC, and 1,1-DCE

A record of the findings of each monitoring/inspection event and maintenance activity performed as described above, where applicable, were documented on the Site Inspection Checklists provided in Appendix C. If at any time during the reporting period a failure of one or more of the ECs or non-compliance with one or more of the ICs is identified, the remedial party must notify NYSDEC and implement corrective measures, in accordance with a Corrective Measures Work Plan (CMWP) submitted to and approved by NYSDEC and provide a periodic certification of the IC/ECs.

3.3.1 Site Cover System

Exposure to remaining contamination at the Site is prevented by a non-mechanical engineered Site composite cover system that consists of:

- Existing asphalt pavement in Lot 200;
- Existing concrete-covered sidewalks; and
- Existing concrete building slabs.

The location and details of the Site cover system are shown on Figure 2. Monitoring of the Site cover system will occur on an annual basis as long as the Environmental Easement is in effect to ensure the system's integrity. Monitoring consists of visual inspection, which evaluates the structural integrity of the building slabs, concrete-covered sidewalks, and asphalt pavement.

Roux performed Site cover system and Site-wide inspections on March 3, 2020, September 22, 2020, and March 3, 2021. The completed Site Inspection Checklists are provided in Appendix C. These inspections determined that all Site cover system elements described herein were observed to be performing as designed during the reporting period of the PRR and are protective of human health and the environment.

3.3.2 Groundwater Monitoring and Sampling

Samples were collected annually from the monitoring wells within the SMP monitoring network for PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, VC, and 1,1-DCE using United States Environmental Protection Agency (USEPA) Method 8260. The SMP well network consisted of monitoring wells MW-1, MW-C (SVE), MW-D, TRC-MW-F, and MW-E. Purge water and decontamination wastewater generated during the groundwater sampling was containerized in a labeled 55-gallon drum stored onsite. Groundwater analytical results are provided in Appendix D. The sampling, sample handling, decontamination, and field instrument calibration procedures were performed in accordance with procedures detailed in the SMP.

The most recent round of SMP groundwater monitoring (September 16, 2021) indicated that PCE and TCE were the only compounds detected in concentrations above NYSDEC AWQSGVs. PCE was detected at two of the six monitoring wells at concentrations ranging from 41 to 62 µg/L with the highest concentration detected in MW-C (SVE). TCE was detected at two of the six monitoring wells at concentrations ranging from 6.2 to 8.4 µg/L with the highest concentration detected in MW-C (SVE).

3.3.3 SSDS Monitoring and SVI Sampling

SSDS monitoring and SVI sampling was performed semi-annually. During the reporting period, SVI samples were collected on September 16, 2021 and March 16, 2022. Samples were collected from SSDS sample ports VE-1 and VE-2 as well as associated indoor air samples for VOCs via EPA Method TO-15 (Figure 3). Soil vapor analytical results are provided in Appendix D. The sampling, sample handling, decontamination, and field instrument calibration procedures were performed in accordance with procedures detailed in the SMP.

The most recent round of SVI samples (March 16, 2022) was collected during the heating period and are summarized below:

- 1,1-DCE was not detected in either indoor air sample or the samples collected from the SSDS sample ports.
- Cis-1,2-DCE was detected in one of the SSDS sample ports at a concentration of 1.48 µg/m³ (VE-1), and it was detected in indoor air at one tenant space (VE-1-IA) at a concentration of 0.163 µg/m³.
- PCE was not detected in either SSDS sample port; however, it was detected in indoor air at both tenant spaces at concentrations ranging from 1.11 and 21.6 µg/m³.
- TCE was not detected in either SSDS sample port; however, it was detected in indoor air at both tenant spaces at concentrations ranging from 0.167 and 0.129 µg/m³.
- VC was not detected in either indoor air sample or the samples collected from the SSDS sample ports.

In addition, PCE was identified as the primary contaminant of concern at the Site. The concentrations of PCE in indoor air and sub-slab vapor from the last four sampling events is summarized below:

Sample Designation:	Sample Date:	Concentration of PCE in Indoor Air (µg/m ³)	Concentration of PCE in Sub-Slab Vapor (µg/m ³)
VE-1-IA / VE-1	09/23/2019	5.7 / 5.64 (DUP)	1.89
	03/03/2020	1.02	8.48 U
	09/22/2020	7.39	27,000
	03/03/2021	17.4	26.1
	09/16/2021	26.3	2.45 U
	03/16/2022	21.6	1.36 U
VE-2-IA / VE-2	09/23/2019	0.509	41,200
	03/03/2020	1.05 / 1.02 (DUP)	8.68
	09/22/2020	0.393 / 0.353 (DUP)	427
	03/03/2021	0.264 / 0.251 (DUP)	7.73
	09/16/2021	2.32 / 2.07 (DUP)	67.7
	03/16/2022	1.11 / 1.12 (DUP)	1.78 U

Both VE-1 and VE-2 both had one round of anonymously high levels of PCE detected in sub-slab vapor (27,000 µg/m³ at VE-1 during the September 22, 2020 sampling event and 41,200 µg/m³ at VE-1 during the September 23, 2019 sampling event). These high levels were not replicated in the other sampling events. PCE was detected in indoor air in each of the sampling events.

3.4 Operation and Maintenance Plan Compliance Report

The O&M Plan provided in the SMP:

- Includes the steps necessary to allow individuals unfamiliar with the Site to operate and maintain the SSDS;
- Includes an O&M contingency plan;
- Will be updated periodically to reflect changes in Site conditions or the manner in which the SSDS is operated and maintained;
- Includes a SSDS Startup Report as part of the initial SSDS startup to verify that each system is operating properly; and
- Includes monitoring requirements.

Exposure to intrusion of contaminated soil vapor within the Site building is prevented by an active SSDS, which applies negative pressure under below-grade portions of the Site, collects potentially contaminated vapor, and subsequently discharges the vapor to the atmosphere above the roof the site building.

3.4.1 SSDS System Operation and Maintenance

Sub-slab vapor extraction well VE-1 was installed in the former dry cleaner, and sub-slab vapor extraction well VE-2 was installed on the edge of the northernmost aisle of the HomeSense, at the locations shown in Figure 3 and in Appendix F. The extraction wells were constructed within the excavation using a 4-inch diameter section of 0.040-inch slotted PVC well screen. The well screen section extended from the bottom of the hole to the bottom of the concrete floor. The annulus surrounding the screen was backfilled with 1/4-1/12 -inch pea stone filter pack. A non-VOC grout sealer was placed above the filter pack to form a seal with the borehole within the concrete floor.

The VE wells were piped to dedicated in-line suction blowers using four (4) inch schedule 40 PVC pipe. The piping from VE-1 extends from the floor to above the foam drop ceiling. Once above the drop ceiling, the pipe runs out through the building's eastern outer wall. The piping from VE-2 extends up along the wall where it exits the northern exterior wall. Both systems have in-line blowers with stacks that extend 4-feet above the existing roof- line. The SSDS is outfitted for drain for convenient removal of fluids.

The routine maintenance activities include visual inspections, operating data collection and general maintenance. Visual inspection is the routine part of the SSDS operator's activities. The system operator will note any conditions which present a potential hazard or could cause future system shutdown. All equipment maintenance and inspections will be performed in accordance with manufacturer's instructions specified in the SMP. Specific routine maintenance tasks are outlined below and were recorded monthly on the SSDS O&M Log:

- Inspect control panel and warning lights/alarms;
- Inspect blower piping to confirm operation of appropriate valves (i.e., dilution valve); and
- Inspect vacuum/pressure gauges for proper operation.

The required quarterly SSDS O&M logs that were completed during the operation of the SSDS during the reporting period are provided in chronological order in Appendix C. O&M activities described herein determined that the O&M Plan was carried out as designed during the reporting period of the PRR and it is protective of human health and the environment. The current O&M Plan being implemented was determined to be successful to date.

3.4.2 Operation and Maintenance of SSDS

3.4.2.1 SSDS Start-Up and Testing

System Startup will include:

- Recording SSDS vacuum and flow rate; and
- Recording subslab vacuum readings at available monitoring points or VE-1 and VE-2.

The system testing described above will be conducted if, in the course of the SSDS lifetime, the system goes down or significant changes are made to the system and the system must be restarted.

3.4.2.2 SSDS Routine System Operation and Maintenance

- Annual Tasks
- Condensate Water Disposal (if required)

3.4.2.3 SSDS Non-Routine System Maintenance

Non-routine equipment maintenance consists of maintenance activities that will be performed with less frequency than the routine maintenance (i.e., semi-annually) on several system components. Non-routine equipment maintenance and inspections. Specific non-routine maintenance tasks are outlined below:

- Check vacuum seal on extraction points;
- Replacement of vacuum/pressure gauges; and
- Service or replace motors as necessary.

Most damage or problems associated with SSDS components will trigger one of the alarms. Damage to any SSDS components will be noted in the routine and detailed system inspections and remedied upon identification. Any maintenance completed for the SSDS should be documented in the Site Management Forms in Appendix C.

In the event that low SSDS air flow rates or vacuum are observed anywhere in the system, further system balancing may be necessary following moisture removal, to ensure that the combined air flow rates and vacuum in a given area of the site achieve the minimum design requirements.

3.4.2.4 System Monitoring Devices and Alarms

The SSDS have warning devices to indicate that the system is not operating properly. Each blower has an overload relay that will shut down the blower for too high voltage or current.

The warning device currently consists of a local alarm light on the control panel of each system. In the event that warning device is activated, applicable maintenance and repairs will be conducted, as specified in the Operation and Maintenance Plan, and the SSDS will be restarted. Operational problems will be noted in the Periodic Review Report to be prepared for that reporting period.

4. Overall Conclusions and Recommendations

The following section presents conclusions from inspections and monitoring activities and recommendations.

- Both VE-1 and VE-2 both had one round of anonymously high levels of PCE detected in sub-slab vapor during the previous reporting period. These high levels were not replicated in the other sampling events and that trend has continued during this reporting period. PCE was detected in indoor air during each of the sampling events. The need to continue mitigation is required.
- The ICs and ECs are performing as designed, are effective, and are compliant with specifications described in the SMP. No changes to the monitoring plan are recommended at this time.

TABLES

1. Summary of VOCs in Groundwater
2. Summary of Emerging Contaminants in Groundwater
3. Summary of VOCs in Soil Vapor and Indoor Air

Notes Utilized Throughout Tables	
Groundwater Tables	
J -	Estimated Value
U -	Compound was analyzed for but not detected
B -	The analyte was found in an associated blank as well as in the sample
FD -	Duplicate
NA -	Compound was not analyzed for by laboratory
µg/L -	Micrograms per liter
ng/L -	Nanogram per liter
NYSDEC -	New York State Department of Environmental Conservation
AWQSGVs -	Ambient Water-Quality Standards and Guidance Values
--	No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs	
Emerging Contaminants (Per- and Polyfluoroalkyl Substances and 1,4-Dioxane)	
Bold data indicates that parameter exceeded the NYSDEC Drinking Water MCL	
MCL -	Maximum Contaminant Levels
Undetected results reflect Minimum Detection Limits	
Soil Vapor/Ambient Air	
J -	Estimated value
U -	Indicates that the compound was analyzed for but not detected
FD -	Duplicate sample
ug/m3 -	Micrograms per cubic meter
Bold data indicates that parameter was detected	

Table 1. Summary of Volatile Organic Compounds in Groundwater, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:			MW-1	MW-1	MW-1	MW-1	MW-1	MW-C_SVE	MW-C_SVE	MW-C_SVE	MW-C_SVE
Sample Date:			09/20/2018	09/23/2019	09/23/2019	09/21/2020	09/16/2021	09/20/2018	09/23/2019	09/21/2020	09/16/2021
Normal Sample or Field Duplicate:			N	N	FD	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance Values	Units									
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethylene	5	UG/L	11	5.2	5.4	3.2	4.7	8.3	2.5 U	2.5	5
Tetrachloroethylene (PCE)	5	UG/L	67	42	43	47	41	83	3.9	52	62
Trans-1,2-Dichloroethene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	NA	2.5 U	2.5 U	2.5 U	NA
Trichloroethylene (TCE)	5	UG/L	6.4	4.4	4.6	3.7	6.2	8.4	0.61	3.7	6.8
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 1. Summary of Volatile Organic Compounds in Groundwater, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:			MW-D	MW-D	MW-D	MW-D	MW-D	MW-E	MW-E	MW-E	MW-E
Sample Date:			09/20/2018	09/20/2018	09/23/2019	09/21/2020	09/16/2021	09/20/2018	09/23/2019	09/21/2020	09/16/2021
Normal Sample or Field Duplicate:			N	FD	N	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance Values	Units									
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L	0.33 J	0.23 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	NA	2.5 U	2.5 U	2.5 U	NA
Trichloroethylene (TCE)	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 1. Summary of Volatile Organic Compounds in Groundwater, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:			TRC-MW-F	TRC-MW-F	TRC-MW-F	TRC-MW-F	TRC-MW-F	TRC-MW-F
Sample Date:			09/20/2018	09/23/2019	09/21/2020	09/21/2020	09/16/2021	09/16/2021
Normal Sample or Field Duplicate:			N	N	N	FD	N	FD
Parameter	NYSDEC Ambient Water Quality Standards and Guidance Values	Units						
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L	0.19 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	NA	NA
Trichloroethylene (TCE)	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U

Table 2. Summary of Semivolatile Organic Compounds in Groundwater, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:			MW-C_SVE	MW-E	TRC-MW-F
Sample Date:			10/12/2018	10/12/2018	10/12/2018
Normal Sample or Field Duplicate:			N	N	N
Parameter	NYSDEC Drinking Water MCL Action Levels	Units			
1,4-Dioxane (P-Dioxane)	1	UG/L	0.0758 U	0.0758 U	0.0781 U

Table 3. Summary of Perfluorinated Alkyl Acids in Groundwater, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:			MW-C_SVE	MW-E	TRC-MW-F
Sample Date:			09/20/2018	09/20/2018	09/20/2018
Normal Sample or Field Duplicate:			N	N	N
Parameter	NYSDEC Drinking Water MCL Action Levels	Units			
2-(N-methyl perfluorooctanesulfonamido) acetic acid	--	NG/L	0.223 U	0.24 U	0.23 U
N-ethyl perfluorooctanesulfonamidoacetic acid	--	NG/L	0.332 U	0.357 U	0.343 U
Perfluorobutanesulfonic acid (PFBS)	--	NG/L	3.17	5.83	7.86
Perfluorobutanoic Acid	--	NG/L	4.13	5.62	8.19
Perfluorodecane Sulfonic Acid	--	NG/L	0.198 U	0.213 U	0.204 U
Perfluorodecanoic acid (PFDA)	--	NG/L	1.47 J	0.893 J	0.175 U
Perfluorododecanoic acid (PFDoA)	--	NG/L	0.082 U	0.088 U	0.084 U
Perfluoroheptane Sulfonate (PFHPS)	--	NG/L	0.138 U	0.149 U	0.143 U
Perfluoroheptanoic acid (PFHpA)	--	NG/L	5.52	4.78	7.4
Perfluorohexanesulfonic acid (PFHxS)	--	NG/L	0.096 U	4.44	3.9
Perfluorohexanoic acid (PFHxA)	--	NG/L	3.88	5.87	12
Perfluorononanoic acid (PFNA)	--	NG/L	4.66	1.65 J	0.849 J
Perfluorooctane Sulfonamide (FOSA)	--	NG/L	0.202 U	0.217 U	0.208 U
Perfluorooctanesulfonic acid (PFOS)	10	NG/L	11.4	7.3	5.85
Perfluorooctanoic acid (PFOA)	10	NG/L	11.5	18.1	25.2
Perfluoropentanoic Acid (PFPeA)	--	NG/L	4.76	6.44	12.8
Perfluorotetradecanoic acid (PFTA)	--	NG/L	0.064 U	0.069 U	0.066 U
Perfluorotridecanoic Acid (PFTriA)	--	NG/L	0.08 U	0.087 U	0.083 U
Perfluoroundecanoic Acid (PFUnA)	--	NG/L	0.509 J	0.464 J	0.176 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	--	NG/L	0.259 UJ	0.278 UJ	0.267 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	--	NG/L	1.04 B	1.49 B	0.357 B

Table 4. Summary of Volatile Organic Compounds in Soil Vapor and Indoor Air, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:		VE-1	VE-1	VE-1	VE-1	VE-1-IA	VE-1-IA	VE-1-IA	VE-1-IA	VE-1-IA
Sample Date:		09/23/2019	03/03/2021	09/16/2021	03/16/2022	09/20/2018	09/20/2018	03/21/2019	03/21/2019	09/23/2019
Normal Sample or Field Duplicate:		N	N	N	N	N	FD	N	FD	N
Parameter	Units									
1,1,1-Trichloroethane (TCA)	UG/M3	1.09 U	1.09 U	1.97 U	1.09 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	2.48 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	1.53 U	1.53 U	2.77 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.97 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	1.46 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	UG/M3	0.793 U	0.793 U	1.43 U	0.793 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	2.68 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	2.14	0.983 U	1.77 U	1.05	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	2.77 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	2.17 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	1.46 U	4.13	0.809 U	0.809 U	1.05	1.3	1.61
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	1.67 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	2.52 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	1.77 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.799 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	2.17 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	2.17 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dioxane (P-Dioxane)	UG/M3	0.721 U	0.721 U	1.3 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	1.69 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	1.5	0.82 U	11.5	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	1.77 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	21.9	230	95.3	119	7.7	7.96	58.2	74.4	24
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	1.13 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.786	3.12	22.7	6.77	0.639 U	0.639 U	0.687	0.735	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.87 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	2.42 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	3.73 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	1.4 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	9.78	5.14	0.623 U	0.797	0.623 U	0.623 U	0.623 U	0.623 U
Carbon Tetrachloride	UG/M3	1.26 U	1.26 U	2.27 U	1.26 U	0.403	0.327	0.39	0.352	0.585
Chlorobenzene	UG/M3	0.921 U	0.921 U	1.66 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.953 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	UG/M3	0.977 U	0.977 U	1.76 U	0.977 U	0.977 U	0.977 U	1.41	1.73	3.55
Chloromethane	UG/M3	1.23	1.53	5.6	1.37	0.871	0.977	1.69	2.03	1.68
Cis-1,2-Dichloroethylene	UG/M3	0.793 U	0.793 U	1.43 U	1.48	0.079 U	0.079 U	0.234	0.289	0.107
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	1.64 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	1.2	0.688 U	2.89	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U

Table 4. Summary of Volatile Organic Compounds in Soil Vapor and Indoor Air, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:		VE-1	VE-1	VE-1	VE-1	VE-1-IA	VE-1-IA	VE-1-IA	VE-1-IA	VE-1-IA
Sample Date:		09/23/2019	03/03/2021	09/16/2021	03/16/2022	09/20/2018	09/20/2018	03/21/2019	03/21/2019	09/23/2019
Normal Sample or Field Duplicate:		N	N	N	N	N	FD	N	FD	N
Parameter	Units									
Dibromochloromethane	UG/M3	1.7 U	1.7 U	3.08 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	2.59	2.13	2.61	2.52	2.03	2.03	1.94	2.38	2.69
Dichloroethylenes	UG/M3	NA	NA	NA	NA	NA	NA	0.234	0.289	NA
Ethanol	UG/M3	102	9.42 U	17 U	399	2470	2640	18100	18300	5050
Ethyl Acetate	UG/M3	1.8 U	1.8 U	3.25 U	2.37	2.89	3.08	27.6	32	2.93
Ethylbenzene	UG/M3	1.72	0.869 U	1.57 U	1.29	0.869 U	0.869 U	3.54	3.29	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	3.85 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	1.61	12.2	2.22 U	145	2.03	2.01	7.01	7.74	59.7
m,p-Xylene	UG/M3	5.47	2.38	3.14 U	6.65	1.74 U	1.74 U	12.4	11.5	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	2.26	4.48	76.1	6.25	1.47 U	1.47 U	5.19	6.08	3.45
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	3.7 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
Methylene Chloride	UG/M3	1.74 U	1.74 U	5.77	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
N-Heptane	UG/M3	1.05	1.21	3.8	0.906	0.82 U	0.82 U	0.975	0.934	0.836
N-Hexane	UG/M3	0.722	0.782	5.22	0.789	0.705 U	0.705 U	0.744	0.705 U	1.2
O-Xylene (1,2-Dimethylbenzene)	UG/M3	3.2	1.01	1.57 U	1.73	0.869 U	0.869 U	3.64	3.38	0.869 U
Styrene	UG/M3	2.22	0.852 U	1.54 U	1.37	0.852 U	0.852 U	2.79	2.54	0.852 U
Tert-Butyl Alcohol	UG/M3	10.4	1.61	3.7	21	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	1.3 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrachloroethylene (PCE)	UG/M3	1.89	26.1	2.45 U	1.36 U	2.46	2.74	126	122	5.7
Tetrahydrofuran	UG/M3	1.47 U	4.72	27.3	4.25	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	2.2	8.82	2.65	9.57	0.901	1.02	4.64	4.64	3.88
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	1.43 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	1.64 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichloroethylene (TCE)	UG/M3	1.07 U	1.07 U	1.94 U	1.07 U	0.107 U	0.107 U	0.371	0.392	0.188
Trichlorofluoromethane	UG/M3	1.46	1.55	3.54	1.37	1.28	1.31	1.66	2.1	12.9
Vinyl Bromide	UG/M3	0.874 U	0.874 U	1.58 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl Chloride	UG/M3	0.511 U	0.511 U	0.923 U	0.511 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U

Table 4. Summary of Volatile Organic Compounds in Soil Vapor and Indoor Air, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:		VE-1-IA	VE-1-IA	VE-1-IA	VE-1-IA	VE-1-IA	VE-1-IA	VE-1-SUBSLAB	VE-1-SUBSLAB
Sample Date:		09/23/2019	03/03/2020	09/22/2020	03/03/2021	09/16/2021	03/16/2022	03/03/2020	09/22/2020
Normal Sample or Field Duplicate:		FD	N	N	N	N	N	N	N
Parameter	Units								
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	6.82 U	73.1 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	8.58 U	92 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	9.58 U	103 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	6.82 U	73.1 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	5.06 U	54.2 U
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	4.96 U	53.1 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	9.28 U	99.5 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	6.15 U	65.9 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	9.61 U	103 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	7.52 U	80.6 U
1,2-Dichloroethane	UG/M3	1.61	0.809 U	0.809 U	0.809 U	1.75	0.809 U	5.06 U	54.2 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	5.78 U	61.9 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	8.74 U	93.7 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	6.15 U	65.9 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	2.77 U	29.6 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	7.52 U	80.6 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	7.52 U	80.6 U
1,4-Dioxane (P-Dioxane)	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	4.5 U	48.3 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	1.29	0.934 U	0.934 U	1.35	0.934 U	5.84 U	62.6 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	5.12 U	54.9 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	6.15 U	65.9 U
Acetone	UG/M3	20.5	9.22	6.79	15.4	34.7	11.6	945	210
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	3.91 U	41.9 U
Benzene	UG/M3	0.639 U	1.24	0.639 U	0.735	0.639 U	0.639 U	3.99 U	42.8 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	6.47 U	69.4 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	8.37 U	89.8 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	12.9 U	139 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	4.85 U	52 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	3.89 U	41.7 U
Carbon Tetrachloride	UG/M3	0.497	0.497	0.484	0.491	0.434	0.453	7.86 U	84.3 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	5.76 U	61.7 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	3.3 U	35.4 U
Chloroform	UG/M3	3.2	0.977 U	0.977 U	0.977 U	2.46	0.977 U	6.1 U	65.4 U
Chloromethane	UG/M3	1.67	1.5	0.964	1.5	1.39	1.15	2.58 U	27.7 U
Cis-1,2-Dichloroethylene	UG/M3	0.123	0.079 U	0.079 U	0.111	0.131	0.163	11.9	1700
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	5.67 U	60.8 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	7.26	46.1 U

Table 4. Summary of Volatile Organic Compounds in Soil Vapor and Indoor Air, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:		VE-1-IA	VE-1-IA	VE-1-IA	VE-1-IA	VE-1-IA	VE-1-IA	VE-1-SUBSLAB	VE-1-SUBSLAB
Sample Date:		09/23/2019	03/03/2020	09/22/2020	03/03/2021	09/16/2021	03/16/2022	03/03/2020	09/22/2020
Normal Sample or Field Duplicate:		FD	N	N	N	N	N	N	N
Parameter	Units								
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	10.6 U	114 U
Dichlorodifluoromethane	UG/M3	2.58	1.95	1.93	1.57	2.36	2.28	6.18 U	66.3 U
Dichloroethylenes	UG/M3	NA	NA	NA	NA	NA	NA	NA	NA
Ethanol	UG/M3	4770	737	3010	4970	19200	3010	215	629 U
Ethyl Acetate	UG/M3	3.1	1.8 U	1.8 U	5.77	17.6	2.54	11.2 U	120 U
Ethylbenzene	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	5.43 U	58.2 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	13.3 U	143 U
Isopropanol	UG/M3	61.5	2.8	10.5	184	275	91.4	2220	82.1 U
m,p-Xylene	UG/M3	1.74 U	1.99	1.74 U	1.74 U	2.25	1.74 U	10.9 U	116 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	2.94	1.47 U	1.47 U	2.06	10.1	1.47 U	18	98.5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	12.8 U	137 U
Methylene Chloride	UG/M3	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	10.8 U	116 U
N-Heptane	UG/M3	0.848	0.82 U	0.82 U	0.82 U	1.5	0.82 U	5.12 U	54.9 U
N-Hexane	UG/M3	1.12	1.24	0.705 U	0.705 U	0.705 U	0.705 U	4.41 U	47.2 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	1.03	0.869 U	5.43 U	58.2 U
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	1.16	0.852 U	5.32 U	57.1 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	54	101 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	4.51 U	48.3 U
Tetrachloroethylene (PCE)	UG/M3	5.64	1.02	7.39	17.4	26.3	21.6	8.48 U	27000
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	3.16	1.47 U	9.2 U	98.5 U
Toluene	UG/M3	3.63	3.09	0.754 U	1.29	5.92	1.45	58.8	50.5 U
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	4.96 U	63.4
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	5.67 U	60.8 U
Trichloroethylene (TCE)	UG/M3	0.285	0.107 U	0.107 U	0.172	0.22	0.167	6.72 U	2050
Trichlorofluoromethane	UG/M3	12.7	1.69	1.21	1.29	10.6	1.5	7.02 U	75.3 U
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	5.47 U	58.6 U
Vinyl Chloride	UG/M3	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	3.2 U	34.3 U

Table 4. Summary of Volatile Organic Compounds in Soil Vapor and Indoor Air, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:		VE-2	VE-2	VE-2	VE-2	VE-2	VE-2	VE-2-IA	VE-2-IA	VE-2-IA
Sample Date:		09/23/2019	03/03/2020	09/22/2020	03/03/2021	09/16/2021	03/16/2022	09/20/2018	03/21/2019	09/23/2019
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Units									
1,1,1-Trichloroethane (TCA)	UG/M3	101 U	5.46 U	1.09 U	1.09 U	1.36 U	1.43 U	0.109 U	0.109 U	0.109 U
1,1,2,2-Tetrachloroethane	UG/M3	128 U	6.87 U	1.37 U	1.37 U	1.72 U	1.81 U	1.37 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	143 U	7.66 U	1.53 U	1.53 U	1.92 U	2.02 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	101 U	5.46 U	1.09 U	1.09 U	1.36 U	1.43 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	75.3 U	4.05 U	0.809 U	0.809 U	1.01 U	1.06 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	UG/M3	73.7 U	3.96 U	0.793 U	0.793 U	0.991 U	1.04 U	0.079 U	0.079 U	0.079 U
1,2,4-Trichlorobenzene	UG/M3	138 U	7.42 U	1.48 U	1.48 U	1.86 U	1.95 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	91.4 U	4.92 U	0.983 U	1.52	1.23 U	1.93	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	143 U	7.69 U	1.54 U	1.54 U	1.92 U	2.02 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	UG/M3	112 U	6.01 U	1.2 U	1.2 U	1.5 U	1.58 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	75.3 U	4.05 U	2.74	0.809 U	4.45	5.91	0.809 U	2.26	5.06
1,2-Dichloropropane	UG/M3	86 U	4.62 U	0.924 U	0.924 U	1.16 U	1.22 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	130 U	6.99 U	1.4 U	1.4 U	1.75 U	1.84 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	91.4 U	4.92 U	0.983 U	0.983 U	1.23 U	1.29 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	41.1 U	2.21 U	0.442 U	0.442 U	0.553 U	0.582 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	112 U	6.01 U	1.2 U	1.2 U	1.5 U	1.58 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	UG/M3	112 U	6.01 U	1.2 U	1.2 U	1.5 U	1.58 U	1.2 U	1.2 U	1.2 U
1,4-Dioxane (P-Dioxane)	UG/M3	67 U	3.6 U	0.721 U	0.721 U	0.901 U	0.948 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	86.9 U	4.67 U	0.934 U	0.934 U	1.17 U	1.23 U	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	76.2 U	4.1 U	0.82 U	1.77	36.5	1.23	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	91.4 U	4.92 U	0.983 U	0.983 U	1.23 U	1.29 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	222 U	926	66.3	397	347	94.5	32.3	80.5	22.2
Allyl Chloride (3-Chloropropene)	UG/M3	58.2 U	3.13 U	0.626 U	0.626 U	0.783 U	0.823 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	59.4 U	3.19 U	8.18	6.77	3.77	5.24	0.639 U	0.639 U	0.639 U
Benzyl Chloride	UG/M3	96.3 U	5.18 U	1.04 U	1.04 U	1.29 U	1.36 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	125 U	6.7 U	1.34 U	1.34 U	1.67 U	1.76 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	192 U	10.3 U	2.07 U	2.07 U	2.58 U	2.72 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	72.2 U	3.88 U	0.777 U	0.777 U	0.971 U	1.02 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	57.9 U	3.11 U	0.623 U	0.623 U	3.74	0.819 U	0.623 U	0.623 U	0.623 U
Carbon Tetrachloride	UG/M3	117 U	6.29 U	1.26 U	1.26 U	1.57 U	1.65 U	0.409	0.396	0.547
Chlorobenzene	UG/M3	85.7 U	4.61 U	0.921 U	0.921 U	1.15 U	1.21 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	49.1 U	2.64 U	0.528 U	0.528 U	0.66 U	0.694 U	0.528 U	0.528 U	0.528 U
Chloroform	UG/M3	90.8 U	4.88 U	0.977 U	0.977 U	2.34	1.28 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	38.4 U	2.07 U	0.915	0.981	1.64	2.13	0.807	1.16	1.15
Cis-1,2-Dichloroethylene	UG/M3	73.7 U	3.96 U	14.2	22.8	3.25	1.04 U	0.079 U	0.079 U	0.079 U
Cis-1,3-Dichloropropene	UG/M3	84.4 U	4.54 U	0.908 U	0.908 U	1.13 U	1.19 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	64 U	5.61	0.688 U	0.688 U	0.861 U	0.905 U	0.688 U	0.688 U	0.688 U

Table 4. Summary of Volatile Organic Compounds in Soil Vapor and Indoor Air, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:		VE-2	VE-2	VE-2	VE-2	VE-2	VE-2	VE-2-IA	VE-2-IA	VE-2-IA
Sample Date:		09/23/2019	03/03/2020	09/22/2020	03/03/2021	09/16/2021	03/16/2022	09/20/2018	03/21/2019	09/23/2019
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Units									
Dibromochloromethane	UG/M3	158 U	8.52 U	1.7 U	1.7 U	2.13 U	2.24 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	92 U	4.94 U	3.33	2.1	5.54	2.47	2.11	1.79	2.87
Dichloroethylenes	UG/M3	NA	NA	NA	NA	NA	NA	NA	0.079 U	NA
Ethanol	UG/M3	878 U	132	40.5	53.3	122	121	16.8	258	74.8
Ethyl Acetate	UG/M3	168 U	9.01 U	1.8 U	1.8 U	2.25 U	2.37 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	UG/M3	80.8 U	4.34 U	0.869 U	1.19	1.09 U	1.14 U	0.869 U	4.91	0.869 U
Hexachlorobutadiene	UG/M3	198 U	10.7 U	2.13 U	2.13 U	2.67 U	2.81 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	115 U	1380	8.23	8.5	64.6	50.1	2.25	13.2	4.99
m,p-Xylene	UG/M3	162 U	8.69 U	1.74 U	4.65	3.37	4.24	1.74 U	17.2	1.81
Methyl Ethyl Ketone (2-Butanone)	UG/M3	137 U	7.37 U	14.6	9.41	237	2.95	2.84	9.23	3.54
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	191 U	10.2 U	2.05 U	2.05 U	2.56 U	2.7 U	2.05 U	2.05 U	2.05 U
Methylene Chloride	UG/M3	162 U	8.69 U	1.74 U	1.74 U	3.89	2.3	1.74 U	1.74 U	1.74 U
N-Heptane	UG/M3	76.2 U	4.1 U	0.82 U	2.35	4.14	4.39	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	65.6 U	3.52 U	2.04	1.28	5	1.4	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	80.8 U	4.34 U	0.869 U	1.87	1.09 U	1.93	0.869 U	5.52	0.886
Styrene	UG/M3	79.2 U	4.26 U	0.852 U	0.852 U	1.06 U	1.72	0.852 U	4.81	1.8
Tert-Butyl Alcohol	UG/M3	141 U	20.8	11.3	3.79	19.2	6.85	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	67.1 U	3.61 U	0.721 U	0.721 U	0.901 U	0.948 U	0.721 U	0.721 U	0.721 U
Tetrachloroethylene (PCE)	UG/M3	41200	8.68	427	7.73	67.7	1.78 U	0.746	0.739	0.509
Tetrahydrofuran	UG/M3	137 U	7.37 U	7.28	1.47 U	18.3	4.31	1.47 U	1.47 U	2.3
Toluene	UG/M3	70.1 U	40.7	1.15	21.4	6.33	14.6	0.957	7.39	4.41
Trans-1,2-Dichloroethene	UG/M3	73.7 U	3.96 U	0.892	0.856	0.991 U	1.04 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	84.4 U	4.54 U	0.908 U	0.908 U	1.13 U	1.19 U	0.908 U	0.908 U	0.908 U
Trichloroethylene (TCE)	UG/M3	136	5.37 U	23	5.7	4.09	1.41 U	0.107 U	0.107 U	0.134
Trichlorofluoromethane	UG/M3	105 U	5.62 U	3.47	1.37	11.7	1.48 U	2.54	1.66	9.55
Vinyl Bromide	UG/M3	81.3 U	4.37 U	0.874 U	0.874 U	1.09 U	1.15 U	0.874 U	0.874 U	0.874 U
Vinyl Chloride	UG/M3	47.5 U	2.56 U	0.557	0.826	0.639 U	0.672 U	0.051 U	0.051 U	0.051 U

Table 4. Summary of Volatile Organic Compounds in Soil Vapor and Indoor Air, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:		VE-2-IA	VE-2-IA	VE-2-IA	VE-2-IA	VE-2-IA	VE-2-IA	VE-2-IA	VE-2-IA	VE-2-IA
Sample Date:		03/03/2020	03/03/2020	09/22/2020	09/22/2020	03/03/2021	03/03/2021	09/16/2021	09/16/2021	03/16/2022
Normal Sample or Field Duplicate:		N	FD	N	FD	N	FD	N	FD	N
Parameter	Units									
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	5.65	5.21	3.53
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	3	2.59	4.98	4.9	1.66	1.59	12.9	11.9	0.967
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	1.4	1.32	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	1.16	1.03	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dioxane (P-Dioxane)	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	15.5	17.1	9.34	13.8	6.18	6.49	68.9	63.4	25.9
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.68	0.642	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.835	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Carbon Tetrachloride	UG/M3	0.497	0.51	0.516	0.484	0.472	0.465	0.371	0.384	0.447
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	1.21	1.09	0.977 U
Chloromethane	UG/M3	1.05	1.26	0.983	0.983	1.08	1.06	1.98	1.29	1.22
Cis-1,2-Dichloroethylene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	5.99	5.71	0.688 U	0.688 U	0.688 U	0.688 U	0.95	0.816	0.716

Table 4. Summary of Volatile Organic Compounds in Soil Vapor and Indoor Air, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:		VE-2-IA	VE-2-IA	VE-2-IA	VE-2-IA	VE-2-IA	VE-2-IA	VE-2-IA	VE-2-IA	VE-2-IA
Sample Date:		03/03/2020	03/03/2020	09/22/2020	09/22/2020	03/03/2021	03/03/2021	09/16/2021	09/16/2021	03/16/2022
Normal Sample or Field Duplicate:		N	FD	N	FD	N	FD	N	FD	N
Parameter	Units									
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	1.84	1.83	2.35	2.27	1.96	1.78	3.13	3.08	2.58
Dichloroethylenes	UG/M3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethanol	UG/M3	424	486	379	371	354	364	499	443	580
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.61	4.43	4.72
Ethylbenzene	UG/M3	1.87	2.07	0.869 U	0.869 U	0.869 U	0.869 U	6.65	6.08	2.3
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	11.2	12	109	92.9	379	425	1350	1130	29.5
m,p-Xylene	UG/M3	2.94	3.03	1.74 U	1.74 U	1.74 U	1.86	16.1	14.6	5.95
Methyl Ethyl Ketone (2-Butanone)	UG/M3	2.3	2.33	1.47 U	1.47 U	1.47 U	1.47 U	5.63	5.1	4.63
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
Methylene Chloride	UG/M3	1.84	1.81	1.74 U	1.74 U	1.74 U	1.74 U	6.04	7.71	1.74 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	1.32	1.29	0.869 U	0.869 U	0.869 U	0.869 U	8.17	7.56	3.61
Styrene	UG/M3	2.8	2.9	1.15	0.852 U	1.33	1.43	11.9	10.9	8.39
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrachloroethylene (PCE)	UG/M3	1.05	1.02	0.393	0.353	0.264	0.251	2.32	2.07	1.11
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.97	1.65	1.59
Toluene	UG/M3	8.71	8.48	1.75	1.4	2.43	2.32	33.2	29.9	20
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichloroethylene (TCE)	UG/M3	0.107 U	0.107 U	0.107 U	0.107 U	0.511	0.107 U	0.172	0.129	0.129
Trichlorofluoromethane	UG/M3	2.16	2.23	2.12	2.06	1.23	1.12 U	13.5	12.5	1.77
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl Chloride	UG/M3	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U

Table 4. Summary of Volatile Organic Compounds in Soil Vapor and Indoor Air, 2500 Central Park Avenue, Yonkers, New York

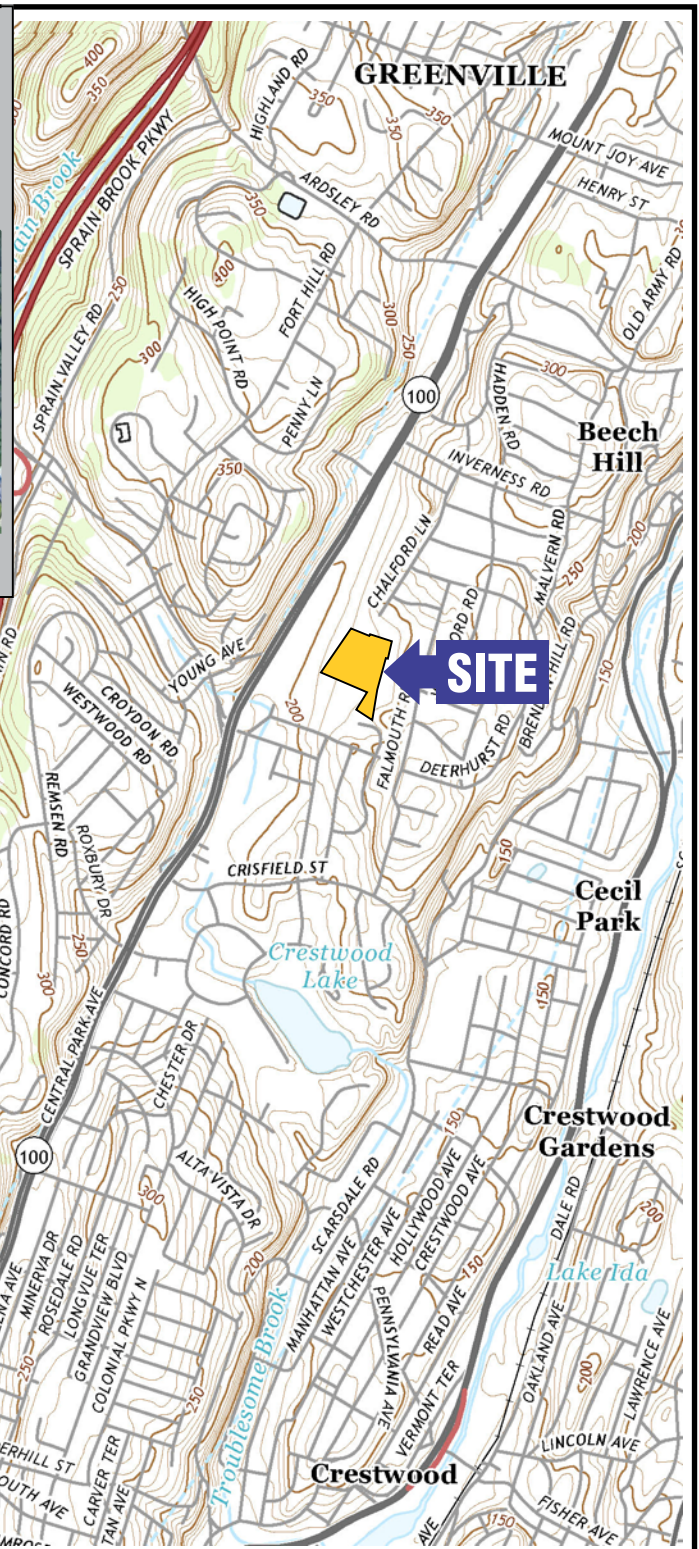
Sample Designation:		VE-2-IA
Sample Date:		03/16/2022
Normal Sample or Field Duplicate:		FD
Parameter	Units	
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U
1,1-Dichloroethene	UG/M3	0.079 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U
1,2,4-Trimethylbenzene	UG/M3	3.64
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U
1,2-Dichlorobenzene	UG/M3	1.2 U
1,2-Dichloroethane	UG/M3	1.02
1,2-Dichloropropane	UG/M3	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U
1,3-Butadiene	UG/M3	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U
1,4-Dichlorobenzene	UG/M3	1.2 U
1,4-Dioxane (P-Dioxane)	UG/M3	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U
2-Hexanone	UG/M3	0.82 U
4-Ethyltoluene	UG/M3	0.983 U
Acetone	UG/M3	25.7
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U
Benzene	UG/M3	0.639 U
Benzyl Chloride	UG/M3	1.04 U
Bromodichloromethane	UG/M3	1.34 U
Bromoform	UG/M3	2.07 U
Bromomethane	UG/M3	0.777 U
Carbon Disulfide	UG/M3	0.623 U
Carbon Tetrachloride	UG/M3	0.465
Chlorobenzene	UG/M3	0.921 U
Chloroethane	UG/M3	0.528 U
Chloroform	UG/M3	0.977 U
Chloromethane	UG/M3	1.22
Cis-1,2-Dichloroethylene	UG/M3	0.079 U
Cis-1,3-Dichloropropene	UG/M3	0.908 U
Cyclohexane	UG/M3	0.723

Table 4. Summary of Volatile Organic Compounds in Soil Vapor and Indoor Air, 2500 Central Park Avenue, Yonkers, New York

Sample Designation:		VE-2-IA
Sample Date:		03/16/2022
Normal Sample or Field Duplicate:		FD
Parameter	Units	
Dibromochloromethane	UG/M3	1.7 U
Dichlorodifluoromethane	UG/M3	2.45
Dichloroethylenes	UG/M3	NA
Ethanol	UG/M3	577
Ethyl Acetate	UG/M3	5.08
Ethylbenzene	UG/M3	2.36
Hexachlorobutadiene	UG/M3	2.13 U
Isopropanol	UG/M3	30.7
m,p-Xylene	UG/M3	6.08
Methyl Ethyl Ketone (2-Butanone)	UG/M3	4.98
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U
Methylene Chloride	UG/M3	1.74 U
N-Heptane	UG/M3	0.82 U
N-Hexane	UG/M3	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	3.63
Styrene	UG/M3	8.47
Tert-Butyl Alcohol	UG/M3	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U
Tetrachloroethylene (PCE)	UG/M3	1.12
Tetrahydrofuran	UG/M3	1.47 U
Toluene	UG/M3	20.5
Trans-1,2-Dichloroethene	UG/M3	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U
Trichloroethylene (TCE)	UG/M3	0.129
Trichlorofluoromethane	UG/M3	1.76
Vinyl Bromide	UG/M3	0.874 U
Vinyl Chloride	UG/M3	0.051 U

FIGURES

1. Site Location Map
2. Site Plan
3. SSDS Layout



QUADRANGLE LOCATION



SOURCE:
USGS; Yonkers, NY-NJ (2016)
and Mount Vernon, NY (2016)
7.5 Minute Topographic Quadrangles

0 2000'

Title:

SITE LOCATION MAP

FORMER CLEAN ZONE DRY CLEANERS
2500 CENTRAL PARK AVENUE
YONKERS, NEW YORK

Prepared for:

UE YONKERS II LLC

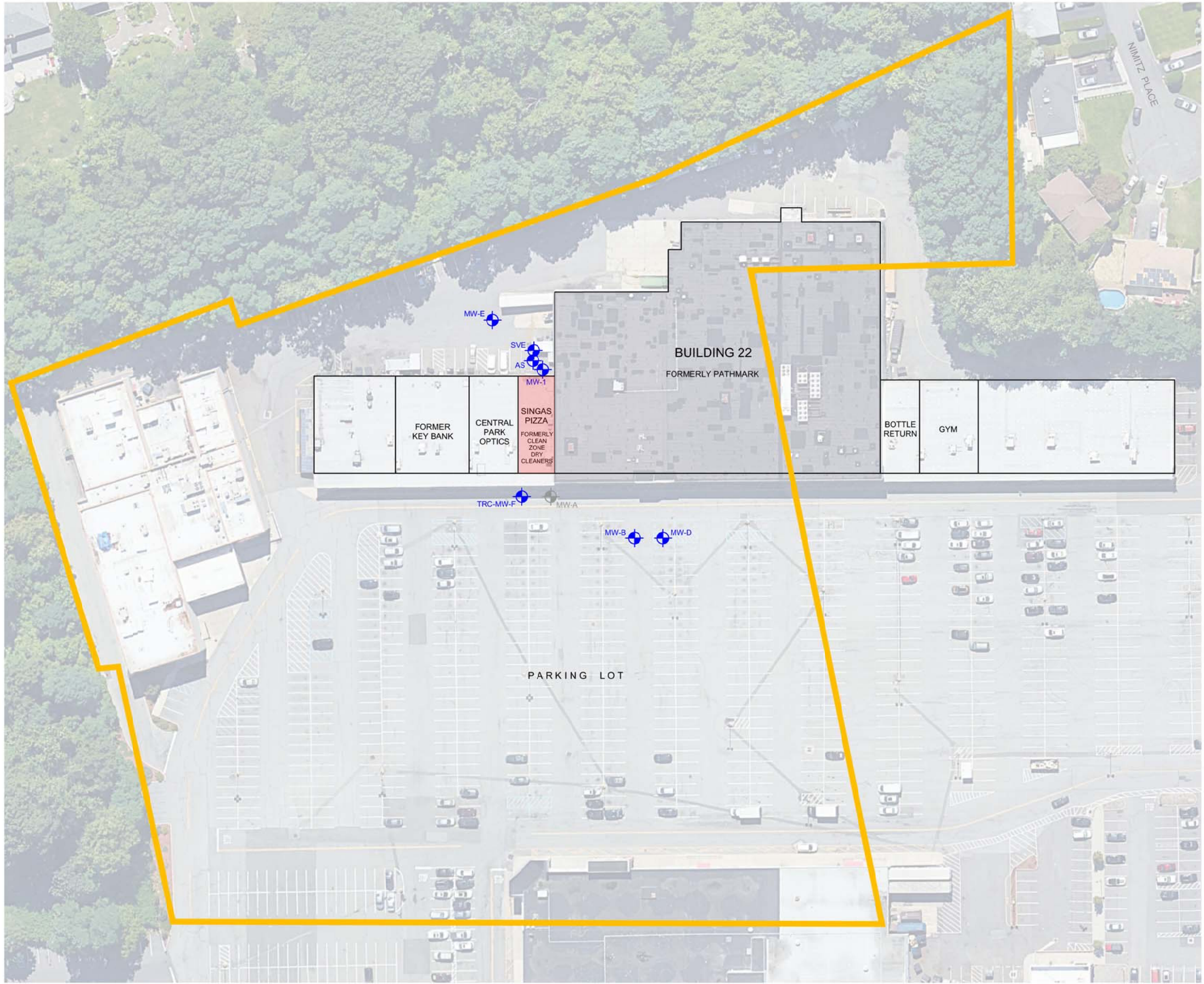
ROUX

Compiled by: R.H.	Date: 07JUN18
Prepared by: B.H.C.	Scale: AS SHOWN
Project Mgr.: R.H.	Project No.: 2546.0007Y002
File: 2546.0007Y101.02.CDR	

FIGURE

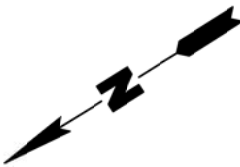
1

V:\CAD\PROJECTS\2546\0007\101\2546.0007\101.01.DWG

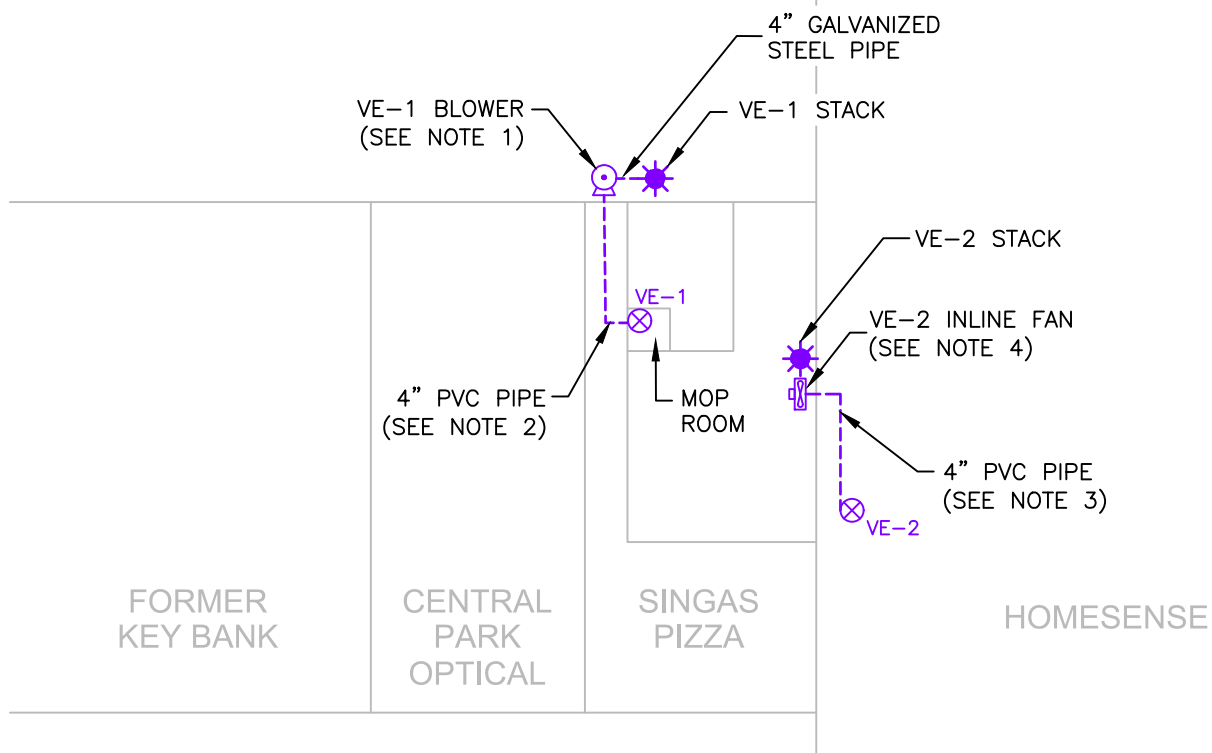
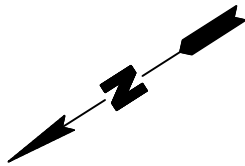


LEGEND

-  MONITORING WELL LOCATION AND DESIGNATION
-  FORMER MONITORING WELL LOCATION AND DESIGNATION
-  FORMER CLEAN ZONE DRY CLEANERS
-  SITE BOUNDARY (SECTION 4, BLOCK 4877, LOT 200)

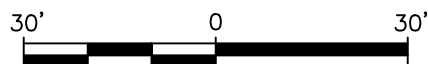


Title:			
SITE PLAN			
FORMER CLEAN ZONE DRY CLEANERS 2500 CENTRAL PARK AVENUE YONKERS, NEW YORK			
Prepared For:			
UE YONKERS II LLC			
	Compiled by: R.H.	Date: 07JUN18	FIGURE 2
	Prepared by: B.H.C.	Scale: AS SHOWN	
	Project Mgr: R.H.	Project: 2546.0007Y002	
	File: 2546.0007Y101.01.DWG		



NOTES

1. BLOWER MOUNTED ON STAND ALONG EXTERIOR WALL OF BUILDING.
2. PVC MANIFOLD PIPE LOCATED ABOVE DROP CEILING
3. PIPING LOCATED ALONG NORTH INTERIOR WALL OF BUILDING.
4. INLINE FAN MOUNTED ON NORTH EXTERIOR WALL OF BUILDING AND CAN BE ACCESSED VIA SINGA'S PIZZA ROOF.
5. LAYOUT OF SSDS IS APPROXIMATE AND BASED ON ROUX'S FIELD OBSERVATIONS.



Title:

SSDS LAYOUT

FORMER CLEAN ZONE DRY CLEANERS
2500 CENTRAL PARK AVENUE
YONKERS, NEW YORK

Prepared For:

UE YONKERS II LLC



Compiled by: R.H.	Date: 03JUN21	FIGURE 3
Prepared by: N.P.	Scale: AS SHOWN	
Project Mgr: R.H.	Project: 2546.0007Y002	
File: 2546.0007Y101.01.DWG		

APPENDICES

- A. NYSDEC Site Management Plan Approval
- B. IC/EC Certification Form
- C. Site Inspection Checklists and Photo Log
- D. Laboratory Analytical Results

APPENDIX A

NYSDEC Site Management Plan Approval

From: [Miller, John Y \(DEC\)](#)
To: [Rachel Henke](#)
Cc: [Eaton, Daniel J \(DEC\)](#); [Perretta, Anthony C \(HEALTH\)](#); [Schuck, Maureen E \(HEALTH\)](#); [Charlie McGuckin](#)
Subject: RE: Former Clean Zone Dry Cleaners (360050): Annual GW Sampling Results
Date: Friday, January 3, 2020 11:12:38 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.jpg](#)

This message originated outside your organization. Please use caution!

Hi Rachel,

The NYSDEC has received the revised Site Management Plan (SMP) for the Clean Zone Dry Cleaners site. The document has been revised in accordance with the comments previously provided by NYSDEC and NYSDOH. As such, the document is approved.

Please implement the required site activities in accordance with the SMP. A periodic review report will be required for submittal in approximately 16 months or around May of 2021.

Regards,

John B. Miller, P.E.

NYSDEC

Division of Environmental Remediation

625 Broadway, 11th floor

Albany, NY 12233-7014

Phone: (518) 402-9589

Fax: (518) 402-9679

From: Rachel Henke <rhenke@rouxinc.com>

Sent: Friday, December 20, 2019 5:20 PM

To: Miller, John Y (DEC) <john.miller@dec.ny.gov>

Cc: Eaton, Daniel J (DEC) <daniel.eaton@dec.ny.gov>; Perretta, Anthony C (HEALTH) <anthony.perretta@health.ny.gov>; Schuck, Maureen E (HEALTH) <maureen.schuck@health.ny.gov>; cmcguckin@rouxinc.com

Subject: RE: Former Clean Zone Dry Cleaners (360050): Annual GW Sampling Results

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi John,

Please see attached SMP for the Former Clean Zone Dry Cleaners Site in Yonkers, NY, which has been revised per your comments below.

If you have any questions or comments, don't hesitate to let me know.

Best,

Rachel

Rachel Henke | Project Scientist

209 Shafter Street, Islandia, NY 11749

Main: (631) 232-2600 | Mobile: (919) 619-1503

Email: rhenke@rouxinc.com | Website: www.rouxinc.com

From: Miller, John Y (DEC) <john.miller@dec.ny.gov>

Sent: Wednesday, July 31, 2019 12:07 PM

To: Rachel Henke <rhenke@rouxinc.com>

Cc: Eaton, Daniel J (DEC) <daniel.eaton@dec.ny.gov>; Perretta, Anthony C (HEALTH) <anthony.perretta@health.ny.gov>; Schuck, Maureen E (HEALTH) <maureen.schuck@health.ny.gov>

Subject: RE: Former Clean Zone Dry Cleaners (360050): Annual GW Sampling Results

This message originated outside your organization. Please use caution!

Hi Rachel,

I am following up on the Clean Zone Dry Cleaners Site. The NYSDEC and NYSDOH have reviewed the July 2018 draft Site Management Plan (SMP) for the site. The following minor comments are provided on the document.

1. The NYSDOH contact on page 15 of the document should be changed from Krista Anders to Mr. Anthony Perretta. His phone number is 518-402-7860 and email is

anthony.perretta@health.ny.gov

2. The recorded environmental easement (EE) must be included as an attachment to the SMP. Please provide the DEC with proof of recording of the EE with Westchester County.

Please submit to the NYSDEC a clean version of the SMP for final approval. I may be contacted with any questions or comments.

Regards,

John B. Miller, P.E.

NYSDEC

Division of Environmental Remediation

625 Broadway, 11th floor

Albany, NY 12233-7014

Phone: (518) 402-9589

Fax: (518) 402-9679

From: Rachel Henke <rhenke@rouxinc.com>

Sent: Tuesday, March 19, 2019 5:38 PM

To: Miller, John Y (DEC) <john.miller@dec.ny.gov>

Subject: RE: Former Clean Zone Dry Cleaners (360050): Annual GW Sampling Results

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

John,

I called and left a message yesterday, but I am looking for a status update on the Department's approval of the environmental easement package and the SMP for the Former Clean Zone Dry Cleaners site.

Thank you in advance for your assistance,

Rachel

Rachel Henke | Project Scientist

209 Shafter Street, Islandia, NY 11749

Main: (631) 232-2600 | Mobile: (919) 619-1503

Email: rhenke@rouxinc.com | Website: <https://protect2.fireeye.com/url?k=e38b4164-bfb3e7d9-e389b851-000babd9fa3f-eeade8e81e5fb72d&u=http://www.rouxinc.com/>

From: Miller, John Y (DEC) <john.miller@dec.ny.gov>

Sent: Thursday, November 15, 2018 1:49 PM

To: Rachel Henke <rhenke@rouxinc.com>

Cc: Tamuno, Alali (DEC) <alali.tamuno@dec.ny.gov>; andrew.perel@troutmansanders.com; Salgado, Anthony <ASalgado@UEdge.com>; Charlie McGuckin <cmcguckin@rouxinc.com>

Subject: RE: Former Clean Zone Dry Cleaners (360050): Annual GW Sampling Results

Hi Rachel,

I have reviewed the groundwater data, including the emerging contaminant results, for the Clean Zone Dry Cleaners Site. As stated, the results are consistent with past groundwater sampling events. In addition, it does not appear that any further action will be required for emerging contaminants at this site. Please proceed with obtaining the "contained-in" determination to dispose of the purge water drum.

Do you know whether the environmental easement package has been submitted yet for the site? It was supposed to be submitted in October but I don't recall seeing anything. Once the easement is completed we can finalize the Site Management Plan for this site.

Regards,

John B. Miller, P.E.

NYSDEC

Division of Environmental Remediation

625 Broadway, 11th floor

Albany, NY 12233-7014

Phone: (518) 402-9589

Fax: (518) 402-9679

From: Rachel Henke [<mailto:rhenke@rouxinc.com>]

Sent: Monday, November 12, 2018 6:46 PM

To: Miller, John Y (DEC) <john.miller@dec.ny.gov>

Cc: Tamuno, Alali (DEC) <alali.tamuno@dec.ny.gov>; andrew.perel@troutmansanders.com; Salgado, Anthony <ASalgado@UEdge.com>; cmcguckin@rouxinc.com

Subject: Former Clean Zone Dry Cleaners (360050): Annual GW Sampling Results

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Mr. Miller,

We are providing you with the Site Monitoring Plan (SMP) groundwater monitoring data that was collected at the Former Clean Zone Dry Cleaners Site (NYSDEC Site No. 360050 – "Site") on September 20, 2018. These samples were collected as part of the annual groundwater sampling outlined in the draft SMP dated July 2018 for the Site. The groundwater samples have been analyzed for the following volatile organic compounds:

- Tetrachloroethene
- Vinyl chloride
- 1,1-Dichloroethene
- trans-1,2-Dichloroethene
- Trichloroethene
- cis-1,2-Dichloroethene

The laboratory results from this sampling round are consistent with previous sampling results.

One 55-gallon drum of purge water was generated during the sampling of the five on-Site wells. As discussed in the SMP, a portion of the Site once operated as a dry-cleaning facility. With your permission, UE Yonkers II LLC will be requesting a "contained-in" determination from Mr. Henry

Wilke to dispose of non-characteristically hazardous wastewater (purged groundwater) from the Site that may contain either Tetrachloroethene (PCE) or its known breakdown products (e.g., 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, etc.) as non-hazardous waste. Please let me know if this is acceptable.

Data tables summarizing the results of the groundwater samples are attached. A figure showing the various sampling locations is also attached. If you would like me to send a separate link (via Leap File) containing the laboratory data reports for all of the data included herein, please let me know as those files are too large to include in this email. These results will be formally submitted to the NYSDEC as part of the initial Periodic Review Report for the Site.

Please feel free to contact me any time if you have questions or require any additional information.

Regards,

Rachel

Rachel Henke | Project Scientist

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APPENDIX B

IC/EC 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. **360050**

Site Name **Clean Zone Dry Cleaners**

Site Address: 2500 Central Park Avenue Zip Code: 10710
 City/Town: Yonkers
 County: Westchester
 Site Acreage: 27.000

Reporting Period: May 07, 2021 to May 07, 2022

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? ☒ ☐

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.

DocuSigned by:

Danielle De Vita

6/3/2022

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. 360050**Box 3****Description of Institutional Controls**ParcelOwnerInstitutional Control**4-4877-200**

UE Yonkers II LLC

Ground Water Use Restriction

Soil Management Plan

Landuse Restriction

Monitoring Plan

Site Management Plan

O&M Plan

IC/EC Plan

Institutional controls required by the environmental easement include groundwater use restrictions, land use restrictions (commercial/industrial) and the requirement that the site adheres to the approved SMP. Future buildings erected at the site must evaluate the potential for soil vapor intrusion.

Box 4**Description of Engineering Controls**ParcelEngineering Control**4-4877-200**

Vapor Mitigation

Cover System

Monitoring Wells

The engineering controls required by the environmental easement include maintenance and annual inspection of the site's cover system. The SSDS will be operated, maintained and inspected. Existing groundwater monitoring wells will be maintained and sampled in accordance with the SMP.

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 complete.

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.

DocuSigned by:

Danielle De Vita

6/3/2022

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 360050**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 Danielle De Vita at 2500 Central Park Avenue, Yonkers NY 10710,
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

DocuSigned by:

Danielle De Vita6/3/2022

Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

Date

IC/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 Charles McGuckin at 209 Shafter Street, Islandia, NY 11749,
print name print business address

am certifying as a Professional Engineer for the Remedial Party
(Owner or Remedial Party)

for the Site named in the Site Details Section of this form.



Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification



Stamp
(Required for PE)

June 1, 2022

Date

APPENDIX C

Site Inspection Checklist and Photo Log

Site Inspection Checklist, Former Clean Zone Dry Cleaners, 2500 Central Park Avenue, Yorkers, NY

Date:

03-16-2022

Completed By:

ALFREDO FERNANDEZ

Description	Status			Actions Taken / Comments
	Ok	Action Req.	N/A	
Site Cover System				
1 Inspect site cover system for cracks and leaks.	✓			NO CRACKS OR LEAKS OBSERVED
Sub-Slab Depressurization System Blower				
A. Aboveground Piping on Roof				
1 Inspect aboveground piping for cracks, leaks and support issues.	✓			
2 Inspect vacuum/pressure gauges and flowmeters for proper operation.	✓			
B. Electrical				
1 Check that the electrical control panel is closed/secured.	✓			CONTROL PANEL SECURED
2 Confirm that the alarm light is functioning properly.	✓			
C. Blower Enclosure				
1 Inspect condition of exhaust fan, thermostat and louver.			✓	NO THERMOSTAT INSTALLED
D. Moisture Knock-out Tank				
1 Check condition of vacuum filter.			✓	
2 Check dilution valve for noises or leaks.			✓	
3 Check for presence of water in knockout tank.			✓	
Institutional Controls				
1 Confirm that the site usage is in compliance with the institutional controls.	✓			NO PUBLIC ACCESS TO SSDS SYSTEM
Site Records				
1 Inspect site records and confirm that they are up to date (e.g., Site Inspection Checklists and Sub-Slab Depressurization System and SVE Wells Operations Logs, sampling logs, etc.)	✓			



Photograph 1: View of blower behind Singas Pizza.



Photograph 2: View of monitoring wells behind Singas Pizza.



Photograph 3: View of extraction point in Singas Pizza mop room.



Photograph 4: View of in-line fan on the side of HomeSense.

APPENDIX D

Laboratory Analytical Results



www.alphalab.com



Alpha Analytical

Laboratory Code: 11148

SDG Number: L2150011

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2150011
Report Date: 09/21/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2150011-01	MW-D	WATER	YONKERS, NY	09/16/21 09:30	09/16/21
L2150011-02	TRC-MW-F	WATER	YONKERS, NY	09/16/21 10:30	09/16/21
L2150011-03	DUP-GW-091621	WATER	YONKERS, NY	09/16/21 10:35	09/16/21
L2150011-04	MW-E	WATER	YONKERS, NY	09/16/21 11:00	09/16/21
L2150011-05	FIELD BLANK-GW-091621	FIELD BLANK	YONKERS, NY	09/16/21 10:45	09/16/21
L2150011-06	TRIP BLANK	TRIP BLANK (AQUEOUS)	YONKERS, NY	09/16/21 00:00	09/16/21
L2150011-07	MW-1	WATER	YONKERS, NY	09/16/21 11:30	09/16/21
L2150011-08	MW-C-SVE	WATER	YONKERS, NY	09/16/21 12:00	09/16/21

Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2150011
Report Date: 09/21/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2150011
Report Date: 09/21/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: *Siffani Morrissey*

Report Date: 09/21/21

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2150011
Report Date: 09/21/21

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.

Report Format: DU Report with 'J' Qualifiers



Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2150011
Report Date: 09/21/21

Data Qualifiers

- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers





Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)
 Purge time: 11 min

Columns (length x ID x df):
 RTX-VMS 20m x 0.18mm x 1um
 RTX-VMS 30m x 0.25mm x 1.4um
 RTX-502.2 40m x 0.18mm x 1um

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)

Column Type: Restek RTX 502.2
 Column Length: 105 Meters
 df: 3.00 um
 ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: Tekmar Velocity / EST Encon
 Autosampler: Varian Archon / EST Centurion
 Purge time: 11 min

Column Type: DB-VRX
 Column Length: 60 Meters
 df: 1.40 um
 ID: 0.25 mm
 Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

Column Type: Haysep S Column
 Column Length: 2 Meters packed
 (100/200 mesh)

Autosampler: LEAP Headspace

Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200
 Autosampler: Entech 7016CA or 7016D

Column Type: Restek RTX-1
 Column Length: 60 Meters
 df: 1.00 um
 ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.32 μ m
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.25 μ m
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1 μ L
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLP Pesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1 μ L
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Alpha Job Number : L2150011

Received : 16-SEP-2021

Reviewer : Julie DeCenzo

Account Name : Roux Env. Eng. & Geology, DPC

Project Number : 2546.0007Y002

Project Name : FORMER CLEAN ZONE DRY CLEANERS

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.6	

Condition Information

- | | |
|--|-----|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between sample labels & COC? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | NA |

Volatile Organics/VPH

- | | |
|--|----|
| 1) Reagent Water Vials Frozen by Client? | NO |
|--|----|

ALPHA ANALYTICAL LABORATORIES, INC.
 LOGIN CHAIN OF CUSTODY REPORT
 Sep 21 2021, 05:31 pm

Login Number: L2150011

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2546.0007Y002

Received: 16SEP21 Due Date: 22SEP21

Sample #	Client ID	Mat PR Collected
L2150011-01	MW-D	1 S0 16SEP21 09:30
metals-need PPB products L2150011-01 MS L2150011-01 MSD Report list built for 8260 (PCE, TCE, Cis-1, 2DCE, VC, 1,1 DCE) ASP-B Package Due Date: 09/22/21		
ASP-B, MS/MSD, NYTCL-8260		
L2150011-02	TRC-MW-F	1 S0 16SEP21 10:30
metals-need PPB products Report list built for 8260 (PCE, TCE, Cis-1, 2DCE, VC, 1,1 DCE) Package Due Date: 09/22/21		
NYTCL-8260		
L2150011-03	DUP-GW-091621	1 S0 16SEP21 10:35
metals-need PPB products Report list built for 8260 (PCE, TCE, Cis-1, 2DCE, VC, 1,1 DCE) Package Due Date: 09/22/21		
NYTCL-8260		
L2150011-04	MW-E	1 S0 16SEP21 11:00
metals-need PPB products Report list built for 8260 (PCE, TCE, Cis-1, 2DCE, VC, 1,1 DCE) Package Due Date: 09/22/21		
NYTCL-8260		
L2150011-05	FIELD BLANK-GW-091621	1 S0 16SEP21 10:45
metals-need PPB products Report list built for 8260 (PCE, TCE, Cis-1, 2DCE, VC, 1,1 DCE) Package Due Date: 09/22/21		
NYTCL-8260		
L2150011-06	TRIP BLANK	1 S0 16SEP21 00:00
metals-need PPB products Report list built for 8260 (PCE, TCE, Cis-1, 2DCE, VC, 1,1 DCE) Package Due Date: 09/22/21		

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Sep 21 2021, 05:31 pm

Login Number: L2150011

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2546.0007Y002

Received: 16SEP21 Due Date: 22SEP21

Sample # Client ID Mat PR Collected

NYTCL-8260

L2150011-07 MW-1

1 S0 16SEP21 11:30

metals-need PPB products Report list built for 8260 (PCE, TCE, Cis-1,2DCE, VC, 1,1 DCE) Package Due
Date: 09/22/21

NYTCL-8260

L2150011-08 MW-C-SVE

1 S0 16SEP21 12:00

metals-need PPB products Report list built for 8260 (PCE, TCE, Cis-1,2DCE, VC, 1,1 DCE) Package Due
Date: 09/22/21

NYTCL-8260

Organics

GC/MS 8260

Analysis

Volatiles QC Summary

Surrogate Recovery Summary

Form 2

Volatiles

Client: Roux Env. Eng. & Geology, DPC
 Project Name: FORMER CLEAN ZONE DRY CLEANERS

Lab Number: L2150011
 Project Number: 2546.0007Y002
 Matrix: Trip Blank (Aqueous)/Water/Field Blank

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-D (L2150011-01)	89	100	100	93	0
TRC-MW-F (L2150011-02)	89	100	100	94	0
DUP-GW-091621 (L2150011-03)	90	100	102	95	0
MW-E (L2150011-04)	87	99	98	94	0
FIELD BLANK-GW-091621 (L2150011-05)	92	100	97	92	0
TRIP BLANK (L2150011-06)	90	100	103	96	0
MW-1 (L2150011-07)	89	98	100	94	0
MW-C-SVE (L2150011-08)	90	101	99	91	0
WG1548873-3LCS	88	101	99	92	0
WG1548873-4LCSD	91	100	102	94	0
WG1548873-5BLANK	88	100	102	93	0
MW-DMS	93	100	97	94	0
MW-DMSD	95	99	97	95	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
 (70-130) TOL = TOLUENE-D8
 (70-130) BFB = 4-BROMOFLUOROBENZENE
 (70-130) DBFM = DIBROMOFLUOROMETHANE

* Values outside of QC limits

FORM II NYTCL-8260



Laboratory Control Sample Summary

Form 3

Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2150011
 Project Name : FORMER CLEAN ZONE DRY CLEANERS Project Number : 2546.0007Y002
 Matrix : WATER
 LCS Sample ID : WG1548873-3 Analysis Date : 09/20/21 07:41 File ID : VE210920A02
 LCSD Sample ID : WG1548873-4 Analysis Date : 09/20/21 08:01 File ID : VE210920A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Tetrachloroethene	10	9.2	92	10	8.3	83	10	70-130	20
Vinyl chloride	10	10	100	10	9.6	96	4	55-140	20
1,1-Dichloroethene	10	9.5	95	10	8.1	81	16	61-145	20
Trichloroethene	10	9.3	93	10	8.7	87	7	70-130	20
cis-1,2-Dichloroethene	10	9.3	93	10	9.1	91	2	70-130	20

Matrix Spike Sample Summary

Form 3

Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Client Sample ID	: MW-D	Matrix	: WATER
Lab Sample ID	: L2150011-01	Analysis Date	: 09/20/21 09:00
Matrix Spike	: WG1548873-6	MS Analysis Date	: 09/20/21 15:26
Matrix Spike Dup	: WG1548873-7	MSD Analysis Date	: 09/20/21 15:47

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Tetrachloroethene	ND	10	8.5	85	10	11	110	26 Q	70-130	20
Vinyl chloride	ND	10	10	100	10	13	130	26 Q	55-140	20
1,1-Dichloroethene	ND	10	8.7	87	10	12	120	32 Q	61-145	20
Trichloroethene	ND	10	8.8	88	10	11	110	22 Q	70-130	20
cis-1,2-Dichloroethene	ND	10	8.6	86	10	11	110	24 Q	70-130	20



Method Blank Summary

Form 4

Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2150011
 Project Name : FORMER CLEAN ZONE DRY CLEANERS Project Number : 2546.0007Y002
 Lab Sample ID : WG1548873-5 Lab File ID : VE210920A05
 Instrument ID : ELAINE
 Matrix : WATER Analysis Date : 09/20/21 08:40

Client Sample No.	Lab Sample ID	Analysis Date
WG1548873-3LCS	WG1548873-3	09/20/21 07:41
WG1548873-4LCSD	WG1548873-4	09/20/21 08:01
MW-D	L2150011-01	09/20/21 09:00
TRC-MW-F	L2150011-02	09/20/21 09:20
DUP-GW-091621	L2150011-03	09/20/21 09:40
MW-E	L2150011-04	09/20/21 10:00
FIELD BLANK-GW-091621	L2150011-05	09/20/21 10:20
TRIP BLANK	L2150011-06	09/20/21 10:40
MW-1	L2150011-07	09/20/21 11:00
MW-C-SVE	L2150011-08	09/20/21 11:20
MW-DMS	WG1548873-6	09/20/21 15:26
MW-DMSD	WG1548873-7	09/20/21 15:47

Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: ELAINE	Analysis Date	: 09/09/21 10:54
Tune Standard	: WG1545678-1	Tune File ID	: VE210909ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	23
75	30.0 - 60.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0 of mass 95	60.9
175	5.0 - 9.0% of mass 174	4.4 (7.2)1
176	95.0 - 101% of mass 174	59.2 (97.2)1
177	5.0 - 9.0% of mass 176	3.9 (6.5)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1477737-1	VE210909A04	09/09/21 12:16
STD0.5PPB	R1477737-3	VE210909A06	09/09/21 12:59
STD2PPB	R1477737-2	VE210909A08	09/09/21 13:43
STD10PPB	R1477737-4	VE210909A09	09/09/21 14:04
STD30PPB	R1477737-5	VE210909A10	09/09/21 14:26
STD80PPB	R1477737-6	VE210909A11	09/09/21 14:48
STD120PPB	R1477737-7	VE210909A12	09/09/21 15:10
STD200PPB	R1477737-9	VE210909A13	09/09/21 15:32
ICV Quant Report	R1477737-8	VE210909A18	09/09/21 17:20

Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: ELAINE	Analysis Date	: 09/20/21 07:03
Tune Standard	: WG1548873-1	Tune File ID	: VE210920ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	25
75	30.0 - 60.0% of mass 95	51.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0 of mass 95	63.1
175	5.0 - 9.0% of mass 174	4.6 (7.4)1
176	95.0 - 101% of mass 174	61.2 (97)1
177	5.0 - 9.0% of mass 176	4.2 (6.9)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1548873-2CCAL	WG1548873-2	VE210920A02	09/20/21 07:41
WG1548873-3LCS	WG1548873-3	VE210920A02	09/20/21 07:41
WG1548873-4LCSD	WG1548873-4	VE210920A03	09/20/21 08:01
WG1548873-5BLANK	WG1548873-5	VE210920A05	09/20/21 08:40
MW-D	L2150011-01	VE210920A06	09/20/21 09:00
TRC-MW-F	L2150011-02	VE210920A07	09/20/21 09:20
DUP-GW-091621	L2150011-03	VE210920A08	09/20/21 09:40
MW-E	L2150011-04	VE210920A09	09/20/21 10:00
FIELD BLANK-GW-091621	L2150011-05	VE210920A10	09/20/21 10:20
TRIP BLANK	L2150011-06	VE210920A11	09/20/21 10:40
MW-1	L2150011-07	VE210920A12	09/20/21 11:00
MW-C-SVE	L2150011-08	VE210920A13	09/20/21 11:20
WG1548873-6MS	WG1548873-6	VE210920A25	09/20/21 15:26
WG1548873-7MSD	WG1548873-7	VE210920A26	09/20/21 15:47

Internal Standard Area and RT Summary

Form 8a

Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: ELAINE	Analysis Date	: 09/20/21 07:41:00
Sample No	: WG1548873-2	Lab File ID	: VE210920A02

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1548873-2	260268	5.41	174153	8.44	84245	9.94
Upper Limit	520536	5.91	348306	8.94	168490	10.44
Lower Limit	130134	4.91	87077	7.94	42123	9.44
Sample ID						
WG1548873-3 LCS	260268	5.41	174153	8.44	84245	9.94
WG1548873-4 LCSD	264008	5.41	179124	8.44	84525	9.94
WG1548873-5 BLANK	244395	5.41	165554	8.44	77862	9.94
MW-D	240598	5.41	164238	8.44	78554	9.94
TRC-MW-F	241359	5.41	163796	8.44	76722	9.94
DUP-GW-091621	241823	5.41	165979	8.44	76161	9.94
MW-E	239450	5.40	164063	8.44	76770	9.94
FIELD BLANK-GW-091621	237539	5.41	165858	8.44	76988	9.94
TRIP BLANK	234550	5.40	162610	8.44	74274	9.94
MW-1	244891	5.40	166242	8.44	77669	9.94
MW-C-SVE	246827	5.40	163025	8.44	76789	9.94
MW-D MS	252542	5.41	170524	8.44	83763	9.94
MW-D MSD	253786	5.41	173452	8.44	84134	9.94

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

* Values outside of QC limits





Date Created: 06/19/18
Created By: Jason Hebert
File: PM5049-1
Page: 1

Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.210	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.240	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.200	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.430	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.220	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,3,5-Trichlorobenzene	108-70-3	2	0.141	ug/l	70-130	20	70-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
Methyl Acetate	79-20-9	10	0.234	ug/l	70-130	20	70-130	20	20			
Ethyl Acetate	141-78-6	10	0.716	ug/l	70-130	20	70-130	20	20			
Isopropyl Ether	108-20-3	2	0.425	ug/l	70-130	20	70-130	20	20			
Cyclohexane	110-82-7	10	0.271	ug/l	70-130	20	70-130	20	20			
Ethyl-Tert-Butyl-Ether	637-92-3	2	0.179	ug/l	70-130	20	70-130	20	20			

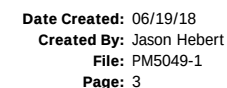
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Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/ Solids only)





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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.140	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.230	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.140	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.560	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	10	4.81	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	2	0.173	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.650	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
Iso-Propyl Alcohol	67-63-0	100	100	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	4	0.950	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	10	1.21	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	2	0.213	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	10	0.544	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days

Container/Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	250	115	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	50	7.25	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	75	7.00	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	50	11.5	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	50	6.25	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	50	7.00	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	50	13.4	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	25	9.80	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	25	6.35	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	200	34.8	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	50	12.9	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	25	8.35	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	25	5.45	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	50	13.7	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	25	7.90	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	25	7.95	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	200	12.3	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	25	8.30	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	25	8.30	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	50	27.2	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	50	7.05	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	200	46.6	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	100	29.1	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	50	16.8	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	100	22.6	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	50	11.9	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	75	6.85	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	25	6.85	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	100	7.20	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	100	7.40	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	100	8.55	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	100	10.1	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	100	28.0	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	50	14.6	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	50	8.75	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
Dibromomethane	74-95-3	100	11.9	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	500	11.3	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	100	6.35	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	50	9.80	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	500	45.8	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	500	241	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	500	228	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	500	111	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	500	108	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	500	64.0	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	500	59.0	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	500	79.0	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	200	57.5	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	100	10.3	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	200	79.5	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	100	10.1	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	50	14.0	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	100	8.35	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	25	6.60	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	100	7.25	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	50	8.35	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	50	7.30	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	100	5.90	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	100	8.65	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	100	9.55	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	100	5.40	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	150	49.9	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	200	8.45	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	50	5.45	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	50	5.45	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	200	32.5	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	50	8.55	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	100	16.1	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	100	13.6	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	100	9.65	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	100	16.7	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	250	71.0	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	5000	5000	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	100	17.1	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	200	47.5	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	500	60.5	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	100	10.7	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	500	27.2	ug/kg	70-130	30	70-130	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Date Created: 06/19/18
Created By: Jason Hebert
File: PM5048-1
Page: 3

Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days

Container/Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

[illegible]

Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab ID	: L2150011-01	Date Collected	: 09/16/21 09:30
Client ID	: MW-D	Date Received	: 09/16/21
Sample Location	: YONKERS, NY	Date Analyzed	: 09/20/21 09:00
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: VE210920A06	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U

Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab ID	: L2150011-02	Date Collected	: 09/16/21 10:30
Client ID	: TRC-MW-F	Date Received	: 09/16/21
Sample Location	: YONKERS, NY	Date Analyzed	: 09/20/21 09:20
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: VE210920A07	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U

Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab ID	: L2150011-03	Date Collected	: 09/16/21 10:35
Client ID	: DUP-GW-091621	Date Received	: 09/16/21
Sample Location	: YONKERS, NY	Date Analyzed	: 09/20/21 09:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: VE210920A08	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U

Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab ID	: L2150011-04	Date Collected	: 09/16/21 11:00
Client ID	: MW-E	Date Received	: 09/16/21
Sample Location	: YONKERS, NY	Date Analyzed	: 09/20/21 10:00
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: VE210920A09	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U

Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab ID	: L2150011-05	Date Collected	: 09/16/21 10:45
Client ID	: FIELD BLANK-GW-091621	Date Received	: 09/16/21
Sample Location	: YONKERS, NY	Date Analyzed	: 09/20/21 10:20
Sample Matrix	: Field Blank	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: VE210920A10	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U

Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab ID	: L2150011-06	Date Collected	: 09/16/21 00:00
Client ID	: TRIP BLANK	Date Received	: 09/16/21
Sample Location	: YONKERS, NY	Date Analyzed	: 09/20/21 10:40
Sample Matrix	: Trip Blank (aqueous)	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: VE210920A11	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U

Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab ID	: L2150011-07	Date Collected	: 09/16/21 11:30
Client ID	: MW-1	Date Received	: 09/16/21
Sample Location	: YONKERS, NY	Date Analyzed	: 09/20/21 11:00
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: VE210920A12	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
127-18-4	Tetrachloroethene	41	0.50	0.18	
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
79-01-6	Trichloroethene	6.2	0.50	0.18	
156-59-2	cis-1,2-Dichloroethene	4.7	2.5	0.70	

Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab ID	: L2150011-08	Date Collected	: 09/16/21 12:00
Client ID	: MW-C-SVE	Date Received	: 09/16/21
Sample Location	: YONKERS, NY	Date Analyzed	: 09/20/21 11:20
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: VE210920A13	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
127-18-4	Tetrachloroethene	62	0.50	0.18	
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
79-01-6	Trichloroethene	6.8	0.50	0.18	
156-59-2	cis-1,2-Dichloroethene	5.0	2.5	0.70	

Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab ID	: WG1548873-5	Date Collected	: NA
Client ID	: WG1548873-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 09/20/21 08:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: NLK
Lab File ID	: VE210920A05	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A06.D
 Acq On : 20 Sep 2021 9:00 am
 Operator : ELAINE:MKS
 Sample : L2150011-01,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:26:07 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.406	96	240598	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery =	92.44%		
59) Chlorobenzene-d5	8.439	117	164238	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery =	94.31%		
79) 1,4-Dichlorobenzene-d4	9.936	152	78554	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery =	93.24%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.407	113	51131	9.329	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.29%		
43) 1,2-Dichloroethane-d4	5.058	65	71350	8.859	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	88.59%		
60) Toluene-d8	7.120	98	226828	10.044	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.44%		
83) 4-Bromofluorobenzene	9.265	95	92827	9.961	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.61%		
Target Compounds						
						Qvalue
4) Vinyl chloride	0.000		0		N.D.	
10) 1,1-Dichloroethene	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	

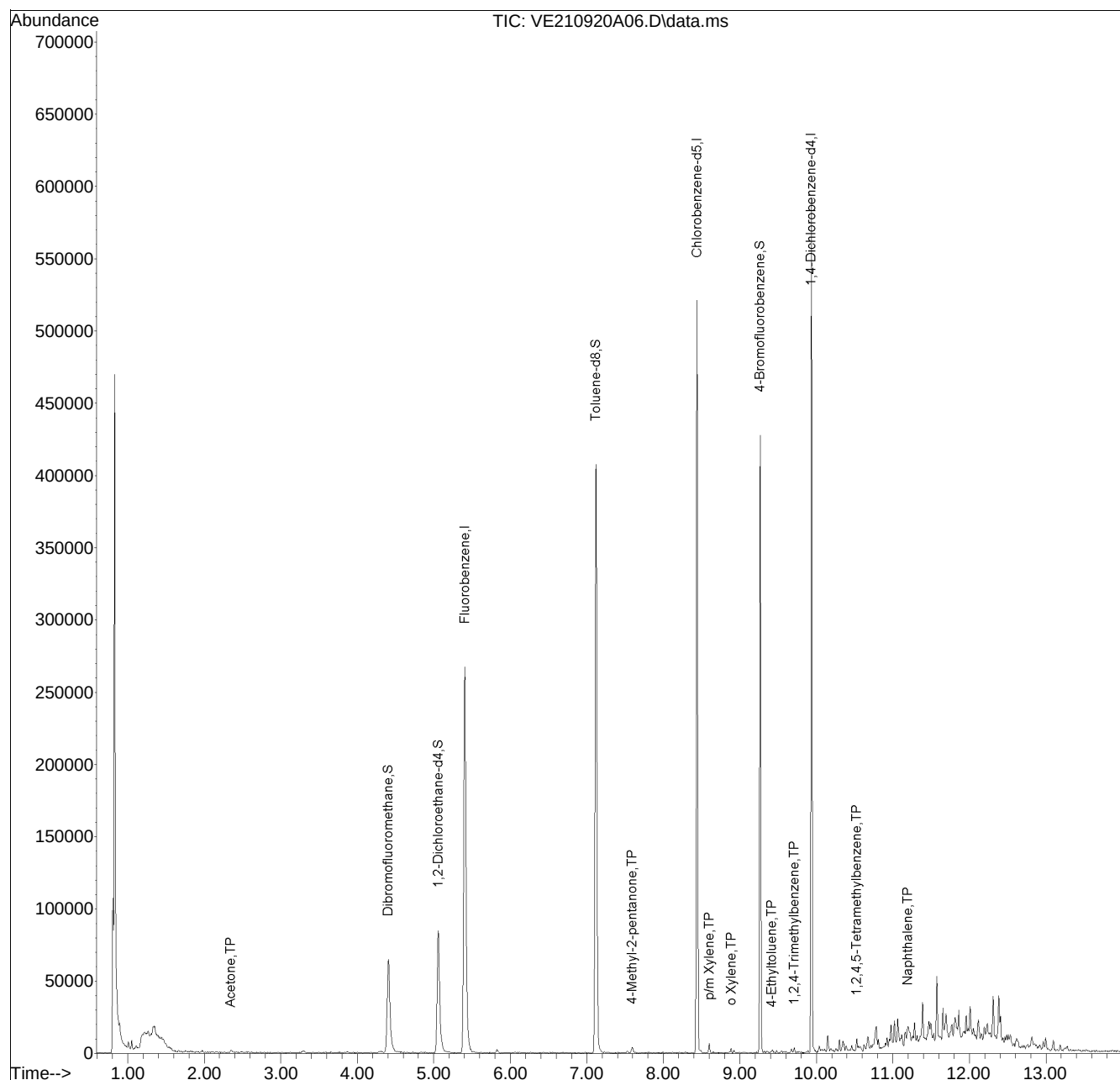
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A06.D
 Acq On : 20 Sep 2021 9:00 am
 Operator : ELAINE:MKS
 Sample : L2150011-01,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:26:07 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•



Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A06.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 9:00 am Instrument : Elaine
Sample : L2150011-01,31,10,10,,A,PRQuant Date : 9/21/2021 10:47 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A07.D
 Acq On : 20 Sep 2021 9:20 am
 Operator : ELAINE:MKS
 Sample : L2150011-02,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 10:47:59 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.406	96	241359	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery = 92.73%			
59) Chlorobenzene-d5	8.441	117	163796	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery = 94.05%			
79) 1,4-Dichlorobenzene-d4	9.935	152	76722	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery = 91.07%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.410	113	51615	9.388	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.88%			
43) 1,2-Dichloroethane-d4	5.058	65	71650	8.868	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.68%			
60) Toluene-d8	7.120	98	224678	9.975	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.75%			
83) 4-Bromofluorobenzene	9.265	95	90738	9.969	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.69%			
Target Compounds						
4) Vinyl chloride	0.000		0	N.D.		Qvalue
10) 1,1-Dichloroethene	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
48) Trichloroethene	5.512	95	52	N.D.		
63) Tetrachloroethene	7.526	166	28	N.D.		

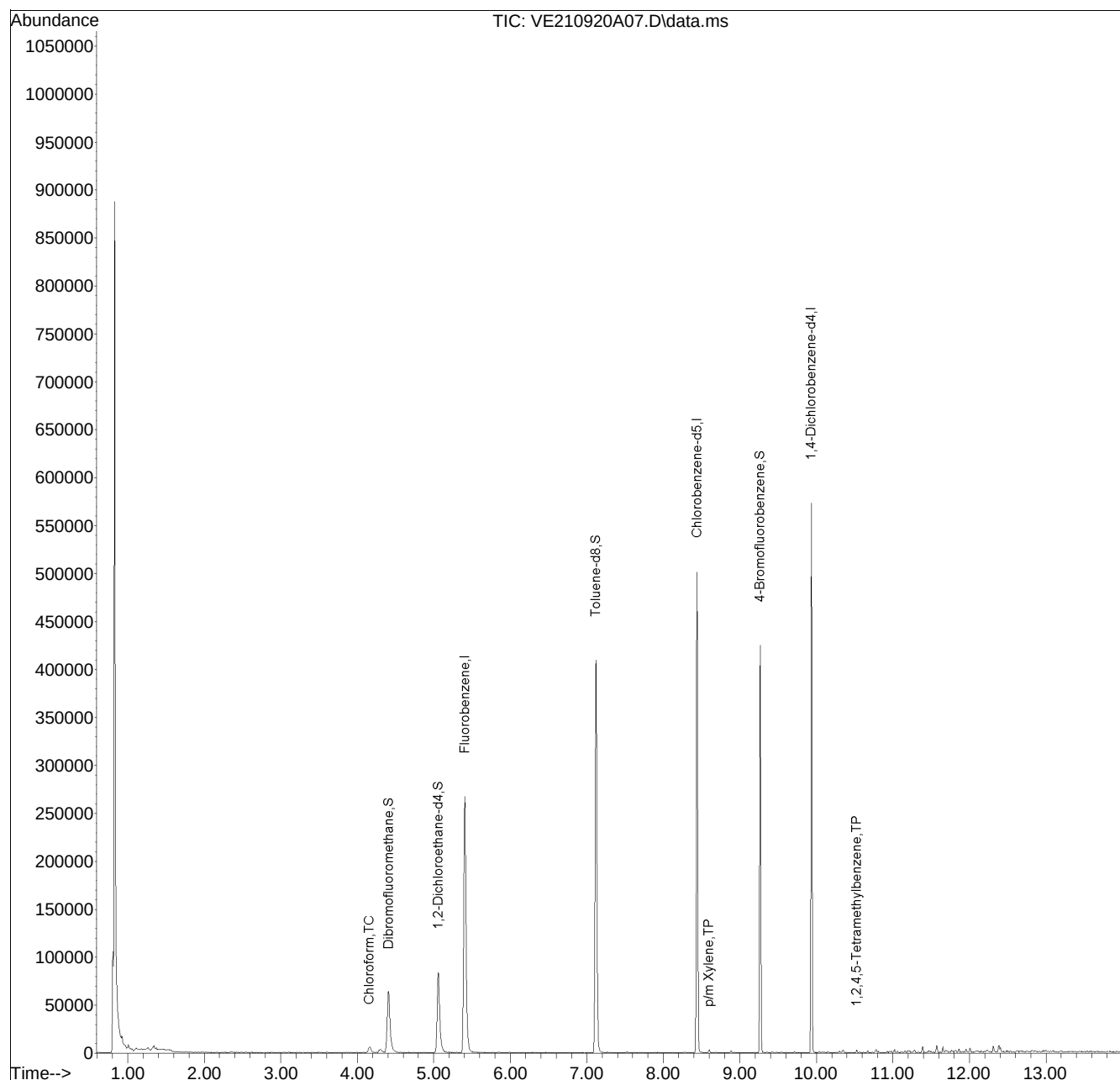
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A07.D
 Acq On : 20 Sep 2021 9:20 am
 Operator : ELAINE:MKS
 Sample : L2150011-02,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 10:47:59 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•



Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A07.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 9:20 am Instrument : Elaine
Sample : L2150011-02,31,10,10,,A,PRQuant Date : 9/21/2021 10:47 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A08.D
 Acq On : 20 Sep 2021 9:40 am
 Operator : ELAINE:MKS
 Sample : L2150011-03,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:26:53 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.406	96	241823	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery =	92.91%		
59) Chlorobenzene-d5	8.439	117	165979	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery =	95.31%		
79) 1,4-Dichlorobenzene-d4	9.935	152	76161	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery =	90.40%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.407	113	52544	9.538	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.38%		
43) 1,2-Dichloroethane-d4	5.058	65	72579	8.966	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	89.66%		
60) Toluene-d8	7.120	98	227905	9.986	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.86%		
83) 4-Bromofluorobenzene	9.265	95	92410	10.228	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.28%		
Target Compounds						
4) Vinyl chloride	0.000		0		N.D.	Qvalue
10) 1,1-Dichloroethene	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	3.778	96	91		N.D.	
48) Trichloroethene	5.676	95	57		N.D.	
63) Tetrachloroethene	7.526	166	125		N.D.	

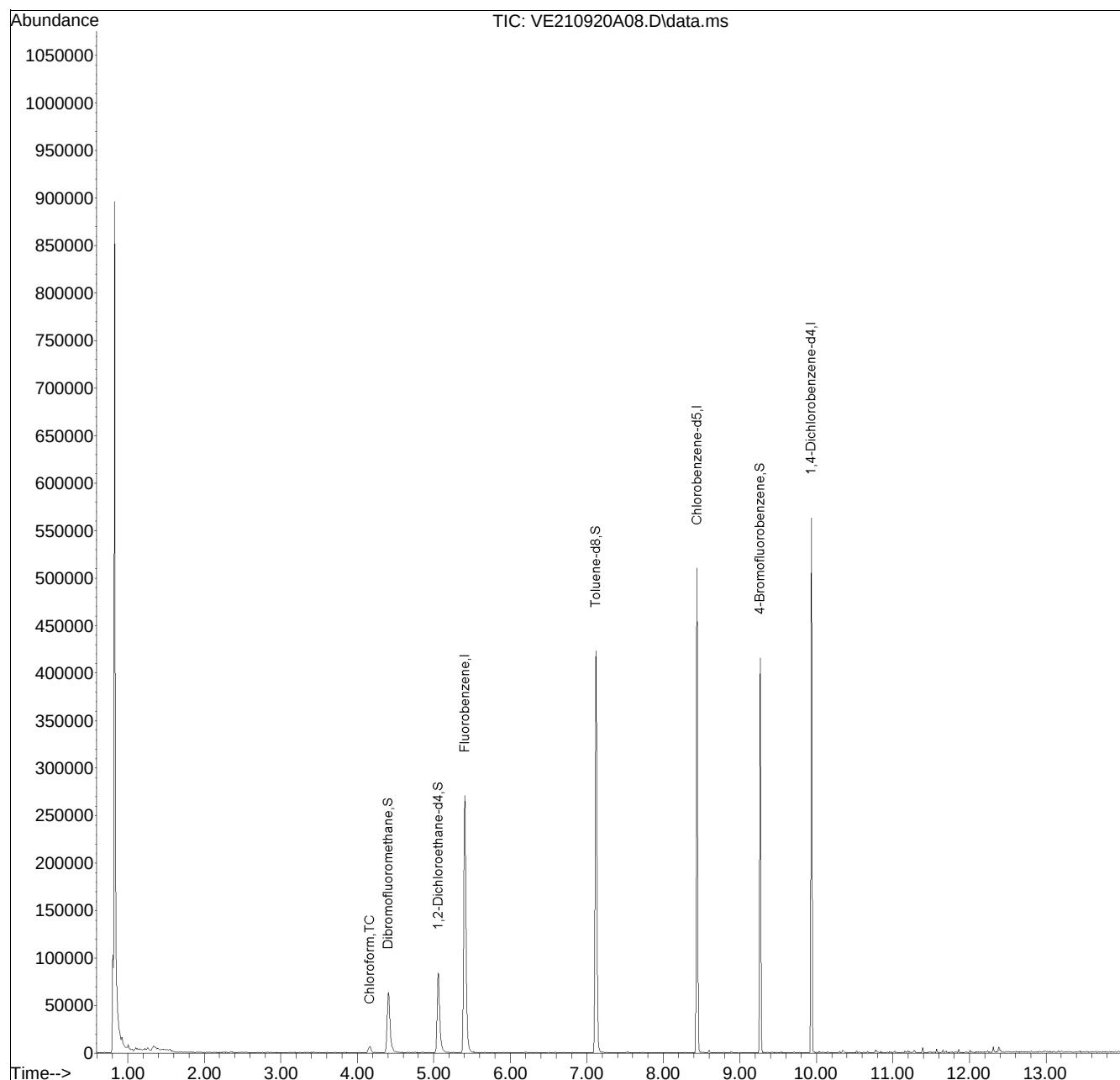
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A08.D
 Acq On : 20 Sep 2021 9:40 am
 Operator : ELAINE:MKS
 Sample : L2150011-03,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:26:53 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A09.D
 Acq On : 20 Sep 2021 10:00 am
 Operator : ELAINE:MKS
 Sample : L2150011-04,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:27:16 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.403	96	239450	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery =	92.00%		
59) Chlorobenzene-d5	8.439	117	164063	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery =	94.21%		
79) 1,4-Dichlorobenzene-d4	9.936	152	76770	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery =	91.13%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.410	113	51051	9.359	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.59%		
43) 1,2-Dichloroethane-d4	5.058	65	69952	8.727	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.27%		
60) Toluene-d8	7.120	98	222679	9.871	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.71%		
83) 4-Bromofluorobenzene	9.265	95	89682	9.847	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.47%		
Target Compounds						
4) Vinyl chloride	0.000		0		N.D.	Qvalue
10) 1,1-Dichloroethene	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	

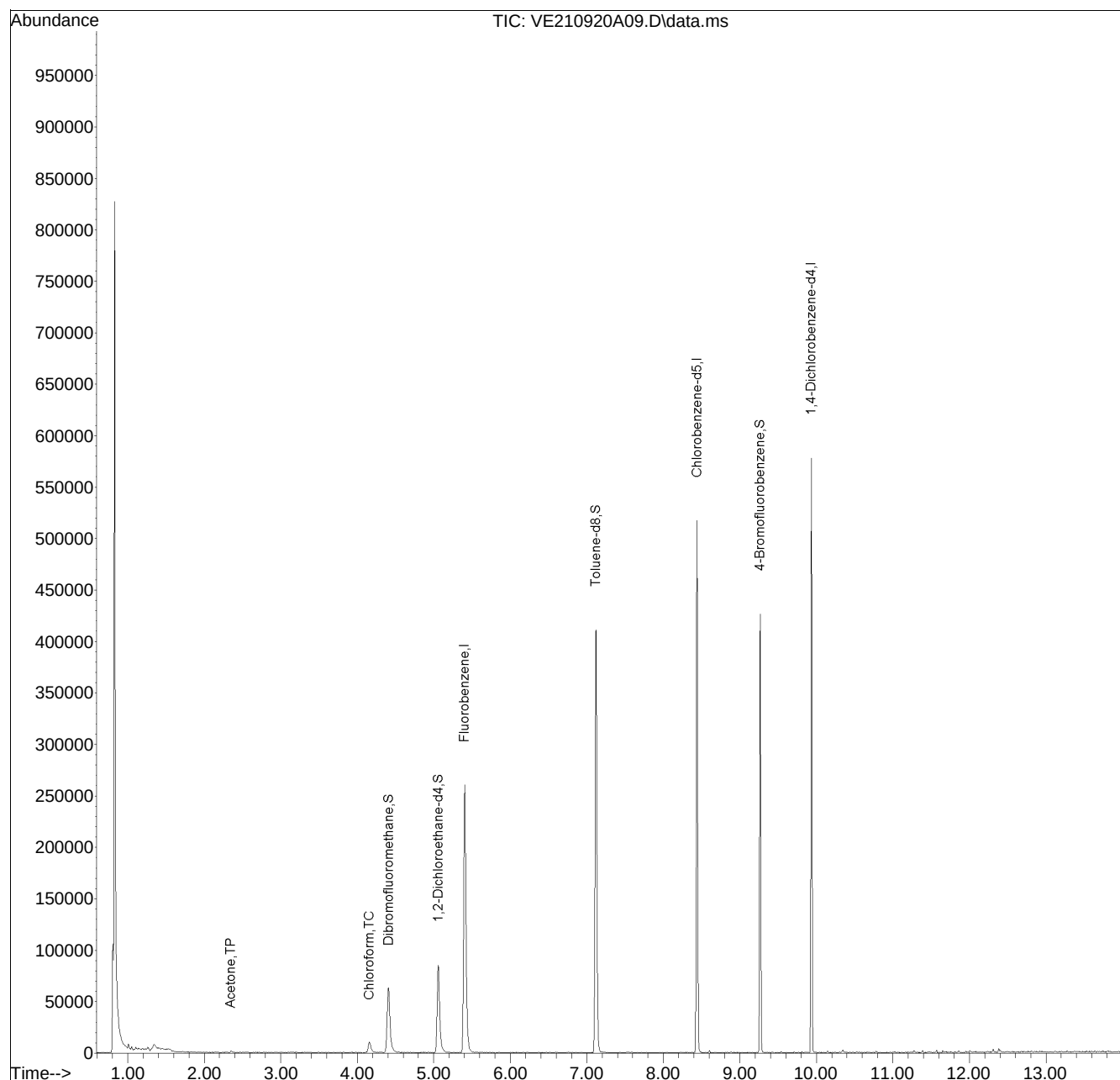
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A09.D
 Acq On : 20 Sep 2021 10:00 am
 Operator : ELAINE:MKS
 Sample : L2150011-04,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:27:16 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A10.D
 Acq On : 20 Sep 2021 10:20 am
 Operator : ELAINE:MKS
 Sample : L2150011-05,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 10:48:12 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.406	96	237539	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery =	91.27%		
59) Chlorobenzene-d5	8.439	117	165858	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery =	95.24%		
79) 1,4-Dichlorobenzene-d4	9.936	152	76988	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery =	91.39%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.410	113	49996	9.239	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.39%		
43) 1,2-Dichloroethane-d4	5.058	65	72924	9.171	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.71%		
60) Toluene-d8	7.120	98	228361	10.013	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.13%		
83) 4-Bromofluorobenzene	9.265	95	88792	9.722	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.22%		
Target Compounds						Qvalue
4) Vinyl chloride	0.000		0		N.D.	
10) 1,1-Dichloroethene	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	0.000		0		N.D.	
48) Trichloroethene	5.473	95	96		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	

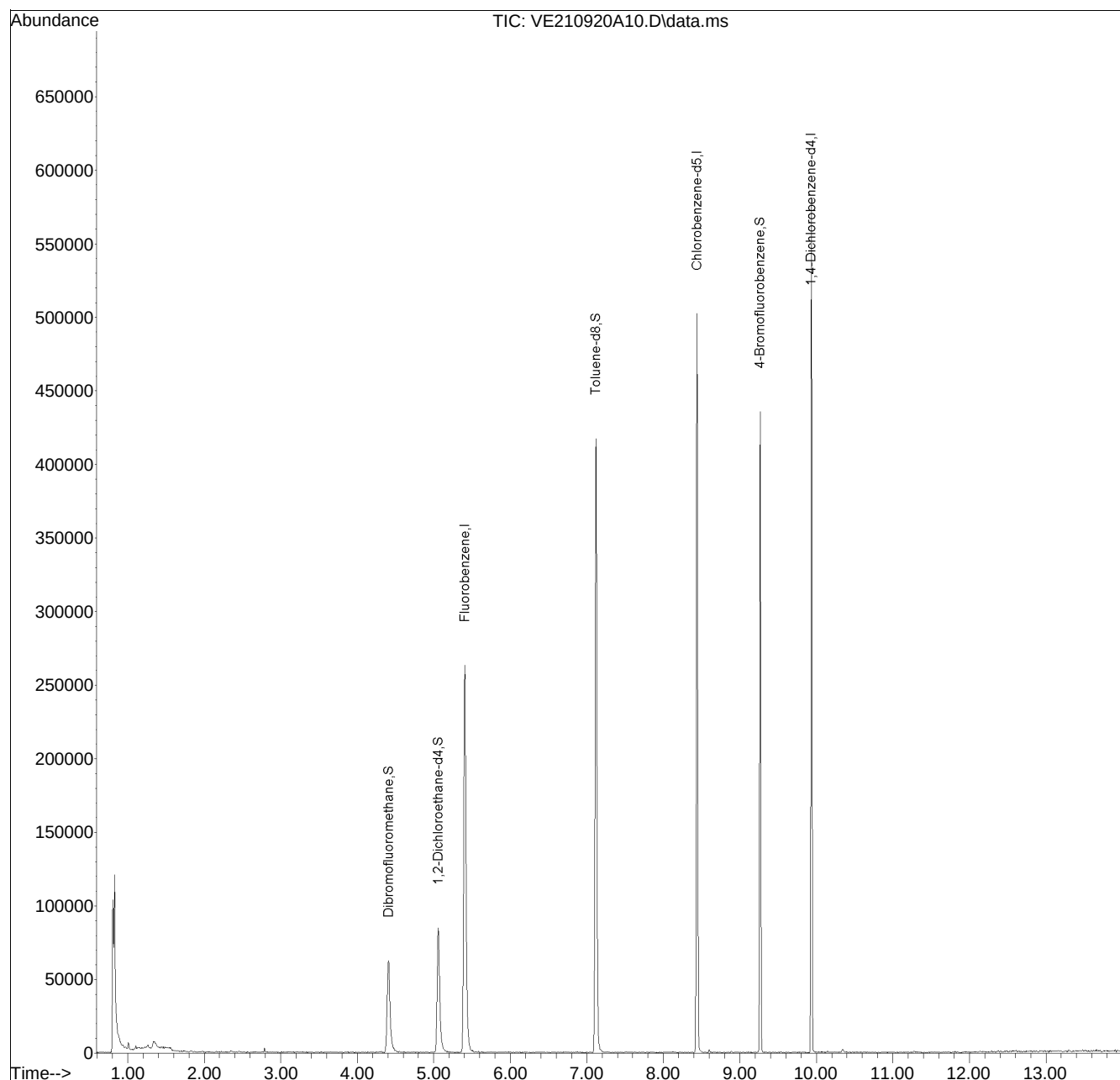
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A10.D
 Acq On : 20 Sep 2021 10:20 am
 Operator : ELAINE:MKS
 Sample : L2150011-05,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 10:48:12 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•



Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A10.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 10:20 am Instrument : Elaine
Sample : L2150011-05,31,10,10,,A,PRQuant Date : 9/21/2021 10:48 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A11.D
 Acq On : 20 Sep 2021 10:40 am
 Operator : ELAINE:MKS
 Sample : L2150011-06,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:27:50 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.403	96	234550	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery =	90.12%		
59) Chlorobenzene-d5	8.439	117	162610	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery =	93.37%		
79) 1,4-Dichlorobenzene-d4	9.936	152	74274	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery =	88.16%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.407	113	51530	9.644	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.44%		
43) 1,2-Dichloroethane-d4	5.058	65	70492	8.978	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	89.78%		
60) Toluene-d8	7.120	98	223431	9.992	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.92%		
83) 4-Bromofluorobenzene	9.265	95	90985	10.326	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.26%		
Target Compounds						Qvalue
4) Vinyl chloride	0.000		0		N.D.	
10) 1,1-Dichloroethene	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	3.559	96	52		N.D.	
48) Trichloroethene	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	

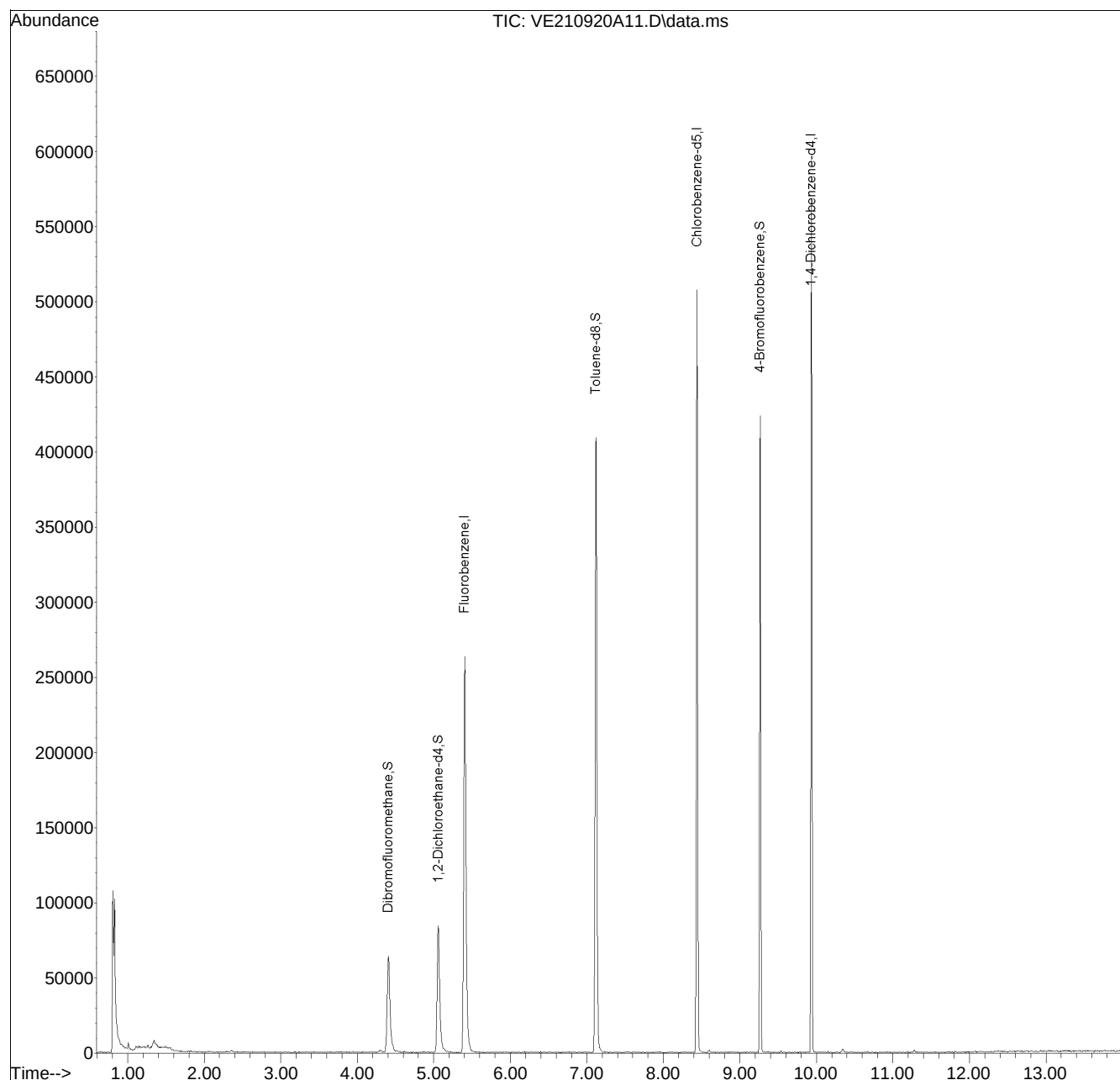
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A11.D
 Acq On : 20 Sep 2021 10:40 am
 Operator : ELAINE:MKS
 Sample : L2150011-06,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:27:50 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•



Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A11.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 10:40 am Instrument : Elaine
Sample : L2150011-06,31,10,10,,A,PRQuant Date : 9/21/2021 10:48 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A12.D
 Acq On : 20 Sep 2021 11:00 am
 Operator : ELAINE:MKS
 Sample : L2150011-07,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:28:08 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.403	96	244891	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery	=	94.09%	
59) Chlorobenzene-d5	8.439	117	166242	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery	=	95.46%	
79) 1,4-Dichlorobenzene-d4	9.936	152	77669	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery	=	92.19%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.407	113	52214	9.360	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	93.60%	
43) 1,2-Dichloroethane-d4	5.058	65	73350	8.948	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	89.48%	
60) Toluene-d8	7.120	98	223898	9.795	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.95%	
83) 4-Bromofluorobenzene	9.265	95	91856	9.969	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.69%	
Target Compounds						
						Qvalue
4) Vinyl chloride	0.000		0		N.D.	
10) 1,1-Dichloroethene	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	3.726	96	22723	4.696	ug/L	91
48) Trichloroethene	5.598	95	28351	6.157	ug/L	84
63) Tetrachloroethene	7.529	166	160102	40.691	ug/L	99

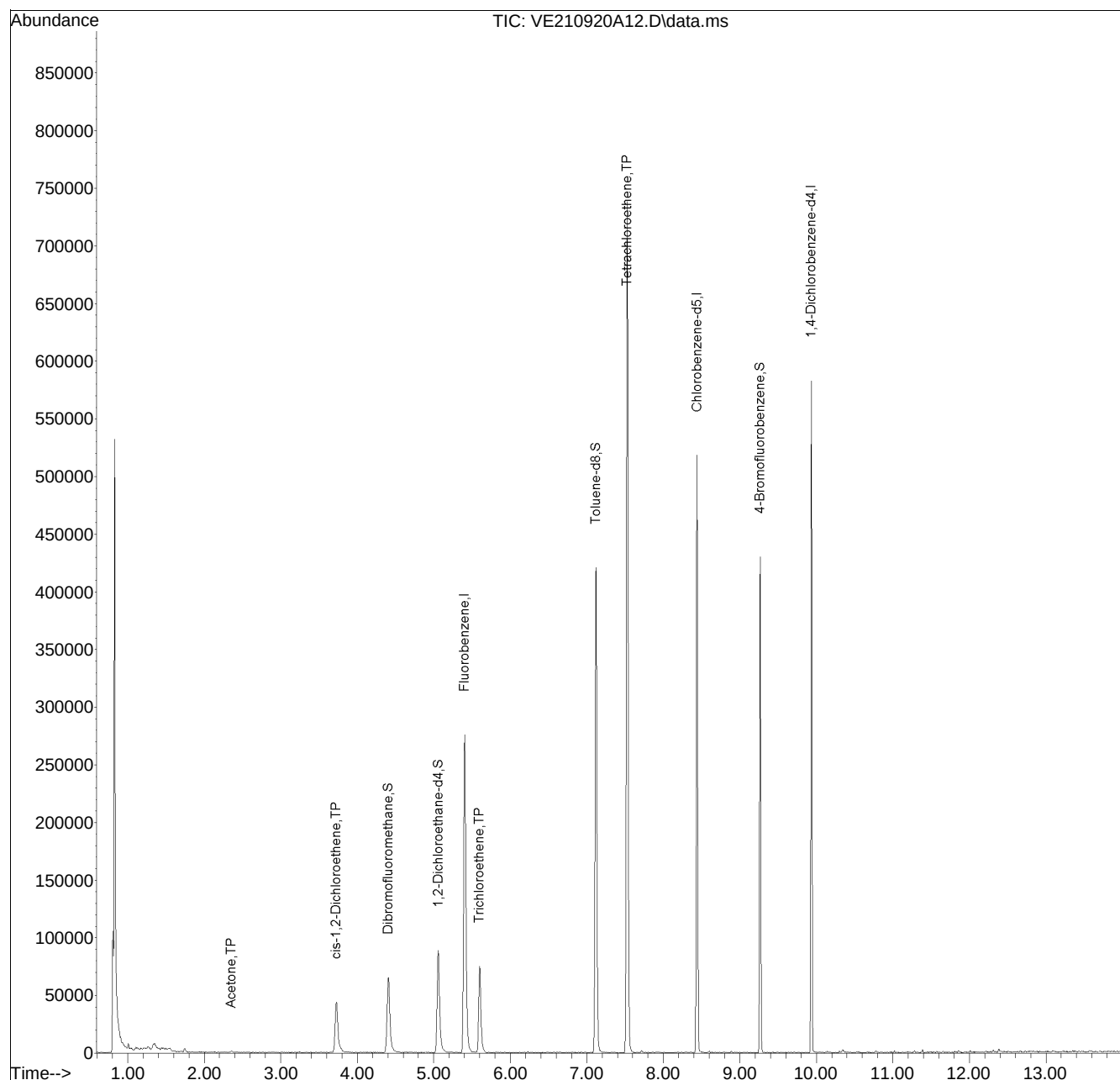
(#) = qualifier out of range (m) = manual integration (+) = signals summed

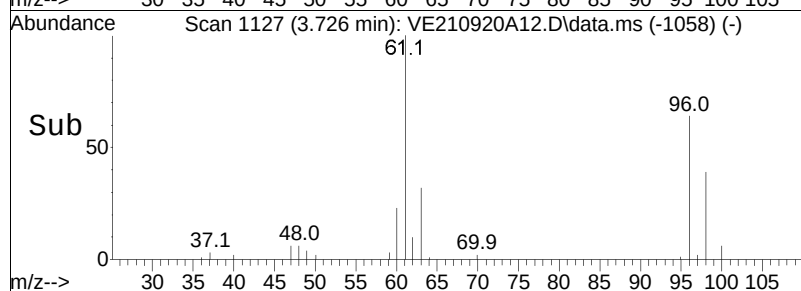
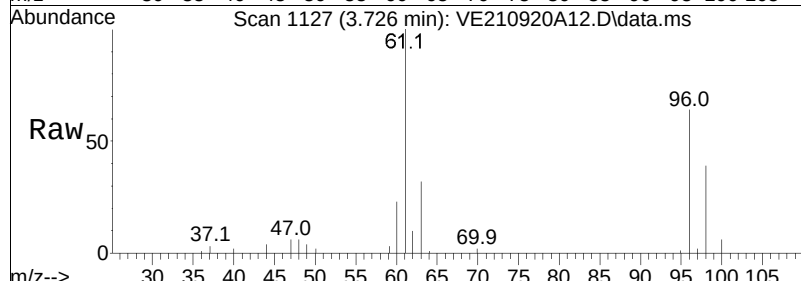
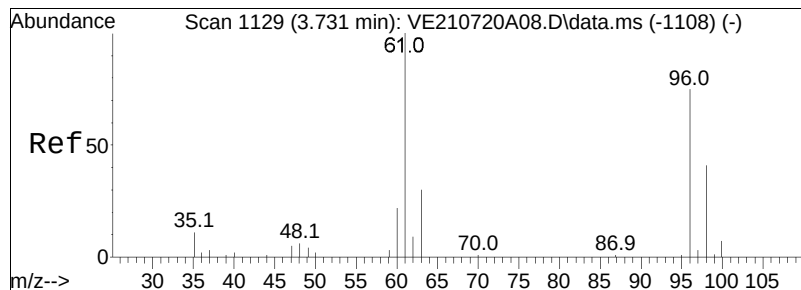
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A12.D
 Acq On : 20 Sep 2021 11:00 am
 Operator : ELAINE:MKS
 Sample : L2150011-07,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:28:08 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

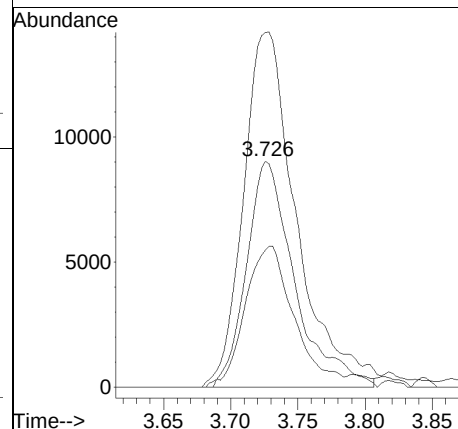
Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•

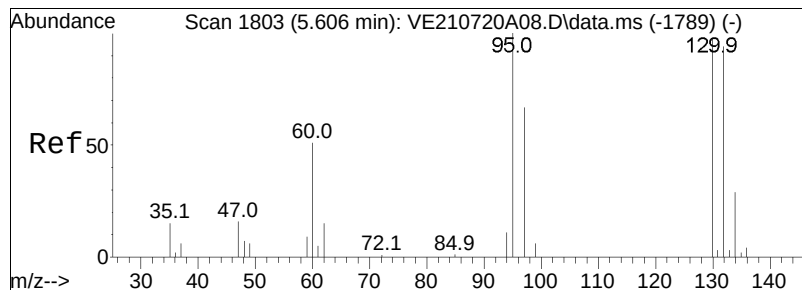




#28
 cis-1,2-Dichloroethene
 Concen: 4.70 ug/L
 RT: 3.726 min Scan# 1127
 Delta R.T. -0.008 min
 Lab File: VE210920A12.D
 Acq: 20 Sep 2021 11:00 am

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.2	149.4	224.2
98	62.8	53.4	80.2





#48

Trichloroethene

Concen: 6.16 ug/L

RT: 5.598 min Scan# 1800

Delta R.T. -0.003 min

Lab File: VE210920A12.D

Acq: 20 Sep 2021 11:00 am

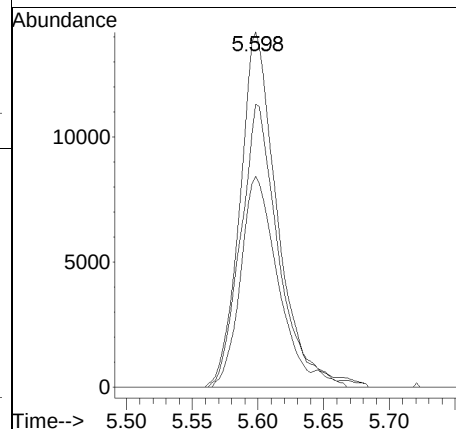
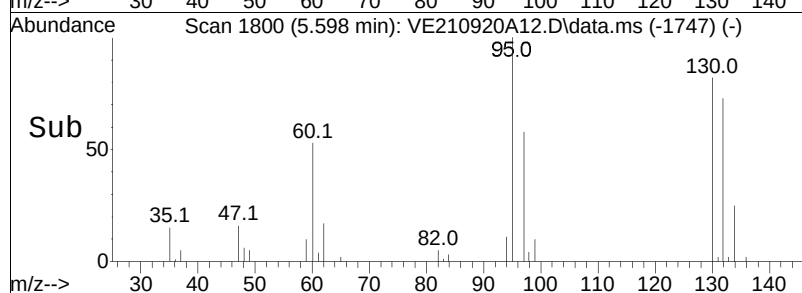
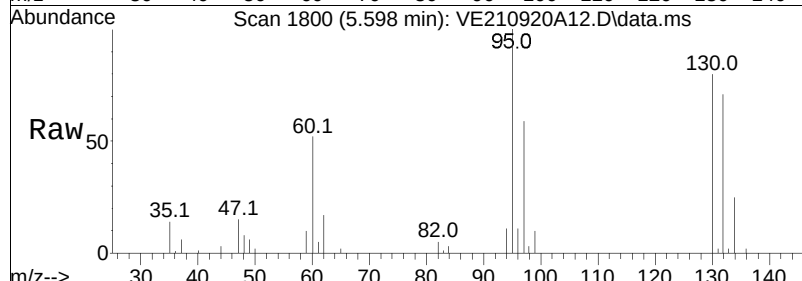
Tgt Ion: 95 Resp: 28351

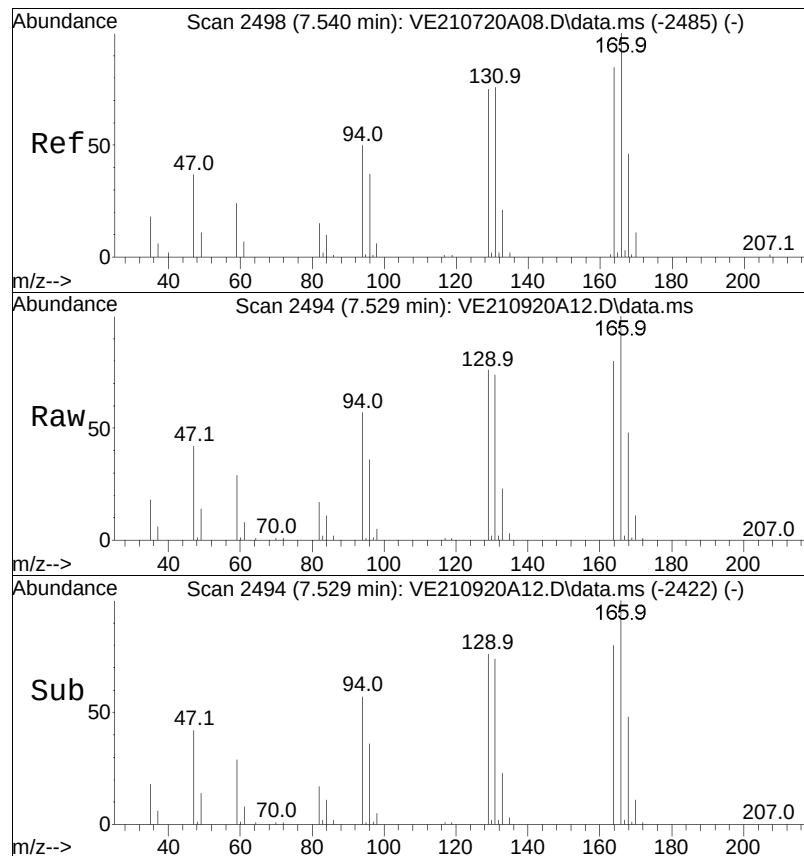
Ion Ratio Lower Upper

95 100

97 57.7 55.5 83.3

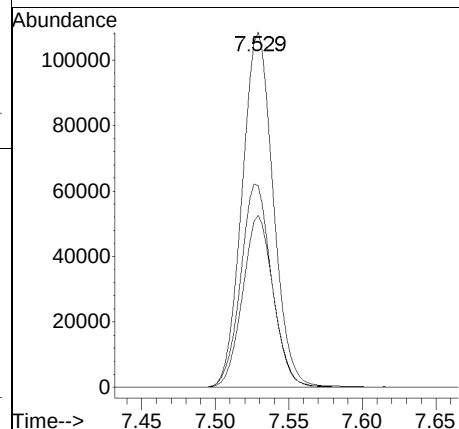
130 79.8 76.6 115.0





#63
Tetrachloroethene
Concen: 40.69 ug/L
RT: 7.529 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VE210920A12.D
Acq: 20 Sep 2021 11:00 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	160102		
168	48.2		28.2	68.2
94	56.9		38.4	78.4



Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A12.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 11:00 am Instrument : Elaine
Sample : L2150011-07,31,10,10,,A,PRQuant Date : 9/21/2021 10:48 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A13.D
 Acq On : 20 Sep 2021 11:20 am
 Operator : ELAINE:MKS
 Sample : L2150011-08,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:28:37 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.403	96	246827	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery =	94.84%		
59) Chlorobenzene-d5	8.439	117	163025	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery =	93.61%		
79) 1,4-Dichlorobenzene-d4	9.935	152	76789	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery =	91.15%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.404	113	50978	9.066	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	90.66%		
43) 1,2-Dichloroethane-d4	5.058	65	74249	8.986	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	89.86%		
60) Toluene-d8	7.120	98	225794	10.072	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.72%		
83) 4-Bromofluorobenzene	9.265	95	90598	9.945	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.45%		
Target Compounds						
						Qvalue
4) Vinyl chloride	0.000		0		N.D.	
10) 1,1-Dichloroethene	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	3.728	96	24585M1	5.041	ug/L	
48) Trichloroethene	5.598	95	31704	6.831	ug/L	87
63) Tetrachloroethene	7.529	166	240446	62.317	ug/L	98

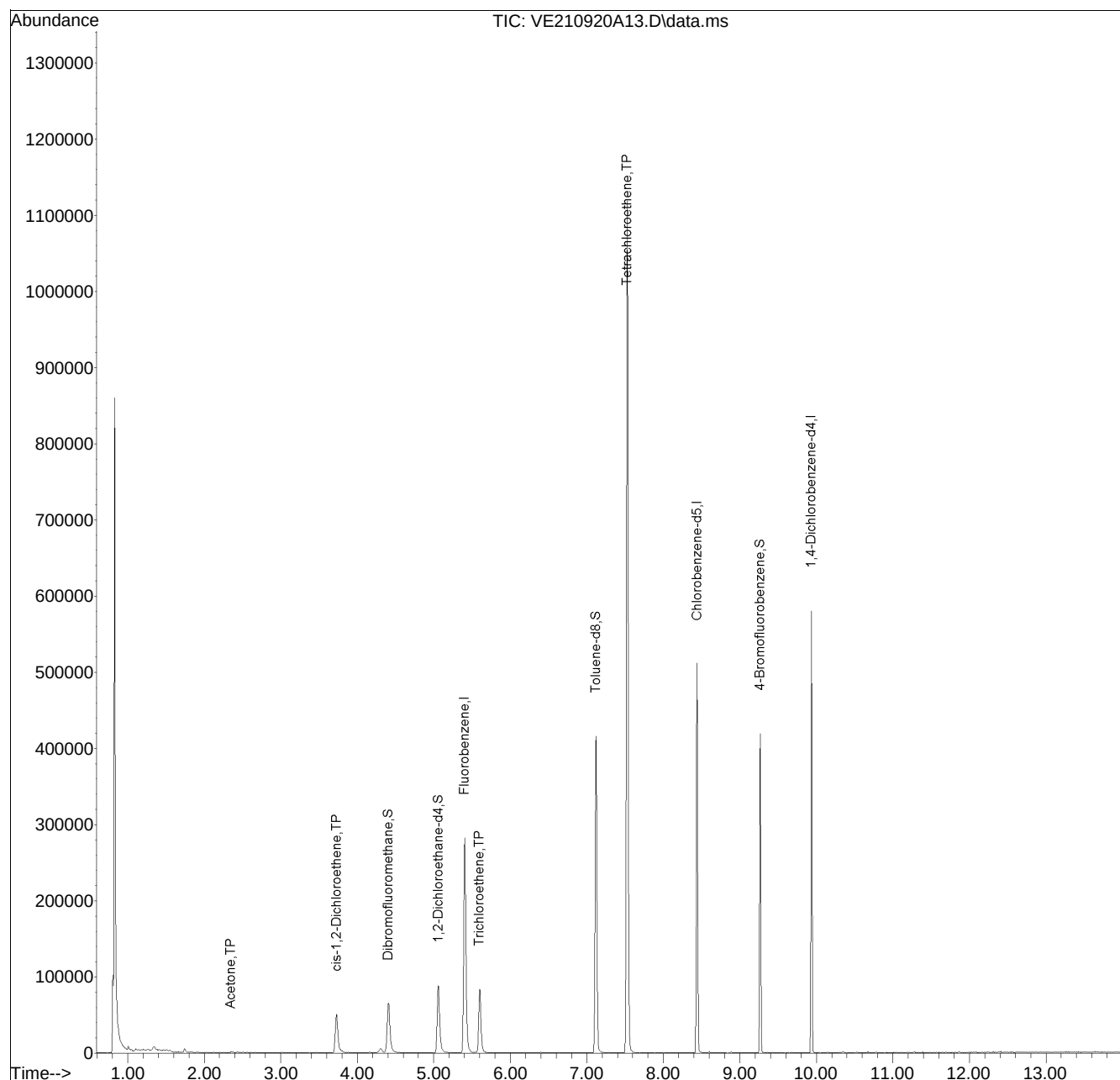
(#) = qualifier out of range (m) = manual integration (+) = signals summed

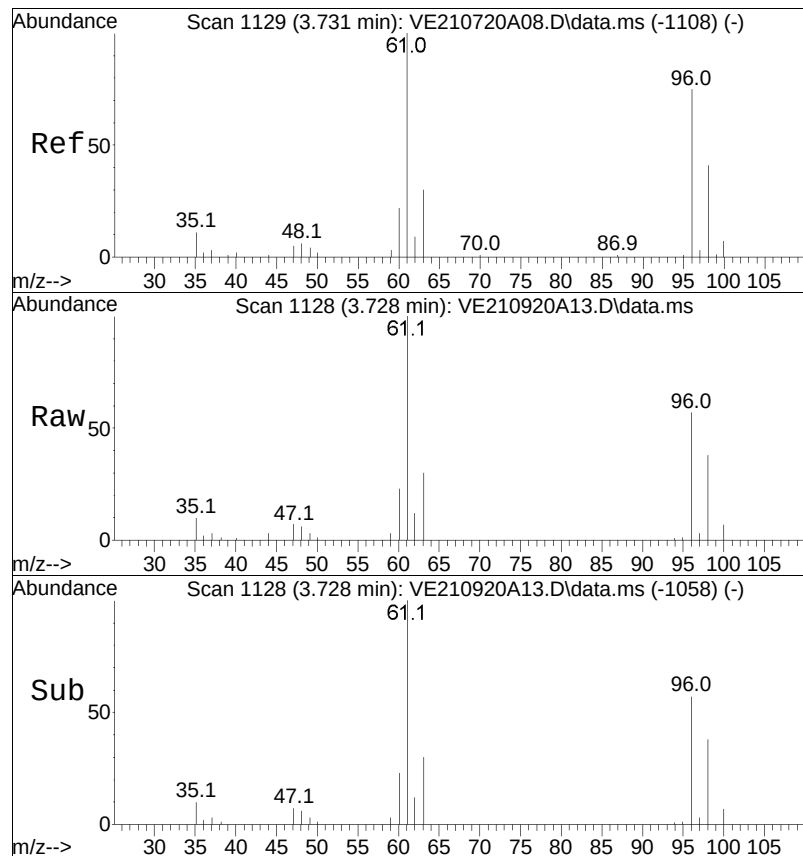
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A13.D
 Acq On : 20 Sep 2021 11:20 am
 Operator : ELAINE:MKS
 Sample : L2150011-08,31,10,10,,A,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:28:37 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

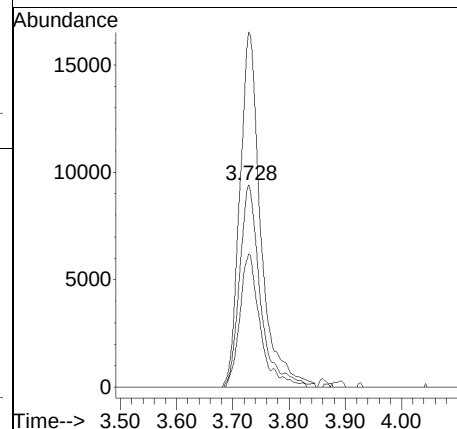
Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•

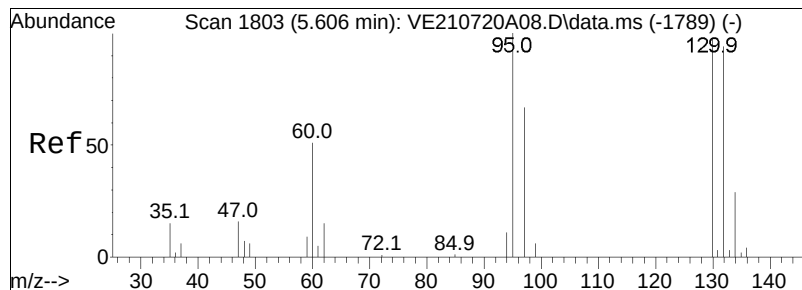




#28
 cis-1,2-Dichloroethene
 Concen: 5.04 ug/L M1
 RT: 3.728 min Scan# 1128
 Delta R.T. -0.006 min
 Lab File: VE210920A13.D
 Acq: 20 Sep 2021 11:20 am

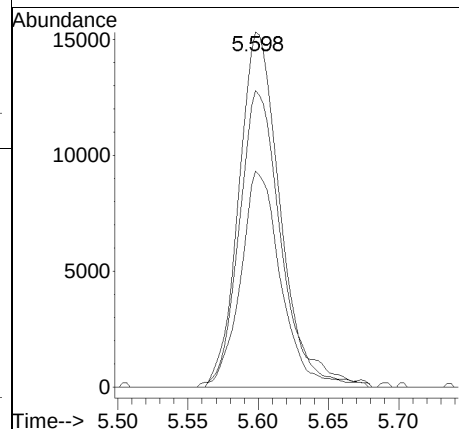
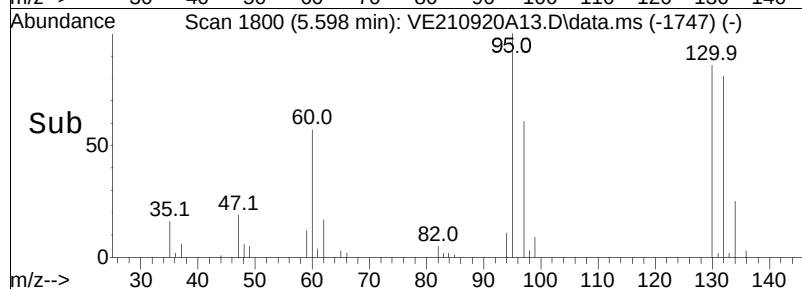
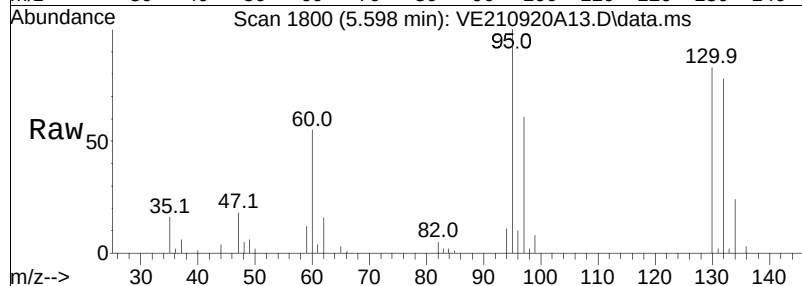
Tgt Ion:	96	Resp:	24585
Ion Ratio	Lower	Upper	
96	100		
61	174.1	149.4	224.2
98	58.4	53.4	80.2

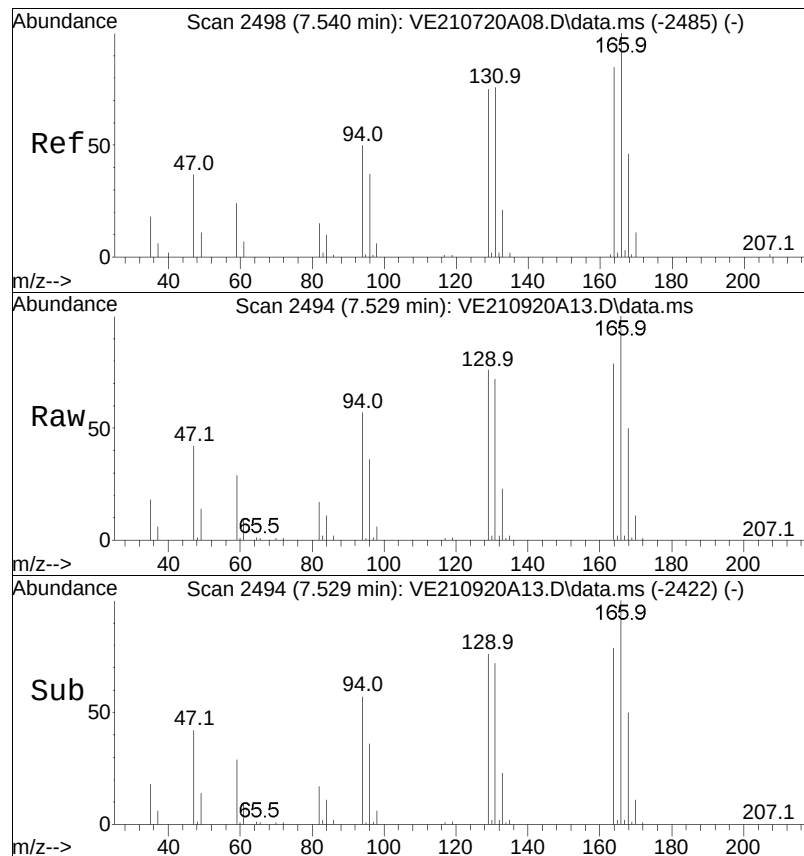




#48
 Trichloroethene
 Concen: 6.83 ug/L
 RT: 5.598 min Scan# 1800
 Delta R.T. -0.003 min
 Lab File: VE210920A13.D
 Acq: 20 Sep 2021 11:20 am

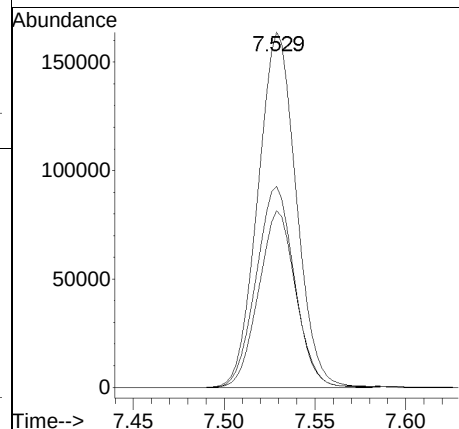
Tgt Ion	Ratio	Lower	Upper
95	100		
97	58.9	55.5	83.3
130	83.2	76.6	115.0





#63
Tetrachloroethene
Concen: 62.32 ug/L
RT: 7.529 min Scan# 2494
Delta R.T. -0.000 min
Lab File: VE210920A13.D
Acq: 20 Sep 2021 11:20 am

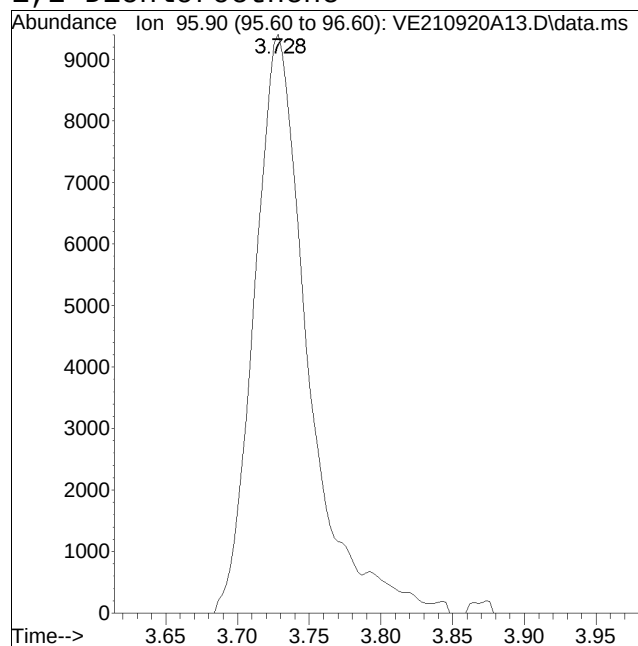
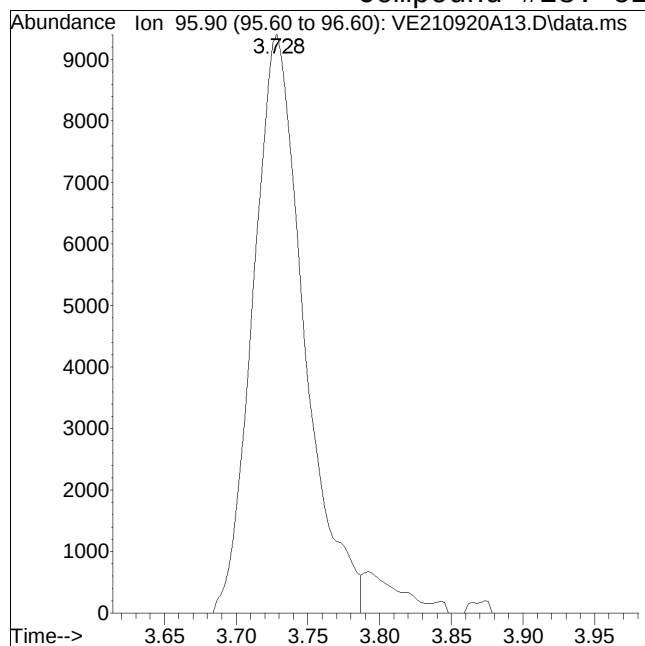
Tgt	Ion:166	Resp:	240446
Ion	Ratio	Lower	Upper
166	100		
168	48.6	28.2	68.2
94	56.3	38.4	78.4



Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A13.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 11:20 am Instrument : Elaine
Sample : L2150011-08,31,10,10,,A,PRQuant Date : 9/21/2021 10:48 am

Compound #28: cis-1,2-Dichloroethene



Original Peak Response = 23157

Manual Peak Response = 24585 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2150011
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : ELAINE **Ical Ref** : ICAL18296
Calibration dates : 09/09/21 12:16 09/09/21 15:32

Calibration Files

L11 =VE210909A04.D L1 =VE210909A06.D L2 =VE210909A08.D L3 =VE210909A09.D L4 =VE210909A10.D
 L6 =VE210909A11.D L8 =VE210909A12.D L10 =VE210909A13.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----									
2) TP Dichlorodifluo		0.139	0.174	0.172	0.187	0.190	0.181	0.173	0.174	9.73
3) TP Chloromethane		0.224	0.251	0.228	0.229	0.225	0.227	0.221	0.229	4.30
4) TC Vinyl chloride	0.147	0.160	0.243	0.229	0.234	0.234	0.236	0.227	0.214	17.59
5) TP Bromomethane		0.114	0.112	0.097	0.104	0.111	0.120	0.121	0.111	7.55
6) TP Chloroethane		0.135	0.160	0.137	0.143	0.133	0.130	0.118	0.137	9.34
7) TP Trichlorofluor		0.197	0.265	0.258	0.279	0.286	0.282	0.265	0.262	11.58
8) TP Ethyl ether		0.077	0.119	0.108	0.114	0.109	0.113	0.111	0.107	12.79
10) TC 1,1-Dichloroet		0.129	0.154	0.143	0.159	0.166	0.162	0.161	0.154	8.50
11) TP Carbon disulfide		0.353	0.444	0.416	0.432	0.431	0.435	0.419	0.418	7.26
12) TP Freon-113		0.104	0.160	0.157	0.169	0.174	0.175	0.165	0.158	15.52
13) TP Iodomethane			0.122	0.136	0.158	0.172	0.170	0.161	0.153	12.95
14) TP Acrolein			0.010	0.010	0.010	0.010	0.009	0.010	0.010#	2.23
15) TP Methylene chlo		0.234	0.213	0.192	0.196	0.192	0.193	0.186	0.201	8.36
17) TP Acetone			0.091	0.049	0.049	0.053	0.055	0.048	*L	0.9955
18) TP trans-1,2-Dich		0.144	0.185	0.164	0.168	0.169	0.176	0.174	0.168	7.60
19) TP Methyl acetate		0.164	0.120	0.098	0.101	0.110	0.116	0.114	0.118	18.63
20) TP Methyl tert butyl ether		0.519	0.575	0.541	0.574	0.567	0.576	0.555	0.558	3.87
21) TP tert-Butyl alc			0.016	0.018	0.018	0.019	0.019	0.018	0.018#	5.63
22) TP Diisopropyl ether		0.717	0.736	0.725	0.747	0.756	0.770	0.740	0.741	2.46
23) TP 1,1-Dichloroet		0.347	0.422	0.394	0.409	0.404	0.415	0.402	0.399	6.24
24) TP Halothane		0.093	0.126	0.124	0.132	0.133	0.134	0.131	0.125	11.42
25) TP Acrylonitrile		0.077	0.053	0.055	0.056	0.057	0.058	0.057	0.059	13.58
26) TP Ethyl tert-but		0.688	0.729	0.739	0.764	0.784	0.795	0.767	0.752	4.87
27) TP Vinyl acetate		0.471	0.455	0.406	0.360	0.355	0.358	0.461	0.410	12.88
28) TP cis-1,2-Dichlo		0.203	0.211	0.193	0.191	0.194	0.198	0.192	0.198	3.63
29) TP 2,2-Dichloropr		0.263	0.303	0.283	0.323	0.314	0.317	0.306	0.301	6.98
30) TP Bromochloromet		0.075	0.074	0.078	0.077	0.076	0.075	0.072	0.075	2.56
31) TP Cyclohexane		0.303	0.361	0.351	0.397	0.404	0.401	0.384	0.372	9.80
32) TC Chloroform		0.319	0.372	0.352	0.353	0.348	0.360	0.352	0.351	4.61
33) TP Ethyl acetate		0.236	0.170	0.152	0.160	0.160	0.167	0.163	0.172	16.46
34) TP Carbon tetrachloride		0.159	0.227	0.237	0.259	0.259	0.263	0.253	0.237	15.45
35) TP Tetrahydrofuran			0.048	0.038	0.042	0.042	0.045	0.045	0.043#	8.22
36) S Dibromofluoromethane	0.233	0.231	0.239	0.225	0.227	0.214	0.229	0.225	0.228	3.14
37) TP 1,1,1-Trichlor		0.243	0.304	0.307	0.321	0.324	0.326	0.312	0.305	9.40
39) TP 2-Butanone			0.051	0.078	0.092	0.090	0.091	0.076	0.079#	19.83



Initial Calibration Summary

Form 6

Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2150011
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : ELAINE **Ical Ref** : ICAL18296
Calibration dates : 09/09/21 12:16 09/09/21 15:32

Calibration Files

L11 =VE210909A04.D L1 =VE210909A06.D L2 =VE210909A08.D L3 =VE210909A09.D L4 =VE210909A10.D
 L6 =VE210909A11.D L8 =VE210909A12.D L10 =VE210909A13.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40) TP 1,1-Dichloropr	0.154	0.237	0.250	0.272	0.278	0.279	0.271	0.249	17.94	
41) TP Benzene	0.722	0.722	0.789	0.751	0.793	0.798	0.808	0.775	0.770	4.43
42) TP Tertiary-Amyl Methyl Ether	0.521	0.591	0.549	0.580	0.591	0.611	0.581	0.575	5.26	
43) S 1,2-Dichloroethane-d4	0.333	0.343	0.345	0.330	0.326	0.324	0.343	0.334	0.335	2.43
44) TP 1,2-Dichloroet	0.322	0.328	0.301	0.312	0.313	0.320	0.309	0.315	2.90	
47) TP Methyl cyclohe	0.239	0.295	0.289	0.334	0.346	0.344	0.333	0.311	12.63	
48) TP Trichloroethene	0.132	0.157	0.187	0.187	0.210	0.214	0.217	0.202	0.188#	15.93
50) TP Dibromomethane	0.112	0.117	0.106	0.105	0.104	0.108	0.105	0.108	4.37	
51) TC 1,2-Dichloropr	0.208	0.220	0.213	0.222	0.227	0.231	0.224	0.221	3.56	
53) TP 2-Chloroethyl	0.050	0.062	0.059	0.059	0.062	0.063	0.061	0.059	7.11	
54) TP Bromodichlorom	0.257	0.286	0.266	0.278	0.281	0.289	0.280	0.277	4.08	
57) TP 1,4-Dioxane	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	3.87	
58) TP cis-1,3-Dichloropropene	0.268	0.314	0.301	0.298	0.320	0.329	0.335	0.327	0.311	7.03
59) I Chlorobenzene-d5	-----ISTD-----									
60) S Toluene-d8	1.341	1.369	1.367	1.364	1.388	1.380	1.385	1.407	1.375	1.42
61) TC Toluene	0.685	0.668	0.700	0.675	0.734	0.737	0.741	0.725	0.708	4.18
62) TP 4-Methyl-2-pen	0.088	0.092	0.092	0.103	0.107	0.108	0.105	0.099#	8.28	
63) TP Tetrachloroethene	0.183	0.242	0.223	0.248	0.254	0.256	0.250	0.237	10.97	
65) TP trans-1,3-Dichloropropene	0.297	0.383	0.411	0.392	0.436	0.450	0.461	0.454	0.411	13.27
67) TP Ethyl methacry	0.334	0.321	0.317	0.350	0.364	0.363	0.357	0.344	5.73	
68) TP 1,1,2-Trichlor	0.168	0.168	0.177	0.192	0.197	0.200	0.197	0.186	7.57	
69) TP Chlorodibromom	0.192	0.214	0.221	0.245	0.251	0.256	0.250	0.233	10.36	
70) TP 1,3-Dichloropr	0.441	0.409	0.376	0.422	0.429	0.434	0.429	0.420	5.21	
71) TP 1,2-Dibromoethane	0.176	0.206	0.194	0.214	0.221	0.221	0.217	0.207	8.08	
72) TP 2-Hexanone	0.212	0.165	0.163	0.201	0.193	0.195	0.174	0.186	10.15	
73) TP Chlorobenzene	0.656	0.709	0.681	0.728	0.708	0.718	0.697	0.700	3.46	
74) TC Ethylbenzene	1.234	1.125	1.366	1.325	1.421	1.401	1.378	1.303	1.319	7.47
75) TP 1,1,1,2-Tetrac	0.211	0.248	0.233	0.253	0.256	0.256	0.254	0.244	6.88	
76) TP p/m Xylene	0.405	0.427	0.485	0.477	0.510	0.495	0.488	0.462	0.468	7.61
77) TP o Xylene	0.392	0.412	0.467	0.452	0.485	0.473	0.464	0.439	0.448	7.13
78) TP Styrene	0.708	0.729	0.815	0.811	0.867	0.833	0.808	0.735	0.788	7.22
79) I 1,4-Dichlorobenzene-d4	-----ISTD-----									
80) TP Bromoform	0.245	0.258	0.259	0.291	0.297	0.293	0.290	0.276	7.70	
82) TP Isopropylbenzene	2.253	2.514	2.517	2.697	2.625	2.537	2.413	2.508	5.74	
83) S 4-Bromofluorobenzene	1.182	1.204	1.195	1.189	1.219	1.179	1.166	1.157	1.186	1.70
84) TP Bromobenzene	0.524	0.571	0.536	0.575	0.554	0.549	0.539	0.550	3.36	



Initial Calibration Summary

Form 6

Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2150011
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : ELAINE **Ical Ref** : ICAL18296
Calibration dates : 09/09/21 12:16 09/09/21 15:32

Calibration Files

L11 =VE210909A04.D L1 =VE210909A06.D L2 =VE210909A08.D L3 =VE210909A09.D L4 =VE210909A10.D
 L6 =VE210909A11.D L8 =VE210909A12.D L10 =VE210909A13.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
85) TP n-Propylbenzene	2.421	2.997	3.095	3.325	3.214	3.124	2.875	3.008		9.85
86) TP 1,4-Dichlorobu	0.966	1.093	1.012	1.074	1.055	1.054	1.009	1.037		4.25
87) TP 1,1,2,2-Tetrac	0.514	0.478	0.499	0.521	0.517	0.515	0.522	0.509		3.04
88) TP 4-Ethyltoluene	2.002	2.324	2.387	2.593	2.487	2.439	2.319	2.364		7.89
89) TP 2-Chlorotoluene	1.926	2.195	2.200	2.357	2.267	2.219	2.143	2.187		6.09
90) TP 1,3,5-Trimethy	1.843	2.062	2.100	2.270	2.183	2.137	2.058	2.093		6.35
91) TP 1,2,3-Trichlor	0.422	0.466	0.449	0.486	0.478	0.473	0.455	0.461		4.62
92) TP trans-1,4-Dich	0.202	0.195	0.186	0.189	0.196	0.195	0.189	0.193		2.83
93) TP 4-Chlorotoluene	1.915	2.019	1.980	2.107	2.036	1.996	1.923	1.997		3.33
94) TP tert-Butylbenzene	1.426	1.631	1.706	1.871	1.778	1.730	1.679	1.689		8.22
97) TP 1,2,4-Trimethy	1.763	2.026	2.094	2.245	2.177	2.133	2.053	2.070		7.46
98) TP sec-Butylbenzene	2.195	2.486	2.582	2.809	2.725	2.613	2.475	2.555		7.80
99) TP p-Isopropyltol	1.787	2.031	2.079	2.304	2.246	2.165	2.097	2.101		8.02
100) TP 1,3-Dichlorobe	0.933	1.053	1.024	1.090	1.059	1.046	1.025	1.033		4.76
101) TP 1,4-Dichlorobe	0.966	1.074	1.030	1.079	1.059	1.037	1.026	1.039		3.67
102) TP p-Diethylbenzene	1.009	1.126	1.187	1.323	1.293	1.259	1.277	1.211		9.21
103) TP n-Butylbenzene	1.410	1.799	1.941	2.155	2.130	2.070	2.047	1.936		13.53
104) TP 1,2-Dichlorobe	0.946	0.989	0.963	1.031	1.004	0.977	0.977	0.984		2.81
105) TP 1,2,4,5-Tetram	1.575	1.813	1.879	2.073	2.029	1.999	2.001	1.910		9.06
106) TP 1,2-Dibromo-3-	0.078	0.068	0.068	0.076	0.075	0.075	0.080	0.074		6.45
107) TP 1,3,5-Trichlor	0.592	0.636	0.656	0.694	0.686	0.699	0.713	0.668		6.39
108) TP Hexachlorobuta	0.187	0.194	0.206	0.240	0.247	0.248	0.254	0.225		12.58
109) TP 1,2,4-Trichlor	0.547	0.634	0.587	0.656	0.645	0.678	0.675	0.632		7.65
110) TP Naphthalene	1.472	1.522	1.482	1.620	1.594	1.633	1.598	1.560		4.28
111) TP 1,2,3-Trichlor	0.500	0.557	0.552	0.602	0.594	0.622	0.609	0.576		7.43

Response Factor Report Elaine

Method Path : I:\VOLATILES\Elaine\2021\210909A\
 Method File : Elaine_210909A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Mon Sep 13 11:35:38 2021
 Response Via : Initial Calibration

Calibration Files

L11 =VE210909A04.D L1 =VE210909A06.D L2 =VE210909A08.D L3 =VE210909A09.D L4 =VE210909A10.D
 L6 =VE210909A11.D L8 =VE210909A12.D L10 =VE210909A13.D

Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD

1) I	Fluorobenzene	-----ISTD-----									
2) TP	Dichlorodifluo...	0.139	0.174	0.172	0.187	0.190	0.181	0.173	0.174	9.73	
3) TP	Chloromethane	0.224	0.251	0.228	0.229	0.225	0.227	0.221	0.229	4.30	
4) TC	Vinyl chloride	0.147	0.160	0.243	0.229	0.234	0.234	0.236	0.227	0.214	17.59
5) TP	Bromomethane	0.114	0.112	0.097	0.104	0.111	0.120	0.121	0.111	7.55	
6) TP	Chloroethane	0.135	0.160	0.137	0.143	0.133	0.130	0.118	0.137	9.34	
7) TP	Trichlorofluor...	0.197	0.265	0.258	0.279	0.286	0.282	0.265	0.262	11.58	
8) TP	Ethyl ether	0.077	0.119	0.108	0.114	0.109	0.113	0.111	0.107	12.79	
10) TC	1,1-Dichloroet...	0.129	0.154	0.143	0.159	0.166	0.162	0.161	0.154	8.50	
11) TP	Carbon disulfide	0.353	0.444	0.416	0.432	0.431	0.435	0.419	0.418	7.26	
12) TP	Freon-113	0.104	0.160	0.157	0.169	0.174	0.175	0.165	0.158	15.52	
13) TP	Iodomethane		0.122	0.136	0.158	0.172	0.170	0.161	0.153	12.95	
14) TP	Acrolein		0.010	0.010	0.010	0.010	0.009	0.010	0.010#	2.23	
15) TP	Methylene chlo...	0.234	0.213	0.192	0.196	0.192	0.193	0.186	0.201	8.36	
17) TP	Acetone		0.091	0.049	0.049	0.053	0.055	0.048	*L	0.9955	
18) TP	trans-1,2-Dich...	0.144	0.185	0.164	0.168	0.169	0.176	0.174	0.168	7.60	
19) TP	Methyl acetate	0.164	0.120	0.098	0.101	0.110	0.116	0.114	0.118	18.63	
20) TP	Methyl tert-bu...	0.519	0.575	0.541	0.574	0.567	0.576	0.555	0.558	3.87	
21) TP	tert-Butyl alc...		0.016	0.018	0.018	0.019	0.019	0.018	0.018#	5.63	
22) TP	Diisopropyl ether	0.717	0.736	0.725	0.747	0.756	0.770	0.740	0.741	2.46	
23) TP	1,1-Dichloroet...	0.347	0.422	0.394	0.409	0.404	0.415	0.402	0.399	6.24	
24) TP	Halothane	0.093	0.126	0.124	0.132	0.133	0.134	0.131	0.125	11.42	
25) TP	Acrylonitrile	0.077	0.053	0.055	0.056	0.057	0.058	0.057	0.059	13.58	
26) TP	Ethyl tert-but...	0.688	0.729	0.739	0.764	0.784	0.795	0.767	0.752	4.87	
27) TP	Vinyl acetate	0.471	0.455	0.406	0.360	0.355	0.358	0.461	0.410	12.88	
28) TP	cis-1,2-Dichlo...	0.203	0.211	0.193	0.191	0.194	0.198	0.192	0.198	3.63	
29) TP	2,2-Dichloropr...	0.263	0.303	0.283	0.323	0.314	0.317	0.306	0.301	6.98	
30) TP	Bromochloromet...	0.075	0.074	0.078	0.077	0.076	0.075	0.072	0.075	2.56	
31) TP	Cyclohexane	0.303	0.361	0.351	0.397	0.404	0.401	0.384	0.372	9.80	
32) TC	Chloroform	0.319	0.372	0.352	0.353	0.348	0.360	0.352	0.351	4.61	
33) TP	Ethyl acetate	0.236	0.170	0.152	0.160	0.160	0.167	0.163	0.172	16.46	

Response Factor Report Elaine

Method Path : I:\VOLATILES\Elaine\2021\210909A\
 Method File : Elaine_210909A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Mon Sep 13 11:35:38 2021
 Response Via : Initial Calibration

Calibration Files

L11 =VE210909A04.D L1 =VE210909A06.D L2 =VE210909A08.D L3 =VE210909A09.D L4 =VE210909A10.D
 L6 =VE210909A11.D L8 =VE210909A12.D L10 =VE210909A13.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34)	TP Carbon tetrach...	0.159	0.227	0.237	0.259	0.259	0.263	0.253	0.237	15.45	
35)	TP Tetrahydrofuran		0.048	0.038	0.042	0.042	0.045	0.045	0.043#	8.22	
36)	S Dibromofluorom...	0.233	0.231	0.239	0.225	0.214	0.229	0.225	0.228	3.14	
37)	TP 1,1,1-Trichlor...	0.243	0.304	0.307	0.321	0.324	0.326	0.312	0.305	9.40	
39)	TP 2-Butanone		0.051	0.078	0.092	0.090	0.091	0.076	0.079#	19.83	
40)	TP 1,1-Dichloropr...	0.154	0.237	0.250	0.272	0.278	0.279	0.271	0.249	17.94	
41)	TP Benzene	0.722	0.722	0.789	0.751	0.793	0.798	0.808	0.775	4.43	
42)	TP tert-Amyl meth...	0.521	0.591	0.549	0.580	0.591	0.611	0.581	0.575	5.26	
43)	S 1,2-Dichloroet...	0.333	0.343	0.345	0.330	0.326	0.324	0.343	0.334	2.43	
44)	TP 1,2-Dichloroet...	0.322	0.328	0.301	0.312	0.313	0.320	0.309	0.315	2.90	
47)	TP Methyl cyclohe...	0.239	0.295	0.289	0.334	0.346	0.344	0.333	0.311	12.63	
48)	TP Trichloroethene	0.132	0.157	0.187	0.210	0.214	0.217	0.202	0.188#	15.93	
50)	TP Dibromomethane	0.112	0.117	0.106	0.105	0.104	0.108	0.105	0.108	4.37	
51)	TC 1,2-Dichloropr...	0.208	0.220	0.213	0.222	0.227	0.231	0.224	0.221	3.56	
53)	TP 2-Chloroethyl ...	0.050	0.062	0.059	0.059	0.062	0.063	0.061	0.059	7.11	
54)	TP Bromodichlorom...	0.257	0.286	0.266	0.278	0.281	0.289	0.280	0.277	4.08	
57)	TP 1,4-Dioxane	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	3.87	
58)	TP cis-1,3-Dichlo...	0.268	0.314	0.301	0.298	0.320	0.329	0.335	0.327	7.03	
59)	I Chlorobenzene-d5	-----ISTD-----									
60)	S Toluene-d8	1.341	1.369	1.367	1.364	1.388	1.380	1.385	1.407	1.375	1.42
61)	TC Toluene	0.685	0.668	0.700	0.675	0.734	0.737	0.741	0.725	0.708	4.18
62)	TP 4-Methyl-2-pen...	0.088	0.092	0.092	0.103	0.107	0.108	0.105	0.099#	8.28	
63)	TP Tetrachloroethene	0.183	0.242	0.223	0.248	0.254	0.256	0.250	0.237	10.97	
65)	TP trans-1,3-Dich...	0.297	0.383	0.411	0.392	0.436	0.450	0.461	0.454	0.411	13.27
67)	TP Ethyl methacry...	0.334	0.321	0.317	0.350	0.364	0.363	0.357	0.344	5.73	
68)	TP 1,1,2-Trichlor...	0.168	0.168	0.177	0.192	0.197	0.200	0.197	0.186	7.57	
69)	TP Chlorodibromom...	0.192	0.214	0.221	0.245	0.251	0.256	0.250	0.233	10.36	
70)	TP 1,3-Dichloropr...	0.441	0.409	0.376	0.422	0.429	0.434	0.429	0.420	5.21	
71)	TP 1,2-Dibromoethane	0.176	0.206	0.194	0.214	0.221	0.221	0.217	0.207	8.08	
72)	TP 2-Hexanone	0.212	0.165	0.163	0.201	0.193	0.195	0.174	0.186	10.15	
73)	TP Chlorobenzene	0.656	0.709	0.681	0.728	0.708	0.718	0.697	0.700	3.46	

Response Factor Report Elaine

Method Path : I:\VOLATILES\Elaine\2021\210909A\
 Method File : Elaine_210909A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Mon Sep 13 11:35:38 2021
 Response Via : Initial Calibration

Calibration Files

L11 =VE210909A04.D L1 =VE210909A06.D L2 =VE210909A08.D L3 =VE210909A09.D L4 =VE210909A10.D
 L6 =VE210909A11.D L8 =VE210909A12.D L10 =VE210909A13.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
74)	TC Ethylbenzene	1.234	1.125	1.366	1.325	1.421	1.401	1.378	1.303	1.319	7.47
75)	TP 1,1,1,2-Tetrac...	0.211	0.248	0.233	0.253	0.256	0.256	0.254	0.244		6.88
76)	TP p/m Xylene	0.405	0.427	0.485	0.477	0.510	0.495	0.488	0.462	0.468	7.61
77)	TP o Xylene	0.392	0.412	0.467	0.452	0.485	0.473	0.464	0.439	0.448	7.13
78)	TP Styrene	0.708	0.729	0.815	0.811	0.867	0.833	0.808	0.735	0.788	7.22
79)	I 1,4-Dichlorobenzene-d4	-----ISTD-----									
80)	TP Bromoform	0.245	0.258	0.259	0.291	0.297	0.293	0.290	0.276		7.70
82)	TP Isopropylbenzene	2.253	2.514	2.517	2.697	2.625	2.537	2.413	2.508		5.74
83)	S 4-Bromofluorob...	1.182	1.204	1.195	1.189	1.219	1.179	1.166	1.157	1.186	1.70
84)	TP Bromobenzene	0.524	0.571	0.536	0.575	0.554	0.549	0.539	0.550		3.36
85)	TP n-Propylbenzene	2.421	2.997	3.095	3.325	3.214	3.124	2.875	3.008		9.85
86)	TP 1,4-Dichlorobu...	0.966	1.093	1.012	1.074	1.055	1.054	1.009	1.037		4.25
87)	TP 1,1,2,2-Tetrac...	0.514	0.478	0.499	0.521	0.517	0.515	0.522	0.509		3.04
88)	TP 4-Ethyltoluene	2.002	2.324	2.387	2.593	2.487	2.439	2.319	2.364		7.89
89)	TP 2-Chlorotoluene	1.926	2.195	2.200	2.357	2.267	2.219	2.143	2.187		6.09
90)	TP 1,3,5-Trimethy...	1.843	2.062	2.100	2.270	2.183	2.137	2.058	2.093		6.35
91)	TP 1,2,3-Trichlor...	0.422	0.466	0.449	0.486	0.478	0.473	0.455	0.461		4.62
92)	TP trans-1,4-Dich...	0.202	0.195	0.186	0.189	0.196	0.195	0.189	0.193		2.83
93)	TP 4-Chlorotoluene	1.915	2.019	1.980	2.107	2.036	1.996	1.923	1.997		3.33
94)	TP tert-Butylbenzene	1.426	1.631	1.706	1.871	1.778	1.730	1.679	1.689		8.22
97)	TP 1,2,4-Trimethy...	1.763	2.026	2.094	2.245	2.177	2.133	2.053	2.070		7.46
98)	TP sec-Butylbenzene	2.195	2.486	2.582	2.809	2.725	2.613	2.475	2.555		7.80
99)	TP p-Isopropyltol...	1.787	2.031	2.079	2.304	2.246	2.165	2.097	2.101		8.02
100)	TP 1,3-Dichlorobe...	0.933	1.053	1.024	1.090	1.059	1.046	1.025	1.033		4.76
101)	TP 1,4-Dichlorobe...	0.966	1.074	1.030	1.079	1.059	1.037	1.026	1.039		3.67
102)	TP p-Diethylbenzene	1.009	1.126	1.187	1.323	1.293	1.259	1.277	1.211		9.21
103)	TP n-Butylbenzene	1.410	1.799	1.941	2.155	2.130	2.070	2.047	1.936		13.53
104)	TP 1,2-Dichlorobe...	0.946	0.989	0.963	1.031	1.004	0.977	0.977	0.984		2.81
105)	TP 1,2,4,5-Tetram...	1.575	1.813	1.879	2.073	2.029	1.999	2.001	1.910		9.06
106)	TP 1,2-Dibromo-3-...	0.078	0.068	0.068	0.076	0.075	0.075	0.080	0.074		6.45
107)	TP 1,3,5-Trichlor...	0.592	0.636	0.656	0.694	0.686	0.699	0.713	0.668		6.39

Response Factor Report Elaine

Method Path : I:\VOLATILES\Elaine\2021\210909A\
Method File : Elaine_210909A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Sep 13 11:35:38 2021
Response Via : Initial Calibration

Calibration Files

L11 =VE210909A04.D L1 =VE210909A06.D L2 =VE210909A08.D L3 =VE210909A09.D L4 =VE210909A10.D
L6 =VE210909A11.D L8 =VE210909A12.D L10 =VE210909A13.D

Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
108)	TP Hexachlorobuta...	0.187	0.194	0.206	0.240	0.247	0.248	0.254	0.225	12.58	
109)	TP 1,2,4-Trichlor...	0.547	0.634	0.587	0.656	0.645	0.678	0.675	0.632	7.65	
110)	TP Naphthalene	1.472	1.522	1.482	1.620	1.594	1.633	1.598	1.560	4.28	
111)	TP 1,2,3-Trichlor...	0.500	0.557	0.552	0.602	0.594	0.622	0.609	0.576	7.43	

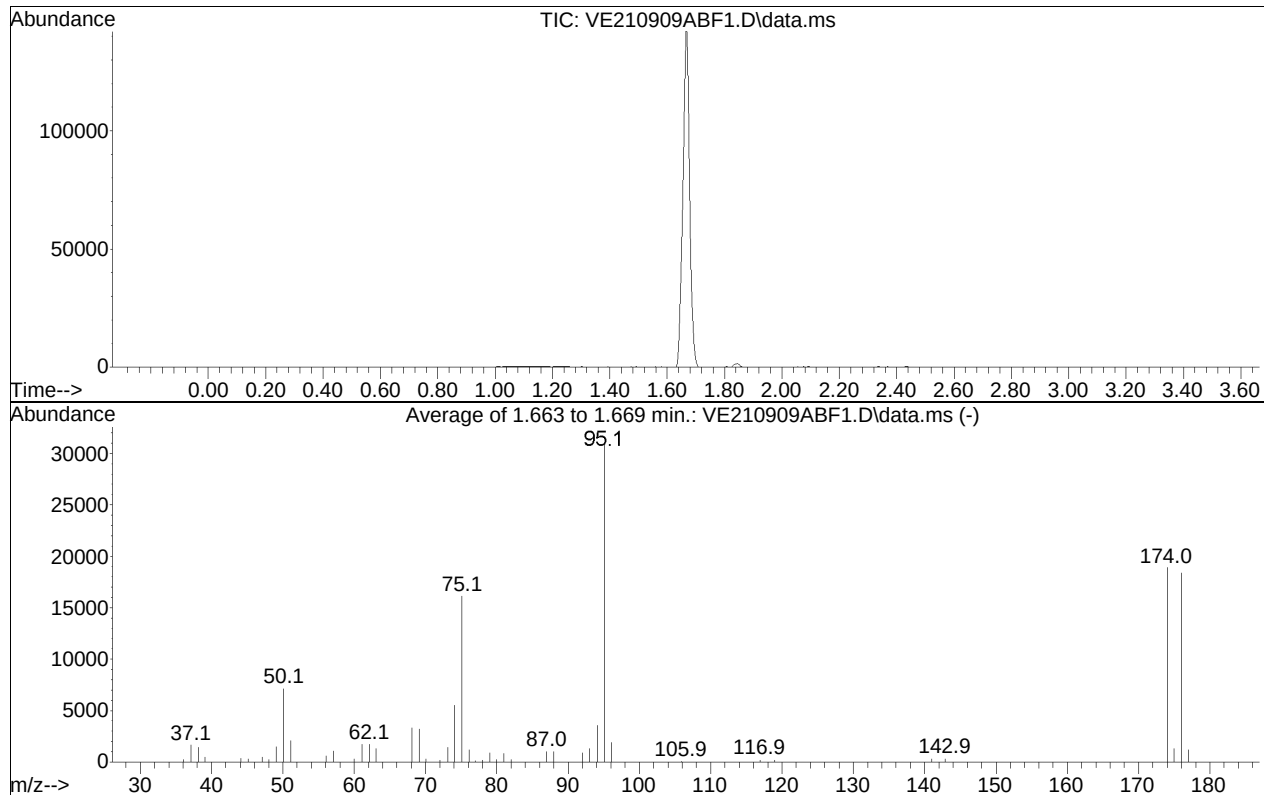
(#) = Out of Range

BFB

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909ABF1.D
 Acq On : 9 Sep 2021 10:54 am
 Operator : ELAINE:PD
 Sample : WG1545678-1
 Misc : WG1545678
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Mon Sep 13 11:35:38 2021



AutoFind: Scans 242, 243, 244; Background Corrected with Scan 228

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.0	7146	PASS
75	95	30	60	51.9	16105	PASS
95	95	100	100	100.0	31045	PASS
96	95	5	9	6.2	1916	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	60.9	18901	PASS
175	174	5	9	7.2	1360	PASS
176	174	95	101	97.2	18376	PASS
177	176	5	9	6.5	1199	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A04.D
 Acq On : 9 Sep 2021 12:16 pm
 Operator : ELAINE:NLK
 Sample : I8260STD0.19PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:09 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.409	96	218147	10.000	ug/L	0.00
Standard Area 1 = 231987			Recovery =	94.03%		
59) Chlorobenzene-d5	8.442	117	152777	10.000	ug/L	0.00
Standard Area 1 = 160220			Recovery =	95.35%		
79) 1,4-Dichlorobenzene-d4	9.936	152	75671	10.000	ug/L	0.00
Standard Area 1 = 78675			Recovery =	96.18%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.413	113	50871	10.237	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.37%		
43) 1,2-Dichloroethane-d4	5.064	65	72550	9.935	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.35%		
60) Toluene-d8	7.123	98	204897	9.753	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.53%		
83) 4-Bromofluorobenzene	9.265	95	89438	9.963	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.63%		
Target Compounds						Qvalue
4) Vinyl chloride	1.091	62	610	0.131	ug/L	89
34) Carbon tetrachloride	4.285	117	374M1	0.072	ug/L	
41) Benzene	4.875	78	2992	0.178	ug/L #	66
48) Trichloroethene	5.604	95	547	0.133	ug/L #	82
58) cis-1,3-Dichloropropene	6.953	75	1110	0.163	ug/L #	71
61) Toluene	7.173	92	1987	0.184	ug/L	90
65) trans-1,3-Dichloropropene	7.610	75	861	0.137	ug/L #	65
74) Ethylbenzene	8.492	91	3583	0.178	ug/L	100
76) p/m Xylene	8.600	106	2351	0.329	ug/L	87
77) o Xylene	8.887	106	2274	0.332	ug/L	92
78) Styrene	8.926	104	4109	0.341	ug/L	100

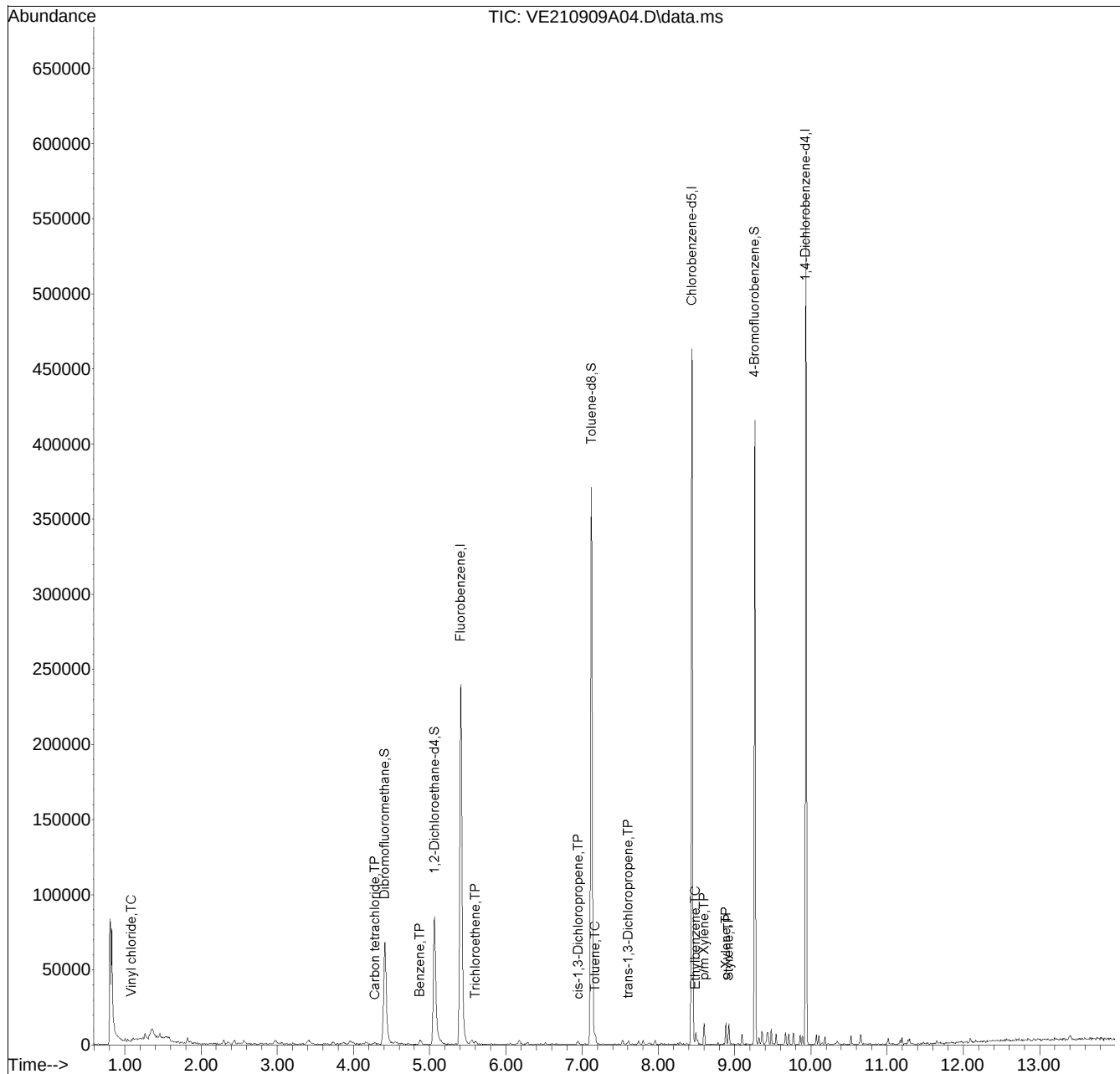
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A04.D
 Acq On : 9 Sep 2021 12:16 pm
 Operator : ELAINE:NLK
 Sample : I8260STD0.19PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:09 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

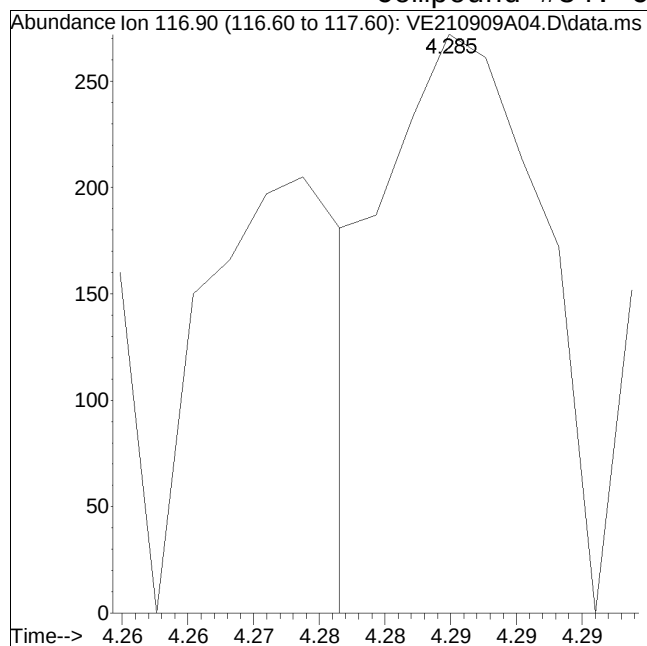
Sub List : 8260-L11 - Level 11 for 8260-LRR product10909A09.D•



Manual Integration Report

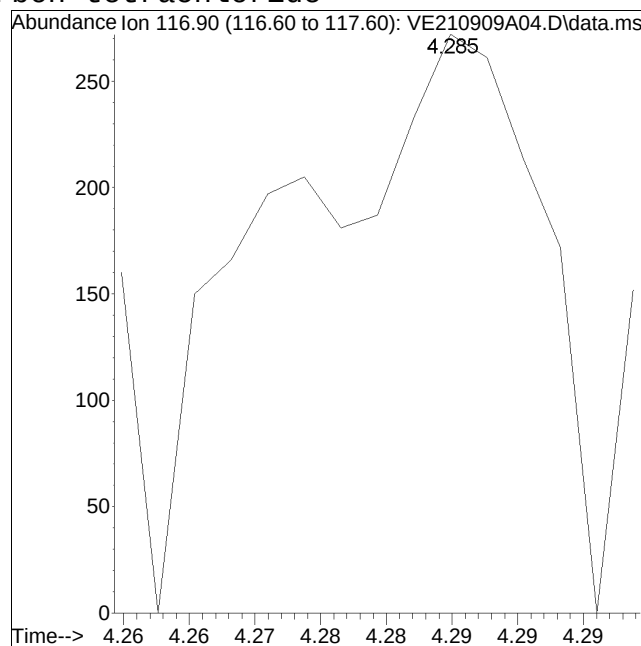
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A04.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 12:16 pm Instrument : Elaine
Sample : I8260STD0.19PPB Quant Date : 9/13/2021 11:39 am

Compound #34: Carbon tetrachloride



Original Peak Response = 223

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 374 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A06.D
 Acq On : 9 Sep 2021 12:59 pm
 Operator : ELAINE:NLK
 Sample : I8260STD0.5PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:17 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.409	96	211800	10.000	ug/L	0.00
Standard Area 1 = 231987			Recovery =	91.30%		
59) Chlorobenzene-d5	8.441	117	148063	10.000	ug/L	0.00
Standard Area 1 = 160220			Recovery =	92.41%		
79) 1,4-Dichlorobenzene-d4	9.936	152	73711	10.000	ug/L	0.00
Standard Area 1 = 78675			Recovery =	93.69%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.416	113	48907	10.136	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.36%		
43) 1,2-Dichloroethane-d4	5.061	65	72749	10.261	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.61%		
60) Toluene-d8	7.120	98	202645	9.953	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.53%		
83) 4-Bromofluorobenzene	9.265	95	88740	10.148	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.48%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.921	85	1470	0.400	ug/L #	95
3) Chloromethane	1.041	50	2377	0.489	ug/L #	93
4) Vinyl chloride	1.091	62	1693	0.374	ug/L	99
5) Bromomethane	1.291	94	1205	0.510	ug/L	94
6) Chloroethane	1.372	64	1431	0.495	ug/L	82
7) Trichlorofluoromethane	1.466	101	2089	0.377	ug/L	100
8) Ethyl ether	1.692	74	820	0.361	ug/L	95
10) 1,1-Dichloroethene	1.820	96	1370	0.421	ug/L	76
11) Carbon disulfide	1.828	76	3738	0.422	ug/L	92
12) Freon-113	1.853	101	1103	0.330	ug/L	95
13) Iodomethane	1.917	142	897	0.277	ug/L #	75
14) Acrolein	2.092	56	229	1.105	ug/L	96
15) Methylene chloride	2.298	84	2479	0.583	ug/L	78
17) Acetone	2.362	43	2453	1.012	ug/L #	77
18) trans-1,2-Dichloroethene	2.440	96	1524	0.427	ug/L	87
19) Methyl acetate	2.487	43	1736M1	0.697	ug/L	
20) Methyl tert-butyl ether	2.563	73	5491	0.465	ug/L #	89
21) tert-Butyl alcohol	2.724	59	137	0.361	ug/L #	1
22) Diisopropyl ether	2.969	45	7590	0.483	ug/L #	87
23) 1,1-Dichloroethane	3.063	63	3672	0.434	ug/L #	71
24) Halothane	3.203	117	990	0.375	ug/L #	68

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A06.D
 Acq On : 9 Sep 2021 12:59 pm
 Operator : ELAINE:NLK
 Sample : I8260STD0.5PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:17 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	3.147	53	813M1	0.651	ug/L	
26) Ethyl tert-butyl ether	3.408	59	7285M1	0.457	ug/L	
27) Vinyl acetate	3.425	43	4993M1	0.576	ug/L	
28) cis-1,2-Dichloroethene	3.731	96	2151	0.514	ug/L #	13
29) 2,2-Dichloropropane	3.867	77	2788	0.437	ug/L #	70
30) Bromochloromethane	3.995	128	790M1	0.494	ug/L	
31) Cyclohexane	3.968	56	3208M1	0.408	ug/L	
32) Chloroform	4.162	83	3375	0.454	ug/L	93
33) Ethyl acetate	4.424	43	2495M4	0.683	ug/L	
34) Carbon tetrachloride	4.293	117	1686M1	0.336	ug/L	
35) Tetrahydrofuran	0.000		0	N.D.	d	
37) 1,1,1-Trichloroethane	4.385	97	2576	0.398	ug/L	92
39) 2-Butanone	4.621	43	1306	0.777	ug/L #	77
40) 1,1-Dichloropropene	4.563	75	1627	0.309	ug/L #	82
41) Benzene	4.875	78	7647	0.469	ug/L	91
42) tert-Amyl methyl ether	5.103	73	5518	0.453	ug/L #	70
44) 1,2-Dichloroethane	5.145	62	3415	0.512	ug/L #	87
47) Methyl cyclohexane	5.559	83	2529	0.384	ug/L	98
48) Trichloroethene	5.606	95	1660	0.417	ug/L #	38
50) Dibromomethane	6.057	93	1184	0.517	ug/L #	79
51) 1,2-Dichloropropane	6.168	63	2200	0.471	ug/L #	83
53) 2-Chloroethyl vinyl ether	6.939	63	534	0.424	ug/L #	66
54) Bromodichloromethane	6.285	83	2720	0.464	ug/L #	94
57) 1,4-Dioxane	6.516	88	2706M1	94.238	ug/L	
58) cis-1,3-Dichloropropene	6.947	75	3320	0.504	ug/L	96
61) Toluene	7.170	92	4946	0.472	ug/L	91
62) 4-Methyl-2-pentanone	7.590	58	652	0.443	ug/L	80
63) Tetrachloroethene	7.532	166	1357	0.387	ug/L	91
65) trans-1,3-Dichloropropene	7.612	75	2836	0.466	ug/L	80
67) Ethyl methacrylate	7.802	69	2470	0.486	ug/L	86
68) 1,1,2-Trichloroethane	7.746	83	1246	0.453	ug/L	87
69) Chlorodibromomethane	7.877	129	1418	0.412	ug/L	90
70) 1,3-Dichloropropane	7.955	76	3262	0.525	ug/L	98
71) 1,2-Dibromoethane	8.035	107	1302	0.425	ug/L	94
72) 2-Hexanone	8.283	43	1567	0.569	ug/L #	73
73) Chlorobenzene	8.453	112	4859	0.469	ug/L #	72
74) Ethylbenzene	8.492	91	8330	0.426	ug/L	99
75) 1,1,1,2-Tetrachloroethane	8.514	131	1561	0.432	ug/L #	66
76) p/m Xylene	8.600	106	6320	0.911	ug/L	92
77) o Xylene	8.884	106	6106	0.921	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A06.D
 Acq On : 9 Sep 2021 12:59 pm
 Operator : ELAINE:NLK
 Sample : I8260STD0.5PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:17 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	8.926	104	10793	0.925	ug/L	98
80)	Bromoform	8.928	173	904	0.444	ug/L	87
82)	Isopropylbenzene	9.095	105	8302	0.449	ug/L	98
84)	Bromobenzene	9.321	156	1931	0.476	ug/L	83
85)	n-Propylbenzene	9.357	91	8923	0.403	ug/L	100
86)	1,4-Dichlorobutane	9.365	55	3559	0.465	ug/L	93
87)	1,1,2,2-Tetrachloroethane	9.415	83	1894	0.505	ug/L	91
88)	4-Ethyltoluene	9.426	105	7378	0.423	ug/L	99
89)	2-Chlorotoluene	9.440	91	7098	0.440	ug/L	93
90)	1,3,5-Trimethylbenzene	9.482	105	6793	0.440	ug/L	100
91)	1,2,3-Trichloropropane	9.482	75	1557	0.458	ug/L	88
92)	trans-1,4-Dichloro-2-b...	9.515	53	746	0.524	ug/L #	78
93)	4-Chlorotoluene	9.543	91	7058	0.480	ug/L	92
94)	tert-Butylbenzene	9.668	119	5254	0.422	ug/L #	82
97)	1,2,4-Trimethylbenzene	9.710	105	6498	0.426	ug/L	100
98)	sec-Butylbenzene	9.771	105	8090	0.430	ug/L	95
99)	p-Isopropyltoluene	9.860	119	6586	0.425	ug/L	95
100)	1,3-Dichlorobenzene	9.891	146	3440	0.452	ug/L	99
101)	1,4-Dichlorobenzene	9.944	146	3562	0.465	ug/L #	76
102)	p-Diethylbenzene	10.072	119	3718	0.417	ug/L	93
103)	n-Butylbenzene	10.102	91	5195	0.364	ug/L #	87
104)	1,2-Dichlorobenzene	10.186	146	3488	0.481	ug/L	96
105)	1,2,4,5-Tetramethylben...	10.525	119	5804	0.412	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.645	155	286	0.523	ug/L	99
107)	1,3,5-Trichlorobenzene	10.656	180	2182	0.443	ug/L	91
108)	Hexachlorobutadiene	10.998	225	691	0.416	ug/L #	81
109)	1,2,4-Trichlorobenzene	11.015	180	2016	0.433	ug/L	89
110)	Naphthalene	11.196	128	5424	0.472	ug/L	100
111)	1,2,3-Trichlorobenzene	11.296	180	1841	0.433	ug/L #	94

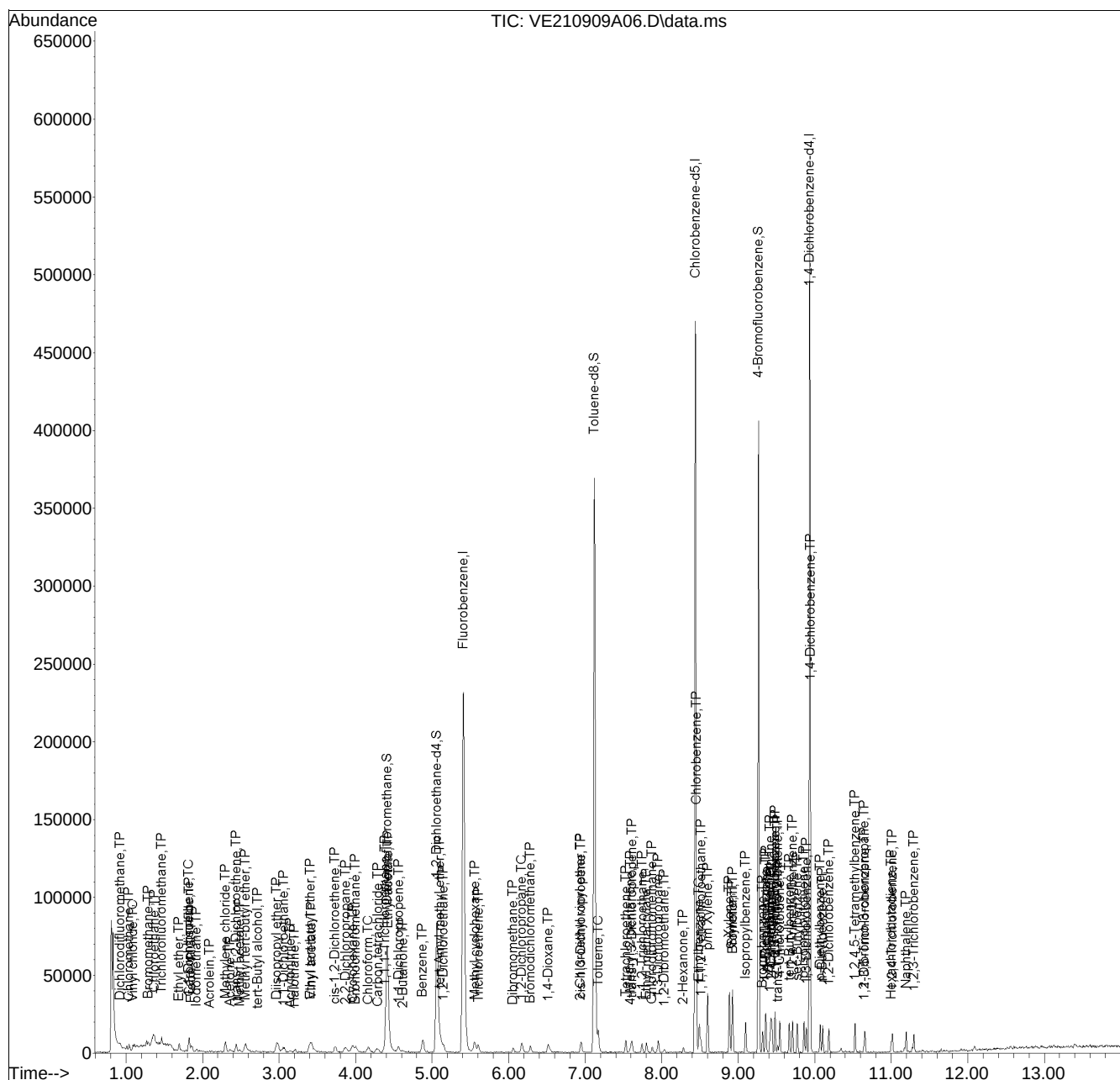
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A06.D
 Acq On : 9 Sep 2021 12:59 pm
 Operator : ELAINE:NLK
 Sample : I8260STD0.5PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:17 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

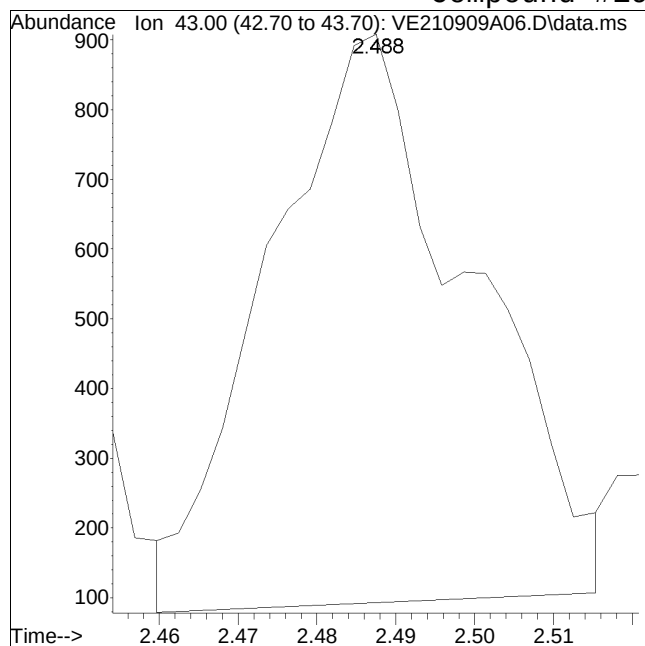
Sub List : 8260-Curve - Megamix plus Diox10909A\VE210909A09.D•



Manual Integration Report

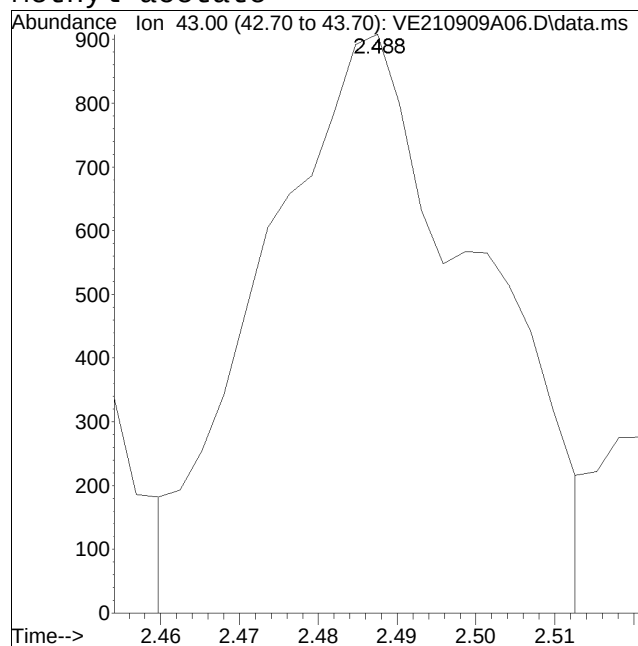
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A06.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 12:59 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 9/13/2021 11:39 am

Compound #19: Methyl acetate



Original Peak Response = 1463

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

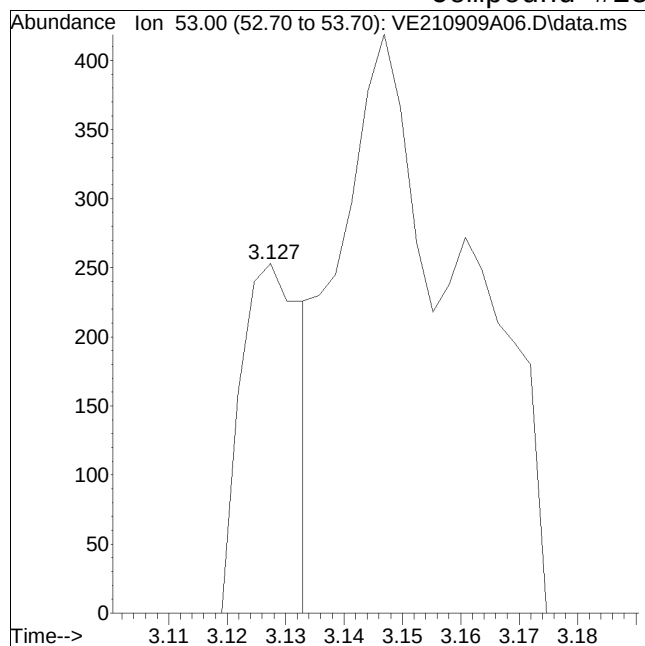


Manual Peak Response = 1736 M1

Manual Integration Report

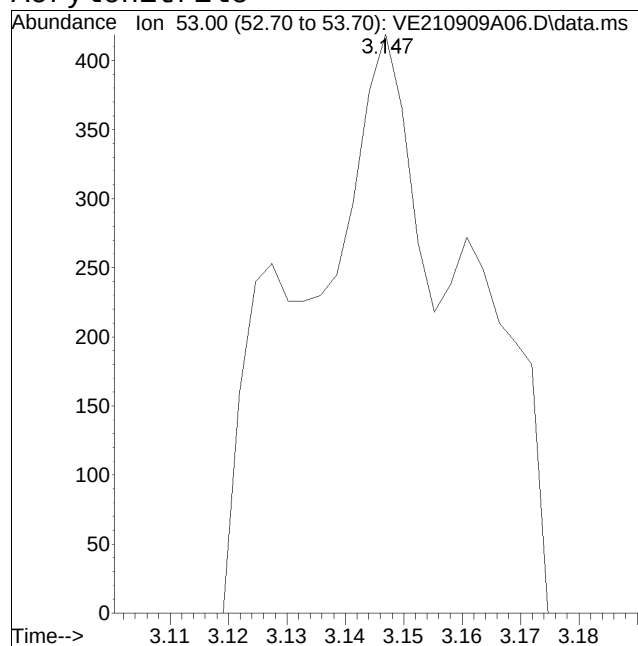
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A06.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 12:59 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 9/13/2021 11:39 am

Compound #25: Acrylonitrile



Original Peak Response = 184

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

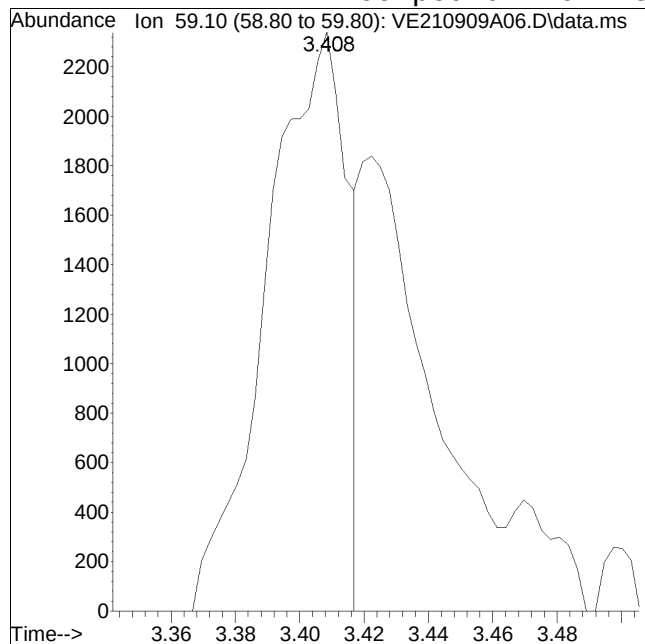


Manual Peak Response = 813 M1

Manual Integration Report

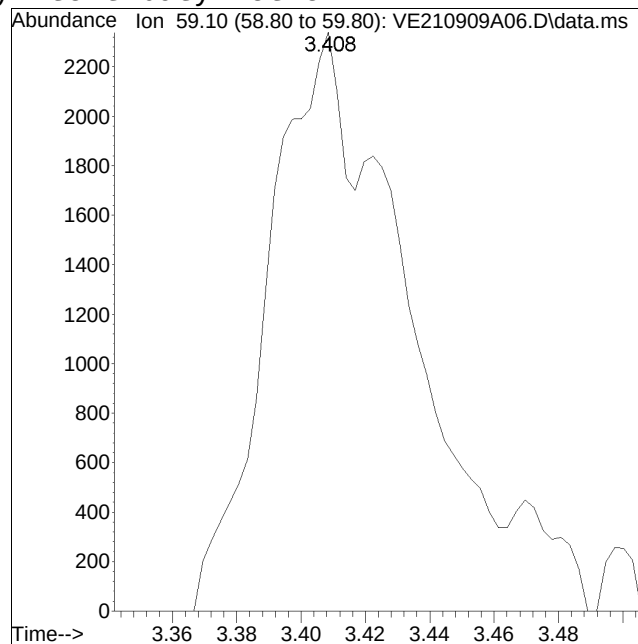
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A06.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 12:59 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 9/13/2021 11:39 am

Compound #26: Ethyl tert-butyl ether



Original Peak Response = 4059

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

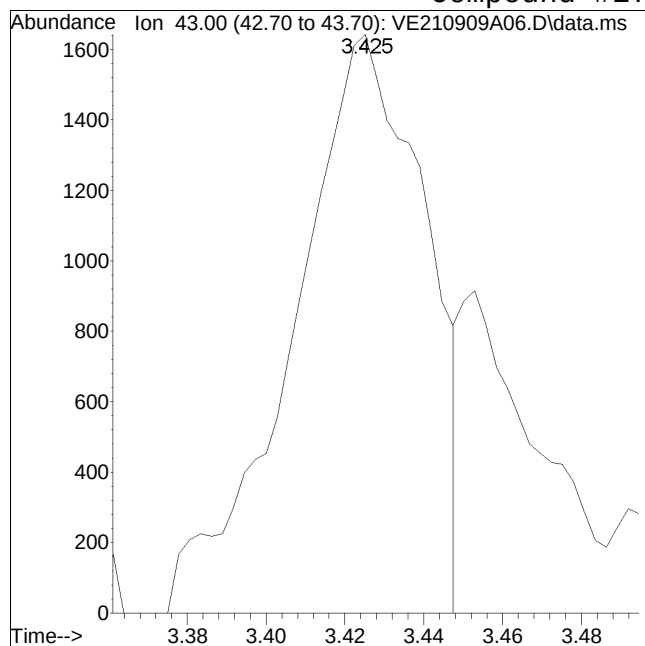


Manual Peak Response = 7285 M1

Manual Integration Report

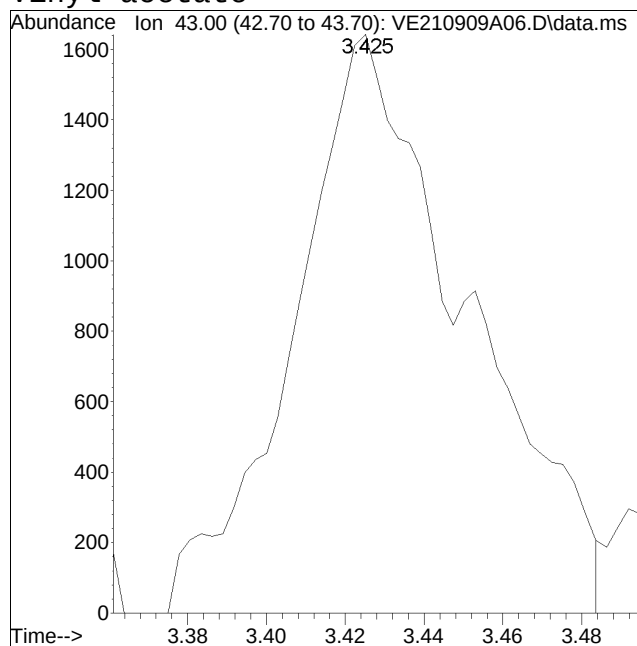
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A06.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 12:59 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 9/13/2021 11:39 am

Compound #27: Vinyl acetate



Original Peak Response = 3797

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

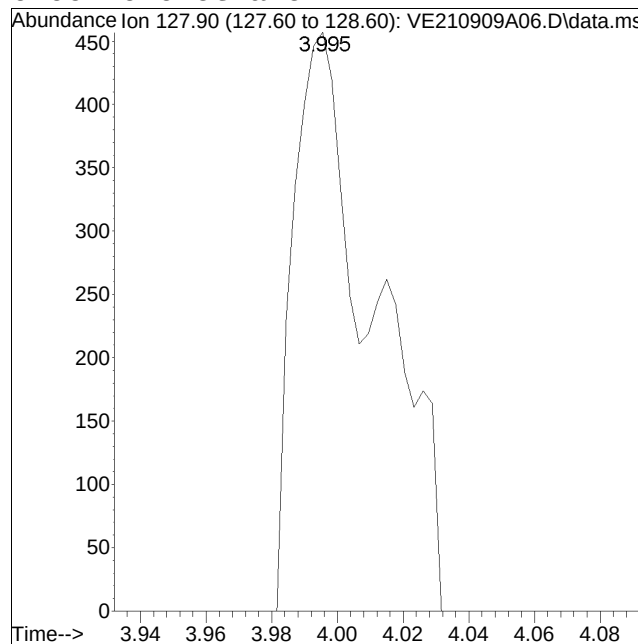
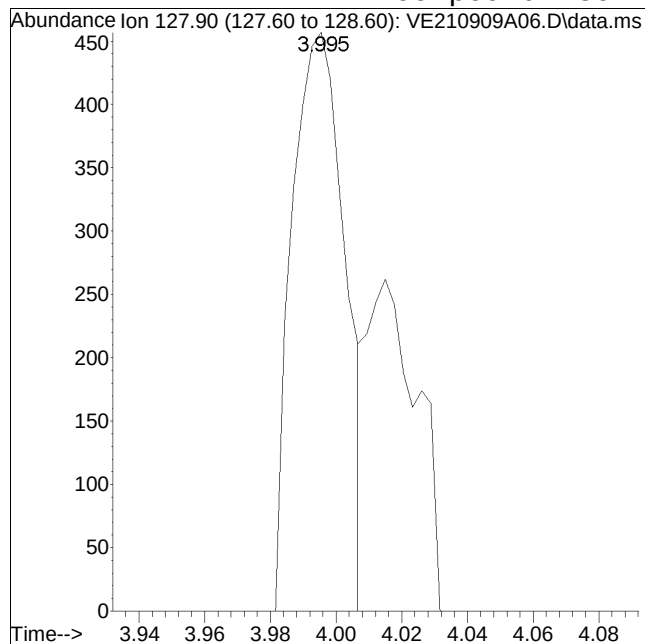


Manual Peak Response = 4993 M1

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A06.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 12:59 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 9/13/2021 11:39 am

Compound #30: Bromochloromethane



Original Peak Response = 514

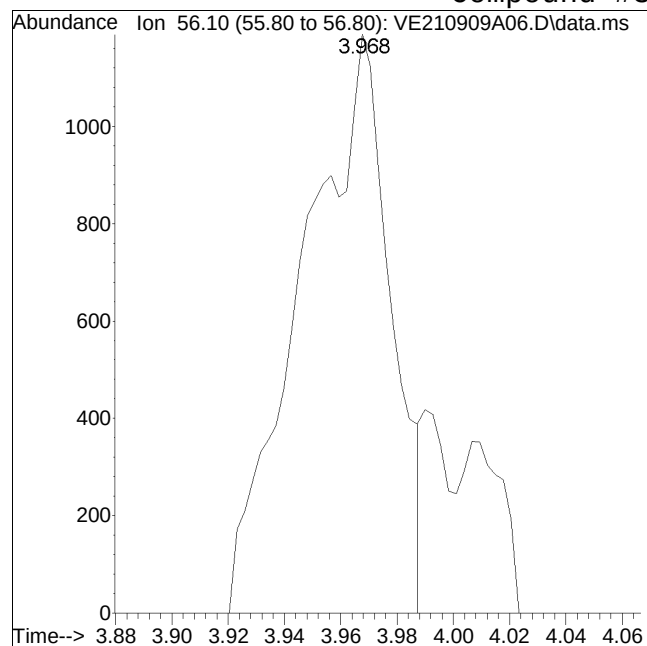
Manual Peak Response = 790 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

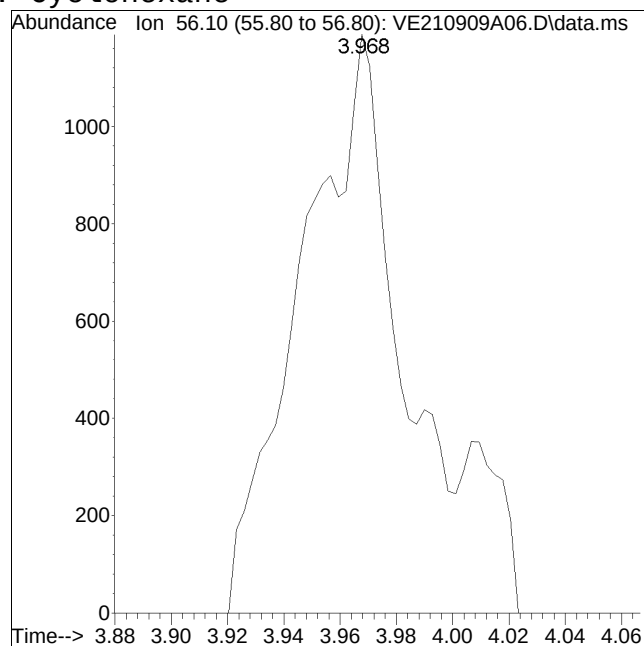
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A06.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 12:59 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 9/13/2021 11:39 am

Compound #31: Cyclohexane



Original Peak Response = 2588

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

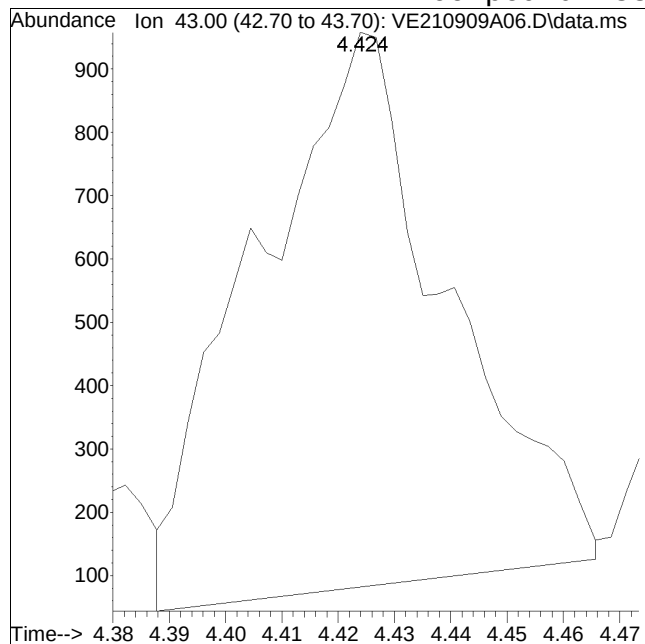


Manual Peak Response = 3208 M1

Manual Integration Report

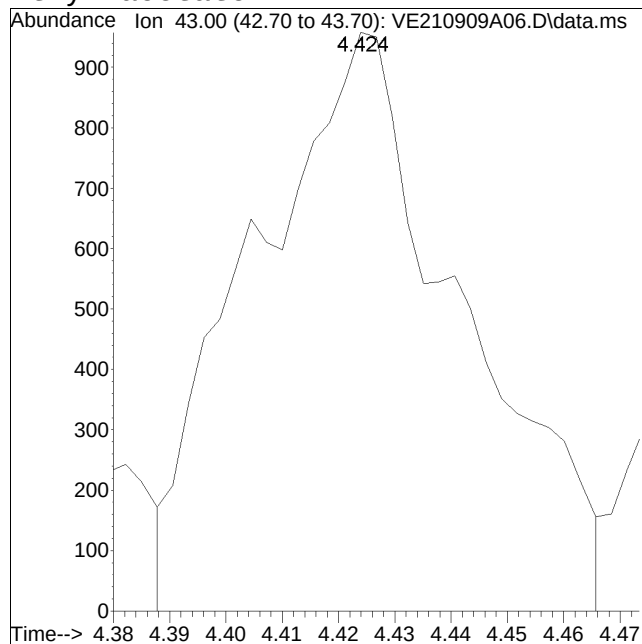
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A06.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 12:59 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 9/13/2021 11:39 am

Compound #33: Ethyl acetate



Original Peak Response = 2097

M4 = Poor automated baseline construction.

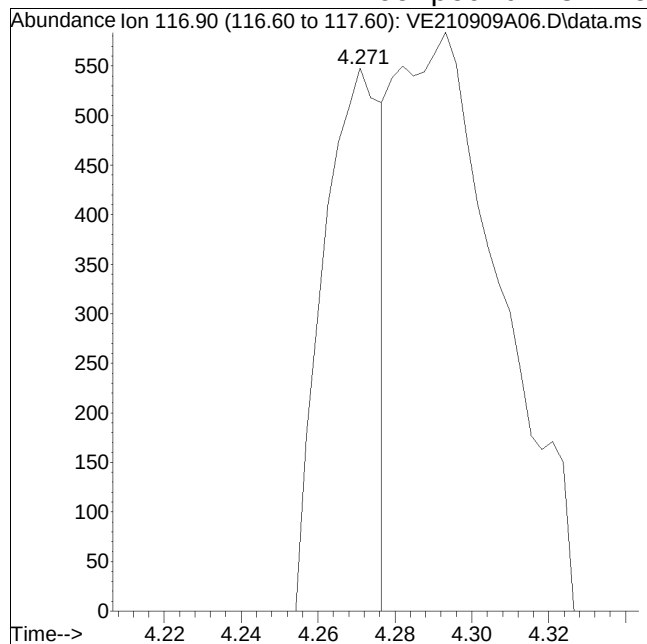


Manual Peak Response = 2495 M4

Manual Integration Report

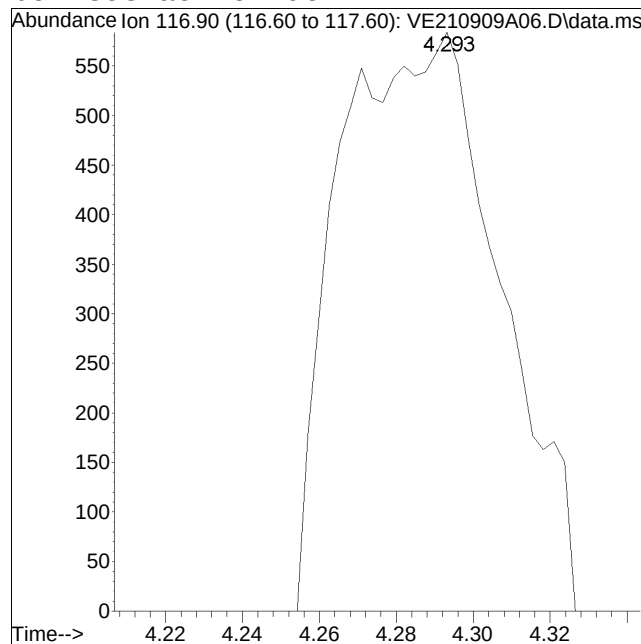
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A06.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 12:59 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 9/13/2021 11:39 am

Compound #34: Carbon tetrachloride



Original Peak Response = 574

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

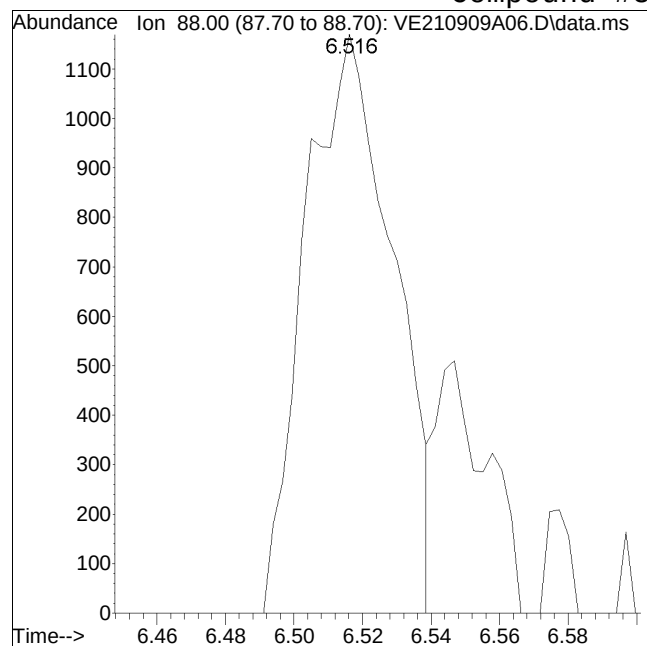


Manual Peak Response = 1686 M1

Manual Integration Report

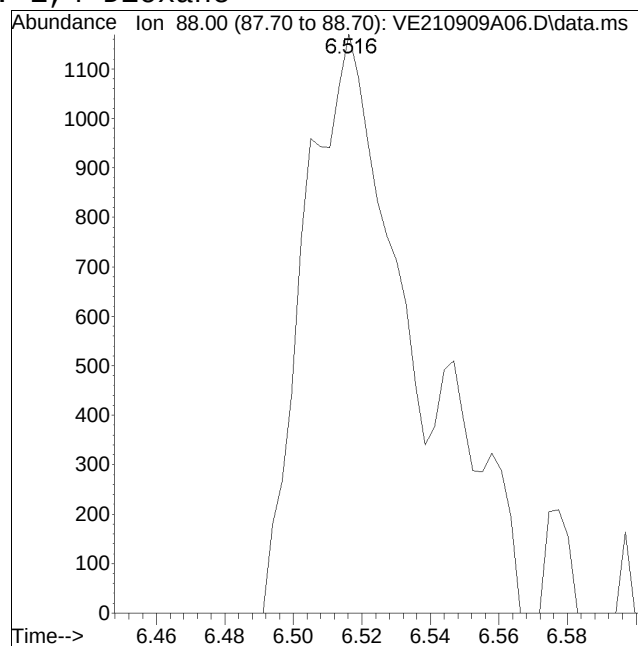
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A06.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 12:59 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 9/13/2021 11:39 am

Compound #57: 1,4-Dioxane



Original Peak Response = 2085

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 2706 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A08.D
 Acq On : 9 Sep 2021 1:43 pm
 Operator : ELAINE:NLK
 Sample : I8260STD2PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 14:16:31 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.409	96	213072	10.000	ug/L	0.00
Standard Area 1 = 231987			Recovery =	91.85%		
59) Chlorobenzene-d5	8.442	117	149528	10.000	ug/L	0.00
Standard Area 1 = 160220			Recovery =	93.33%		
79) 1,4-Dichlorobenzene-d4	9.936	152	73795	10.000	ug/L	0.00
Standard Area 1 = 78675			Recovery =	93.80%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.413	113	50838	10.474	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.74%		
43) 1,2-Dichloroethane-d4	5.058	65	73534	10.309	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.09%		
60) Toluene-d8	7.120	98	204451	9.944	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.44%		
83) 4-Bromofluorobenzene	9.265	95	88201	10.075	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.75%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.921	85	7403	2.001	ug/L	92
3) Chloromethane	1.041	50	10688	2.187	ug/L	98
4) Vinyl chloride	1.088	62	10354	2.274	ug/L	99
5) Bromomethane	1.291	94	4779	2.012	ug/L	86
6) Chloroethane	1.369	64	6799	2.337	ug/L	99
7) Trichlorofluoromethane	1.464	101	11309	2.027	ug/L	96
8) Ethyl ether	1.695	74	5088	2.226	ug/L	77
10) 1,1-Dichloroethene	1.823	96	6579	2.009	ug/L	82
11) Carbon disulfide	1.826	76	18914	2.121	ug/L	100
12) Freon-113	1.859	101	6806	2.027	ug/L	83
13) Iodomethane	1.917	142	5196	1.595	ug/L	87
14) Acrolein	2.101	56	422	2.023	ug/L #	78
15) Methylene chloride	2.299	84	9065M1	2.118	ug/L	
17) Acetone	2.354	43	3863	2.308	ug/L #	87
18) trans-1,2-Dichloroethene	2.440	96	7879M1	2.195	ug/L	
19) Methyl acetate	2.482	43	5127M4	2.045	ug/L	
20) Methyl tert-butyl ether	2.563	73	24483	2.059	ug/L	97
21) tert-Butyl alcohol	2.707	59	3397	8.903	ug/L #	61
22) Diisopropyl ether	2.975	45	31359	1.985	ug/L	89
23) 1,1-Dichloroethane	3.061	63	18004	2.117	ug/L	94
24) Halothane	3.205	117	5364	2.020	ug/L #	66

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A08.D
 Acq On : 9 Sep 2021 1:43 pm
 Operator : ELAINE:NLK
 Sample : I8260STD2PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 14:16:31 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	3.130	53	2260M1	1.798	ug/L	
26) Ethyl tert-butyl ether	3.403	59	31057	1.938	ug/L	95
27) Vinyl acetate	3.423	43	19386	2.222	ug/L #	86
28) cis-1,2-Dichloroethene	3.729	96	8991M1	2.136	ug/L	
29) 2,2-Dichloropropane	3.868	77	12895M1	2.010	ug/L	
30) Bromochloromethane	4.007	128	3158	1.964	ug/L	98
31) Cyclohexane	3.962	56	15382M1	1.942	ug/L	
32) Chloroform	4.168	83	15841M1	2.120	ug/L	
33) Ethyl acetate	4.416	43	7237M4	1.969	ug/L	
34) Carbon tetrachloride	4.282	117	9678	1.919	ug/L	98
35) Tetrahydrofuran	4.366	42	2050M1	2.220	ug/L	
37) 1,1,1-Trichloroethane	4.388	97	12971	1.993	ug/L #	80
39) 2-Butanone	4.613	43	2157	1.275	ug/L #	84
40) 1,1-Dichloropropene	4.555	75	10118M1	1.910	ug/L	
41) Benzene	4.878	78	33613	2.049	ug/L	94
42) tert-Amyl methyl ether	5.103	73	25177	2.055	ug/L	94
44) 1,2-Dichloroethane	5.148	62	13974	2.082	ug/L	98
47) Methyl cyclohexane	5.556	83	12563	1.894	ug/L	85
48) Trichloroethene	5.601	95	7954	1.985	ug/L	91
50) Dibromomethane	6.057	93	4989	2.166	ug/L	88
51) 1,2-Dichloropropane	6.174	63	9380	1.995	ug/L	97
53) 2-Chloroethyl vinyl ether	6.942	63	2633	2.079	ug/L #	75
54) Bromodichloromethane	6.283	83	12192	2.067	ug/L	98
57) 1,4-Dioxane	6.514	88	11941M1	413.368	ug/L	
58) cis-1,3-Dichloropropene	6.945	75	12812	1.932	ug/L	93
61) Toluene	7.170	92	20931	1.977	ug/L	99
62) 4-Methyl-2-pentanone	7.590	58	2747	1.850	ug/L #	93
63) Tetrachloroethene	7.529	166	7245	2.047	ug/L	91
65) trans-1,3-Dichloropropene	7.610	75	12289	2.001	ug/L	90
67) Ethyl methacrylate	7.799	69	9608	1.870	ug/L	97
68) 1,1,2-Trichloroethane	7.743	83	5035	1.814	ug/L	91
69) Chlorodibromomethane	7.877	129	6398	1.840	ug/L	95
70) 1,3-Dichloropropane	7.955	76	12229	1.948	ug/L	97
71) 1,2-Dibromoethane	8.035	107	6148	1.986	ug/L	98
72) 2-Hexanone	8.283	43	4923	1.769	ug/L	100
73) Chlorobenzene	8.453	112	21214	2.028	ug/L	93
74) Ethylbenzene	8.492	91	40856	2.071	ug/L	97
75) 1,1,1,2-Tetrachloroethane	8.511	131	7414	2.030	ug/L	87
76) p/m Xylene	8.600	106	29013	4.142	ug/L	96
77) o Xylene	8.887	106	27903	4.165	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A08.D
 Acq On : 9 Sep 2021 1:43 pm
 Operator : ELAINE:NLK
 Sample : I8260STD2PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 14:16:31 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	8.926	104	48726	4.134	ug/L	98
80)	Bromoform	8.929	173	3804	1.867	ug/L	97
82)	Isopropylbenzene	9.095	105	37097	2.005	ug/L	100
84)	Bromobenzene	9.321	156	8427	2.077	ug/L	97
85)	n-Propylbenzene	9.357	91	44238	1.993	ug/L	98
86)	1,4-Dichlorobutane	9.365	55	16133	2.107	ug/L	99
87)	1,1,2,2-Tetrachloroethane	9.415	83	7060	1.878	ug/L	88
88)	4-Ethyltoluene	9.427	105	34304	1.966	ug/L	98
89)	2-Chlorotoluene	9.441	91	32397	2.008	ug/L	98
90)	1,3,5-Trimethylbenzene	9.482	105	30433	1.970	ug/L	95
91)	1,2,3-Trichloropropane	9.482	75	6880	2.021	ug/L	96
92)	trans-1,4-Dichloro-2-b...	9.516	53	2878	2.019	ug/L #	94
93)	4-Chlorotoluene	9.543	91	29794	2.022	ug/L	95
94)	tert-Butylbenzene	9.666	119	24066	1.931	ug/L #	81
97)	1,2,4-Trimethylbenzene	9.710	105	29896	1.957	ug/L	98
98)	sec-Butylbenzene	9.772	105	36686	1.946	ug/L	99
99)	p-Isopropyltoluene	9.861	119	29971	1.933	ug/L	99
100)	1,3-Dichlorobenzene	9.891	146	15537	2.038	ug/L	97
101)	1,4-Dichlorobenzene	9.944	146	15845	2.067	ug/L #	93
102)	p-Diethylbenzene	10.072	119	16624	1.861	ug/L	96
103)	n-Butylbenzene	10.105	91	26545	1.858	ug/L	99
104)	1,2-Dichlorobenzene	10.186	146	14592	2.009	ug/L	94
105)	1,2,4,5-Tetramethylben...	10.528	119	26760	1.899	ug/L	98
106)	1,2-Dibromo-3-chloropr...	10.642	155	998	1.823	ug/L	79
107)	1,3,5-Trichlorobenzene	10.656	180	9381	1.903	ug/L	97
108)	Hexachlorobutadiene	11.001	225	2864	1.724	ug/L	97
109)	1,2,4-Trichlorobenzene	11.015	180	9352	2.006	ug/L	95
110)	Naphthalene	11.196	128	22460	1.951	ug/L	100
111)	1,2,3-Trichlorobenzene	11.296	180	8216	1.931	ug/L	91

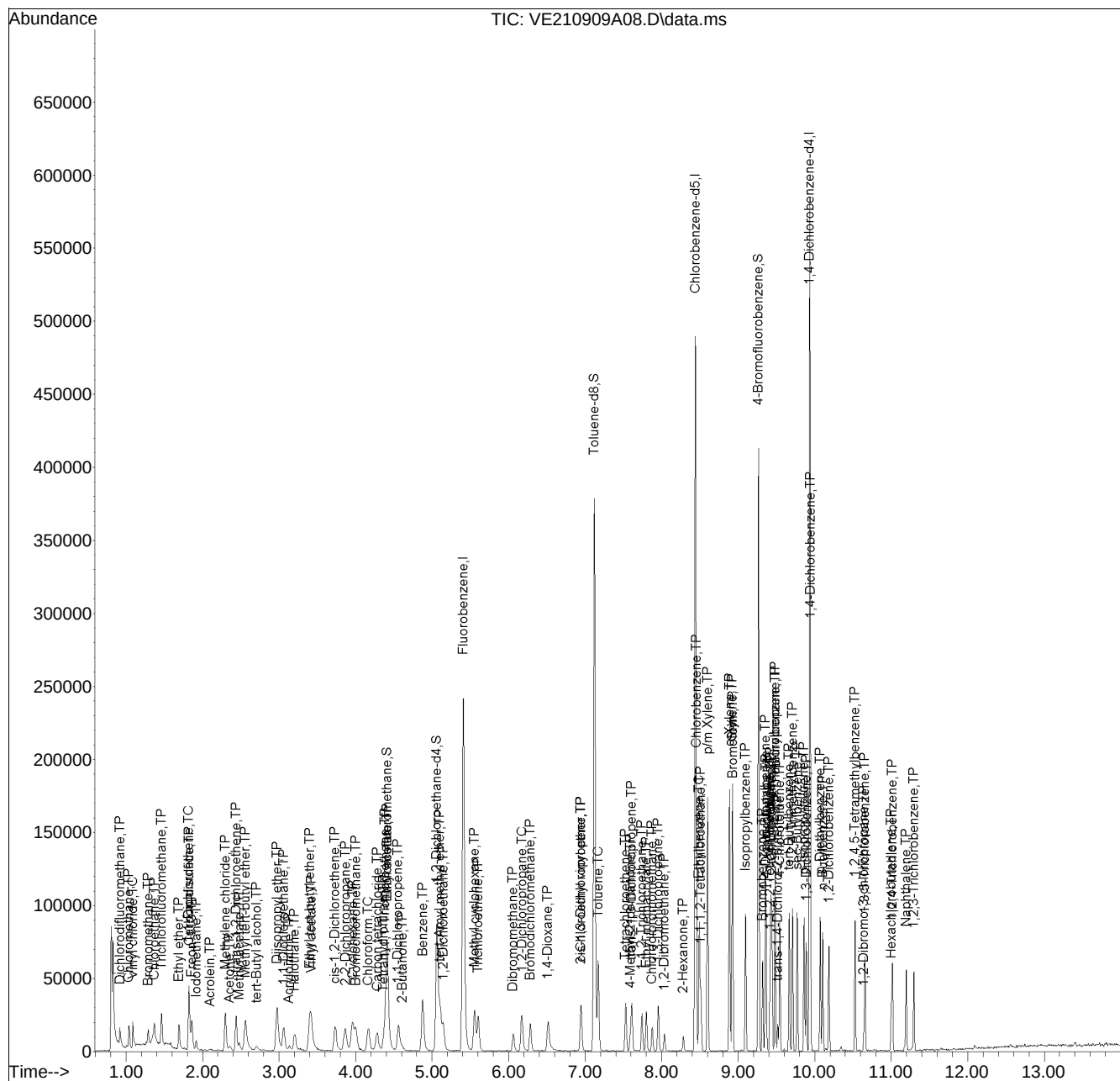
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
Data File : VE210909A08.D
Acq On : 9 Sep 2021 1:43 pm
Operator : ELAINE:NLK
Sample : I8260STD2PPB
Misc : WG1545678,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 14 14:16:31 2021
Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Sep 13 11:35:40 2021
Response via : Initial Calibration

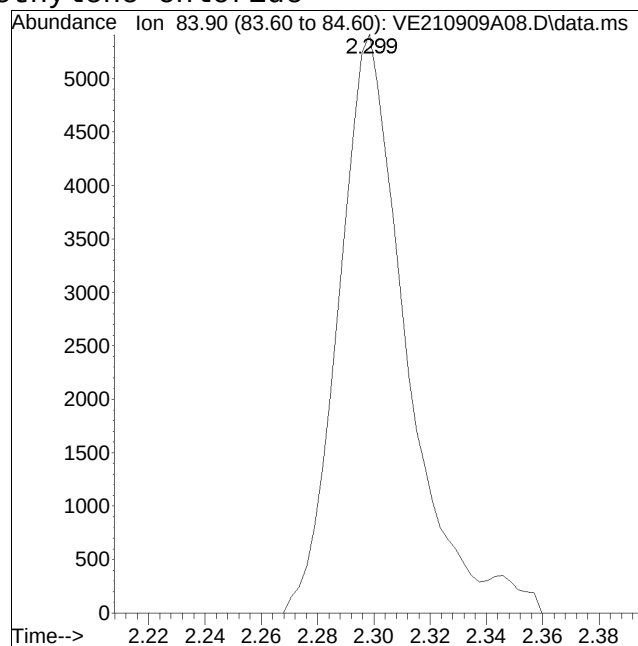
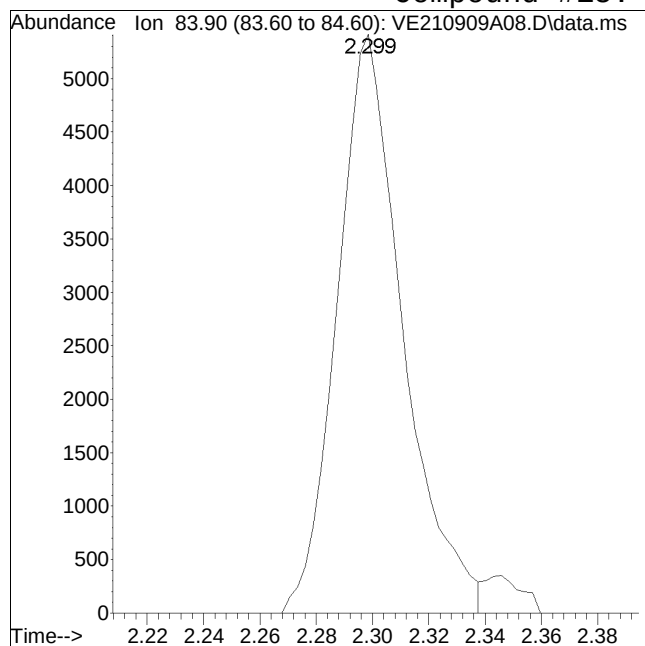
Sub List : 8260-Curve - Megamix plus Diox10909A\VE210909A09.D•



Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A08.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 1:43 pm Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 9/14/2021 2:16 pm

Compound #15: Methylene chloride



Original Peak Response = 8749

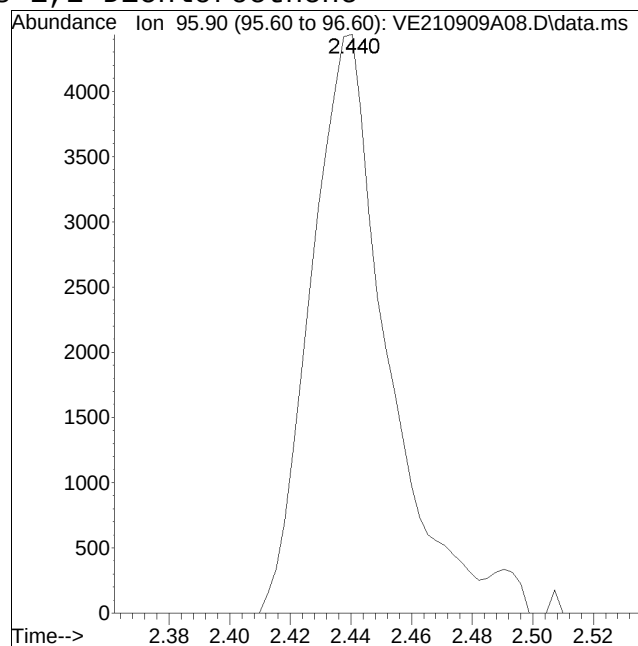
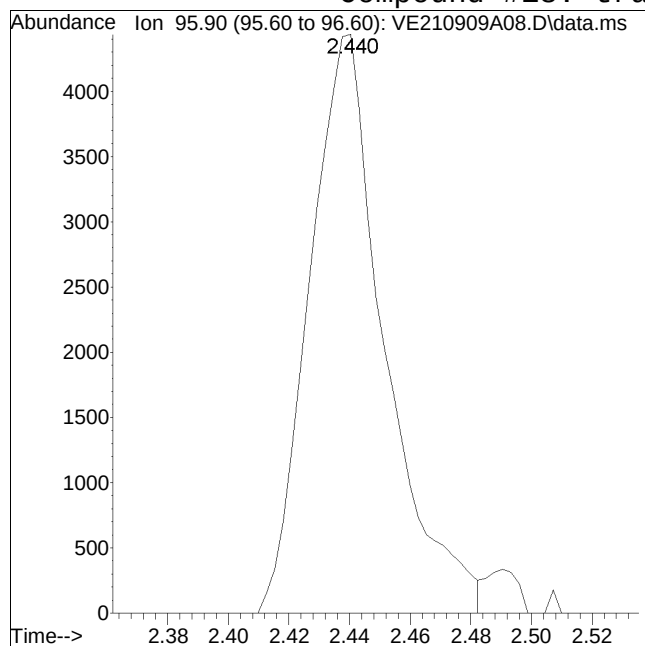
Manual Peak Response = 9065 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A08.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 1:43 pm Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 9/14/2021 2:16 pm

Compound #18: trans-1,2-Dichloroethene



Original Peak Response = 7607

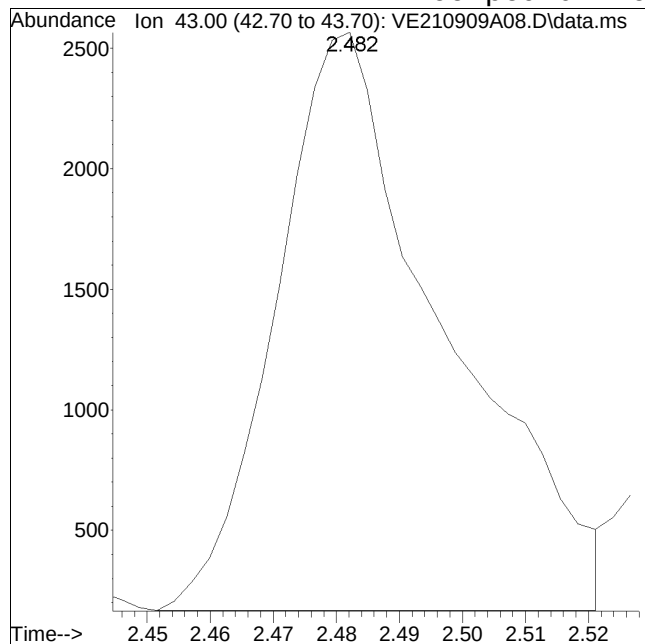
Manual Peak Response = 7879 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

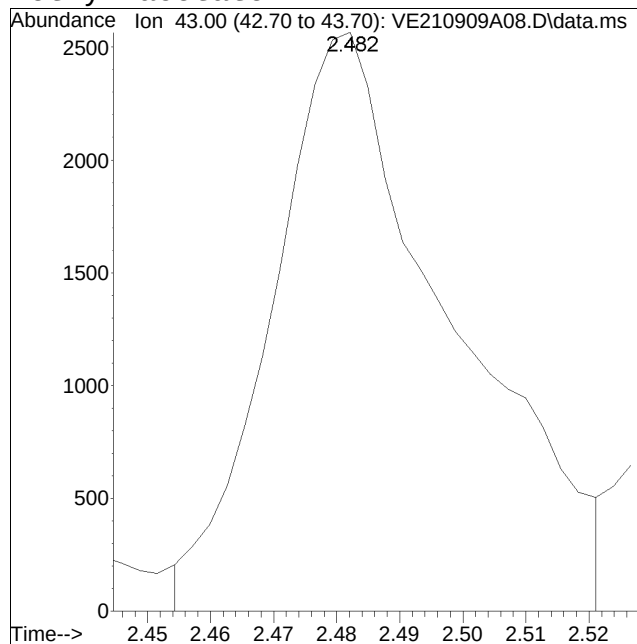
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A08.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 1:43 pm Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 9/14/2021 2:16 pm

Compound #19: Methyl acetate



Original Peak Response = 4464

M4 = Poor automated baseline construction.

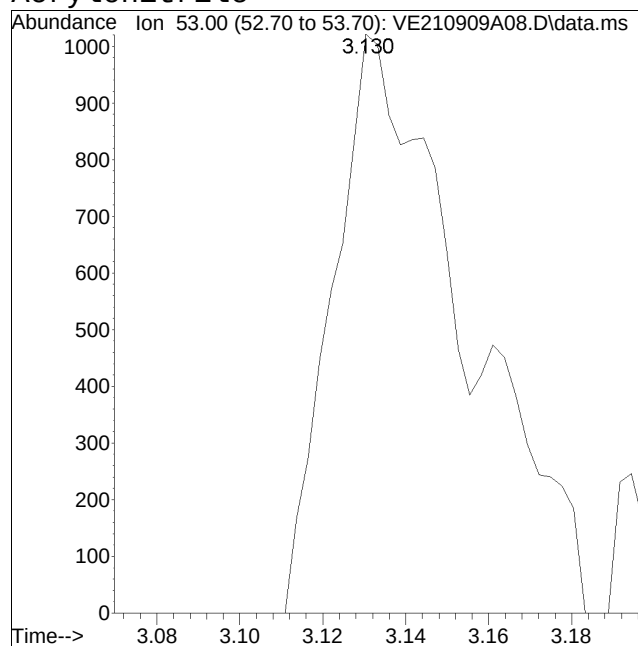
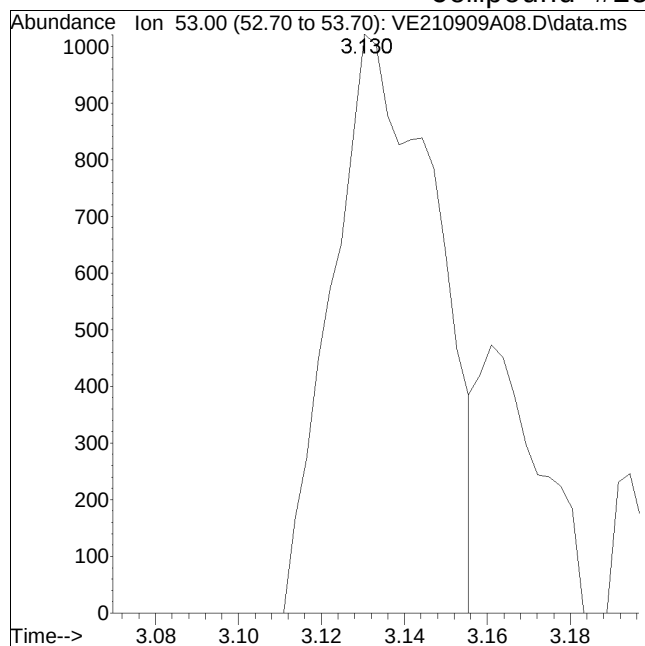


Manual Peak Response = 5127 M4

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A08.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 1:43 pm Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 9/14/2021 2:16 pm

Compound #25: Acrylonitrile



Original Peak Response = 1774

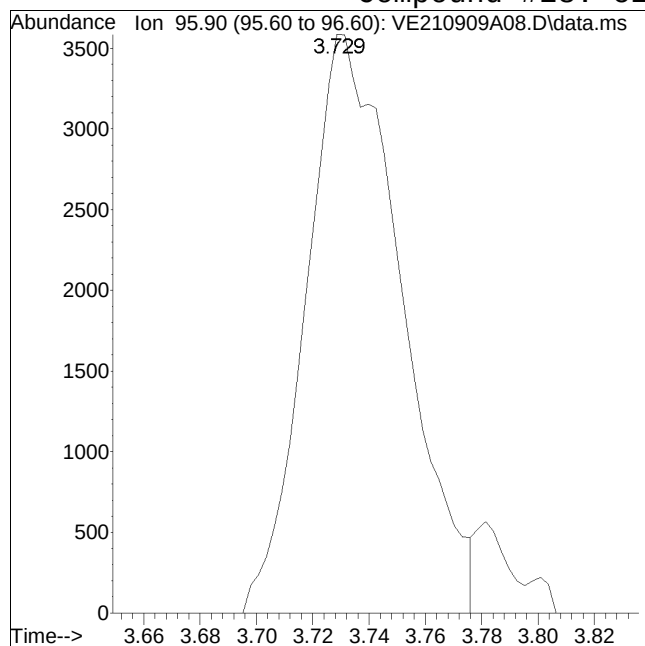
Manual Peak Response = 2260 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

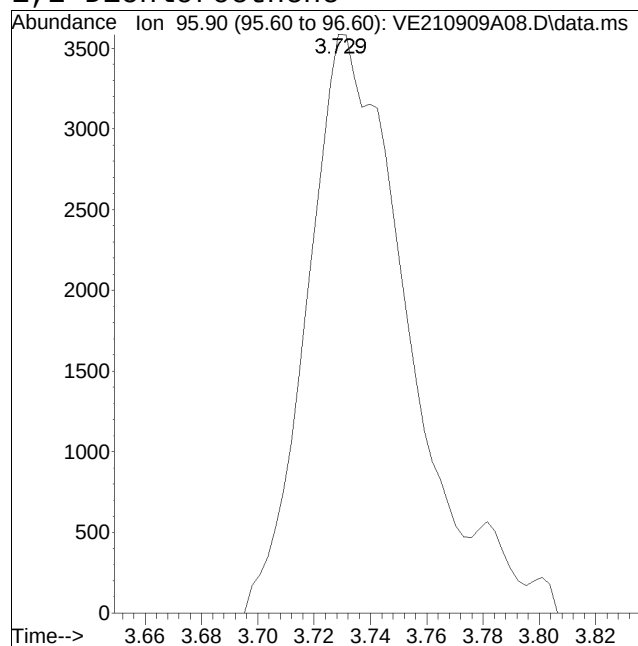
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A08.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 1:43 pm Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 9/14/2021 2:16 pm

Compound #28: cis-1,2-Dichloroethene



Original Peak Response = 8452

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

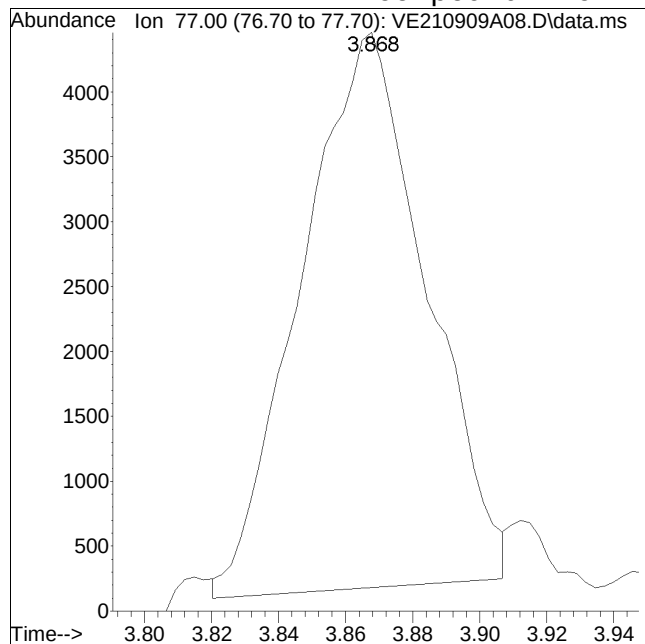


Manual Peak Response = 8991 M1

Manual Integration Report

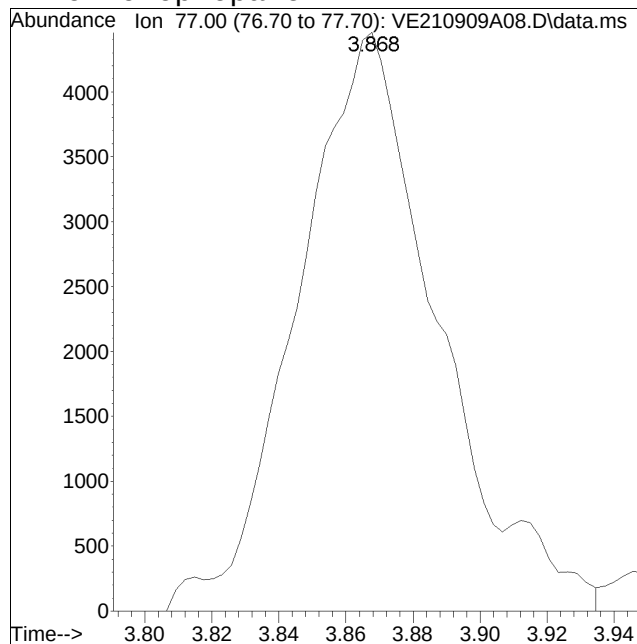
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A08.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 1:43 pm Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 9/14/2021 2:16 pm

Compound #29: 2,2-Dichloropropane



Original Peak Response = 11082

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

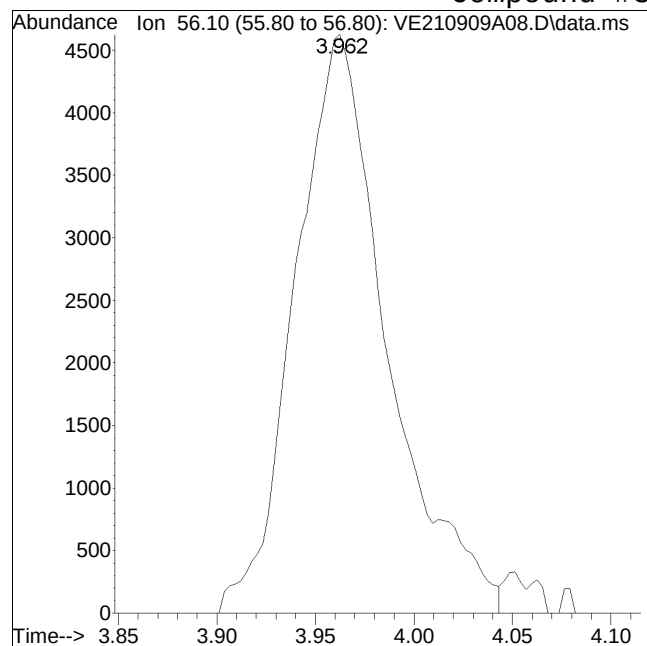


Manual Peak Response = 12895 M1

Manual Integration Report

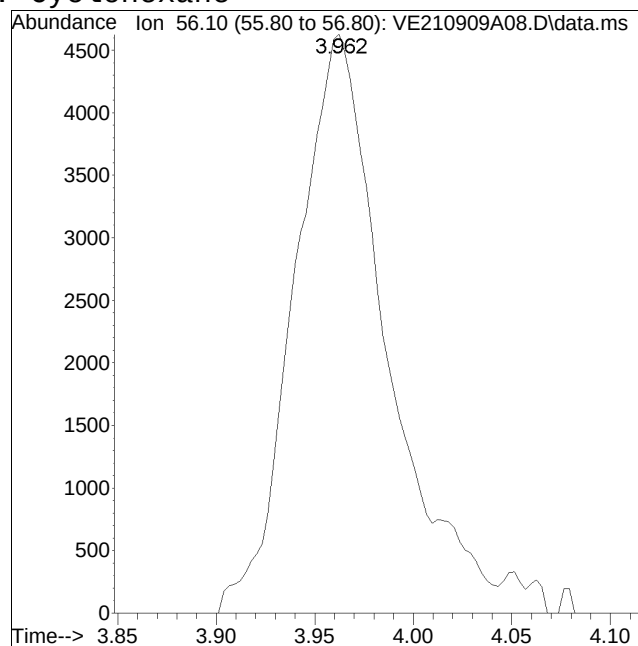
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A08.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 1:43 pm Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 9/14/2021 2:16 pm

Compound #31: Cyclohexane



Original Peak Response = 14974

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

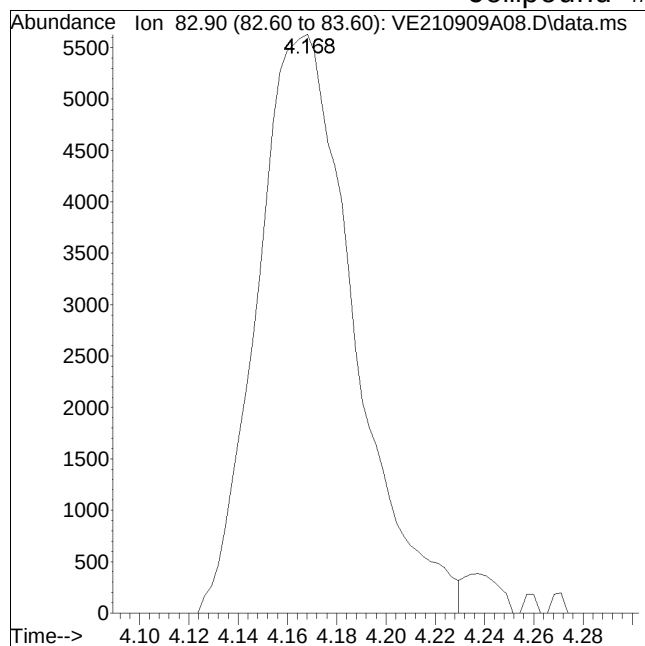


Manual Peak Response = 15382 M1

Manual Integration Report

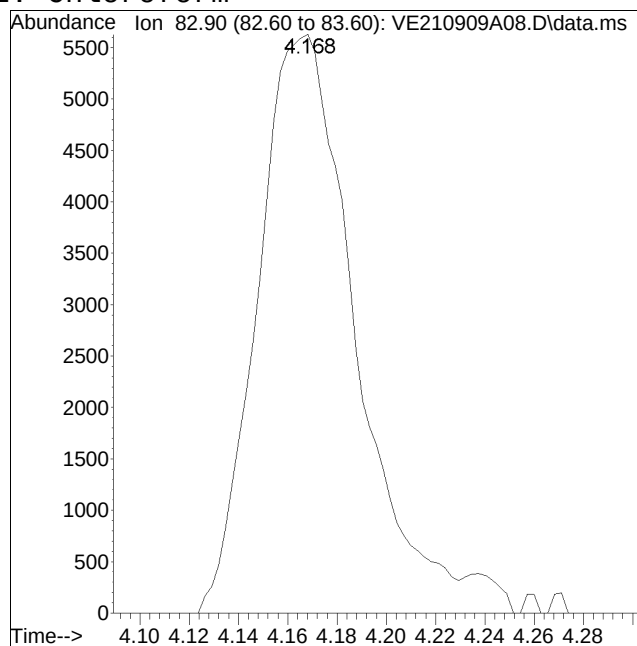
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A08.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 1:43 pm Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 9/14/2021 2:16 pm

Compound #32: Chloroform



Original Peak Response = 15341

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

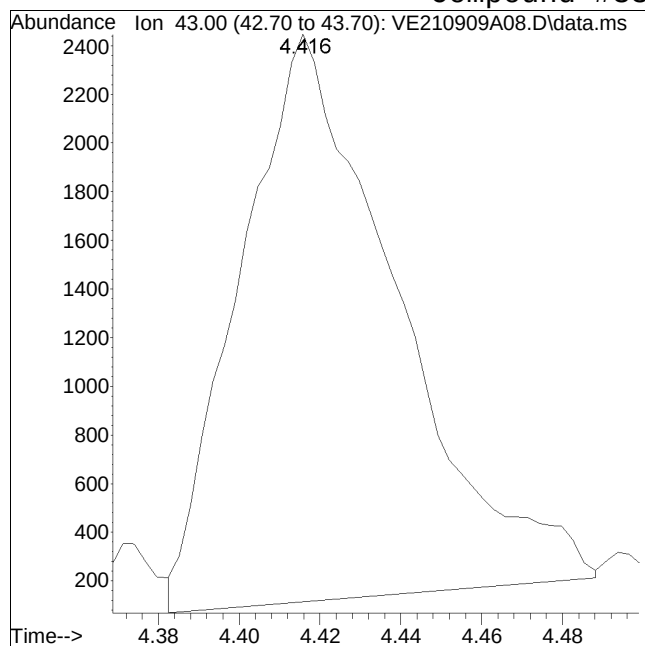


Manual Peak Response = 15841 M1

Manual Integration Report

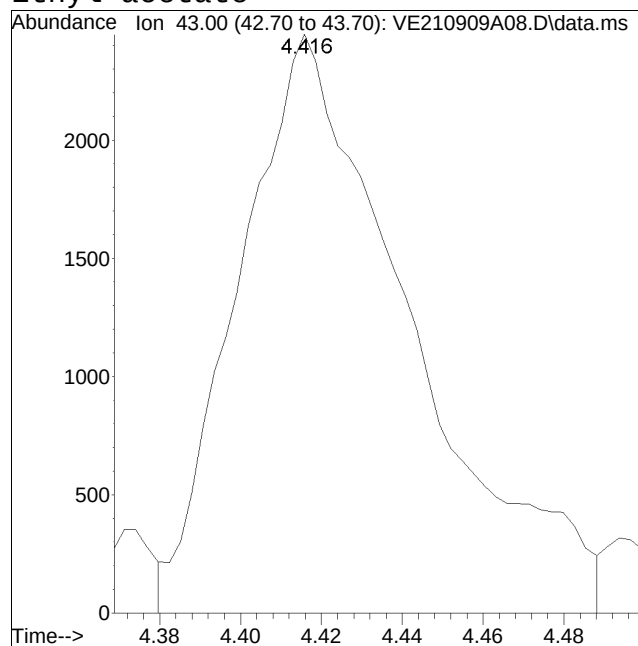
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A08.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 1:43 pm Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 9/14/2021 2:16 pm

Compound #33: Ethyl acetate



Original Peak Response = 6307

M4 = Poor automated baseline construction.

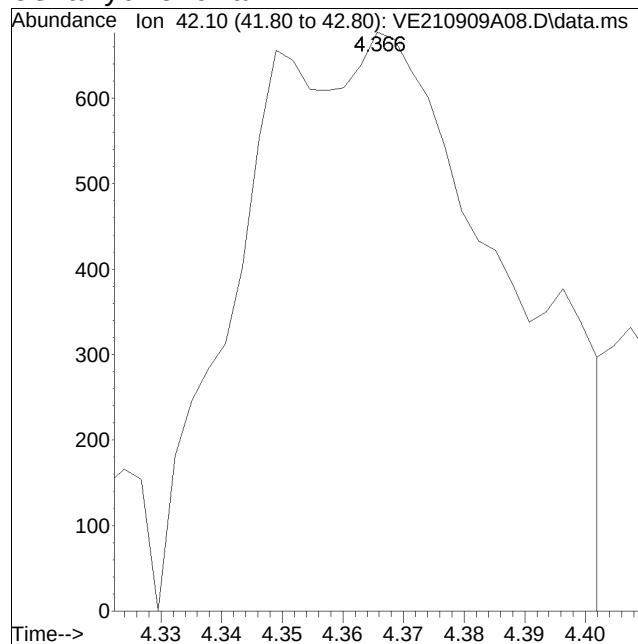
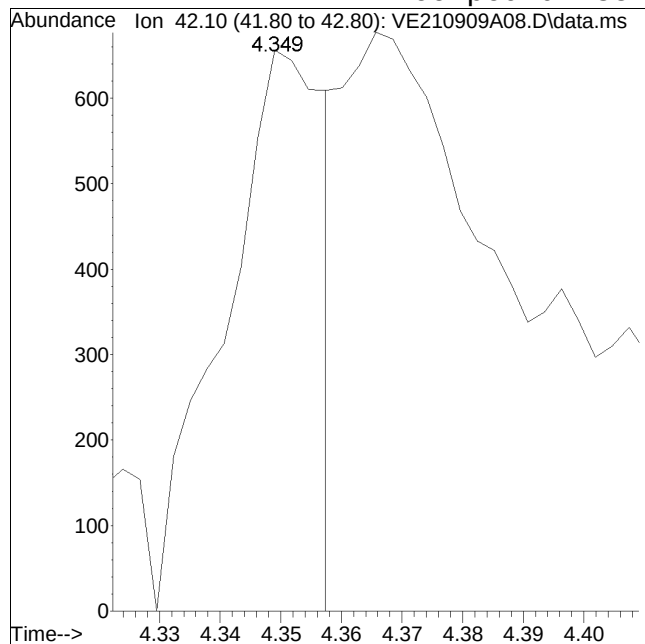


Manual Peak Response = 7237 M4

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A08.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 1:43 pm Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 9/14/2021 2:16 pm

Compound #35: Tetrahydrofuran

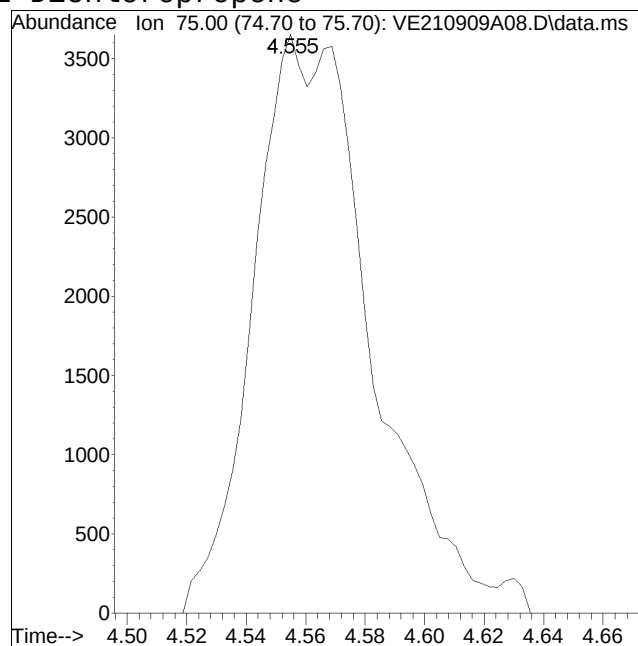
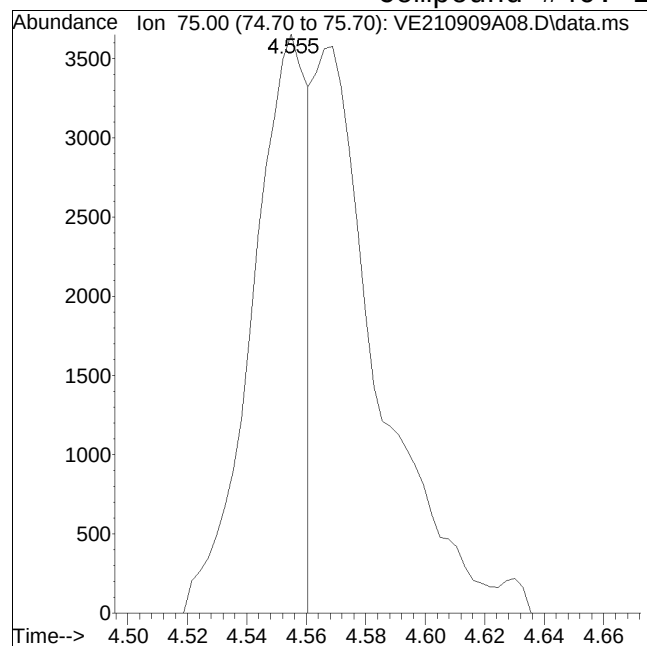


M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A08.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 1:43 pm Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 9/14/2021 2:16 pm

Compound #40: 1,1-Dichloropropene



Original Peak Response = 4700

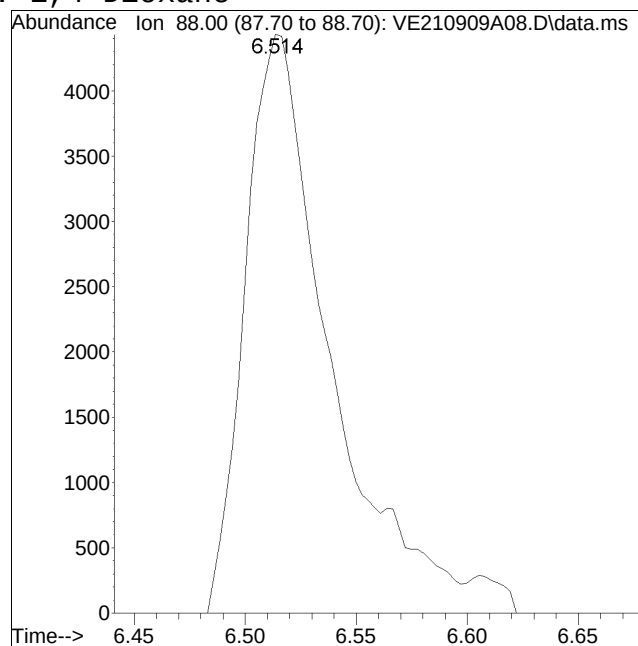
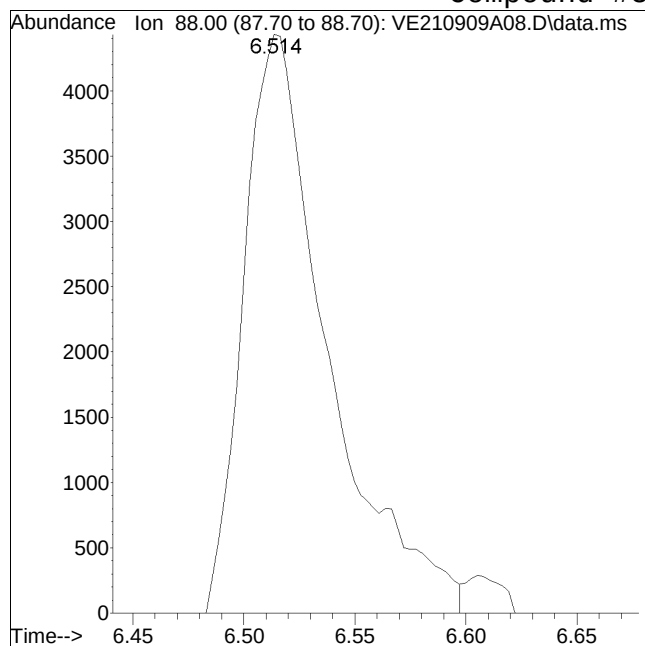
Manual Peak Response = 10118 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A08.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 1:43 pm Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 9/14/2021 2:16 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 11620

Manual Peak Response = 11941 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A09.D
 Acq On : 9 Sep 2021 2:04 pm
 Operator : ELAINE:NLK
 Sample : I8260STD10PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:33 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.409	96	231987	10.000	ug/L	0.00
Standard Area 1 = 231987			Recovery	=	100.00%	
59) Chlorobenzene-d5	8.442	117	160220	10.000	ug/L	0.00
Standard Area 1 = 160220			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	9.936	152	78675	10.000	ug/L	0.00
Standard Area 1 = 78675			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.416	113	52295	9.895	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.95%	
43) 1,2-Dichloroethane-d4	5.061	65	76649	9.870	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.70%	
60) Toluene-d8	7.120	98	218617	9.923	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.23%	
83) 4-Bromofluorobenzene	9.265	95	93529	10.021	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.21%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.921	85	39869	9.899	ug/L	98
3) Chloromethane	1.038	50	52875	9.939	ug/L	99
4) Vinyl chloride	1.091	62	53132	10.718	ug/L	99
5) Bromomethane	1.291	94	22615	8.746	ug/L	97
6) Chloroethane	1.369	64	31673	10.000	ug/L	89
7) Trichlorofluoromethane	1.464	101	59831	9.849	ug/L	96
8) Ethyl ether	1.695	74	24955	10.028	ug/L	80
10) 1,1-Dichloroethene	1.820	96	33225	9.316	ug/L	93
11) Carbon disulfide	1.825	76	96498	9.941	ug/L	100
12) Freon-113	1.862	101	36460	9.974	ug/L	94
13) Iodomethane	1.920	142	31532	8.889	ug/L	85
14) Acrolein	2.098	56	2318	10.207	ug/L	96
15) Methylene chloride	2.298	84	44555	9.560	ug/L	83
17) Acetone	2.360	43	11330	8.384	ug/L	95
18) trans-1,2-Dichloroethene	2.437	96	38035	9.731	ug/L	95
19) Methyl acetate	2.482	43	22738	8.331	ug/L	# 95
20) Methyl tert-butyl ether	2.560	73	125539	9.696	ug/L	98
21) tert-Butyl alcohol	2.710	59	20989M1	50.526	ug/L	
22) Diisopropyl ether	2.974	45	168170	9.777	ug/L	94
23) 1,1-Dichloroethane	3.061	63	91374	9.866	ug/L	98
24) Halothane	3.203	117	28702	9.927	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A09.D
 Acq On : 9 Sep 2021 2:04 pm
 Operator : ELAINE:NLK
 Sample : I8260STD10PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:33 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	3.130	53	12774M1	9.336	ug/L	
26) Ethyl tert-butyl ether	3.406	59	171421	9.824	ug/L	97
27) Vinyl acetate	3.420	43	94286	9.925	ug/L	98
28) cis-1,2-Dichloroethene	3.734	96	44872	9.789	ug/L	85
29) 2,2-Dichloropropane	3.865	77	65701M1	9.404	ug/L	
30) Bromochloromethane	4.004	128	18157M1	10.372	ug/L	
31) Cyclohexane	3.959	56	81543	9.457	ug/L	84
32) Chloroform	4.165	83	81619M1	10.033	ug/L	
33) Ethyl acetate	4.416	43	35322M1	8.827	ug/L	
34) Carbon tetrachloride	4.282	117	54953	10.009	ug/L	98
35) Tetrahydrofuran	4.354	42	8732	8.686	ug/L	# 60
37) 1,1,1-Trichloroethane	4.385	97	71185	10.044	ug/L	# 92
39) 2-Butanone	4.613	43	18005	9.776	ug/L	# 92
40) 1,1-Dichloropropene	4.558	75	58082	10.069	ug/L	98
41) Benzene	4.877	78	174233	9.756	ug/L	96
42) tert-Amyl methyl ether	5.103	73	127373	9.549	ug/L	93
44) 1,2-Dichloroethane	5.145	62	69719	9.542	ug/L	99
47) Methyl cyclohexane	5.556	83	67045	9.283	ug/L	87
48) Trichloroethene	5.601	95	43285	9.922	ug/L	91
50) Dibromomethane	6.060	93	24483	9.765	ug/L	90
51) 1,2-Dichloropropane	6.171	63	49505	9.671	ug/L	95
53) 2-Chloroethyl vinyl ether	6.936	63	13684	9.924	ug/L	92
54) Bromodichloromethane	6.282	83	61822	9.627	ug/L	99
57) 1,4-Dioxane	6.511	88	15117M1	480.645	ug/L	
58) cis-1,3-Dichloropropene	6.947	75	69129	9.574	ug/L	97
61) Toluene	7.170	92	108184	9.537	ug/L	98
62) 4-Methyl-2-pentanone	7.590	58	14815	9.311	ug/L	# 97
63) Tetrachloroethene	7.529	166	35761	9.430	ug/L	100
65) trans-1,3-Dichloropropene	7.610	75	62874	9.556	ug/L	93
67) Ethyl methacrylate	7.799	69	50722	9.215	ug/L	98
68) 1,1,2-Trichloroethane	7.740	83	28288	9.511	ug/L	98
69) Chlorodibromomethane	7.877	129	35393	9.501	ug/L	99
70) 1,3-Dichloropropane	7.955	76	60215	8.950	ug/L	99
71) 1,2-Dibromoethane	8.035	107	31161	9.393	ug/L	99
72) 2-Hexanone	8.283	43	26177	8.776	ug/L	98
73) Chlorobenzene	8.453	112	109161	9.737	ug/L	98
74) Ethylbenzene	8.492	91	212234	10.041	ug/L	97
75) 1,1,1,2-Tetrachloroethane	8.511	131	37257	9.522	ug/L	94
76) p/m Xylene	8.600	106	152700	20.348	ug/L	92
77) o Xylene	8.887	106	144871	20.183	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A09.D
 Acq On : 9 Sep 2021 2:04 pm
 Operator : ELAINE:NLK
 Sample : I8260STD10PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:33 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	8.923	104	259902	20.580	ug/L	95
80)	Bromoform	8.928	173	20368	9.377	ug/L	98
82)	Isopropylbenzene	9.095	105	198041	10.038	ug/L	99
84)	Bromobenzene	9.321	156	42191	9.754	ug/L	98
85)	n-Propylbenzene	9.357	91	243531	10.292	ug/L	98
86)	1,4-Dichlorobutane	9.365	55	79580	9.750	ug/L	99
87)	1,1,2,2-Tetrachloroethane	9.415	83	39290	9.806	ug/L	99
88)	4-Ethyltoluene	9.426	105	187759	10.093	ug/L	99
89)	2-Chlorotoluene	9.440	91	173083	10.061	ug/L	94
90)	1,3,5-Trimethylbenzene	9.482	105	165201	10.031	ug/L	97
91)	1,2,3-Trichloropropane	9.482	75	35313	9.729	ug/L	94
92)	trans-1,4-Dichloro-2-b...	9.515	53	14666	9.648	ug/L	92
93)	4-Chlorotoluene	9.543	91	155749	9.915	ug/L	95
94)	tert-Butylbenzene	9.666	119	134199	10.102	ug/L #	86
97)	1,2,4-Trimethylbenzene	9.710	105	164721	10.114	ug/L	99
98)	sec-Butylbenzene	9.771	105	203175	10.108	ug/L	99
99)	p-Isopropyltoluene	9.860	119	163583	9.895	ug/L	97
100)	1,3-Dichlorobenzene	9.891	146	80598	9.918	ug/L	97
101)	1,4-Dichlorobenzene	9.944	146	81053	9.918	ug/L	95
102)	p-Diethylbenzene	10.072	119	93402	9.806	ug/L	97
103)	n-Butylbenzene	10.105	91	152686	10.025	ug/L	98
104)	1,2-Dichlorobenzene	10.186	146	75787	9.789	ug/L	95
105)	1,2,4,5-Tetramethylben...	10.528	119	147867	9.841	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.642	155	5332	9.136	ug/L	91
107)	1,3,5-Trichlorobenzene	10.656	180	51578	9.816	ug/L	94
108)	Hexachlorobutadiene	11.001	225	16185	9.136	ug/L	99
109)	1,2,4-Trichlorobenzene	11.015	180	46189	9.292	ug/L	99
110)	Naphthalene	11.196	128	116609	9.501	ug/L	100
111)	1,2,3-Trichlorobenzene	11.296	180	43423	9.575	ug/L	98

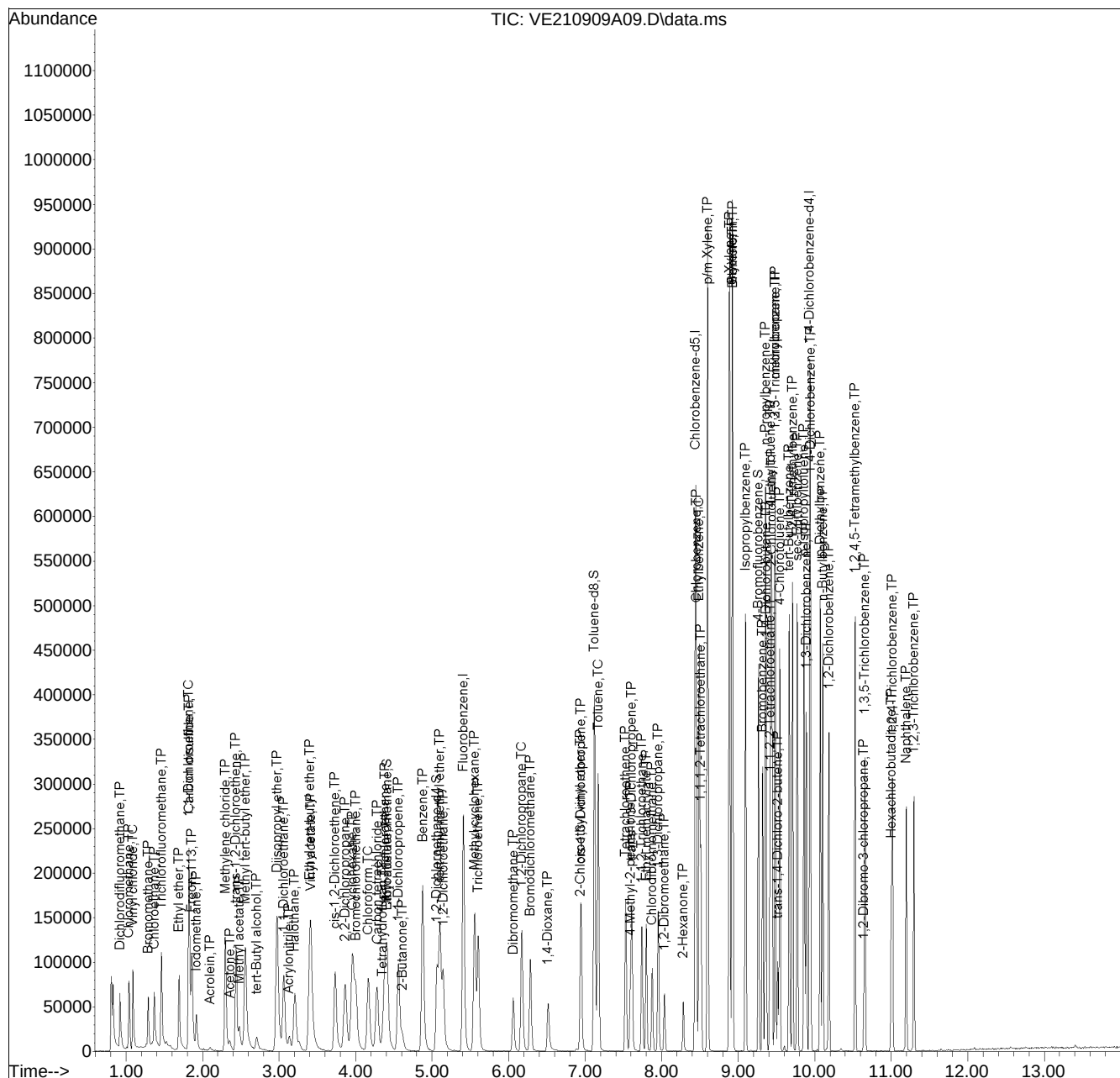
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
Data File : VE210909A09.D
Acq On : 9 Sep 2021 2:04 pm
Operator : ELAINE:NLK
Sample : I8260STD10PPB
Misc : WG1545678,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:33 2021
Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Sep 13 11:35:40 2021
Response via : Initial Calibration

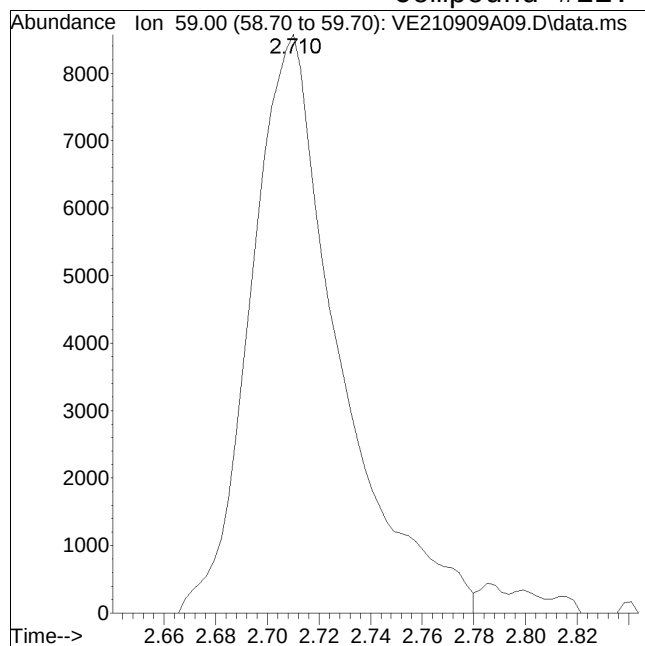
Sub List : 8260-Curve - Megamix plus Diox10909A\VE210909A09.D•



Manual Integration Report

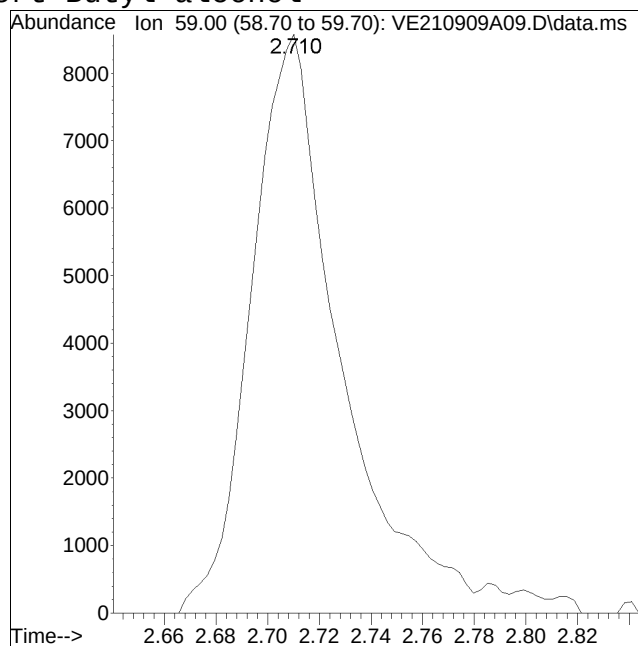
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A09.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 2:04 pm Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 9/13/2021 11:39 am

Compound #21: tert-Butyl alcohol



Original Peak Response = 20306

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

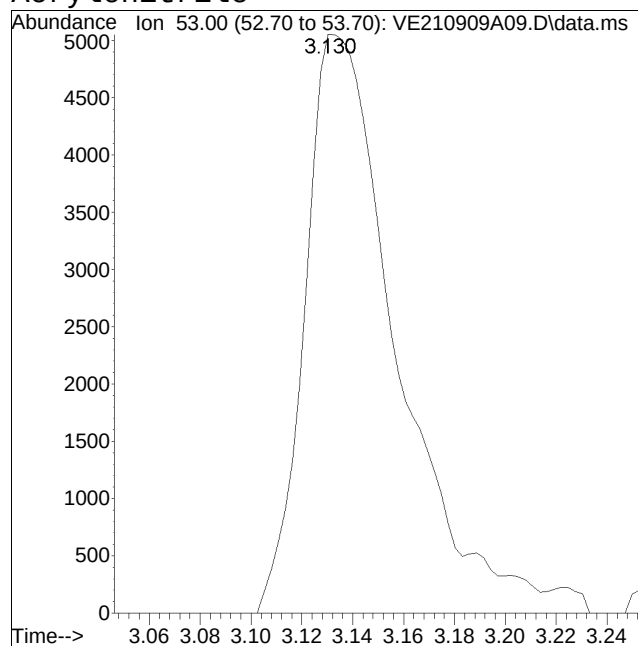
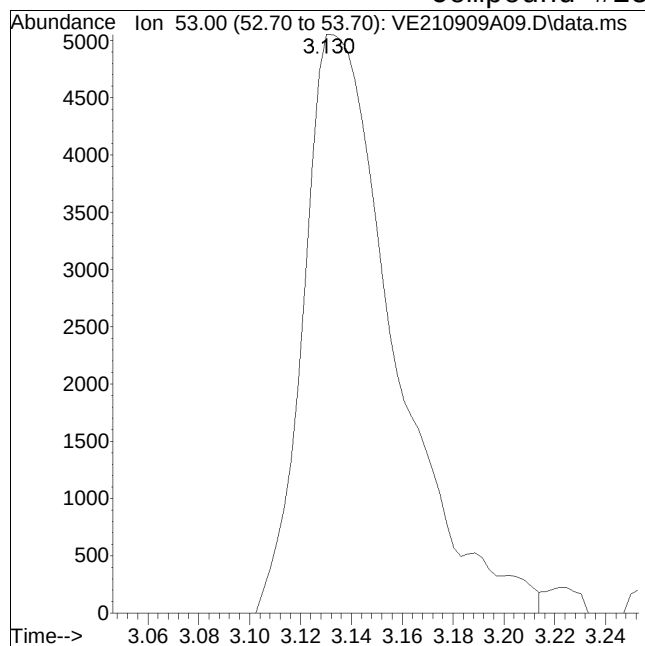


Manual Peak Response = 20989 M1

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A09.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 2:04 pm Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 9/13/2021 11:39 am

Compound #25: Acrylonitrile



Original Peak Response = 12575

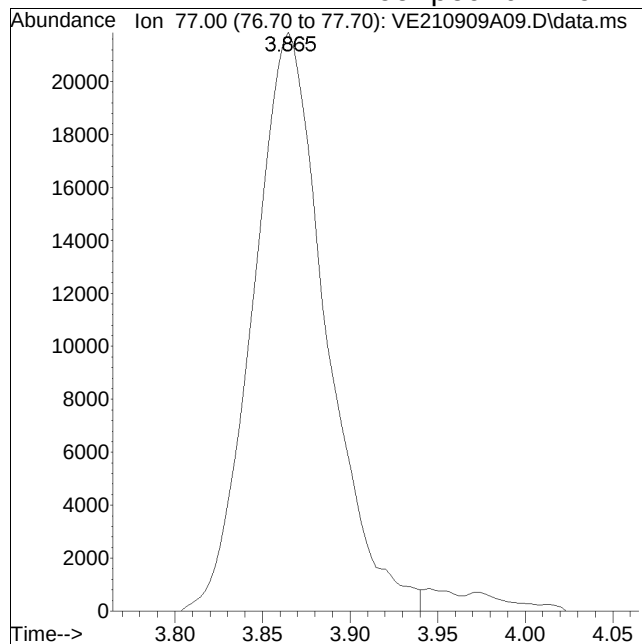
Manual Peak Response = 12774 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

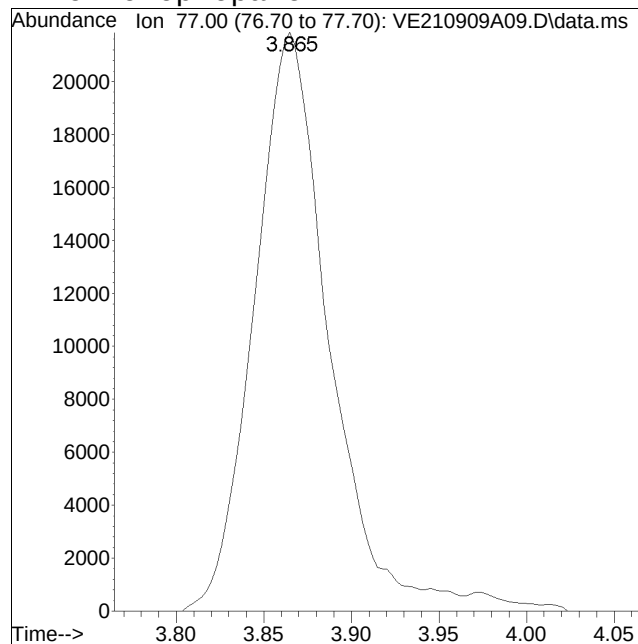
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A09.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 2:04 pm Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 9/13/2021 11:39 am

Compound #29: 2,2-Dichloropropane



Original Peak Response = 63295

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

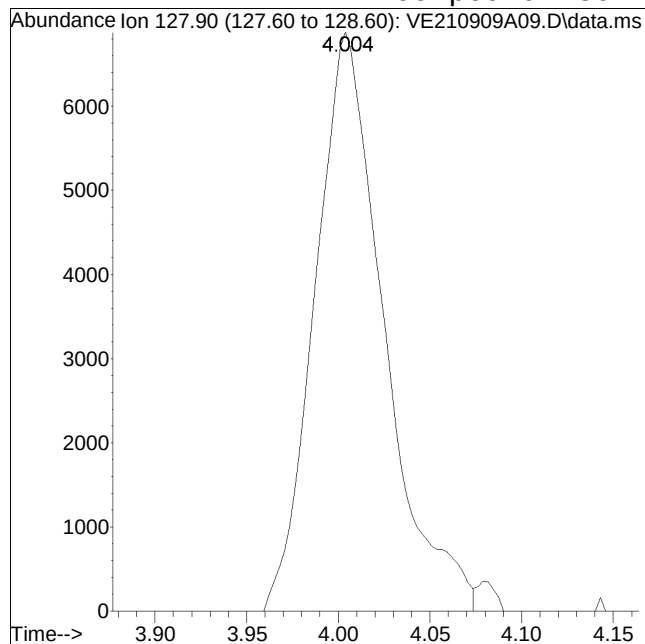


Manual Peak Response = 65701 M1

Manual Integration Report

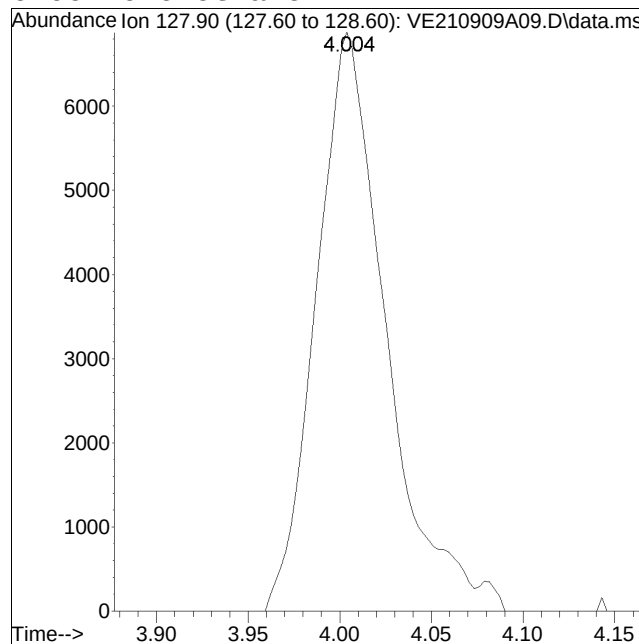
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A09.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 2:04 pm Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 9/13/2021 11:39 am

Compound #30: Bromochloromethane



Original Peak Response = 17918

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

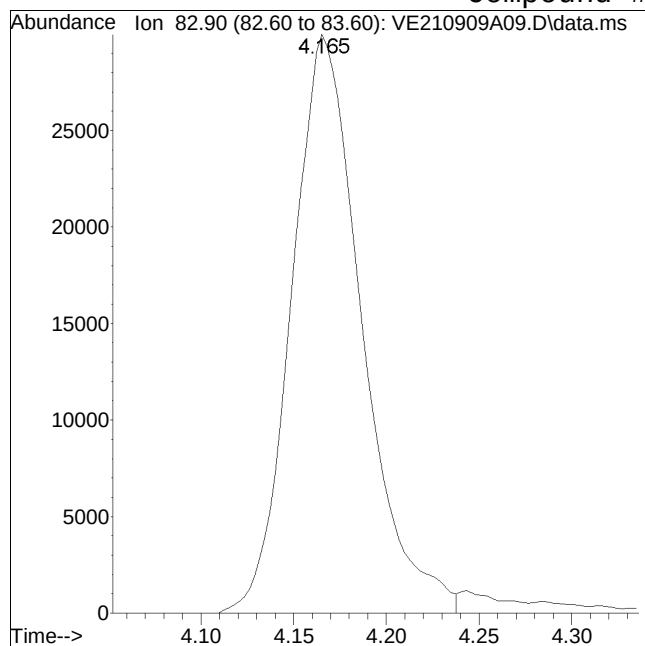


Manual Peak Response = 18157 M1

Manual Integration Report

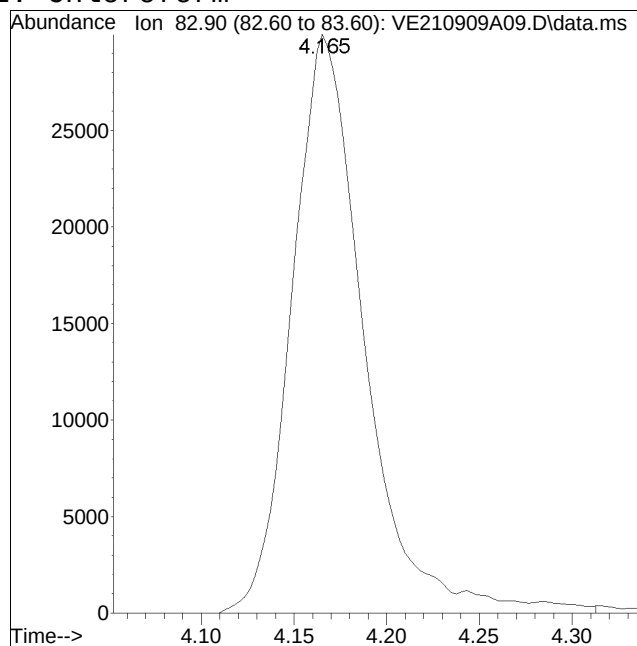
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A09.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 2:04 pm Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 9/13/2021 11:39 am

Compound #32: Chloroform



Original Peak Response = 78767

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

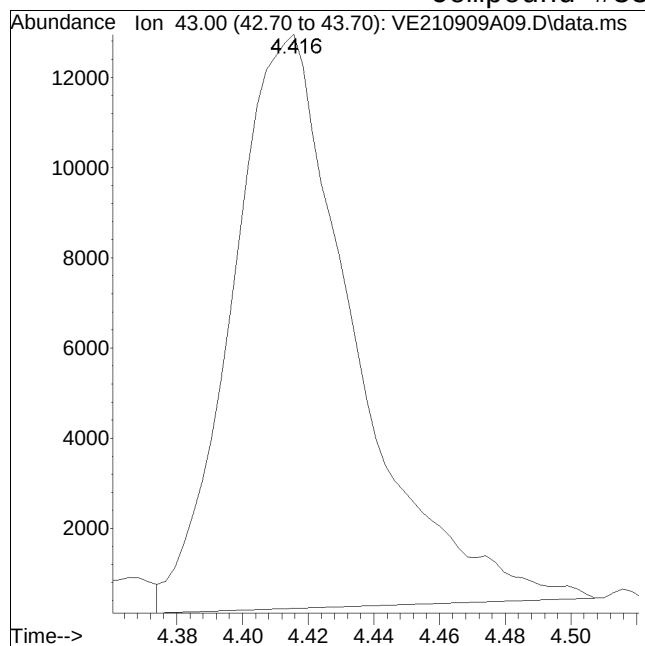


Manual Peak Response = 81619 M1

Manual Integration Report

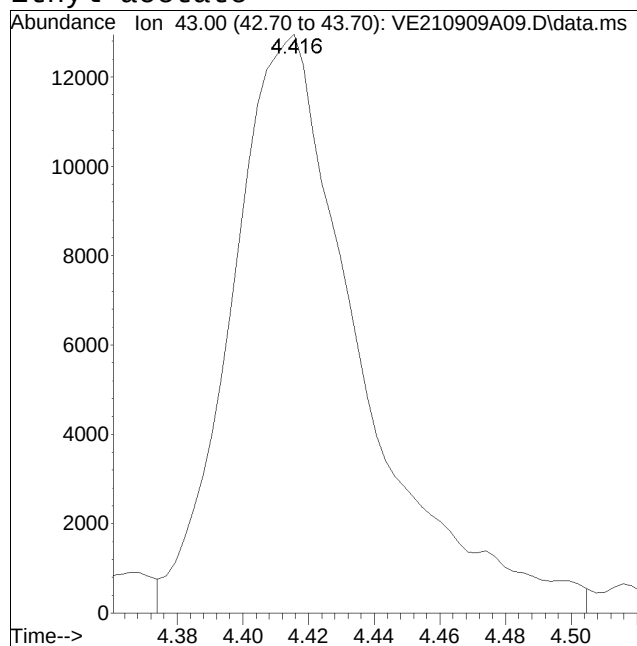
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A09.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 2:04 pm Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 9/13/2021 11:39 am

Compound #33: Ethyl acetate



Original Peak Response = 33079

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

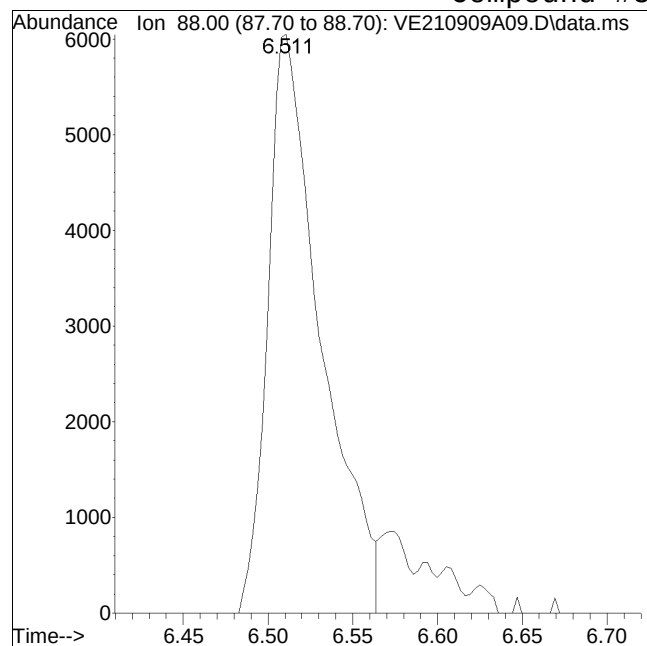


Manual Peak Response = 35322 M1

Manual Integration Report

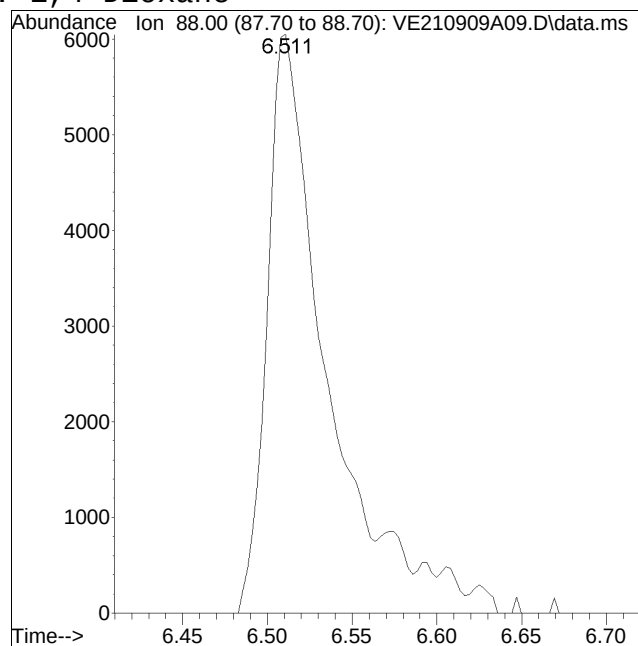
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A09.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 2:04 pm Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 9/13/2021 11:39 am

Compound #57: 1,4-Dioxane



Original Peak Response = 13148

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 15117 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A10.D
 Acq On : 9 Sep 2021 2:26 pm
 Operator : ELAINE:NLK
 Sample : I8260STD30PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:39 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.409	96	231614	10.000	ug/L	0.00
Standard Area 1 = 231987			Recovery =	99.84%		
59) Chlorobenzene-d5	8.442	117	154443	10.000	ug/L	0.00
Standard Area 1 = 160220			Recovery =	96.39%		
79) 1,4-Dichlorobenzene-d4	9.936	152	75692	10.000	ug/L	0.00
Standard Area 1 = 78675			Recovery =	96.21%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.413	113	52550	9.960	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.60%		
43) 1,2-Dichloroethane-d4	5.064	65	75430	9.729	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.29%		
60) Toluene-d8	7.120	98	214346	10.093	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.93%		
83) 4-Bromofluorobenzene	9.265	95	92279	10.277	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.77%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.921	85	130161	32.369	ug/L	98
3) Chloromethane	1.038	50	159039	29.943	ug/L	100
4) Vinyl chloride	1.091	62	162847	32.904	ug/L	98
5) Bromomethane	1.291	94	72456	28.067	ug/L	93
6) Chloroethane	1.369	64	99674	31.521	ug/L	97
7) Trichlorofluoromethane	1.461	101	194121	32.005	ug/L	99
8) Ethyl ether	1.695	74	79191	31.875	ug/L	79
10) 1,1-Dichloroethene	1.820	96	110789	31.115	ug/L	89
11) Carbon disulfide	1.825	76	299829	30.938	ug/L	99
12) Freon-113	1.859	101	117434	32.177	ug/L	96
13) Iodomethane	1.920	142	109574	30.940	ug/L	90
14) Acrolein	2.098	56	6835	30.147	ug/L	90
15) Methylene chloride	2.298	84	136145	29.259	ug/L	83
17) Acetone	2.357	43	34379	28.090	ug/L	98
18) trans-1,2-Dichloroethene	2.438	96	116642	29.891	ug/L	96
19) Methyl acetate	2.479	43	70156	25.745	ug/L #	95
20) Methyl tert-butyl ether	2.557	73	398733	30.846	ug/L	96
21) tert-Butyl alcohol	2.707	59	62974	151.840	ug/L #	78
22) Diisopropyl ether	2.972	45	518830	30.212	ug/L	94
23) 1,1-Dichloroethane	3.061	63	284324	30.750	ug/L	98
24) Halothane	3.208	117	91715	31.773	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A10.D
 Acq On : 9 Sep 2021 2:26 pm
 Operator : ELAINE:NLK
 Sample : I8260STD30PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:39 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	3.136	53	38999	28.548	ug/L	94
26) Ethyl tert-butyl ether	3.403	59	530653	30.460	ug/L	91
27) Vinyl acetate	3.422	43	250434	26.404	ug/L	99
28) cis-1,2-Dichloroethene	3.734	96	132738	29.005	ug/L	89
29) 2,2-Dichloropropane	3.865	77	224148	32.134	ug/L	96
30) Bromochloromethane	4.004	128	53450	30.581	ug/L	85
31) Cyclohexane	3.959	56	276026	32.064	ug/L	85
32) Chloroform	4.165	83	244962	30.160	ug/L	98
33) Ethyl acetate	4.410	43	111231M1	27.840	ug/L	
34) Carbon tetrachloride	4.279	117	179910	32.820	ug/L	98
35) Tetrahydrofuran	4.346	42	29200	29.092	ug/L #	64
37) 1,1,1-Trichloroethane	4.385	97	223065	31.526	ug/L #	94
39) 2-Butanone	4.605	43	63712	34.648	ug/L #	83
40) 1,1-Dichloropropene	4.560	75	189299	32.869	ug/L	99
41) Benzene	4.878	78	551034	30.904	ug/L	96
42) tert-Amyl methyl ether	5.100	73	403262	30.281	ug/L	92
44) 1,2-Dichloroethane	5.145	62	216906	29.734	ug/L	99
47) Methyl cyclohexane	5.556	83	231849	32.152	ug/L	85
48) Trichloroethene	5.604	95	145675	33.448	ug/L	88
50) Dibromomethane	6.060	93	73106	29.205	ug/L	94
51) 1,2-Dichloropropane	6.171	63	154215	30.176	ug/L	96
53) 2-Chloroethyl vinyl ether	6.936	63	41156	29.897	ug/L	97
54) Bromodichloromethane	6.283	83	193419	30.168	ug/L	99
57) 1,4-Dioxane	6.514	88	19670M1	626.415	ug/L	
58) cis-1,3-Dichloropropene	6.945	75	222233	30.828	ug/L	97
61) Toluene	7.170	92	339928	31.087	ug/L	95
62) 4-Methyl-2-pentanone	7.590	58	47876	31.215	ug/L #	98
63) Tetrachloroethene	7.532	166	114781	31.401	ug/L	100
65) trans-1,3-Dichloropropene	7.610	75	202143	31.872	ug/L	95
67) Ethyl methacrylate	7.799	69	162020	30.537	ug/L	98
68) 1,1,2-Trichloroethane	7.741	83	89123	31.087	ug/L	98
69) Chlorodibromomethane	7.877	129	113458	31.596	ug/L	96
70) 1,3-Dichloropropane	7.955	76	195424	30.132	ug/L	100
71) 1,2-Dibromoethane	8.035	107	99247	31.034	ug/L	99
72) 2-Hexanone	8.280	43	93337	32.464	ug/L	98
73) Chlorobenzene	8.453	112	337399	31.220	ug/L	99
74) Ethylbenzene	8.492	91	658447	32.317	ug/L	97
75) 1,1,1,2-Tetrachloroethane	8.511	131	117229	31.082	ug/L	95
76) p/m Xylene	8.600	106	472158	65.269	ug/L	93
77) o Xylene	8.887	106	449523	64.970	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A10.D
 Acq On : 9 Sep 2021 2:26 pm
 Operator : ELAINE:NLK
 Sample : I8260STD30PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:39 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	8.926	104	803193	65.980	ug/L	96
80)	Bromoform	8.929	173	66122	31.641	ug/L	95
82)	Isopropylbenzene	9.098	105	612316	32.259	ug/L	99
84)	Bromobenzene	9.321	156	130522	31.365	ug/L	99
85)	n-Propylbenzene	9.357	91	755112	33.170	ug/L	98
86)	1,4-Dichlorobutane	9.365	55	243972	31.068	ug/L	100
87)	1,1,2,2-Tetrachloroethane	9.413	83	118202	30.662	ug/L	99
88)	4-Ethyltoluene	9.427	105	588899	32.905	ug/L	100
89)	2-Chlorotoluene	9.440	91	535154	32.334	ug/L	94
90)	1,3,5-Trimethylbenzene	9.482	105	515549	32.538	ug/L	96
91)	1,2,3-Trichloropropane	9.482	75	110264	31.577	ug/L	95
92)	trans-1,4-Dichloro-2-b...	9.516	53	42950	29.368	ug/L	87
93)	4-Chlorotoluene	9.543	91	478477	31.662	ug/L	95
94)	tert-Butylbenzene	9.666	119	424771	33.235	ug/L	88
97)	1,2,4-Trimethylbenzene	9.710	105	509890	32.541	ug/L	98
98)	sec-Butylbenzene	9.772	105	637919	32.986	ug/L	98
99)	p-Isopropyltoluene	9.861	119	523181	32.893	ug/L	98
100)	1,3-Dichlorobenzene	9.891	146	247416	31.645	ug/L	97
101)	1,4-Dichlorobenzene	9.944	146	244966	31.156	ug/L	95
102)	p-Diethylbenzene	10.072	119	300463	32.788	ug/L	97
103)	n-Butylbenzene	10.105	91	489252	33.390	ug/L	97
104)	1,2-Dichlorobenzene	10.186	146	234142	31.434	ug/L	97
105)	1,2,4,5-Tetramethylben...	10.528	119	470636	32.556	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.642	155	17200	30.634	ug/L	91
107)	1,3,5-Trichlorobenzene	10.656	180	157691	31.193	ug/L	98
108)	Hexachlorobutadiene	11.001	225	54432	31.938	ug/L	96
109)	1,2,4-Trichlorobenzene	11.015	180	149023	31.162	ug/L	98
110)	Naphthalene	11.196	128	367856	31.153	ug/L	100
111)	1,2,3-Trichlorobenzene	11.296	180	136767	31.347	ug/L	98

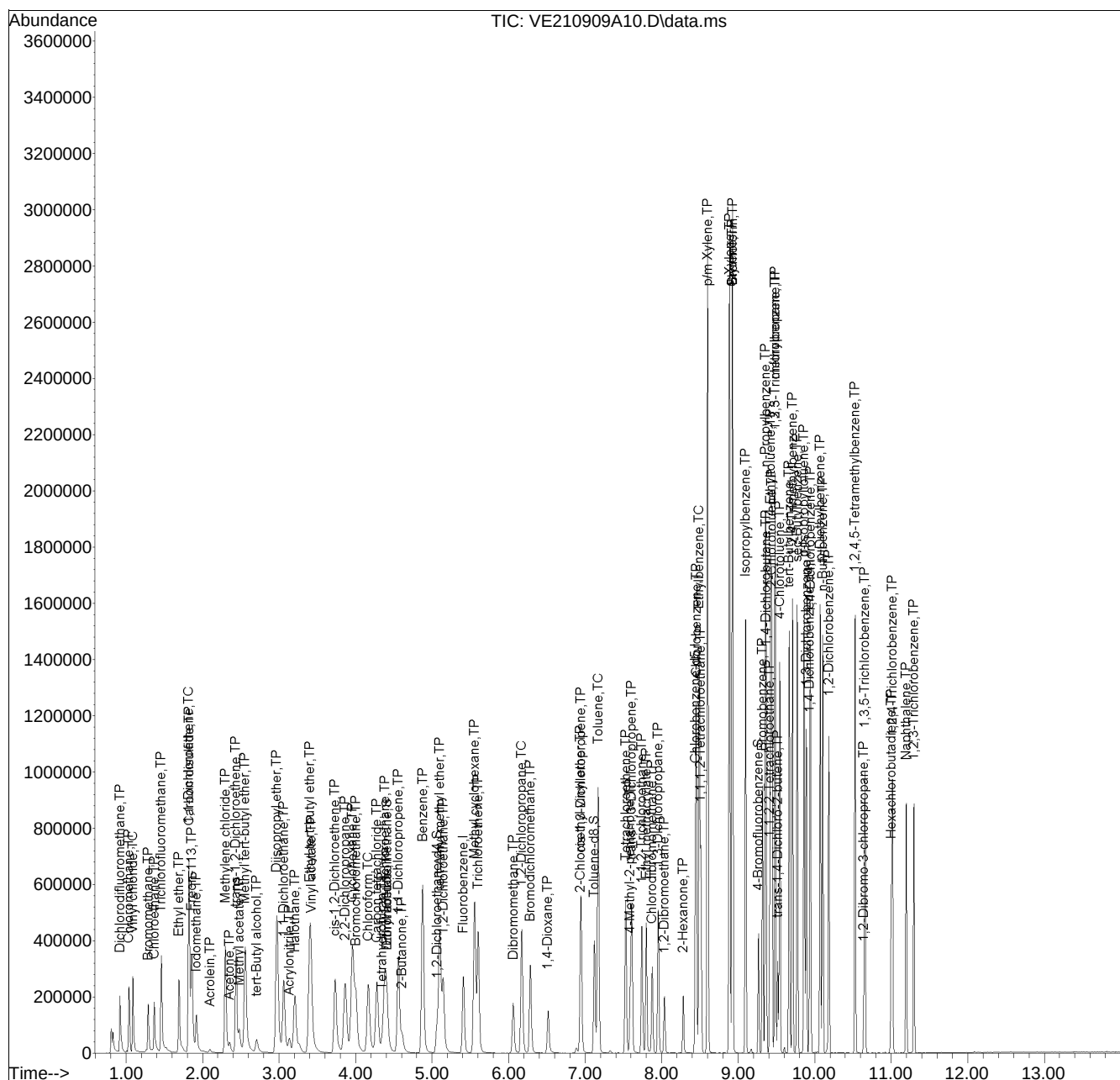
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A10.D
 Acq On : 9 Sep 2021 2:26 pm
 Operator : ELAINE:NLK
 Sample : I8260STD30PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:39 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

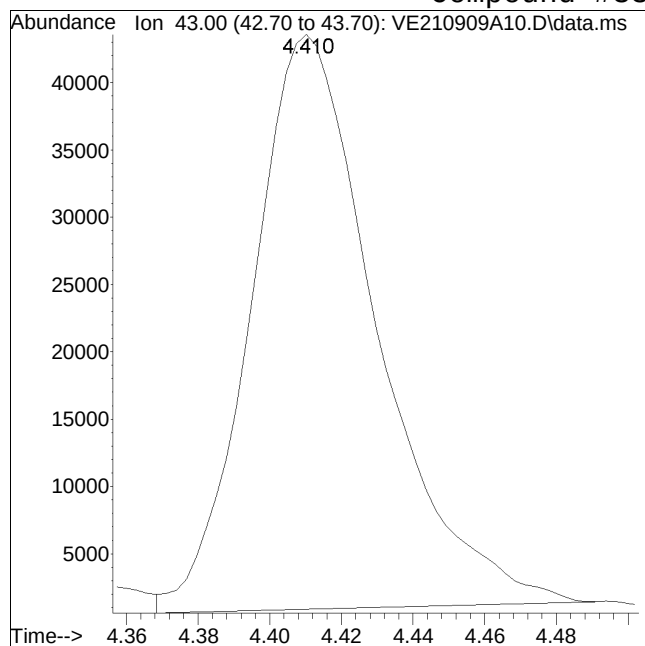
Sub List : 8260-Curve - Megamix plus Diox10909A\VE210909A09.D•



Manual Integration Report

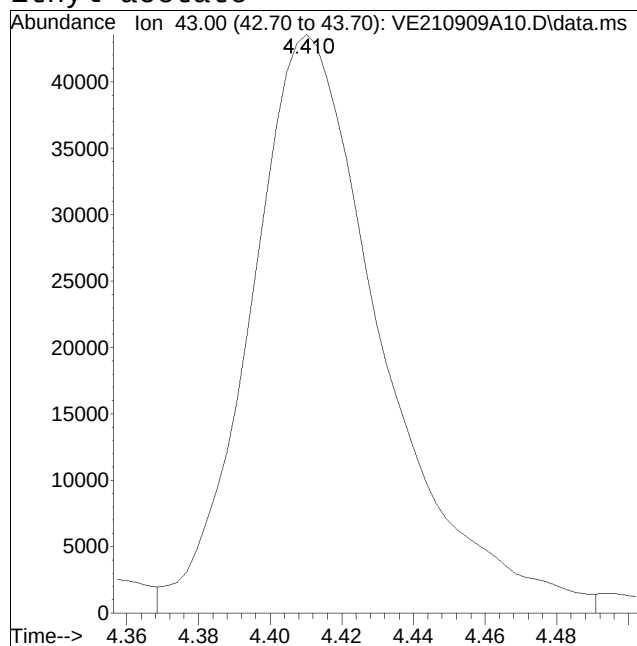
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A10.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 2:26 pm Instrument : Elaine
Sample : I8260STD30PPB Quant Date : 9/13/2021 11:39 am

Compound #33: Ethyl acetate



Original Peak Response = 103750

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

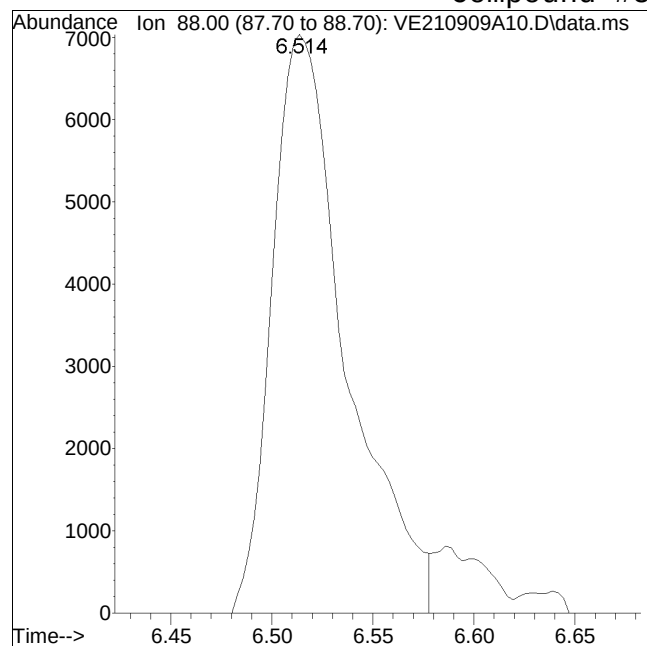


Manual Peak Response = 111231 M1

Manual Integration Report

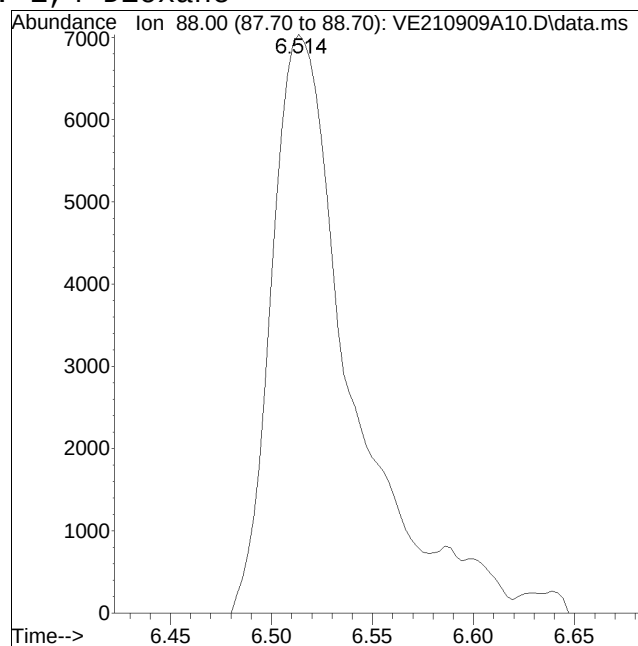
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A10.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 2:26 pm Instrument : Elaine
Sample : I8260STD30PPB Quant Date : 9/13/2021 11:39 am

Compound #57: 1,4-Dioxane



Original Peak Response = 17898

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 19670 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A11.D
 Acq On : 9 Sep 2021 2:48 pm
 Operator : ELAINE:NLK
 Sample : I8260STD80PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:46 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.409	96	238548	10.000	ug/L	0.00
Standard Area 1 = 231987			Recovery =	102.83%		
59) Chlorobenzene-d5	8.441	117	159772	10.000	ug/L	0.00
Standard Area 1 = 160220			Recovery =	99.72%		
79) 1,4-Dichlorobenzene-d4	9.935	152	78985	10.000	ug/L	0.00
Standard Area 1 = 78675			Recovery =	100.39%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.413	113	51076	9.399	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.99%		
43) 1,2-Dichloroethane-d4	5.064	65	77336	9.685	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.85%		
60) Toluene-d8	7.123	98	220406	10.032	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.32%		
83) 4-Bromofluorobenzene	9.265	95	93123	9.938	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.38%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.921	85	361822	87.365	ug/L	97
3) Chloromethane	1.041	50	429714	78.554	ug/L	100
4) Vinyl chloride	1.091	62	446053	87.507	ug/L	98
5) Bromomethane	1.291	94	211982	79.728	ug/L	95
6) Chloroethane	1.369	64	254095	78.021	ug/L	98
7) Trichlorofluoromethane	1.461	101	546547	87.490	ug/L	97
8) Ethyl ether	1.694	74	207314	81.019	ug/L	83
10) 1,1-Dichloroethene	1.820	96	317654	86.620	ug/L	86
11) Carbon disulfide	1.825	76	821630	82.315	ug/L	95
12) Freon-113	1.859	101	331648	88.229	ug/L	93
13) Iodomethane	1.920	142	327721	89.847	ug/L	87
14) Acrolein	2.095	56	18316	78.437	ug/L	93
15) Methylene chloride	2.298	84	365620	76.290	ug/L	83
17) Acetone	2.354	43	101750	83.116	ug/L	98
18) trans-1,2-Dichloroethene	2.437	96	321584	80.014	ug/L	96
19) Methyl acetate	2.479	43	210672	75.062	ug/L #	92
20) Methyl tert-butyl ether	2.557	73	1082914	81.340	ug/L	97
21) tert-Butyl alcohol	2.710	59	178484	417.842	ug/L #	74
22) Diisopropyl ether	2.972	45	1442725	81.570	ug/L	94
23) 1,1-Dichloroethane	3.061	63	771741	81.040	ug/L	100
24) Halothane	3.205	117	253178	85.159	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A11.D
 Acq On : 9 Sep 2021 2:48 pm
 Operator : ELAINE:NLK
 Sample : I8260STD80PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:46 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	3.136	53	107986	76.751	ug/L	97
26) Ethyl tert-butyl ether	3.403	59	1496660	83.413	ug/L	90
27) Vinyl acetate	3.419	43	676632	69.266	ug/L	98
28) cis-1,2-Dichloroethene	3.734	96	371088	78.731	ug/L	86
29) 2,2-Dichloropropane	3.865	77	599684	83.472	ug/L	96
30) Bromochloromethane	4.007	128	145817	81.002	ug/L	83
31) Cyclohexane	3.959	56	770997	86.959	ug/L	83
32) Chloroform	4.168	83	663214	79.281	ug/L	98
33) Ethyl acetate	4.410	43	304719	74.052	ug/L #	95
34) Carbon tetrachloride	4.279	117	494497	87.587	ug/L	98
35) Tetrahydrofuran	4.346	42	80722	78.087	ug/L #	66
37) 1,1,1-Trichloroethane	4.382	97	618509	84.873	ug/L #	94
39) 2-Butanone	4.605	43	172175	90.910	ug/L #	82
40) 1,1-Dichloropropene	4.560	75	529989	89.349	ug/L	100
41) Benzene	4.877	78	1523763	82.975	ug/L	96
42) tert-Amyl methyl ether	5.100	73	1128172	82.252	ug/L	91
44) 1,2-Dichloroethane	5.144	62	597383	79.511	ug/L	99
47) Methyl cyclohexane	5.556	83	660110	88.880	ug/L	87
48) Trichloroethene	5.604	95	408000	90.955	ug/L	89
50) Dibromomethane	6.060	93	199173	77.254	ug/L	95
51) 1,2-Dichloropropane	6.171	63	432527	82.175	ug/L	95
53) 2-Chloroethyl vinyl ether	6.936	63	118444	83.539	ug/L	95
54) Bromodichloromethane	6.282	83	536057	81.179	ug/L	99
57) 1,4-Dioxane	6.513	88	26476M1	818.651	ug/L	
58) cis-1,3-Dichloropropene	6.945	75	627113	84.464	ug/L	100
61) Toluene	7.170	92	941754	83.253	ug/L	95
62) 4-Methyl-2-pentanone	7.590	58	136183	85.831	ug/L #	98
63) Tetrachloroethene	7.532	166	324758	85.881	ug/L	99
65) trans-1,3-Dichloropropene	7.610	75	575728	87.747	ug/L	96
67) Ethyl methacrylate	7.799	69	465431	84.797	ug/L	99
68) 1,1,2-Trichloroethane	7.740	83	251490	84.795	ug/L	97
69) Chlorodibromomethane	7.877	129	320383	86.244	ug/L	98
70) 1,3-Dichloropropane	7.955	76	548671	81.776	ug/L	99
71) 1,2-Dibromoethane	8.035	107	281972	85.231	ug/L	99
72) 2-Hexanone	8.283	43	246237	82.787	ug/L	95
73) Chlorobenzene	8.453	112	905128	80.961	ug/L	99
74) Ethylbenzene	8.492	91	1790931	84.967	ug/L	98
75) 1,1,1,2-Tetrachloroethane	8.511	131	327290	83.882	ug/L	95
76) p/m Xylene	8.600	106	1264200	168.929	ug/L	94
77) o Xylene	8.887	106	1209202	168.938	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A11.D
 Acq On : 9 Sep 2021 2:48 pm
 Operator : ELAINE:NLK
 Sample : I8260STD80PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:46 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	8.926	104	2130081	169.145	ug/L	97
80)	Bromoform	8.931	173	187674	86.063	ug/L	96
82)	Isopropylbenzene	9.098	105	1658427	83.728	ug/L	99
84)	Bromobenzene	9.321	156	349975	80.593	ug/L	97
85)	n-Propylbenzene	9.357	91	2030933	85.495	ug/L	100
86)	1,4-Dichlorobutane	9.365	55	666338	81.315	ug/L	99
87)	1,1,2,2-Tetrachloroethane	9.415	83	326472	81.158	ug/L	98
88)	4-Ethyltoluene	9.429	105	1571382	84.141	ug/L	98
89)	2-Chlorotoluene	9.440	91	1432226	82.928	ug/L	95
90)	1,3,5-Trimethylbenzene	9.482	105	1379170	83.416	ug/L	95
91)	1,2,3-Trichloropropane	9.482	75	302148	82.920	ug/L	94
92)	trans-1,4-Dichloro-2-b...	9.515	53	123928	81.207	ug/L #	85
93)	4-Chlorotoluene	9.543	91	1286346	81.571	ug/L	95
94)	tert-Butylbenzene	9.668	119	1123225	84.220	ug/L #	86
97)	1,2,4-Trimethylbenzene	9.710	105	1375779	84.141	ug/L	98
98)	sec-Butylbenzene	9.771	105	1721672	85.314	ug/L	99
99)	p-Isopropyltoluene	9.860	119	1419265	85.511	ug/L	98
100)	1,3-Dichlorobenzene	9.891	146	669114	82.013	ug/L	98
101)	1,4-Dichlorobenzene	9.944	146	669456	81.594	ug/L	96
102)	p-Diethylbenzene	10.072	119	817144	85.453	ug/L	98
103)	n-Butylbenzene	10.105	91	1345680	88.010	ug/L	97
104)	1,2-Dichlorobenzene	10.186	146	634683	81.656	ug/L	96
105)	1,2,4,5-Tetramethylben...	10.528	119	1282064	84.989	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.645	155	47508	81.086	ug/L	93
107)	1,3,5-Trichlorobenzene	10.659	180	433555	82.186	ug/L	97
108)	Hexachlorobutadiene	11.001	225	156271	87.868	ug/L	95
109)	1,2,4-Trichlorobenzene	11.015	180	407552	81.669	ug/L	97
110)	Naphthalene	11.196	128	1007227	81.744	ug/L	100
111)	1,2,3-Trichlorobenzene	11.296	180	375125	82.393	ug/L	98

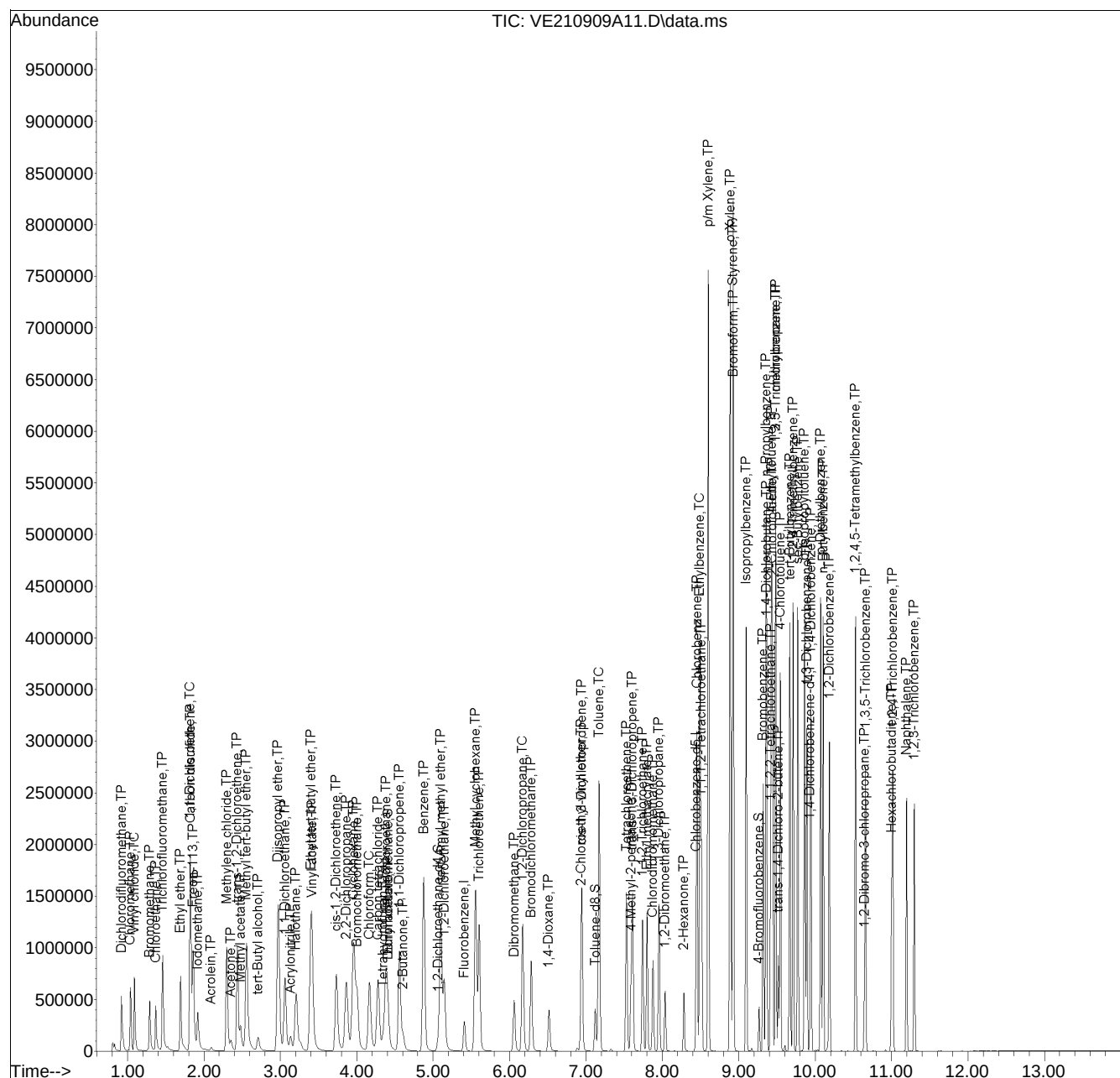
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A11.D
 Acq On : 9 Sep 2021 2:48 pm
 Operator : ELAINE:NLK
 Sample : I8260STD80PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:46 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

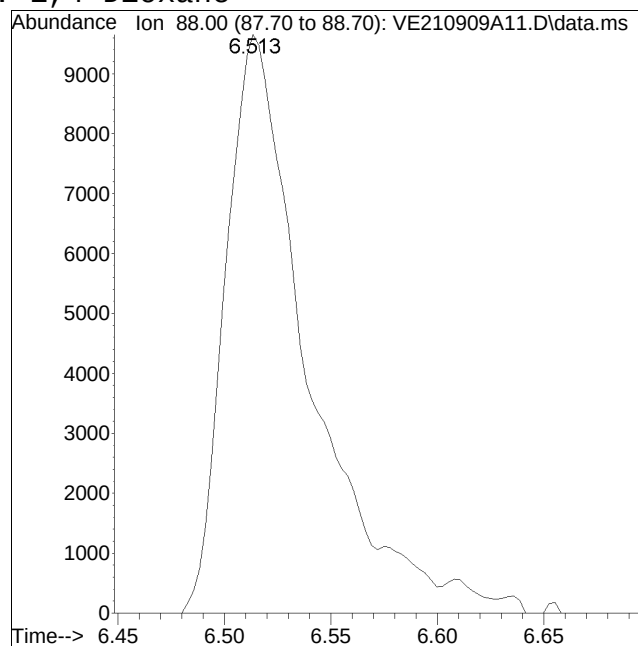
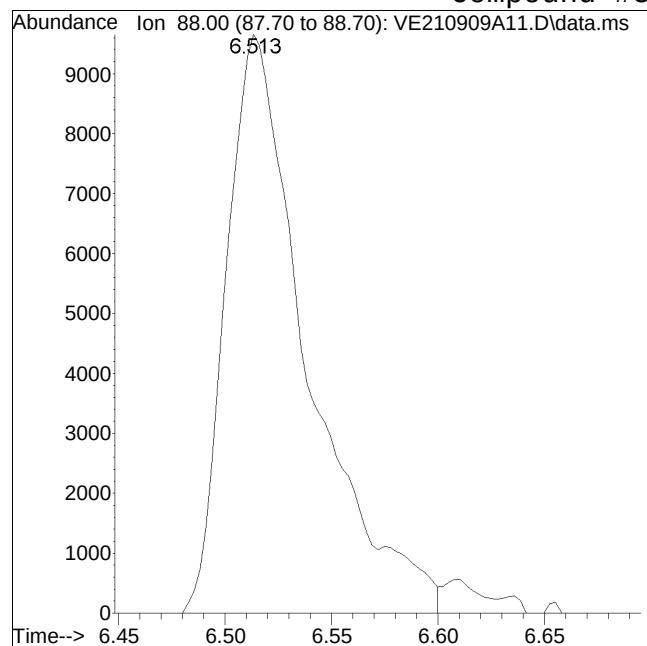
Sub List : 8260-Curve - Megamix plus Diox10909A\VE210909A09.D•



Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A11.D Operator : ELAINE:NLK
Date Inj'd : 9/9/2021 2:48 pm Instrument : Elaine
Sample : I8260STD80PPB Quant Date : 9/13/2021 11:39 am

Compound #57: 1,4-Dioxane



Original Peak Response = 25588

Manual Peak Response = 26476 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A12.D
 Acq On : 9 Sep 2021 3:10 pm
 Operator : ELAINE:NLK
 Sample : I8260STD120PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:53 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.409	96	239956	10.000	ug/L	0.00
Standard Area 1 = 231987			Recovery	=	103.44%	
59) Chlorobenzene-d5	8.442	117	161990	10.000	ug/L	0.00
Standard Area 1 = 160220			Recovery	=	101.10%	
79) 1,4-Dichlorobenzene-d4	9.936	152	80258	10.000	ug/L	0.00
Standard Area 1 = 78675			Recovery	=	102.01%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.413	113	54832	10.031	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.31%	
43) 1,2-Dichloroethane-d4	5.064	65	82228	10.237	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	102.37%	
60) Toluene-d8	7.123	98	224299	10.070	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.70%	
83) 4-Bromofluorobenzene	9.265	95	93555	9.826	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.26%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.921	85	521150	125.097	ug/L	98
3) Chloromethane	1.041	50	654694	118.979	ug/L	100
4) Vinyl chloride	1.091	62	678623	132.351	ug/L	97
5) Bromomethane	1.291	94	346473	129.547	ug/L	95
6) Chloroethane	1.369	64	373578	114.035	ug/L	97
7) Trichlorofluoromethane	1.458	101	811310	129.111	ug/L	97
8) Ethyl ether	1.695	74	324629	126.121	ug/L	81
10) 1,1-Dichloroethene	1.820	96	467669	126.779	ug/L	90
11) Carbon disulfide	1.825	76	1253768	124.872	ug/L	96
12) Freon-113	1.859	101	502490	132.895	ug/L	94
13) Iodomethane	1.920	142	488263	133.075	ug/L	87
14) Acrolein	2.095	56	27202	115.807	ug/L	96
15) Methylene chloride	2.298	84	556990	115.540	ug/L	83
17) Acetone	2.354	43	158665	129.552	ug/L	100
18) trans-1,2-Dichloroethene	2.437	96	507693	125.579	ug/L	94
19) Methyl acetate	2.479	43	335284	118.761	ug/L #	92
20) Methyl tert-butyl ether	2.557	73	1659387	123.909	ug/L	97
21) tert-Butyl alcohol	2.710	59	268100	623.956	ug/L #	72
22) Diisopropyl ether	2.972	45	2217945	124.665	ug/L	94
23) 1,1-Dichloroethane	3.061	63	1196360	124.891	ug/L	99
24) Halothane	3.205	117	385713	128.977	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A12.D
 Acq On : 9 Sep 2021 3:10 pm
 Operator : ELAINE:NLK
 Sample : I8260STD120PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:53 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	3.136	53	167155	118.108	ug/L	98
26) Ethyl tert-butyl ether	3.403	59	2288427	126.792	ug/L	90
27) Vinyl acetate	3.420	43	1029738	104.795	ug/L	99
28) cis-1,2-Dichloroethene	3.731	96	569515	120.122	ug/L	88
29) 2,2-Dichloropropane	3.862	77	912006	126.200	ug/L	97
30) Bromochloromethane	4.004	128	217287	119.996	ug/L	84
31) Cyclohexane	3.959	56	1154343	129.432	ug/L	82
32) Chloroform	4.165	83	1036503	123.177	ug/L	98
33) Ethyl acetate	4.407	43	480190	116.010	ug/L #	94
34) Carbon tetrachloride	4.279	117	756293	133.171	ug/L	99
35) Tetrahydrofuran	4.343	42	129066	124.120	ug/L #	64
37) 1,1,1-Trichloroethane	4.382	97	939718	128.193	ug/L #	94
39) 2-Butanone	4.602	43	260865	136.930	ug/L #	85
40) 1,1-Dichloropropene	4.560	75	801956	134.406	ug/L	99
41) Benzene	4.877	78	2326682	125.953	ug/L	96
42) tert-Amyl methyl ether	5.100	73	1760454	127.597	ug/L	91
44) 1,2-Dichloroethane	5.145	62	920373	121.782	ug/L	99
47) Methyl cyclohexane	5.556	83	991330	132.694	ug/L	87
48) Trichloroethene	5.604	95	624341	138.368	ug/L	88
50) Dibromomethane	6.060	93	310055	119.556	ug/L	94
51) 1,2-Dichloropropane	6.171	63	664575	125.520	ug/L	96
53) 2-Chloroethyl vinyl ether	6.936	63	181055	126.950	ug/L	96
54) Bromodichloromethane	6.283	83	831692	125.210	ug/L	99
57) 1,4-Dioxane	6.516	88	39615	1217.728	ug/L	98
58) cis-1,3-Dichloropropene	6.947	75	963414	128.998	ug/L	99
61) Toluene	7.170	92	1439480	125.510	ug/L	93
62) 4-Methyl-2-pentanone	7.590	58	210584	130.905	ug/L #	97
63) Tetrachloroethene	7.532	166	498106	129.919	ug/L	99
65) trans-1,3-Dichloropropene	7.610	75	896602	134.780	ug/L	96
67) Ethyl methacrylate	7.799	69	705229	126.726	ug/L	98
68) 1,1,2-Trichloroethane	7.743	83	388378	129.157	ug/L	98
69) Chlorodibromomethane	7.877	129	497041	131.966	ug/L	98
70) 1,3-Dichloropropane	7.955	76	844213	124.101	ug/L	99
71) 1,2-Dibromoethane	8.038	107	430445	128.328	ug/L	99
72) 2-Hexanone	8.280	43	379802	125.945	ug/L	94
73) Chlorobenzene	8.453	112	1394764	123.049	ug/L	99
74) Ethylbenzene	8.494	91	2679030	125.361	ug/L	99
75) 1,1,1,2-Tetrachloroethane	8.514	131	496815	125.587	ug/L	96
76) p/m Xylene	8.603	106	1896877	250.000	ug/L	97
77) o Xylene	8.889	106	1804418	248.644	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A12.D
 Acq On : 9 Sep 2021 3:10 pm
 Operator : ELAINE:NLK
 Sample : I8260STD120PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:53 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	8.926	104	3143179	246.175	ug/L	98
80)	Bromoform	8.931	173	281908	127.226	ug/L	97
82)	Isopropylbenzene	9.098	105	2443193	121.392	ug/L	98
84)	Bromobenzene	9.321	156	529047	119.898	ug/L	97
85)	n-Propylbenzene	9.357	91	3008763	124.649	ug/L	100
86)	1,4-Dichlorobutane	9.365	55	1015381	121.944	ug/L	98
87)	1,1,2,2-Tetrachloroethane	9.415	83	495619	121.252	ug/L	99
88)	4-Ethyltoluene	9.429	105	2349381	123.804	ug/L	98
89)	2-Chlorotoluene	9.440	91	2137375	121.794	ug/L	95
90)	1,3,5-Trimethylbenzene	9.485	105	2058462	122.526	ug/L	95
91)	1,2,3-Trichloropropane	9.482	75	455373	122.988	ug/L	94
92)	trans-1,4-Dichloro-2-b...	9.515	53	187344	120.815	ug/L #	85
93)	4-Chlorotoluene	9.546	91	1922381	119.970	ug/L	95
94)	tert-Butylbenzene	9.668	119	1666510	122.974	ug/L #	86
97)	1,2,4-Trimethylbenzene	9.713	105	2054209	123.640	ug/L	97
98)	sec-Butylbenzene	9.774	105	2516281	122.712	ug/L	99
99)	p-Isopropyltoluene	9.863	119	2085338	123.650	ug/L	98
100)	1,3-Dichlorobenzene	9.891	146	1007490	121.530	ug/L	97
101)	1,4-Dichlorobenzene	9.947	146	998708	119.793	ug/L	96
102)	p-Diethylbenzene	10.072	119	1212884	124.826	ug/L	98
103)	n-Butylbenzene	10.105	91	1993987	128.341	ug/L	97
104)	1,2-Dichlorobenzene	10.186	146	940977	119.143	ug/L	96
105)	1,2,4,5-Tetramethylben...	10.528	119	1924948	125.582	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.642	155	72271	121.394	ug/L	92
107)	1,3,5-Trichlorobenzene	10.659	180	673099	125.570	ug/L	97
108)	Hexachlorobutadiene	11.001	225	238770	132.127	ug/L	96
109)	1,2,4-Trichlorobenzene	11.015	180	653403	128.859	ug/L	97
110)	Naphthalene	11.196	128	1572650	125.607	ug/L	100
111)	1,2,3-Trichlorobenzene	11.299	180	599367	129.558	ug/L	98

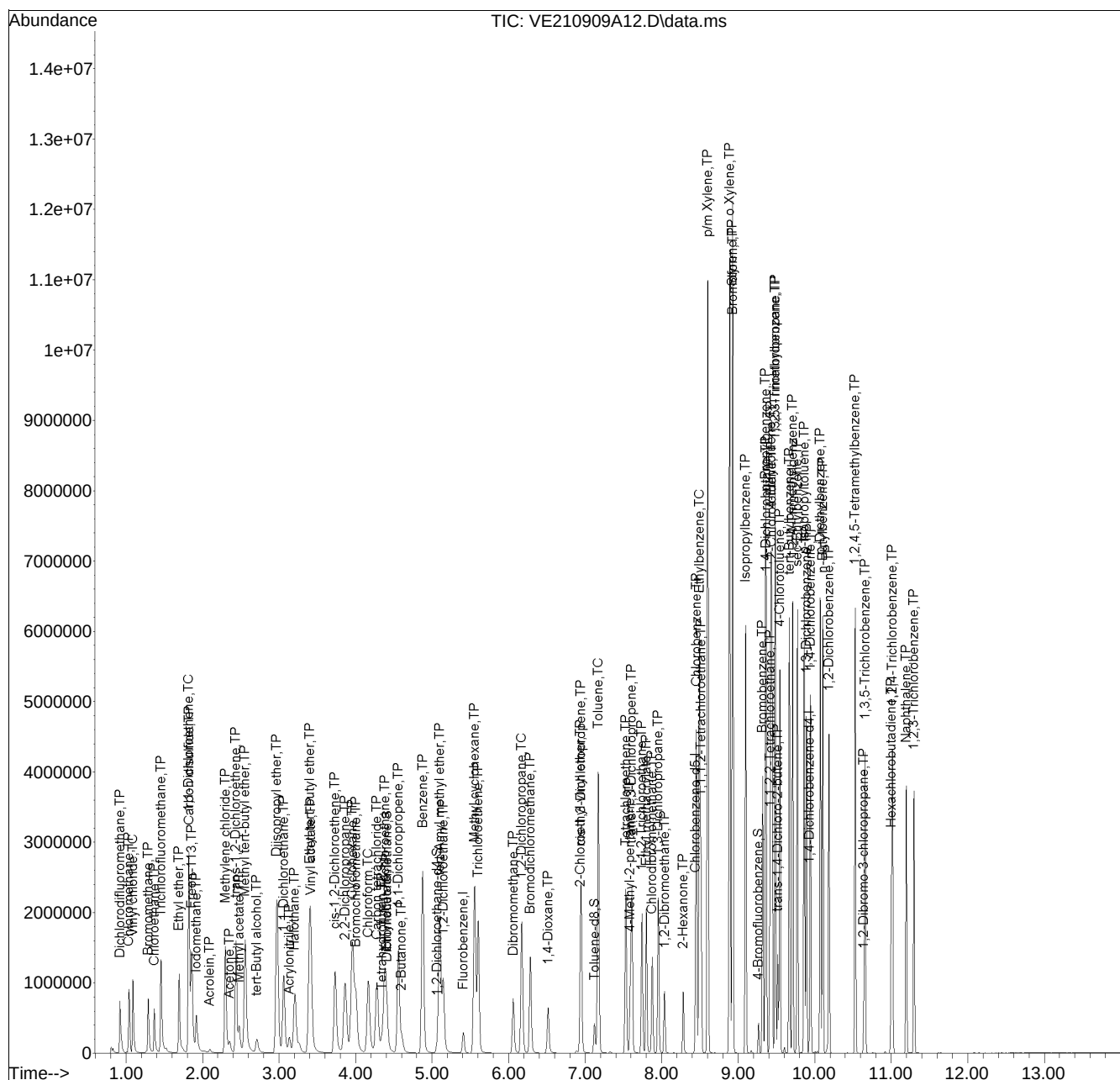
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A12.D
 Acq On : 9 Sep 2021 3:10 pm
 Operator : ELAINE:NLK
 Sample : I8260STD120PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:39:53 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox10909A\VE210909A09.D•



Manual Integration Report

Data Path	: I:\VOLATILES\Elaine\2021\20	Method	: Elaine_210909A_8260.m
Data File	: VE210909A12.D	Operator	: ELAINE:NLK
Date Inj'd	: 9/9/2021 3:10 pm	Instrument	: Elaine
Sample	: I8260STD120PPB	Quant Date	: 9/13/2021 11:39 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A13.D
 Acq On : 9 Sep 2021 3:32 pm
 Operator : ELAINE:NLK
 Sample : I8260STD200PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:40:01 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.409	96	249399	10.000	ug/L	0.00
Standard Area 1 = 231987			Recovery	=	107.51%	
59) Chlorobenzene-d5	8.442	117	163501	10.000	ug/L	0.00
Standard Area 1 = 160220			Recovery	=	102.05%	
79) 1,4-Dichlorobenzene-d4	9.938	152	79812	10.000	ug/L	0.00
Standard Area 1 = 78675			Recovery	=	101.45%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.413	113	56064	9.868	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.68%	
43) 1,2-Dichloroethane-d4	5.061	65	83277	9.975	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.75%	
60) Toluene-d8	7.123	98	230039	10.232	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	102.32%	
83) 4-Bromofluorobenzene	9.265	95	92341	9.753	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.53%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.921	85	862904	199.289	ug/L	98
3) Chloromethane	1.038	50	1100412	192.408	ug/L	99
4) Vinyl chloride	1.091	62	1130505	212.133	ug/L	96
5) Bromomethane	1.291	94	604079	217.315	ug/L	95
6) Chloroethane	1.369	64	589257	173.061	ug/L	96
7) Trichlorofluoromethane	1.455	101	1322041	202.422	ug/L	96
8) Ethyl ether	1.695	74	554318	207.203	ug/L	80
10) 1,1-Dichloroethene	1.820	96	802200	209.233	ug/L	88
11) Carbon disulfide	1.823	76	2088801	200.161	ug/L	96
12) Freon-113	1.856	101	821502	209.038	ug/L	94
13) Iodomethane	1.920	142	801038	210.055	ug/L	87
14) Acrolein	2.098	56	49667	203.442	ug/L	94
15) Methylene chloride	2.298	84	930207	185.652	ug/L	82
17) Acetone	2.357	43	241796	190.550	ug/L	98
18) trans-1,2-Dichloroethene	2.438	96	867548	206.464	ug/L	94
19) Methyl acetate	2.479	43	566848	193.180	ug/L #	92
20) Methyl tert-butyl ether	2.557	73	2768132	198.874	ug/L	97
21) tert-Butyl alcohol	2.713	59	447630	1002.336	ug/L #	75
22) Diisopropyl ether	2.974	45	3689254	199.512	ug/L	94
23) 1,1-Dichloroethane	3.061	63	2006538	201.537	ug/L	100
24) Halothane	3.208	117	651982	209.759	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A13.D
 Acq On : 9 Sep 2021 3:32 pm
 Operator : ELAINE:NLK
 Sample : I8260STD200PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:40:01 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	3.136	53	285484	194.079	ug/L	97
26) Ethyl tert-butyl ether	3.403	59	3823974	203.848	ug/L	98
27) Vinyl acetate	3.420	43	2299930	225.198	ug/L	97
28) cis-1,2-Dichloroethene	3.731	96	959168	194.647	ug/L	87
29) 2,2-Dichloropropane	3.865	77	1524017	202.903	ug/L	97
30) Bromochloromethane	4.007	128	361516	192.087	ug/L	83
31) Cyclohexane	3.959	56	1916343	206.736	ug/L	83
32) Chloroform	4.165	83	1758073	201.017	ug/L	98
33) Ethyl acetate	4.407	43	814506	189.327	ug/L #	95
34) Carbon tetrachloride	4.279	117	1261084	213.649	ug/L	99
35) Tetrahydrofuran	4.343	42	225048	208.230	ug/L #	63
37) 1,1,1-Trichloroethane	4.382	97	1558686	204.580	ug/L #	93
39) 2-Butanone	4.605	43	377208	190.503	ug/L #	76
40) 1,1-Dichloropropene	4.560	75	1349277	217.573	ug/L	99
41) Benzene	4.878	78	3867478	201.436	ug/L	96
42) tert-Amyl methyl ether	5.100	73	2898181	202.105	ug/L	92
44) 1,2-Dichloroethane	5.147	62	1540977	196.179	ug/L	99
47) Methyl cyclohexane	5.556	83	1660588	213.861	ug/L	86
48) Trichloroethene	5.604	95	1008120	214.962	ug/L	89
50) Dibromomethane	6.060	93	523106	194.070	ug/L	94
51) 1,2-Dichloropropane	6.171	63	1116776	202.942	ug/L	96
53) 2-Chloroethyl vinyl ether	6.936	63	302661	204.181	ug/L	95
54) Bromodichloromethane	6.283	83	1397581	202.437	ug/L	99
57) 1,4-Dioxane	6.514	88	66326	1961.605	ug/L	95
58) cis-1,3-Dichloropropene	6.948	75	1630891	210.103	ug/L	99
61) Toluene	7.173	92	2371950	204.902	ug/L	93
62) 4-Methyl-2-pentanone	7.590	58	341877	210.557	ug/L #	98
63) Tetrachloroethene	7.532	166	817306	211.205	ug/L	100
65) trans-1,3-Dichloropropene	7.610	75	1485567	221.252	ug/L	97
67) Ethyl methacrylate	7.799	69	1166287	207.639	ug/L	98
68) 1,1,2-Trichloroethane	7.743	83	645092	212.546	ug/L	98
69) Chlorodibromomethane	7.877	129	817371	215.009	ug/L	98
70) 1,3-Dichloropropane	7.957	76	1402443	204.257	ug/L	99
71) 1,2-Dibromoethane	8.038	107	710505	209.864	ug/L	98
72) 2-Hexanone	8.283	43	568915	186.913	ug/L	95
73) Chlorobenzene	8.453	112	2280131	199.298	ug/L	99
74) Ethylbenzene	8.494	91	4261358	197.561	ug/L	100
75) 1,1,1,2-Tetrachloroethane	8.514	131	828972	207.614	ug/L	95
76) p/m Xylene	8.603	106	3019974	394.341	ug/L	95
77) o Xylene	8.890	106	2870980	391.958	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A13.D
 Acq On : 9 Sep 2021 3:32 pm
 Operator : ELAINE:NLK
 Sample : I8260STD200PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:40:01 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	8.928	104	4804660	372.825	ug/L	98
80)	Bromoform	8.931	173	462562	209.922	ug/L	95
82)	Isopropylbenzene	9.098	105	3851414	192.430	ug/L	96
84)	Bromobenzene	9.321	156	860929	196.203	ug/L	98
85)	n-Propylbenzene	9.360	91	4589851	191.214	ug/L	98
86)	1,4-Dichlorobutane	9.368	55	1610394	194.484	ug/L	98
87)	1,1,2,2-Tetrachloroethane	9.415	83	832607	204.834	ug/L	98
88)	4-Ethyltoluene	9.429	105	3701479	196.145	ug/L	97
89)	2-Chlorotoluene	9.443	91	3420052	195.974	ug/L	96
90)	1,3,5-Trimethylbenzene	9.485	105	3284422	196.592	ug/L	94
91)	1,2,3-Trichloropropane	9.485	75	726774	197.385	ug/L	94
92)	trans-1,4-Dichloro-2-b...	9.518	53	301469	195.498	ug/L #	83
93)	4-Chlorotoluene	9.546	91	3070289	192.679	ug/L	96
94)	tert-Butylbenzene	9.669	119	2680396	198.895	ug/L #	85
97)	1,2,4-Trimethylbenzene	9.713	105	3276907	198.334	ug/L	96
98)	sec-Butylbenzene	9.774	105	3950558	193.734	ug/L	99
99)	p-Isopropyltoluene	9.863	119	3347509	199.599	ug/L	95
100)	1,3-Dichlorobenzene	9.894	146	1636751	198.538	ug/L	97
101)	1,4-Dichlorobenzene	9.947	146	1637524	197.515	ug/L	96
102)	p-Diethylbenzene	10.075	119	2037744	210.890	ug/L	98
103)	n-Butylbenzene	10.105	91	3268094	211.524	ug/L	96
104)	1,2-Dichlorobenzene	10.186	146	1560307	198.664	ug/L	96
105)	1,2,4,5-Tetramethylben...	10.531	119	3194663	209.582	ug/L	98
106)	1,2-Dibromo-3-chloropr...	10.645	155	128154	216.465	ug/L	93
107)	1,3,5-Trichlorobenzene	10.659	180	1137342	213.363	ug/L	97
108)	Hexachlorobutadiene	11.001	225	405375	225.573	ug/L	96
109)	1,2,4-Trichlorobenzene	11.018	180	1077734	213.729	ug/L	98
110)	Naphthalene	11.196	128	2550120	204.816	ug/L	100
111)	1,2,3-Trichlorobenzene	11.299	180	971382	211.145	ug/L	99

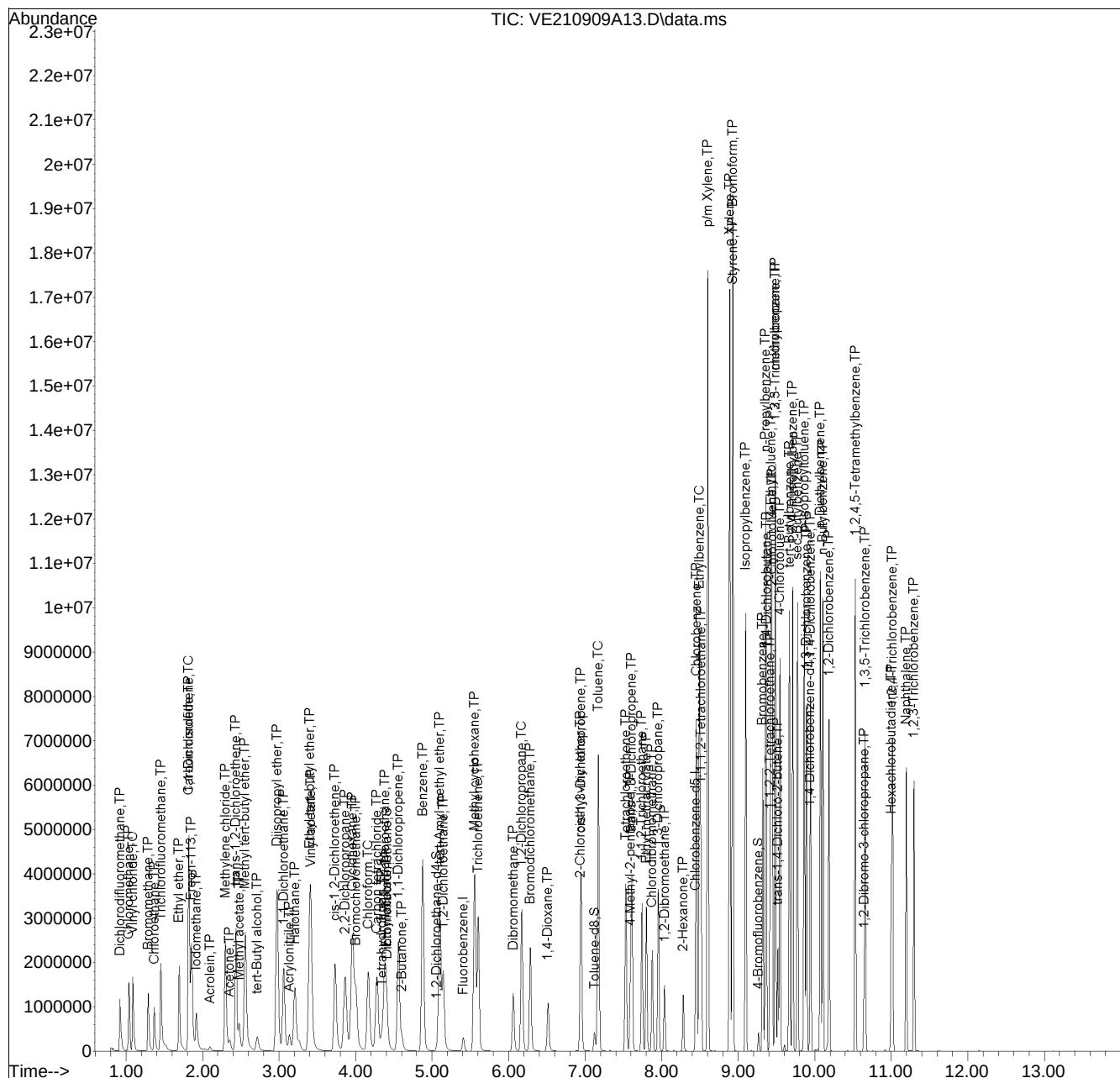
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A13.D
 Acq On : 9 Sep 2021 3:32 pm
 Operator : ELAINE:NLK
 Sample : I8260STD200PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:40:01 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:40 2021
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox10909A\VE210909A09.D•



Manual Integration Report

Data Path	: I:\VOLATILES\Elaine\2021\20	Method	: Elaine_210909A_8260.m
Data File	: VE210909A13.D	Operator	: ELAINE:NLK
Date Inj'd	: 9/9/2021 3:32 pm	Instrument	: Elaine
Sample	: I8260STD200PPB	Quant Date	: 9/13/2021 11:39 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A18.D
 Acq On : 9 Sep 2021 5:20 pm
 Operator : ELAINE:PD
 Sample : C8260STD10PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:42:31 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	97	0.00
2 TP	Dichlorodifluoromethane	0.174	0.178	-2.3	101	0.00
3 TP	Chloromethane	0.229	0.258	-12.7	110	0.00
4 TC	Vinyl chloride	0.214	0.247	-15.4	105	0.00
5 TP	Bromomethane	0.111	0.098#	11.7	98	0.00
6 TP	Chloroethane	0.137	0.152	-10.9	109	0.00
7 TP	Trichlorofluoromethane	0.262	0.275	-5.0	104	0.00
8 TP	Ethyl ether	0.107	0.112	-4.7	101	0.00
10 TC	1,1-Dichloroethene	0.154	0.148	3.9	100	0.00
11 TP	Carbon disulfide	0.418	0.306	26.8#	72	0.00
12 TP	Freon-113	0.158	0.131	17.1	81	0.00
13 TP	Iodomethane	0.153	0.115	24.8#	82	0.00
14 TP	Acrolein	0.00979	0.01450#	-48.1#	141	0.00
15 TP	Methylene chloride	0.201	0.196	2.5	99	0.00
17 TP	Acetone	* 10.000	7.165	28.3#	85	0.00
18 TP	trans-1,2-Dichloroethene	0.168	0.172	-2.4	102	0.00
19 TP	Methyl acetate	0.118	0.094#	20.3#	93	0.00
20 TP	Methyl tert-butyl ether	0.558	0.523	6.3	94	0.00
21 TP	tert-Butyl alcohol	0.018	0.017#	5.6	93	0.00
22 TP	Diisopropyl ether	0.741	0.682	8.0	91	0.00
23 TP	1,1-Dichloroethane	0.399	0.399	0.0	99	0.00
24 TP	Halothane	0.125	0.107	14.4	84	0.00
25 TP	Acrylonitrile	0.059	0.057	3.4	101	0.00
26 TP	Ethyl tert-butyl ether	0.752	0.711	5.5	94	0.00
27 TP	Vinyl acetate	0.410	0.235	42.7#	56	0.00
28 TP	cis-1,2-Dichloroethene	0.198	0.194	2.0	98	0.00
29 TP	2,2-Dichloropropane	0.301	0.287	4.7	99	0.00
30 TP	Bromochloromethane	0.075	0.076	-1.3	95	0.00
31 TP	Cyclohexane	0.372	0.306	17.7	85	0.00
32 TC	Chloroform	0.351	0.356	-1.4	98	0.00
33 TP	Ethyl acetate	0.172	0.140	18.6	89	0.00
34 TP	Carbon tetrachloride	0.237	0.231	2.5	95	0.00
35 TP	Tetrahydrofuran	0.043	0.044#	-2.3	115	0.00
36 S	Dibromofluoromethane	0.228	0.221	3.1	95	0.00
37 TP	1,1,1-Trichloroethane	0.305	0.316	-3.6	100	0.00
39 TP	2-Butanone	0.079	0.058#	26.6#	72	0.00
40 TP	1,1-Dichloropropene	0.249	0.253	-1.6	98	0.00
41 TP	Benzene	0.770	0.782	-1.6	101	0.00
42 TP	tert-Amyl methyl ether	0.575	0.528	8.2	94	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A18.D
 Acq On : 9 Sep 2021 5:20 pm
 Operator : ELAINE:PD
 Sample : C8260STD10PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:42:31 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43 S	1,2-Dichloroethane-d4	0.335	0.335	0.0	99	0.00
44 TP	1,2-Dichloroethane	0.315	0.314	0.3	102	0.00
47 TP	Methyl cyclohexane	0.311	0.252	19.0	85	0.00
48 TP	Trichloroethene	0.188	0.210	-11.7	109	0.00
50 TP	Dibromomethane	0.108	0.100	7.4	92	0.00
51 TC	1,2-Dichloropropane	0.221	0.219	0.9	100	0.00
53 TP	2-Chloroethyl vinyl ether	0.059	0.115	-94.9#	190	0.00
54 TP	Bromodichloromethane	0.277	0.266	4.0	97	0.00
57 TP	1,4-Dioxane	0.00136	0.00130#	4.4	97	0.00
58 TP	cis-1,3-Dichloropropene	0.311	0.303	2.6	99	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
60 S	Toluene-d8	1.375	1.377	-0.1	98	0.00
61 TC	Toluene	0.708	0.718	-1.4	103	0.00
62 TP	4-Methyl-2-pentanone	0.099	0.089#	10.1	94	0.00
63 TP	Tetrachloroethene	0.237	0.226	4.6	98	0.00
65 TP	trans-1,3-Dichloropropene	0.411	0.393	4.4	97	0.00
67 TP	Ethyl methacrylate	0.344	0.318	7.6	98	0.00
68 TP	1,1,2-Trichloroethane	0.186	0.176	5.4	97	0.00
69 TP	Chlorodibromomethane	0.233	0.217	6.9	95	0.00
70 TP	1,3-Dichloropropane	0.420	0.404	3.8	104	0.00
71 TP	1,2-Dibromoethane	0.207	0.209	-1.0	104	0.00
72 TP	2-Hexanone	0.186	0.143	23.1#	85	0.00
73 TP	Chlorobenzene	0.700	0.713	-1.9	102	0.00
74 TC	Ethylbenzene	1.319	1.358	-3.0	100	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.244	0.234	4.1	98	0.00
76 TP	p/m Xylene	0.468	0.497	-6.2	101	0.00
77 TP	o Xylene	0.448	0.456	-1.8	98	0.00
78 TP	Styrene	0.788	0.816	-3.6	98	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
80 TP	Bromoform	0.276	0.269	2.5	101	0.00
82 TP	Isopropylbenzene	2.508	2.549	-1.6	99	0.00
83 S	4-Bromofluorobenzene	1.186	1.198	-1.0	98	0.00
84 TP	Bromobenzene	0.550	0.558	-1.5	101	0.00
85 TP	n-Propylbenzene	3.008	3.140	-4.4	99	0.00
86 TP	1,4-Dichlorobutane	1.037	1.038	-0.1	100	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.509	0.459	9.8	89	0.00
88 TP	4-Ethyltoluene	2.364	2.202	6.9	90	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A18.D
 Acq On : 9 Sep 2021 5:20 pm
 Operator : ELAINE:PD
 Sample : C8260STD10PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:42:31 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 TP	2-Chlorotoluene	2.187	2.187	0.0	97	0.00
90 TP	1,3,5-Trimethylbenzene	2.093	2.126	-1.6	99	0.00
91 TP	1,2,3-Trichloropropane	0.461	0.450	2.4	98	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.193	0.194	-0.5	102	0.00
93 TP	4-Chlorotoluene	1.997	2.030	-1.7	100	0.00
94 TP	tert-Butylbenzene	1.689	1.736	-2.8	99	0.00
97 TP	1,2,4-Trimethylbenzene	2.070	2.164	-4.5	101	0.00
98 TP	sec-Butylbenzene	2.555	2.586	-1.2	98	0.00
99 TP	p-Isopropyltoluene	2.101	2.118	-0.8	99	0.00
100 TP	1,3-Dichlorobenzene	1.033	1.059	-2.5	101	0.00
101 TP	1,4-Dichlorobenzene	1.039	1.034	0.5	98	0.00
102 TP	p-Diethylbenzene	1.211	1.036	14.5	85	0.00
103 TP	n-Butylbenzene	1.936	2.070	-6.9	104	0.00
104 TP	1,2-Dichlorobenzene	0.984	0.979	0.5	99	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.910	1.743	8.7	90	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.074	0.070	5.4	100	0.00
107 TP	1,3,5-Trichlorobenzene	0.668	0.632	5.4	94	0.00
108 TP	Hexachlorobutadiene	0.225	0.221	1.8	104	0.00
109 TP	1,2,4-Trichlorobenzene	0.632	0.618	2.2	103	0.00
110 TP	Naphthalene	1.560	1.552	0.5	102	0.00
111 TP	1,2,3-Trichlorobenzene	0.576	0.562	2.4	99	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 8 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A18.D
 Acq On : 9 Sep 2021 5:20 pm
 Operator : ELAINE:PD
 Sample : C8260STD10PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:42:31 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.409	96	225637	10.000	ug/L	0.00
Standard Area 1 = 231987			Recovery =	97.26%		
59) Chlorobenzene-d5	8.442	117	155658	10.000	ug/L	0.00
Standard Area 1 = 160220			Recovery =	97.15%		
79) 1,4-Dichlorobenzene-d4	9.936	152	76661	10.000	ug/L	0.00
Standard Area 1 = 78675			Recovery =	97.44%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.413	113	49794	9.687	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.87%		
43) 1,2-Dichloroethane-d4	5.061	65	75613	10.011	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.11%		
60) Toluene-d8	7.123	98	214299	10.012	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.12%		
83) 4-Bromofluorobenzene	9.265	95	91878	10.103	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.03%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.921	85	40111	10.239	ug/L	99
3) Chloromethane	1.038	50	58257	11.259	ug/L	99
4) Vinyl chloride	1.091	62	55712	11.555	ug/L	99
5) Bromomethane	1.288	94	22183	8.821	ug/L	98
6) Chloroethane	1.369	64	34381	11.161	ug/L	94
7) Trichlorofluoromethane	1.464	101	61941	10.483	ug/L	95
8) Ethyl ether	1.692	74	25262	10.437	ug/L	81
10) 1,1-Dichloroethene	1.820	96	33376	9.622	ug/L	89
11) Carbon disulfide	1.825	76	69088	7.318	ug/L	99
12) Freon-113	1.859	101	29548	8.311	ug/L	87
13) Iodomethane	1.920	142	25927	7.515	ug/L	86
14) Acrolein	2.098	56	3271	14.809	ug/L	84
15) Methylene chloride	2.298	84	44115	9.732	ug/L	85
17) Acetone	2.354	43	9630	7.165	ug/L	95
18) trans-1,2-Dichloroethene	2.438	96	38721	10.186	ug/L	94
19) Methyl acetate	2.479	43	21136	7.962	ug/L #	94
20) Methyl tert-butyl ether	2.560	73	118004	9.371	ug/L	98
21) tert-Butyl alcohol	2.705	59	19549	48.384	ug/L #	78
22) Diisopropyl ether	2.972	45	153773	9.192	ug/L	94
23) 1,1-Dichloroethane	3.061	63	90091	10.002	ug/L	100
24) Halothane	3.205	117	24248	8.623	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A18.D
 Acq On : 9 Sep 2021 5:20 pm
 Operator : ELAINE:PD
 Sample : C8260STD10PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:42:31 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	3.139	53	12850	9.656	ug/L	99
26) Ethyl tert-butyl ether	3.403	59	160360	9.449	ug/L #	82
27) Vinyl acetate	3.420	43	52928	5.728	ug/L	99
28) cis-1,2-Dichloroethene	3.734	96	43865	9.839	ug/L	87
29) 2,2-Dichloropropane	3.862	77	64718	9.524	ug/L	93
30) Bromochloromethane	4.004	128	17228	10.118	ug/L	90
31) Cyclohexane	3.962	56	69136	8.244	ug/L	85
32) Chloroform	4.165	83	80379	10.158	ug/L	99
33) Ethyl acetate	4.413	43	31597M1	8.118	ug/L	
34) Carbon tetrachloride	4.279	117	52101	9.756	ug/L	95
35) Tetrahydrofuran	4.357	42	10006	10.233	ug/L #	74
37) 1,1,1-Trichloroethane	4.382	97	71337	10.349	ug/L #	96
39) 2-Butanone	4.610	43	13031	7.274	ug/L #	78
40) 1,1-Dichloropropene	4.560	75	57030	10.165	ug/L	99
41) Benzene	4.875	78	176386	10.154	ug/L	96
42) tert-Amyl methyl ether	5.103	73	119201	9.188	ug/L	93
44) 1,2-Dichloroethane	5.145	62	70863	9.971	ug/L	99
47) Methyl cyclohexane	5.556	83	56895	8.099	ug/L	89
48) Trichloroethene	5.601	95	47374	11.165	ug/L	89
50) Dibromomethane	6.060	93	22535	9.241	ug/L	93
51) 1,2-Dichloropropane	6.171	63	49430	9.928	ug/L	94
53) 2-Chloroethyl vinyl ether	6.936	63	26058	19.430	ug/L	96
54) Bromodichloromethane	6.283	83	60047	9.614	ug/L	98
57) 1,4-Dioxane	6.511	88	14631M1	478.284	ug/L	
58) cis-1,3-Dichloropropene	6.945	75	68405	9.740	ug/L	97
61) Toluene	7.170	92	111802	10.145	ug/L	95
62) 4-Methyl-2-pentanone	7.590	58	13881	8.980	ug/L #	97
63) Tetrachloroethene	7.529	166	35140	9.538	ug/L	98
65) trans-1,3-Dichloropropene	7.610	75	61118	9.561	ug/L	92
67) Ethyl methacrylate	7.799	69	49553	9.267	ug/L	99
68) 1,1,2-Trichloroethane	7.743	83	27432	9.494	ug/L	96
69) Chlorodibromomethane	7.877	129	33737	9.322	ug/L	97
70) 1,3-Dichloropropane	7.955	76	62903	9.623	ug/L	97
71) 1,2-Dibromoethane	8.035	107	32534	10.094	ug/L	98
72) 2-Hexanone	8.283	43	22283	7.690	ug/L	92
73) Chlorobenzene	8.453	112	110907	10.182	ug/L	98
74) Ethylbenzene	8.492	91	211383	10.294	ug/L	98
75) 1,1,1,2-Tetrachloroethane	8.511	131	36361	9.565	ug/L	95
76) p/m Xylene	8.600	106	154590	21.203	ug/L	94
77) o Xylene	8.887	106	141833	20.339	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210909A\
 Data File : VE210909A18.D
 Acq On : 9 Sep 2021 5:20 pm
 Operator : ELAINE:PD
 Sample : C8260STD10PPB
 Misc : WG1545678,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 13 11:42:31 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210909A\VE210909A09.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	8.926	104	253914	20.696	ug/L	96
80)	Bromoform	8.928	173	20628	9.746	ug/L	96
82)	Isopropylbenzene	9.095	105	195396	10.164	ug/L	99
84)	Bromobenzene	9.321	156	42799	10.155	ug/L	100
85)	n-Propylbenzene	9.357	91	240679	10.439	ug/L	99
86)	1,4-Dichlorobutane	9.365	55	79612	10.010	ug/L	97
87)	1,1,2,2-Tetrachloroethane	9.413	83	35150	9.003	ug/L	97
88)	4-Ethyltoluene	9.427	105	168825	9.314	ug/L	100
89)	2-Chlorotoluene	9.440	91	167668	10.003	ug/L	95
90)	1,3,5-Trimethylbenzene	9.482	105	162974	10.156	ug/L	98
91)	1,2,3-Trichloropropane	9.482	75	34510	9.758	ug/L	97
92)	trans-1,4-Dichloro-2-b...	9.516	53	14890	10.053	ug/L	87
93)	4-Chlorotoluene	9.543	91	155641	10.169	ug/L	93
94)	tert-Butylbenzene	9.666	119	133117	10.284	ug/L #	85
97)	1,2,4-Trimethylbenzene	9.710	105	165930	10.456	ug/L	100
98)	sec-Butylbenzene	9.772	105	198277	10.123	ug/L	97
99)	p-Isopropyltoluene	9.861	119	162334	10.077	ug/L	98
100)	1,3-Dichlorobenzene	9.891	146	81202	10.255	ug/L	98
101)	1,4-Dichlorobenzene	9.944	146	79275	9.955	ug/L	94
102)	p-Diethylbenzene	10.072	119	79385	8.553	ug/L	97
103)	n-Butylbenzene	10.103	91	158666	10.692	ug/L	98
104)	1,2-Dichlorobenzene	10.186	146	75058	9.949	ug/L	95
105)	1,2,4,5-Tetramethylben...	10.528	119	133636	9.127	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.642	155	5332	9.376	ug/L	85
107)	1,3,5-Trichlorobenzene	10.656	180	48431	9.459	ug/L	96
108)	Hexachlorobutadiene	10.998	225	16907	9.795	ug/L	97
109)	1,2,4-Trichlorobenzene	11.015	180	47345	9.775	ug/L	97
110)	Naphthalene	11.196	128	118999	9.950	ug/L	100
111)	1,2,3-Trichlorobenzene	11.296	180	43047	9.742	ug/L	97

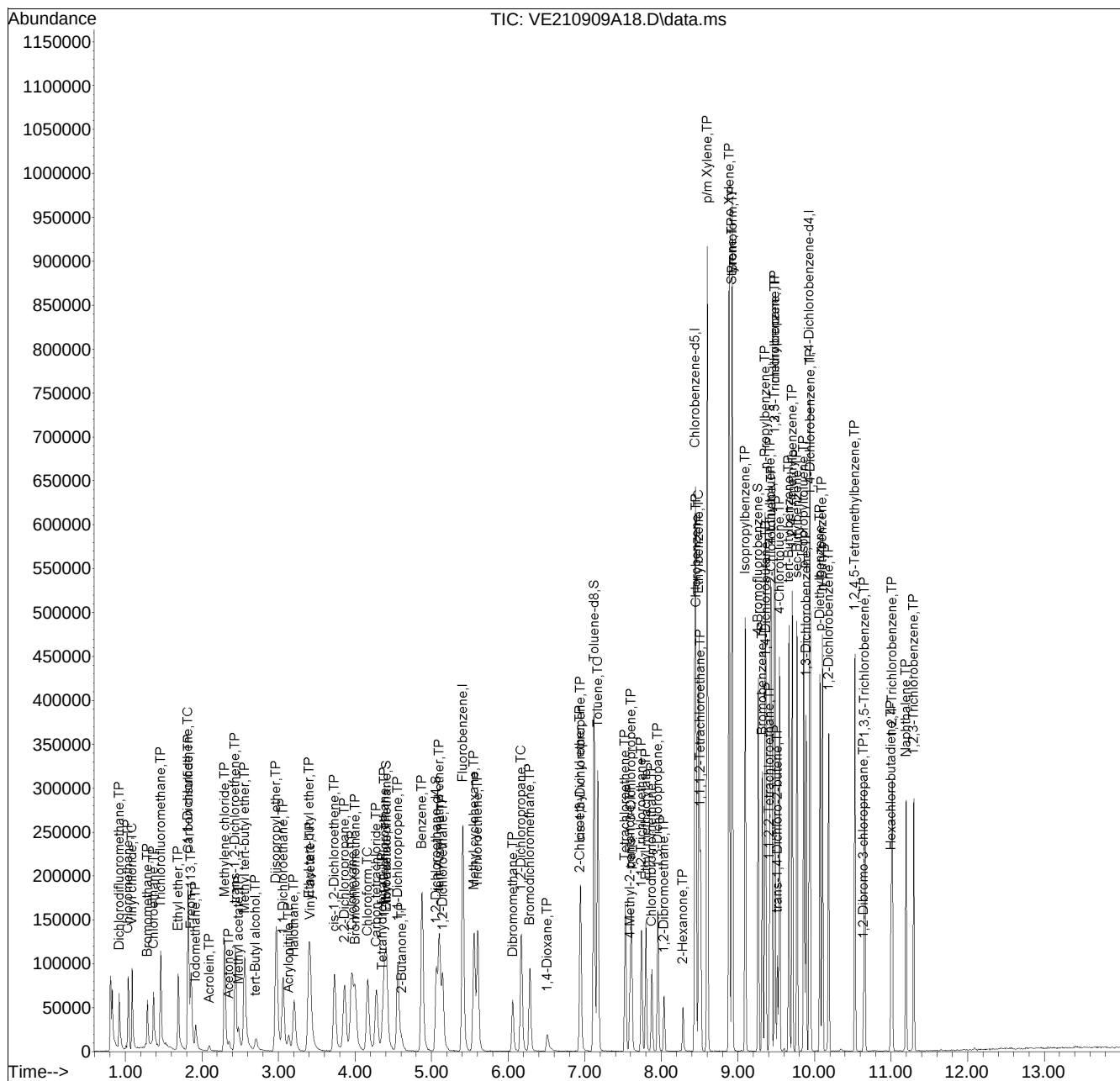
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path : I:\VOLATILES\Elaine\2021\210909A\
Data File : VE210909A18.D
Acq On    : 9 Sep 2021    5:20 pm
Operator  : ELAINE:PD
Sample    : C8260STD10PPB
Misc      : WG1545678,ICAL
ALS Vial  : 1    Sample Multiplier: 1
```

Quant Time: Sep 13 11:42:31 2021
Quant Method : I:\VOLATILES\Elaine\2021\210909A\Elaine_210909A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Sep 13 11:35:38 2021
Response via : Initial Calibration

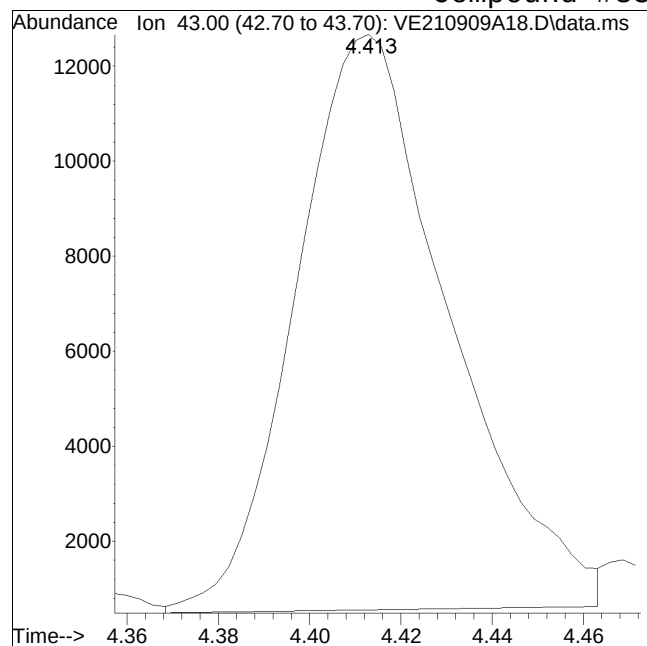
Sub List : 8260-Curve - Megamix plus Diox10909A\VE210909A09.D•



Manual Integration Report

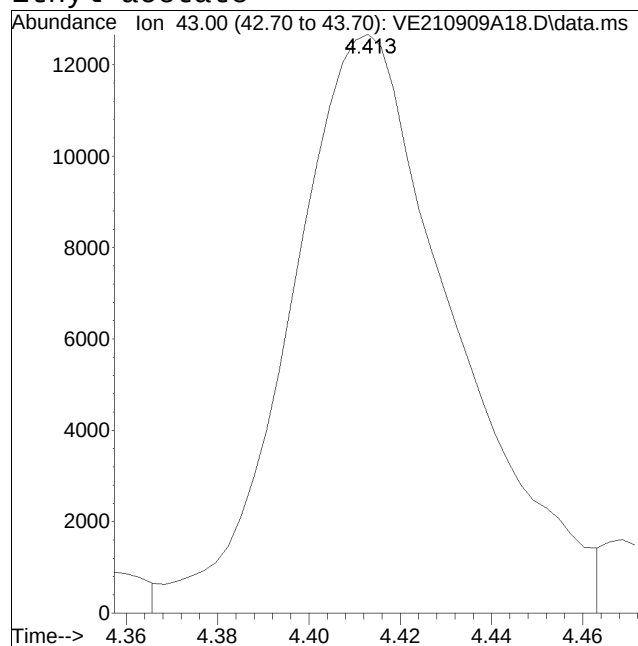
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A18.D Operator : ELAINE:PD
Date Inj'd : 9/9/2021 5:20 pm Instrument : Elaine
Sample : C8260STD10PPB Quant Date : 9/13/2021 11:41 am

Compound #33: Ethyl acetate



Original Peak Response = 28313

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

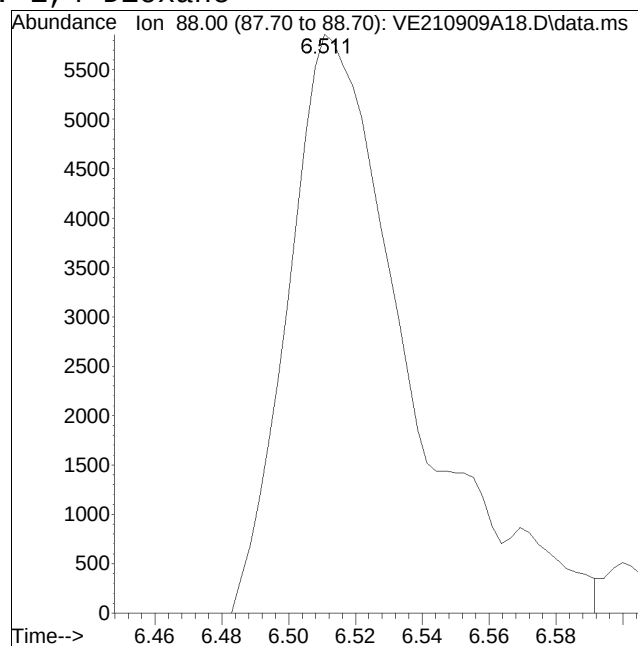
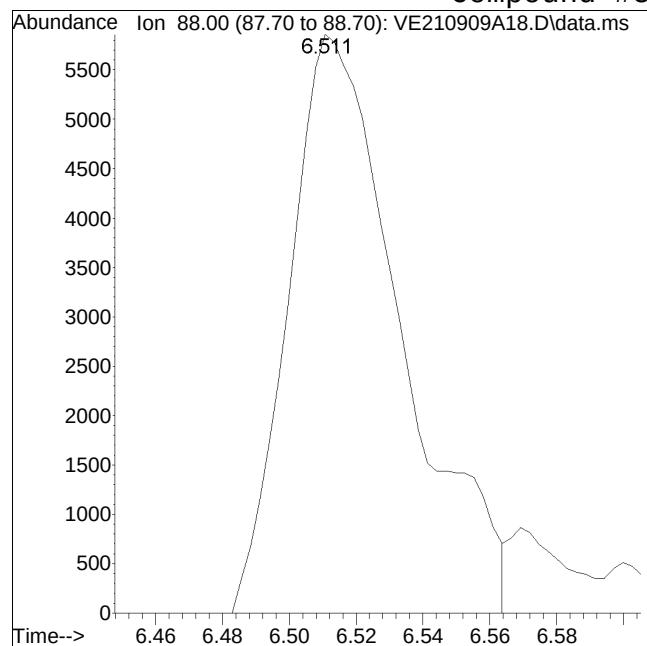


Manual Peak Response = 31597 M1

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210909A18.D Operator : ELAINE:PD
Date Inj'd : 9/9/2021 5:20 pm Instrument : Elaine
Sample : C8260STD10PPB Quant Date : 9/13/2021 11:41 am

Compound #57: 1,4-Dioxane



Original Peak Response = 13646

Manual Peak Response = 14631 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Correlation Data Summary

Method Path: I:\VOLATILES\Elaine\2021\210909A\
Method File: Elaine_210909A_8260.m
Method Title: VOLATILES BY GC/MS
Last Update: Mon Sep 13 11:35:38 2021

Analyte	Curve fit Type	Coefficient of Determination	Quadratic Term	Linear Term	Constant Term
Acetone	Linear	0.995481	0	0.05054	0.006466

Continuing Calibration

Calibration Verification Summary

Form 7

Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150011
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: ELAINE	Calibration Date	: 09/20/21 07:41
Lab File ID	: VE210920A02	Init. Calib. Date(s)	: 09/09/21 09/09/21
Sample No	: WG1548873-2	Init. Calib. Times	: 12:16 15:32
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	112	0
Dichlorodifluoromethane	0.174	0.109	-	37.4*	20	71	0
Chloromethane	0.229	0.201	-	12.2	20	99	0
Vinyl chloride	0.214	0.216	-	-0.9	20	106	0
Bromomethane	0.111	0.089*	-	19.8	20	103	0
Chloroethane	0.137	0.154	-	-12.4	20	126	0
Trichlorofluoromethane	0.262	0.223	-	14.9	20	97	0
Ethyl ether	0.107	0.092	-	14	20	96	0
1,1-Dichloroethene	0.154	0.146	-	5.2	20	114	0
Carbon disulfide	0.418	0.41	-	1.9	20	111	0
Methylene chloride	0.201	0.19	-	5.5	20	111	0
Acetone	10	9.4	-	6	20	124	-.01
trans-1,2-Dichloroethene	0.168	0.163	-	3	20	112	0
Methyl tert-butyl ether	0.558	0.394	-	29.4*	20	82	0
1,1-Dichloroethane	0.399	0.411	-	-3	20	117	0
Acrylonitrile	0.059	0.038*	-	35.6*	20	77	0
Vinyl acetate	0.41	0.378	-	7.8	20	104	0
cis-1,2-Dichloroethene	0.198	0.184	-	7.1	20	107	0
2,2-Dichloropropane	0.301	0.304	-	-1	20	120	0
Bromochloromethane	0.075	0.062	-	17.3	20	88	0
Chloroform	0.351	0.325	-	7.4	20	104	0
Carbon tetrachloride	0.237	0.186	-	21.5*	20	88	0
Dibromofluoromethane	0.228	0.21	-	7.9	20	105	0
1,1,1-Trichloroethane	0.305	0.261	-	14.4	20	95	0
2-Butanone	0.079	0.053*	-	32.9*	20	76	-.01
1,1-Dichloropropene	0.249	0.24	-	3.6	20	107	0
Benzene	0.77	0.752	-	2.3	20	112	0
1,2-Dichloroethane-d4	0.335	0.295	-	11.9	20	100	0
1,2-Dichloroethane	0.315	0.263	-	16.5	20	98	0
Trichloroethene	0.188	0.174*	-	7.4	20	105	0
Dibromomethane	0.108	0.087	-	19.4	20	92	0
1,2-Dichloropropane	0.221	0.22	-	0.5	20	116	0
Bromodichloromethane	0.277	0.221	-	20.2*	20	93	0
1,4-Dioxane	0.00136	0.00085*	-	37.5*	20	74	0
cis-1,3-Dichloropropene	0.311	0.267	-	14.1	20	100	0
Chlorobenzene-d5	1	1	-	0	20	109	0
Toluene-d8	1.375	1.393	-	-1.3	20	111	0
Toluene	0.708	0.702	-	0.8	20	113	0
4-Methyl-2-pentanone	0.099	0.068*	-	31.3*	20	80	0
Tetrachloroethene	0.237	0.218	-	8	20	106	0
trans-1,3-Dichloropropene	0.411	0.337	-	18	20	93	0
Ethyl methacrylate	0.344	0.246	-	28.5*	20	85	0
1,1,2-Trichloroethane	0.186	0.163	-	12.4	20	100	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2150011
Project Name : FORMER CLEAN ZONE DRY CLEANERS	Project Number : 2546.0007Y002
Instrument ID : ELAINE	Calibration Date : 09/20/21 07:41
Lab File ID : VE210920A02	Init. Calib. Date(s) : 09/09/21 09/09/21
Sample No : WG1548873-2	Init. Calib. Times : 12:16 15:32
Channel :	

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Chlorodibromomethane	0.233	0.168	-	27.9*	20	83	0
1,3-Dichloropropane	0.42	0.343	-	18.3	20	99	0
1,2-Dibromoethane	0.207	0.16	-	22.7*	20	89	0
2-Hexanone	0.186	0.121	-	34.9*	20	81	0
Chlorobenzene	0.7	0.658	-	6	20	105	0
Ethylbenzene	1.319	1.332	-	-1	20	109	0
1,1,1,2-Tetrachloroethane	0.244	0.196	-	19.7	20	91	0
p/m Xylene	0.468	0.469	-	-0.2	20	107	0
o Xylene	0.448	0.449	-	-0.2	20	108	0
Styrene	0.788	0.78	-	1	20	104	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
Bromoform	0.276	0.182	-	34.1*	20	75	0
Isopropylbenzene	2.508	2.447	-	2.4	20	104	0
4-Bromofluorobenzene	1.186	1.178	-	0.7	20	106	0
Bromobenzene	0.55	0.51	-	7.3	20	102	0
n-Propylbenzene	3.008	3.101	-	-3.1	20	107	0
1,4-Dichlorobutane	1.037	0.921	-	11.2	20	97	0
1,1,2,2-Tetrachloroethane	0.509	0.413	-	18.9	20	89	0
4-Ethyltoluene	2.364	2.352	-	0.5	20	106	0
2-Chlorotoluene	2.187	2.166	-	1	20	105	0
1,3,5-Trimethylbenzene	2.093	2.035	-	2.8	20	104	0
1,2,3-Trichloropropane	0.461	0.376	-	18.4	20	90	0
trans-1,4-Dichloro-2-buten	0.193	0.155	-	19.7	20	89	0
4-Chlorotoluene	1.997	1.982	-	0.8	20	107	0
tert-Butylbenzene	1.689	1.602	-	5.2	20	101	0
1,2,4-Trimethylbenzene	2.07	2.013	-	2.8	20	103	0
sec-Butylbenzene	2.555	2.484	-	2.8	20	103	0
p-Isopropyltoluene	2.101	2.006	-	4.5	20	103	0
1,3-Dichlorobenzene	1.033	1.002	-	3	20	105	0
1,4-Dichlorobenzene	1.039	0.979	-	5.8	20	102	0
p-Diethylbenzene	1.211	1.135	-	6.3	20	102	0
n-Butylbenzene	1.936	1.928	-	0.4	20	106	0
1,2-Dichlorobenzene	0.984	0.895	-	9	20	99	0
1,2,4,5-Tetramethylbenzene	1.91	1.733	-	9.3	20	99	0
1,2-Dibromo-3-chloropropan	0.074	0.048*	-	35.1*	20	76	0
Hexachlorobutadiene	0.225	0.197	-	12.4	20	103	0
1,2,4-Trichlorobenzene	0.632	0.55	-	13	20	100	0
Naphthalene	1.56	1.14	-	26.9*	20	82	0
1,2,3-Trichlorobenzene	0.576	0.471	-	18.2	20	91	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A02.D
 Acq On : 20 Sep 2021 7:41 am
 Operator : ELAINE:NLK
 Sample : WG1548873-2
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:57 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	112	0.00
2 TP	Dichlorodifluoromethane	0.174	0.109	37.4#	71	0.00
3 TP	Chloromethane	0.229	0.201	12.2	99	0.00
4 TC	Vinyl chloride	0.214	0.216	-0.9	106	0.00
5 TP	Bromomethane	0.111	0.089#	19.8	103	0.00
6 TP	Chloroethane	0.137	0.154	-12.4	126	0.00
7 TP	Trichlorofluoromethane	0.262	0.223	14.9	97	0.00
8 TP	Ethyl ether	0.107	0.092	14.0	96	0.00
10 TC	1,1-Dichloroethene	0.154	0.146	5.2	114	0.00
11 TP	Carbon disulfide	0.418	0.410	1.9	111	0.00
15 TP	Methylene chloride	0.201	0.190	5.5	111	0.00
17 TP	Acetone	* 10.000	9.400	6.0	124	-0.01
18 TP	trans-1,2-Dichloroethene	0.168	0.163	3.0	112	0.00
20 TP	Methyl tert-butyl ether	0.558	0.394	29.4#	82	0.00
23 TP	1,1-Dichloroethane	0.399	0.411	-3.0	117	0.00
25 TP	Acrylonitrile	0.059	0.038#	35.6#	77	0.00
27 TP	Vinyl acetate	0.410	0.378	7.8	104	0.00
28 TP	cis-1,2-Dichloroethene	0.198	0.184	7.1	107	0.00
29 TP	2,2-Dichloropropane	0.301	0.304	-1.0	120	0.00
30 TP	Bromochloromethane	0.075	0.062	17.3	88	0.00
32 TC	Chloroform	0.351	0.325	7.4	104	0.00
34 TP	Carbon tetrachloride	0.237	0.186	21.5#	88	0.00
36 S	Dibromofluoromethane	0.228	0.210	7.9	105	0.00
37 TP	1,1,1-Trichloroethane	0.305	0.261	14.4	95	0.00
39 TP	2-Butanone	0.079	0.053#	32.9#	76	-0.01
40 TP	1,1-Dichloropropene	0.249	0.240	3.6	107	0.00
41 TP	Benzene	0.770	0.752	2.3	112	0.00
43 S	1,2-Dichloroethane-d4	0.335	0.295	11.9	100	0.00
44 TP	1,2-Dichloroethane	0.315	0.263	16.5	98	0.00
48 TP	Trichloroethene	0.188	0.174#	7.4	105	0.00
50 TP	Dibromomethane	0.108	0.087	19.4	92	0.00
51 TC	1,2-Dichloropropane	0.221	0.220	0.5	116	0.00
54 TP	Bromodichloromethane	0.277	0.221	20.2#	93	0.00
57 TP	1,4-Dioxane	0.00136	0.00085#	37.5#	74	0.00
58 TP	cis-1,3-Dichloropropene	0.311	0.267	14.1	100	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00
60 S	Toluene-d8	1.375	1.393	-1.3	111	0.00
61 TC	Toluene	0.708	0.702	0.8	113	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A02.D
 Acq On : 20 Sep 2021 7:41 am
 Operator : ELAINE:NLK
 Sample : WG1548873-2
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:57 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
62 TP	4-Methyl-2-pentanone	0.099	0.068#	31.3#	80	0.00
63 TP	Tetrachloroethene	0.237	0.218	8.0	106	0.00
65 TP	trans-1,3-Dichloropropene	0.411	0.337	18.0	93	0.00
67 TP	Ethyl methacrylate	0.344	0.246	28.5#	85	0.00
68 TP	1,1,2-Trichloroethane	0.186	0.163	12.4	100	0.00
69 TP	Chlorodibromomethane	0.233	0.168	27.9#	83	0.00
70 TP	1,3-Dichloropropane	0.420	0.343	18.3	99	0.00
71 TP	1,2-Dibromoethane	0.207	0.160	22.7#	89	0.00
72 TP	2-Hexanone	0.186	0.121	34.9#	81	0.00
73 TP	Chlorobenzene	0.700	0.658	6.0	105	0.00
74 TC	Ethylbenzene	1.319	1.332	-1.0	109	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.244	0.196	19.7	91	0.00
76 TP	p/m Xylene	0.468	0.469	-0.2	107	0.00
77 TP	o Xylene	0.448	0.449	-0.2	108	0.00
78 TP	Styrene	0.788	0.780	1.0	104	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
80 TP	Bromoform	0.276	0.182	34.1#	75	0.00
82 TP	Isopropylbenzene	2.508	2.447	2.4	104	0.00
83 S	4-Bromofluorobenzene	1.186	1.178	0.7	106	0.00
84 TP	Bromobenzene	0.550	0.510	7.3	102	0.00
85 TP	n-Propylbenzene	3.008	3.101	-3.1	107	0.00
86 TP	1,4-Dichlorobutane	1.037	0.921	11.2	97	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.509	0.413	18.9	89	0.00
88 TP	4-Ethyltoluene	2.364	2.352	0.5	106	0.00
89 TP	2-Chlorotoluene	2.187	2.166	1.0	105	0.00
90 TP	1,3,5-Trimethylbenzene	2.093	2.035	2.8	104	0.00
91 TP	1,2,3-Trichloropropane	0.461	0.376	18.4	90	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.193	0.155	19.7	89	0.00
93 TP	4-Chlorotoluene	1.997	1.982	0.8	107	0.00
94 TP	tert-Butylbenzene	1.689	1.602	5.2	101	0.00
97 TP	1,2,4-Trimethylbenzene	2.070	2.013	2.8	103	0.00
98 TP	sec-Butylbenzene	2.555	2.484	2.8	103	0.00
99 TP	p-Isopropyltoluene	2.101	2.006	4.5	103	0.00
100 TP	1,3-Dichlorobenzene	1.033	1.002	3.0	105	0.00
101 TP	1,4-Dichlorobenzene	1.039	0.979	5.8	102	0.00
102 TP	p-Diethylbenzene	1.211	1.135	6.3	102	0.00
103 TP	n-Butylbenzene	1.936	1.928	0.4	106	0.00
104 TP	1,2-Dichlorobenzene	0.984	0.895	9.0	99	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A02.D
 Acq On : 20 Sep 2021 7:41 am
 Operator : ELAINE:NLK
 Sample : WG1548873-2
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:57 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
105 TP	1,2,4,5-Tetramethylbenzene	1.910	1.733	9.3	99	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.074	0.048#	35.1#	76	0.00
108 TP	Hexachlorobutadiene	0.225	0.197	12.4	103	0.00
109 TP	1,2,4-Trichlorobenzene	0.632	0.550	13.0	100	0.00
110 TP	Naphthalene	1.560	1.140	26.9#	82	0.00
111 TP	1,2,3-Trichlorobenzene	0.576	0.471	18.2	91	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 7 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A02.D
 Acq On : 20 Sep 2021 7:41 am
 Operator : ELAINE:NLK
 Sample : WG1548873-2
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:57 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.406	96	260268	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery	=	100.00%	
59) Chlorobenzene-d5	8.441	117	174153	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	9.936	152	84245	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.410	113	54683	9.223	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	92.23%	
43) 1,2-Dichloroethane-d4	5.061	65	76701	8.804	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	88.04%	
60) Toluene-d8	7.120	98	242532	10.128	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	101.28%	
83) 4-Bromofluorobenzene	9.265	95	99248	9.931	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.31%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.921	85	28462	6.299	ug/L	96
3) Chloromethane	1.035	50	52355	8.772	ug/L	100
4) Vinyl chloride	1.088	62	56218	10.108	ug/L	94
5) Bromomethane	1.288	94	23254	8.016	ug/L	95
6) Chloroethane	1.369	64	39970	11.249	ug/L	100
7) Trichlorofluoromethane	1.464	101	58074	8.521	ug/L	99
8) Ethyl ether	1.689	74	23928	8.571	ug/L	83
10) 1,1-Dichloroethene	1.820	96	37952M1	9.485	ug/L	
11) Carbon disulfide	1.823	76	106766	9.804	ug/L	97
15) Methylene chloride	2.296	84	49424	9.452	ug/L	87
17) Acetone	2.348	43	14047	9.400	ug/L	99
18) trans-1,2-Dichloroethene	2.435	96	42436	9.677	ug/L	96
20) Methyl tert-butyl ether	2.554	73	102496	7.056	ug/L	96
23) 1,1-Dichloroethane	3.058	63	107041	10.302	ug/L	95
25) Acrylonitrile	3.130	53	9810M1	6.391	ug/L	
27) Vinyl acetate	3.414	43	98382	9.231	ug/L	99
28) cis-1,2-Dichloroethene	3.731	96	47792	9.294	ug/L	92
29) 2,2-Dichloropropane	3.862	77	79002	10.079	ug/L	92
30) Bromochloromethane	3.998	128	16020	8.157	ug/L	87
32) Chloroform	4.160	83	84495	9.258	ug/L	98
34) Carbon tetrachloride	4.276	117	48394	7.856	ug/L #	95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A02.D
 Acq On : 20 Sep 2021 7:41 am
 Operator : ELAINE:NLK
 Sample : WG1548873-2
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:57 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
37)	1,1,1-Trichloroethane	4.382	97	67959	8.547	ug/L	#	94
39)	2-Butanone	4.599	43	13670	6.616	ug/L	#	80
40)	1,1-Dichloropropene	4.557	75	62359	9.636	ug/L		97
41)	Benzene	4.872	78	195655	9.765	ug/L		97
44)	1,2-Dichloroethane	5.142	62	68352	8.338	ug/L		99
48)	Trichloroethene	5.598	95	45326	9.261	ug/L		90
50)	Dibromomethane	6.057	93	22581	8.028	ug/L		91
51)	1,2-Dichloropropane	6.171	63	57196	9.960	ug/L	#	93
54)	Bromodichloromethane	6.282	83	57648	8.001	ug/L		96
57)	1,4-Dioxane	6.508	88	11111	314.887	ug/L		94
58)	cis-1,3-Dichloropropene	6.945	75	69467	8.576	ug/L		96
61)	Toluene	7.167	92	122212	9.912	ug/L		95
62)	4-Methyl-2-pentanone	7.590	58	11926	6.896	ug/L		93
63)	Tetrachloroethene	7.529	166	37952	9.208	ug/L		98
65)	trans-1,3-Dichloropropene	7.607	75	58694	8.207	ug/L		94
67)	Ethyl methacrylate	7.799	69	42866	7.165	ug/L		95
68)	1,1,2-Trichloroethane	7.740	83	28401	8.785	ug/L		97
69)	Chlorodibromomethane	7.874	129	29216	7.215	ug/L		96
70)	1,3-Dichloropropane	7.955	76	59718	8.166	ug/L		100
71)	1,2-Dibromoethane	8.035	107	27817	7.714	ug/L		96
72)	2-Hexanone	8.283	43	21136	6.519	ug/L		95
73)	Chlorobenzene	8.453	112	114640	9.407	ug/L		97
74)	Ethylbenzene	8.492	91	231910	10.094	ug/L		96
75)	1,1,1,2-Tetrachloroethane	8.511	131	34061	8.009	ug/L		94
76)	p/m Xylene	8.600	106	163268	20.015	ug/L		90
77)	o Xylene	8.887	106	156439	20.051	ug/L		97
78)	Styrene	8.926	104	271544	19.782	ug/L		95
80)	Bromoform	8.931	173	15305	6.580	ug/L		97
82)	Isopropylbenzene	9.098	105	206179	9.759	ug/L		100
84)	Bromobenzene	9.321	156	42998	9.283	ug/L		97
85)	n-Propylbenzene	9.357	91	261235	10.310	ug/L		97
86)	1,4-Dichlorobutane	9.365	55	77573	8.875	ug/L		96
87)	1,1,2,2-Tetrachloroethane	9.415	83	34795	8.110	ug/L		97
88)	4-Ethyltoluene	9.426	105	198149	9.948	ug/L		99
89)	2-Chlorotoluene	9.440	91	182503	9.907	ug/L		95
90)	1,3,5-Trimethylbenzene	9.482	105	171471	9.723	ug/L		96
91)	1,2,3-Trichloropropane	9.482	75	31649	8.143	ug/L		90
92)	trans-1,4-Dichloro-2-b...	9.515	53	13016	7.997	ug/L	#	86
93)	4-Chlorotoluene	9.543	91	167004	9.929	ug/L		93
94)	tert-Butylbenzene	9.668	119	134934	9.486	ug/L	#	86

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A02.D
 Acq On : 20 Sep 2021 7:41 am
 Operator : ELAINE:NLK
 Sample : WG1548873-2
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:57 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

97)	1,2,4-Trimethylbenzene	9.710	105	169586	9.724	ug/L	97
98)	sec-Butylbenzene	9.771	105	209230	9.721	ug/L	96
99)	p-Isopropyltoluene	9.860	119	168992	9.546	ug/L	99
100)	1,3-Dichlorobenzene	9.891	146	84378	9.696	ug/L	97
101)	1,4-Dichlorobenzene	9.944	146	82516	9.429	ug/L	97
102)	p-Diethylbenzene	10.072	119	95578	9.371	ug/L	98
103)	n-Butylbenzene	10.105	91	162439	9.960	ug/L	98
104)	1,2-Dichlorobenzene	10.186	146	75393	9.094	ug/L	97
105)	1,2,4,5-Tetramethylben...	10.528	119	145992	9.074	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.642	155	4050	6.481	ug/L	95
108)	Hexachlorobutadiene	11.001	225	16593	8.747	ug/L	95
109)	1,2,4-Trichlorobenzene	11.015	180	46375	8.713	ug/L	100
110)	Naphthalene	11.196	128	96030	7.307	ug/L	100
111)	1,2,3-Trichlorobenzene	11.296	180	39653	8.166	ug/L	96

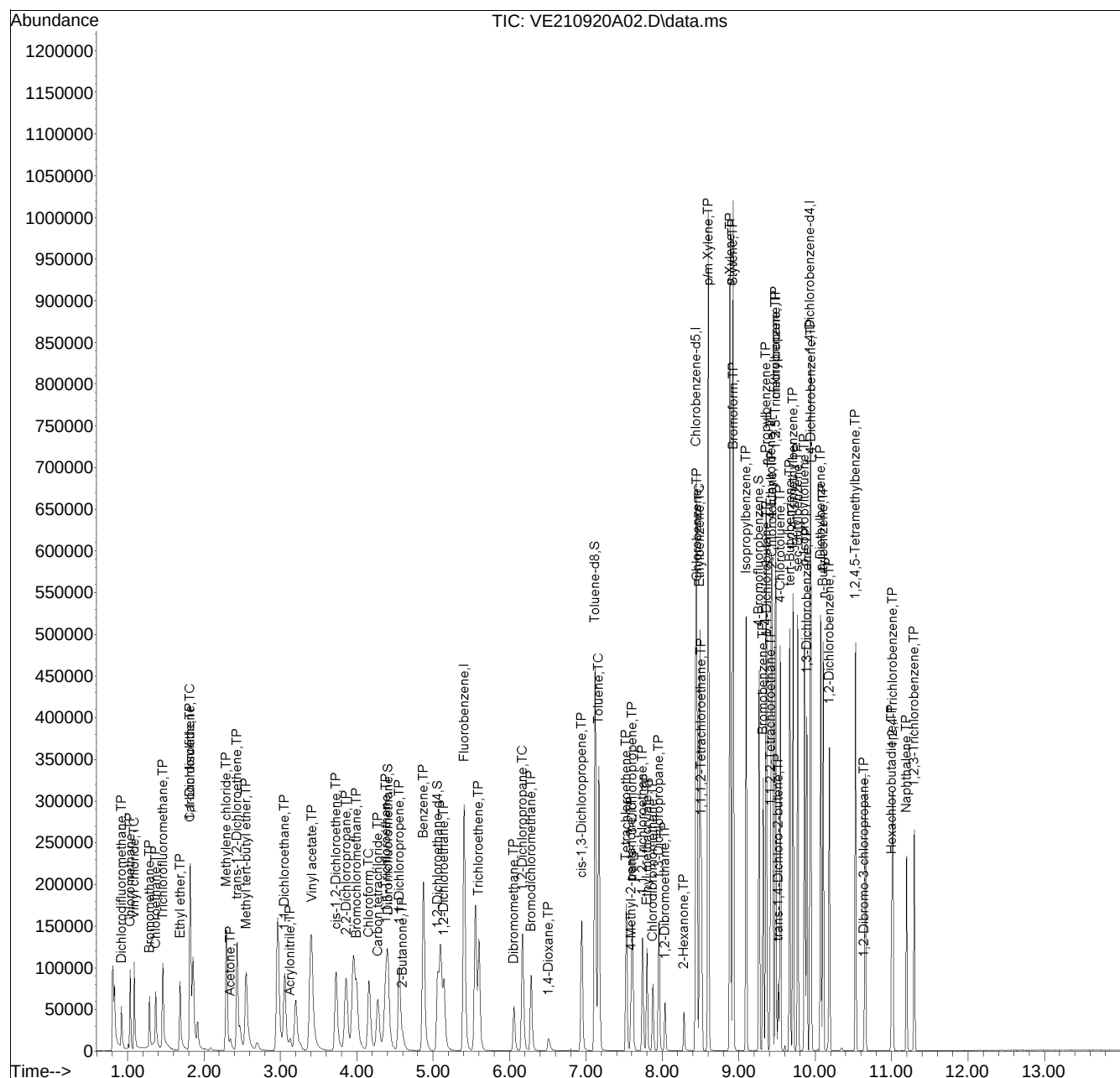
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A02.D
 Acq On : 20 Sep 2021 7:41 am
 Operator : ELAINE:NLK
 Sample : WG1548873-2
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:57 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

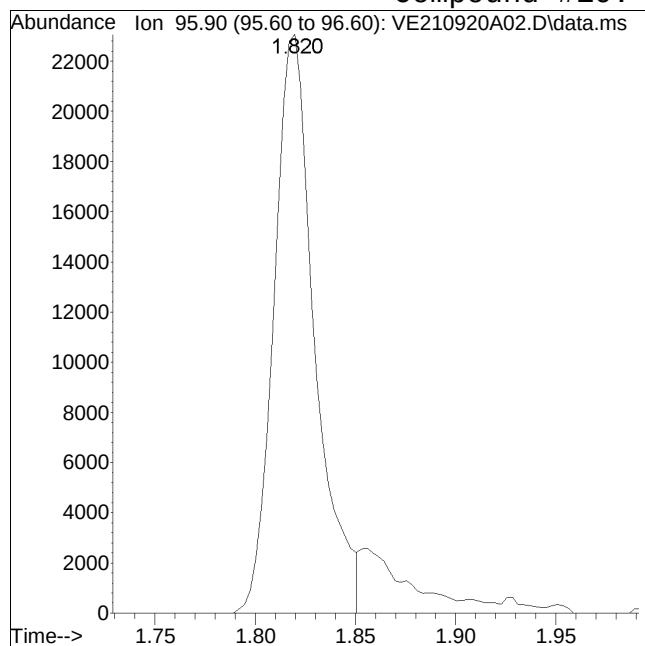
Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•



Manual Integration Report

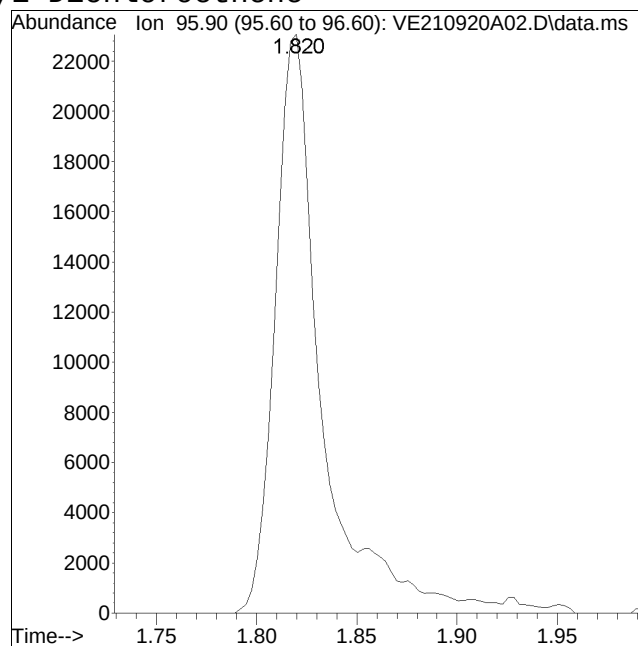
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A02.D Operator : ELAINE:NLK
Date Inj'd : 9/20/2021 7:41 am Instrument : Elaine
Sample : WG1548873-2 Quant Date : 9/20/2021 8:16 am

Compound #10: 1,1-Dichloroethene



Original Peak Response = 32623

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

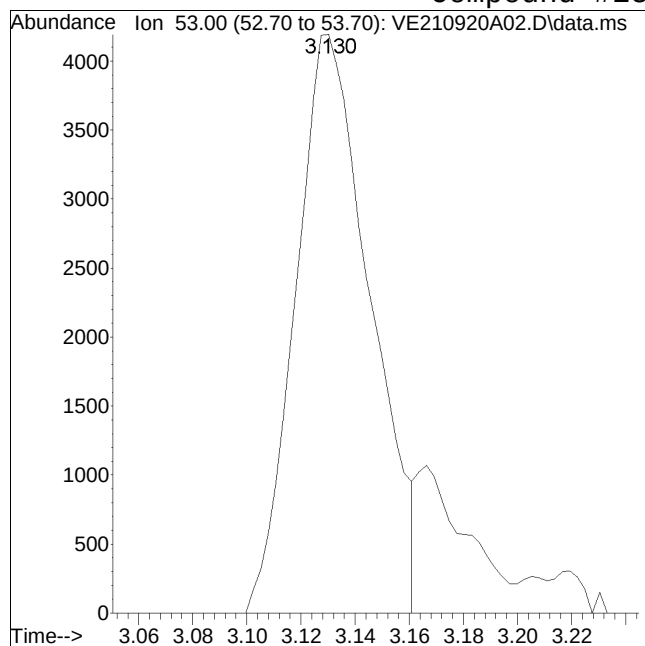


Manual Peak Response = 37952 M1

Manual Integration Report

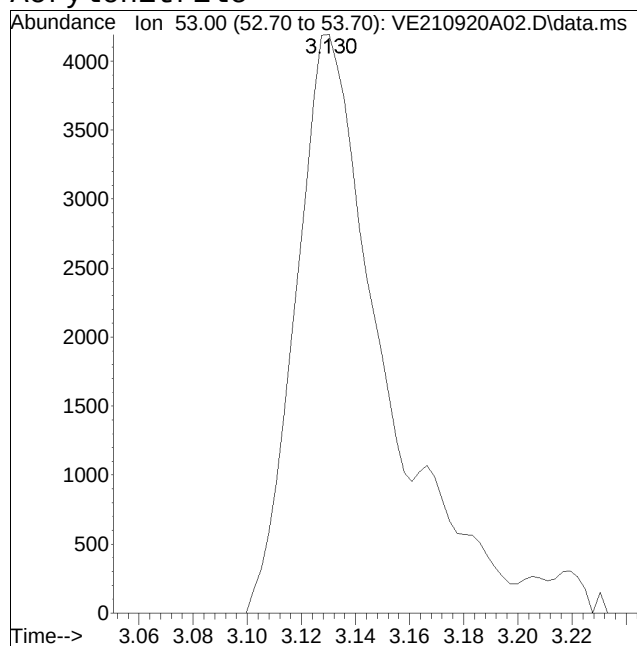
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A02.D Operator : ELAINE:NLK
Date Inj'd : 9/20/2021 7:41 am Instrument : Elaine
Sample : WG1548873-2 Quant Date : 9/20/2021 8:16 am

Compound #25: Acrylonitrile



Original Peak Response = 8051

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



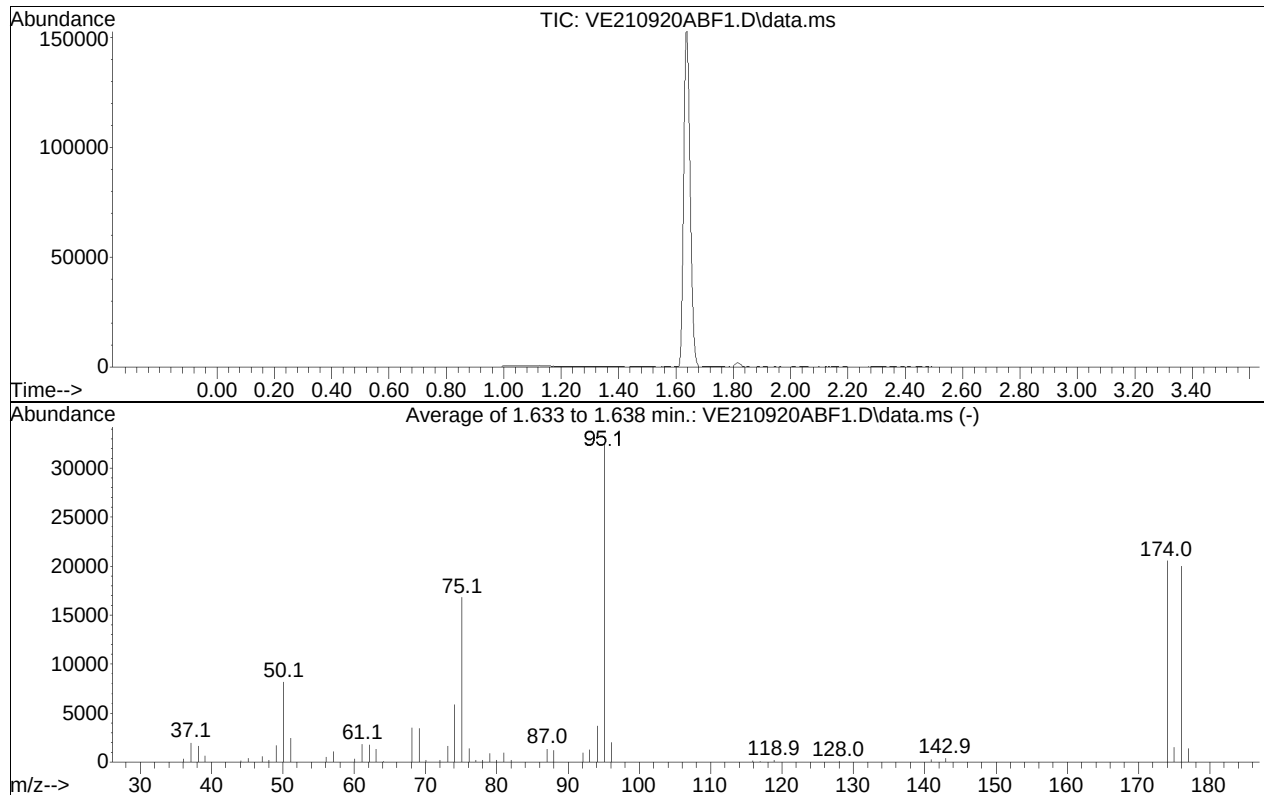
Manual Peak Response = 9810 M1

BFB

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920ABF1.D
 Acq On : 20 Sep 2021 7:03 am
 Operator : ELAINE:NLK
 Sample : WG1548873-1
 Misc : WG1548873
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Mon Sep 13 11:35:38 2021



AutoFind: Scans 231, 232, 233; Background Corrected with Scan 220

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.0	8141	PASS
75	95	30	60	51.5	16788	PASS
95	95	100	100	100.0	32603	PASS
96	95	5	9	6.1	1984	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	63.1	20581	PASS
175	174	5	9	7.4	1514	PASS
176	174	95	101	97.0	19965	PASS
177	176	5	9	6.9	1378	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A05.D
 Acq On : 20 Sep 2021 8:40 am
 Operator : ELAINE:NLK
 Sample : WG1548873-5,31,10,10
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 11:48:44 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.406	96	244395	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery =	93.90%		
59) Chlorobenzene-d5	8.439	117	165554	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery =	95.06%		
79) 1,4-Dichlorobenzene-d4	9.936	152	77862	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery =	92.42%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.410	113	51899	9.322	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.22%		
43) 1,2-Dichloroethane-d4	5.058	65	71808	8.777	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.77%		
60) Toluene-d8	7.120	98	227687	10.002	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.02%		
83) 4-Bromofluorobenzene	9.265	95	93972	10.173	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.73%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	1.033	50	196	N.D.		
4) Vinyl chloride	1.113	62	59	N.D.		
5) Bromomethane	1.291	94	181	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	1.828	76	303	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	2.349	43	1096	Below Cal	#	75
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	3.422	43	25	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A05.D
 Acq On : 20 Sep 2021 8:40 am
 Operator : ELAINE:NLK
 Sample : WG1548873-5,31,10,10
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 11:48:44 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	4.616	43	56		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	5.139	62	25		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	7.432	75	25		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	8.283	43	57		N.D.	
73) Chlorobenzene	8.453	112	64		N.D.	
74) Ethylbenzene	8.492	91	695		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	8.597	106	663	0.085	ug/L #	68
77) o Xylene	8.884	106	283		N.D.	
78) Styrene	8.928	104	458		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	9.095	105	218		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	9.357	91	550		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	9.429	105	289		N.D.	
89) 2-Chlorotoluene	9.440	91	178		N.D.	
90) 1,3,5-Trimethylbenzene	9.479	105	170		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	9.546	91	457		N.D.	
94) tert-Butylbenzene	9.666	119	125		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A05.D
 Acq On : 20 Sep 2021 8:40 am
 Operator : ELAINE:NLK
 Sample : WG1548873-5,31,10,10
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 11:48:44 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	9.710	105	210		N.D.	
98)	sec-Butylbenzene	9.777	105	330		N.D.	
99)	p-Isopropyltoluene	9.858	119	109		N.D.	
100)	1,3-Dichlorobenzene	9.944	146	412		N.D.	
101)	1,4-Dichlorobenzene	9.944	146	412		N.D.	
102)	p-Diethylbenzene	10.075	119	303		N.D.	
103)	n-Butylbenzene	10.105	91	361		N.D.	
104)	1,2-Dichlorobenzene	10.178	146	149		N.D.	
105)	1,2,4,5-Tetramethylben...	10.531	119	339		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	11.015	180	267		N.D.	
110)	Naphthalene	11.196	128	393		N.D.	
111)	1,2,3-Trichlorobenzene	11.299	180	142		N.D.	

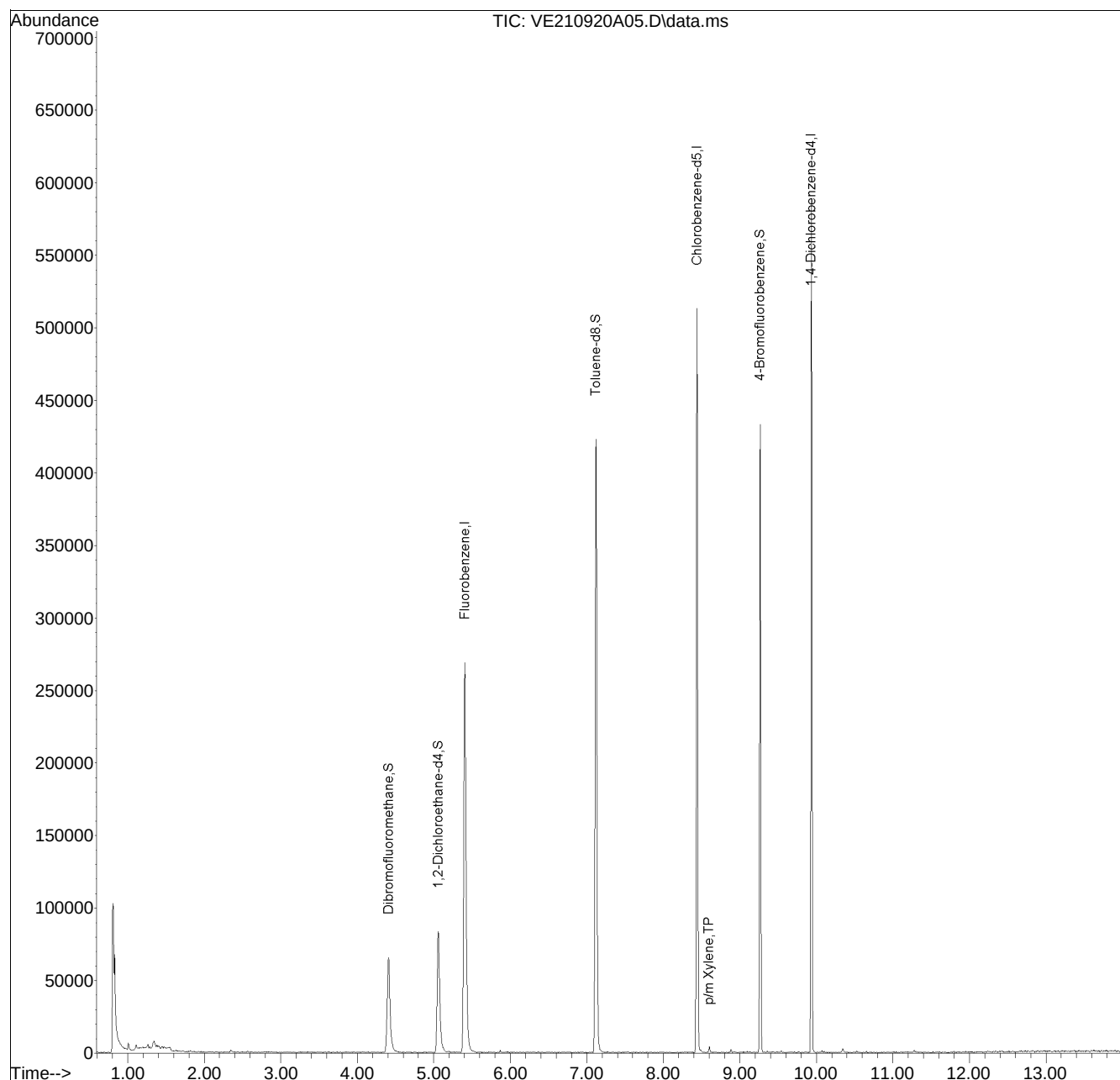
(#) = qualifier out of range (m) = manual integration (+) = signals summed

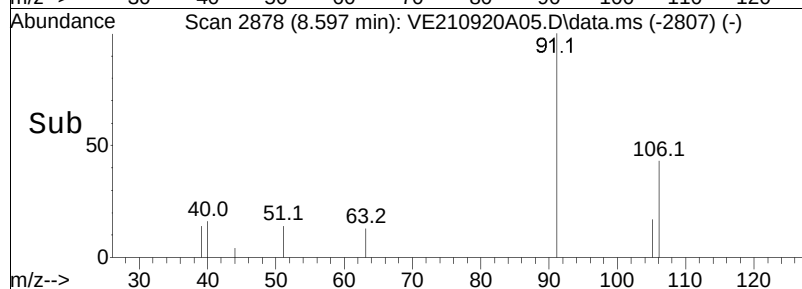
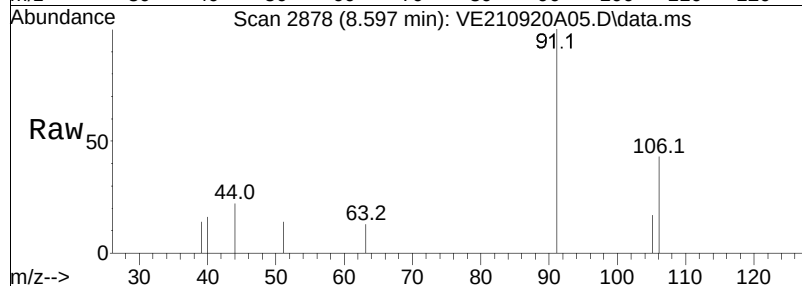
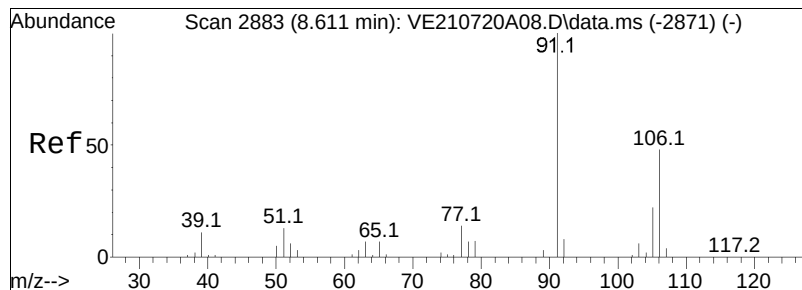
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A05.D
 Acq On : 20 Sep 2021 8:40 am
 Operator : ELAINE:NLK
 Sample : WG1548873-5,31,10,10
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 11:48:44 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

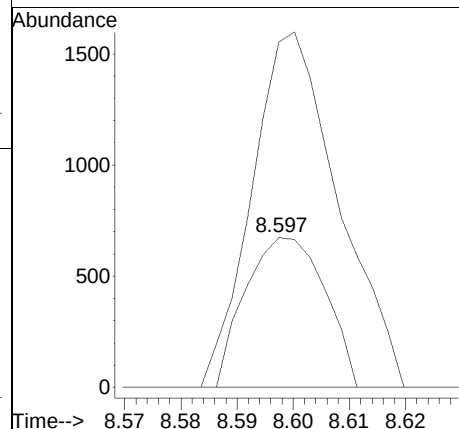
Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•





#76
 p/m Xylene
 Concen: 0.09 ug/L
 RT: 8.597 min Scan# 2878
 Delta R.T. -0.003 min
 Lab File: VE210920A05.D
 Acq: 20 Sep 2021 8:40 am

Tgt Ion	Ratio	Lower	Upper
106	100		
91	257.8	166.4	249.6#



Manual Integration Report

Data Path	: I:\VOLATILES\Elaine\2021\20	Method	: Elaine_210909A_8260.m
Data File	: VE210920A05.D	Operator	: ELAINE:NLK
Date Inj'd	: 9/20/2021 8:40 am	Instrument	: Elaine
Sample	: WG1548873-5,31,10,10	Quant Date	: 9/20/2021 11:48 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A02.D
 Acq On : 20 Sep 2021 7:41 am
 Operator : ELAINE:NLK
 Sample : WG1548873-3,31,10,10
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:57 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.406	96	260268	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery	=	100.00%	
59) Chlorobenzene-d5	8.441	117	174153	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	9.936	152	84245	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.410	113	54683	9.223	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	92.23%	
43) 1,2-Dichloroethane-d4	5.061	65	76701	8.804	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	88.04%	
60) Toluene-d8	7.120	98	242532	10.128	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	101.28%	
83) 4-Bromofluorobenzene	9.265	95	99248	9.931	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.31%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.921	85	28462	6.299	ug/L	96
3) Chloromethane	1.035	50	52355	8.772	ug/L	100
4) Vinyl chloride	1.088	62	56218	10.108	ug/L	94
5) Bromomethane	1.288	94	23254	8.016	ug/L	95
6) Chloroethane	1.369	64	39970	11.249	ug/L	100
7) Trichlorofluoromethane	1.464	101	58074	8.521	ug/L	99
8) Ethyl ether	1.689	74	23928	8.571	ug/L	83
10) 1,1-Dichloroethene	1.820	96	37952M1	9.485	ug/L	
11) Carbon disulfide	1.823	76	106766	9.804	ug/L	97
15) Methylene chloride	2.296	84	49424	9.452	ug/L	87
17) Acetone	2.348	43	14047	9.400	ug/L	99
18) trans-1,2-Dichloroethene	2.435	96	42436	9.677	ug/L	96
20) Methyl tert-butyl ether	2.554	73	102496	7.056	ug/L	96
23) 1,1-Dichloroethane	3.058	63	107041	10.302	ug/L	95
25) Acrylonitrile	3.130	53	9810M1	6.391	ug/L	
27) Vinyl acetate	3.414	43	98382	9.231	ug/L	99
28) cis-1,2-Dichloroethene	3.731	96	47792	9.294	ug/L	92
29) 2,2-Dichloropropane	3.862	77	79002	10.079	ug/L	92
30) Bromochloromethane	3.998	128	16020	8.157	ug/L	87
32) Chloroform	4.160	83	84495	9.258	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A02.D
 Acq On : 20 Sep 2021 7:41 am
 Operator : ELAINE:NLK
 Sample : WG1548873-3,31,10,10
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:57 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34)	Carbon tetrachloride	4.276	117	48394	7.856	ug/L #	95
37)	1,1,1-Trichloroethane	4.382	97	67959	8.547	ug/L #	94
39)	2-Butanone	4.599	43	13670	6.616	ug/L #	80
40)	1,1-Dichloropropene	4.557	75	62359	9.636	ug/L	97
41)	Benzene	4.872	78	195655	9.765	ug/L	97
44)	1,2-Dichloroethane	5.142	62	68352	8.338	ug/L	99
48)	Trichloroethene	5.598	95	45326	9.261	ug/L	90
50)	Dibromomethane	6.057	93	22581	8.028	ug/L	91
51)	1,2-Dichloropropane	6.171	63	57196	9.960	ug/L #	93
54)	Bromodichloromethane	6.282	83	57648	8.001	ug/L	96
57)	1,4-Dioxane	6.508	88	11111	314.887	ug/L	94
58)	cis-1,3-Dichloropropene	6.945	75	69467	8.576	ug/L	96
61)	Toluene	7.167	92	122212	9.912	ug/L	95
62)	4-Methyl-2-pentanone	7.590	58	11926	6.896	ug/L	93
63)	Tetrachloroethene	7.529	166	37952	9.208	ug/L	98
65)	trans-1,3-Dichloropropene	7.607	75	58694	8.207	ug/L	94
68)	1,1,2-Trichloroethane	7.740	83	28401	8.785	ug/L	97
69)	Chlorodibromomethane	7.874	129	29216	7.215	ug/L	96
70)	1,3-Dichloropropane	7.955	76	59718	8.166	ug/L	100
71)	1,2-Dibromoethane	8.035	107	27817	7.714	ug/L	96
72)	2-Hexanone	8.283	43	21136	6.519	ug/L	95
73)	Chlorobenzene	8.453	112	114640	9.407	ug/L	97
74)	Ethylbenzene	8.492	91	231910	10.094	ug/L	96
75)	1,1,1,2-Tetrachloroethane	8.511	131	34061	8.009	ug/L	94
76)	p/m Xylene	8.600	106	163268	20.015	ug/L	90
77)	o Xylene	8.887	106	156439	20.051	ug/L	97
78)	Styrene	8.926	104	271544	19.782	ug/L	95
80)	Bromoform	8.931	173	15305	6.580	ug/L	97
82)	Isopropylbenzene	9.098	105	206179	9.759	ug/L	100
84)	Bromobenzene	9.321	156	42998	9.283	ug/L	97
85)	n-Propylbenzene	9.357	91	261235	10.310	ug/L	97
87)	1,1,2,2-Tetrachloroethane	9.415	83	34795	8.110	ug/L	97
88)	4-Ethyltoluene	9.426	105	198149	9.948	ug/L	99
89)	2-Chlorotoluene	9.440	91	182503	9.907	ug/L	95
90)	1,3,5-Trimethylbenzene	9.482	105	171471	9.723	ug/L	96
91)	1,2,3-Trichloropropane	9.482	75	31649	8.143	ug/L	90
92)	trans-1,4-Dichloro-2-b...	9.515	53	13016	7.997	ug/L #	86
93)	4-Chlorotoluene	9.543	91	167004	9.929	ug/L	93
94)	tert-Butylbenzene	9.668	119	134934	9.486	ug/L #	86

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A02.D
 Acq On : 20 Sep 2021 7:41 am
 Operator : ELAINE:NLK
 Sample : WG1548873-3,31,10,10
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:57 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

97)	1,2,4-Trimethylbenzene	9.710	105	169586	9.724	ug/L	97
98)	sec-Butylbenzene	9.771	105	209230	9.721	ug/L	96
99)	p-Isopropyltoluene	9.860	119	168992	9.546	ug/L	99
100)	1,3-Dichlorobenzene	9.891	146	84378	9.696	ug/L	97
101)	1,4-Dichlorobenzene	9.944	146	82516	9.429	ug/L	97
102)	p-Diethylbenzene	10.072	119	95578	9.371	ug/L	98
103)	n-Butylbenzene	10.105	91	162439	9.960	ug/L	98
104)	1,2-Dichlorobenzene	10.186	146	75393	9.094	ug/L	97
105)	1,2,4,5-Tetramethylben...	10.528	119	145992	9.074	ug/L	97
106)	1,2-Dibromo-3-chloropr...	10.642	155	4050	6.481	ug/L	95
108)	Hexachlorobutadiene	11.001	225	16593	8.747	ug/L	95
109)	1,2,4-Trichlorobenzene	11.015	180	46375	8.713	ug/L	100
110)	Naphthalene	11.196	128	96030	7.307	ug/L	100
111)	1,2,3-Trichlorobenzene	11.296	180	39653	8.166	ug/L	96

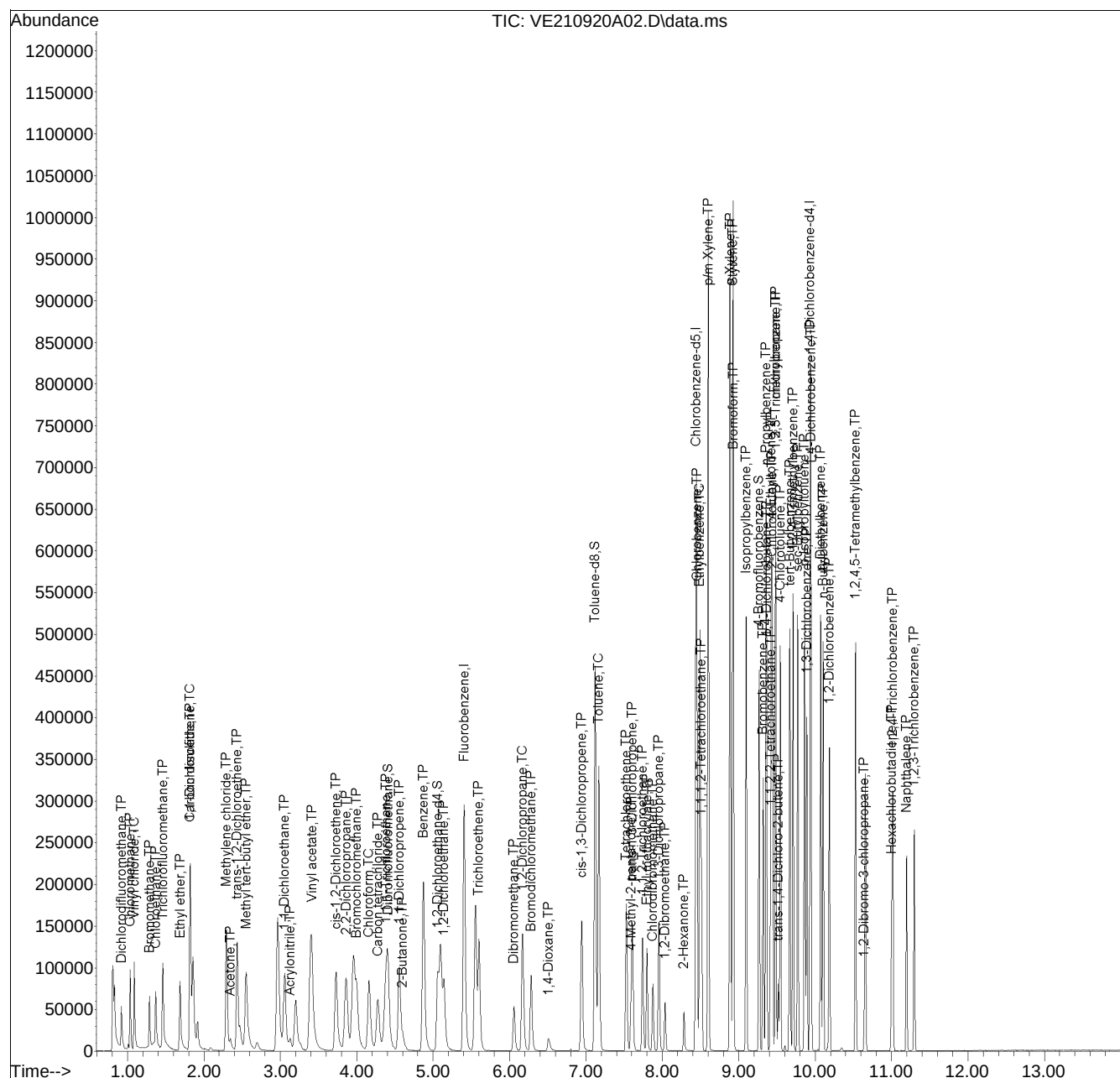
(#) = qualifier out of range (m) = manual integration (+) = signals summed

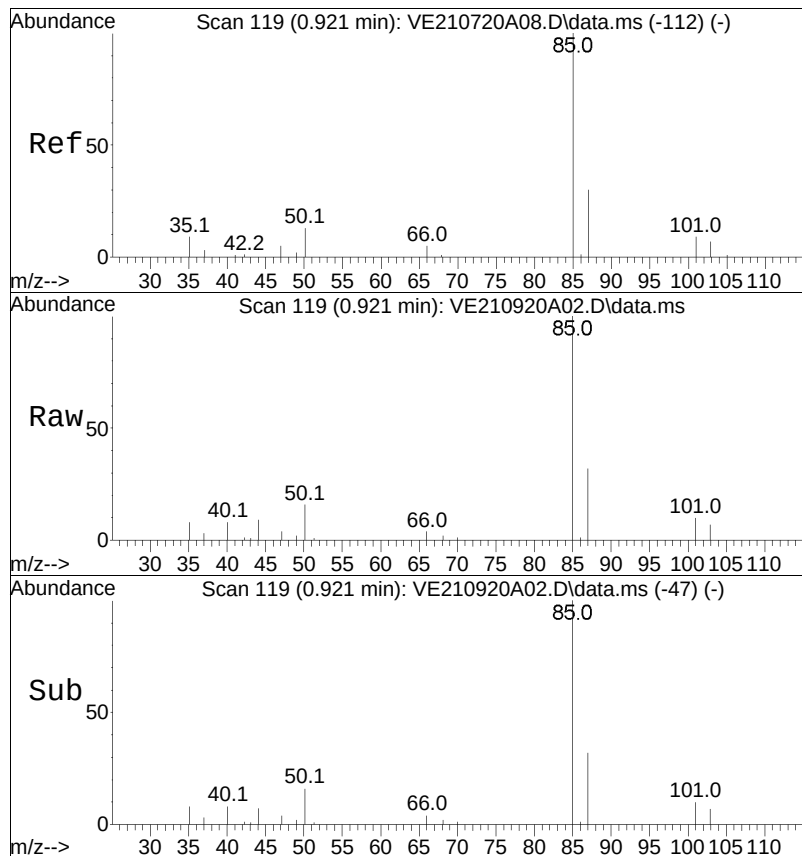
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A02.D
 Acq On : 20 Sep 2021 7:41 am
 Operator : ELAINE:NLK
 Sample : WG1548873-3,31,10,10
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:57 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

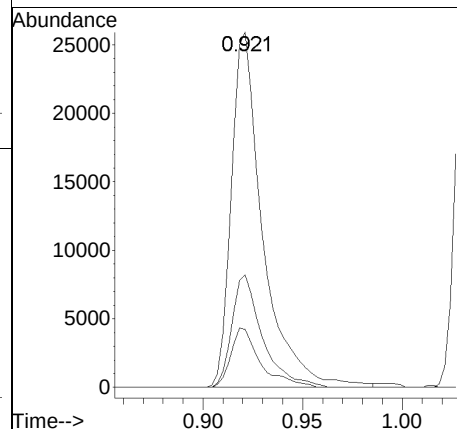
Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•

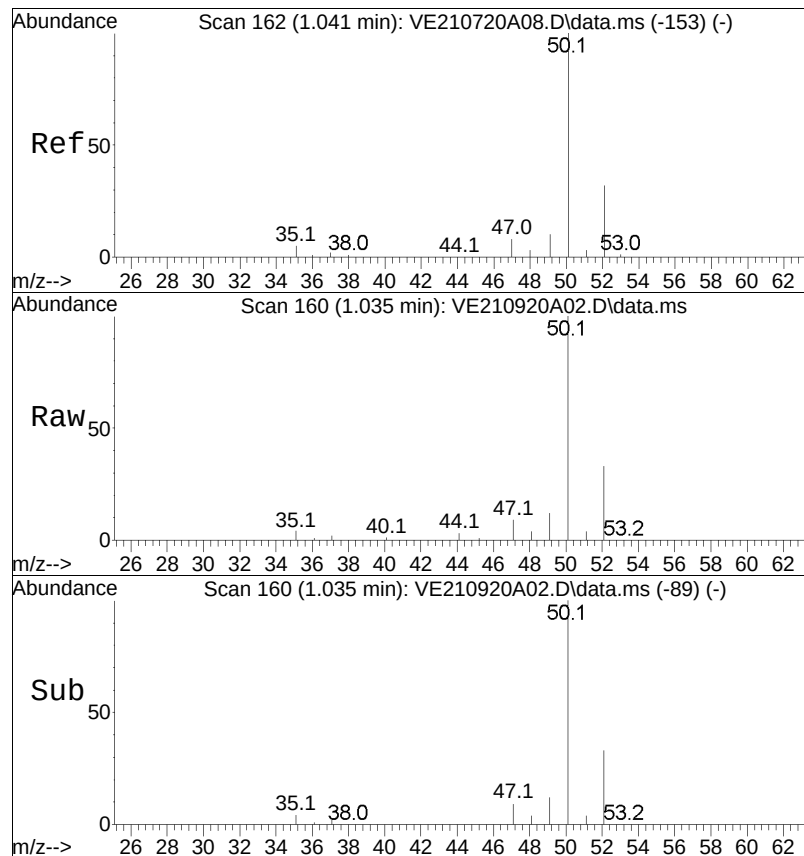




#2
 Dichlorodifluoromethane
 Concen: 6.30 ug/L
 RT: 0.921 min Scan# 119
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

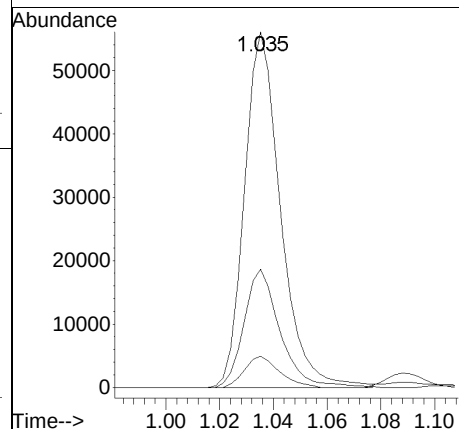
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	28462		
87	30.8		21.0	43.6
50	15.9		8.9	18.5

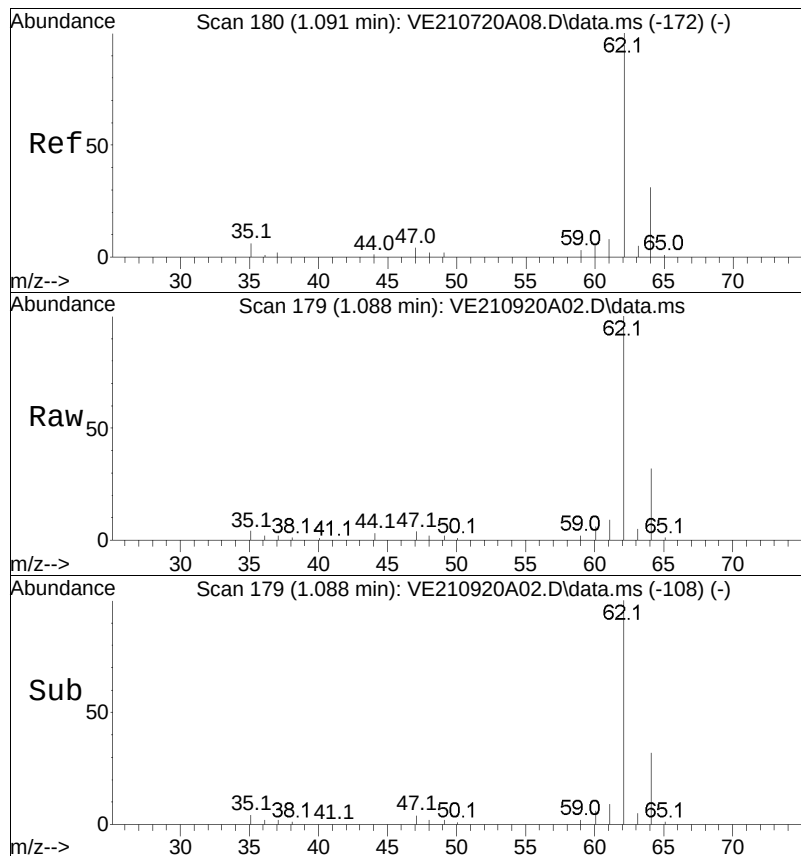




#3
 Chloromethane
 Concen: 8.77 ug/L
 RT: 1.035 min Scan# 160
 Delta R.T. -0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

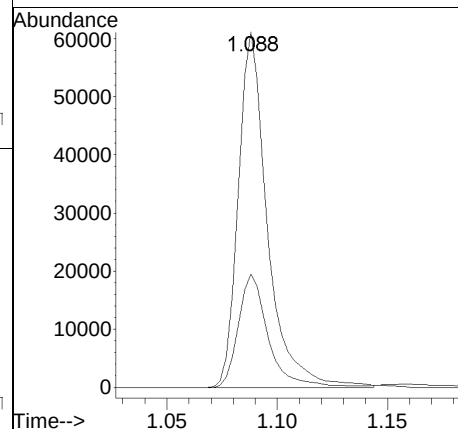
Tgt	Ion: 50	Resp:	52355
Ion	Ratio	Lower	Upper
50	100		
52	33.1	12.9	52.9
47	8.5	0.0	28.3

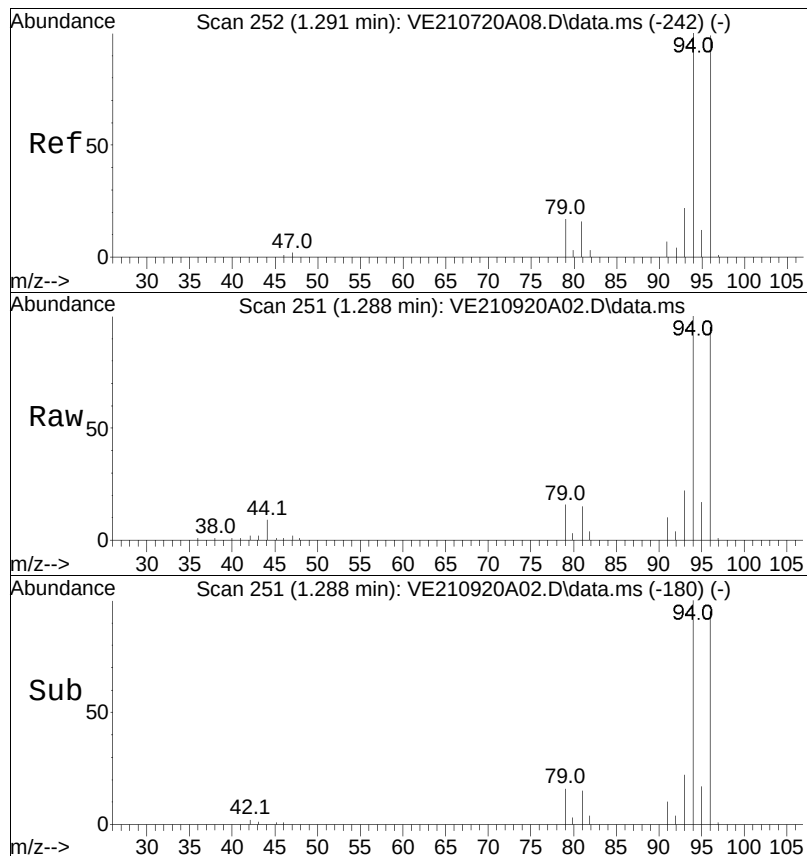




#4
 Vinyl chloride
 Concen: 10.11 ug/L
 RT: 1.088 min Scan# 179
 Delta R.T. -0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

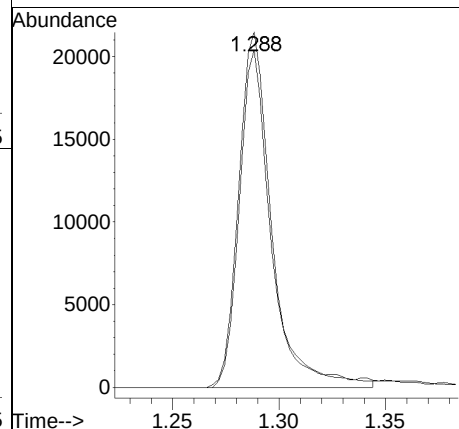
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.5	9.1	49.1

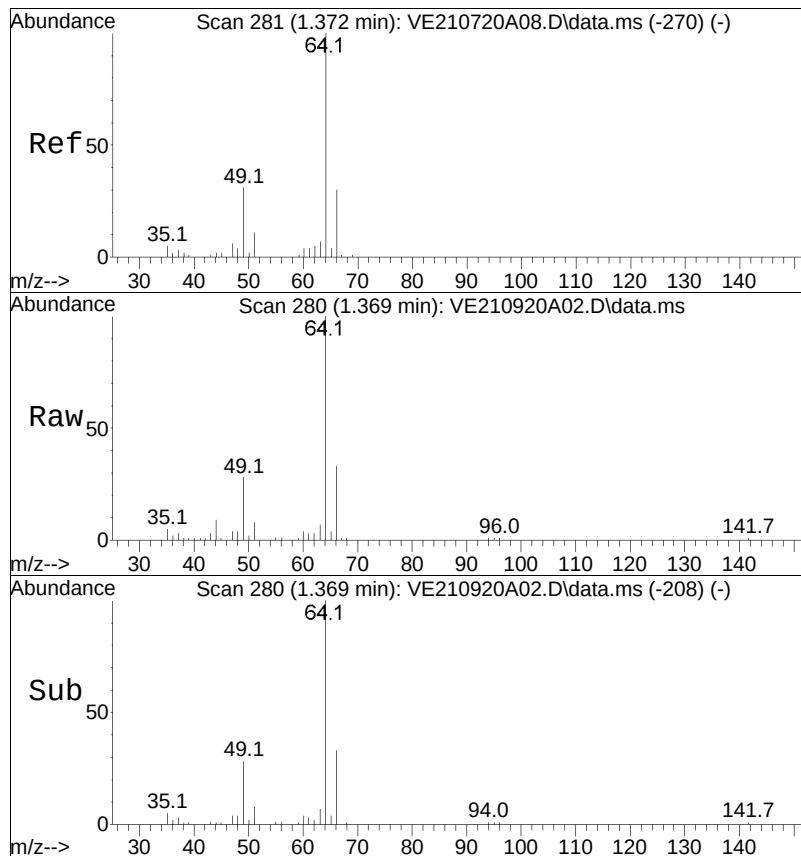




#5
 Bromomethane
 Concen: 8.02 ug/L
 RT: 1.288 min Scan# 251
 Delta R.T. -0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

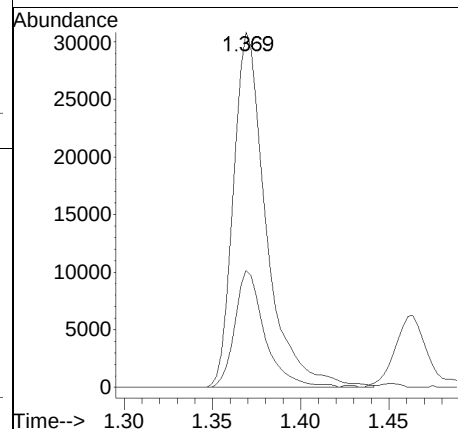
Tgt Ion	Ratio	Lower	Upper
94	100		
96	90.7	75.6	115.6

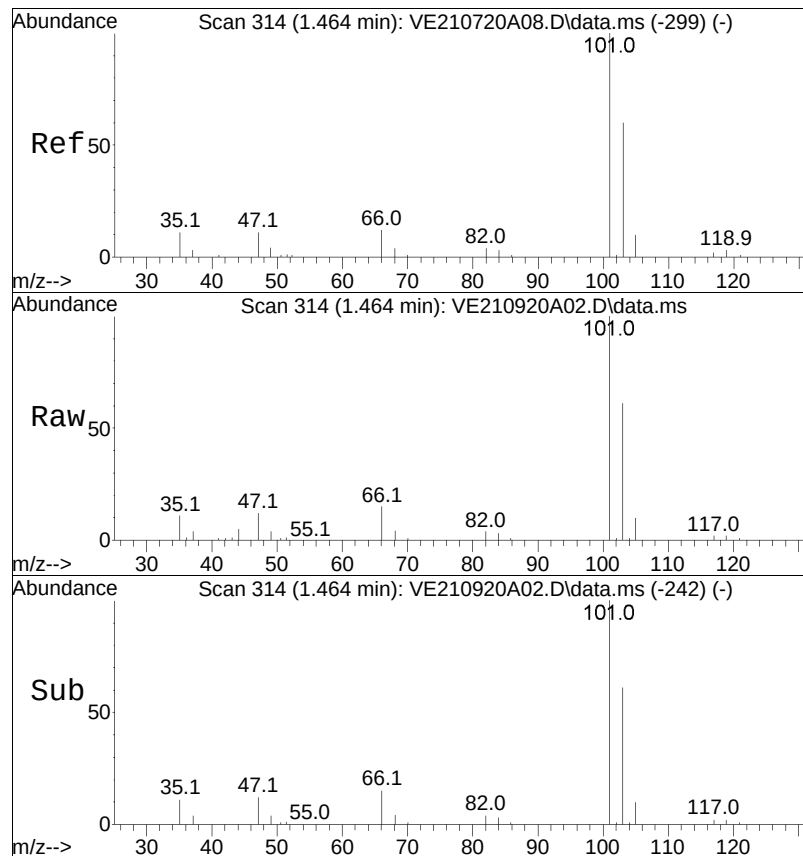




#6
 Chloroethane
 Concen: 11.25 ug/L
 RT: 1.369 min Scan# 280
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

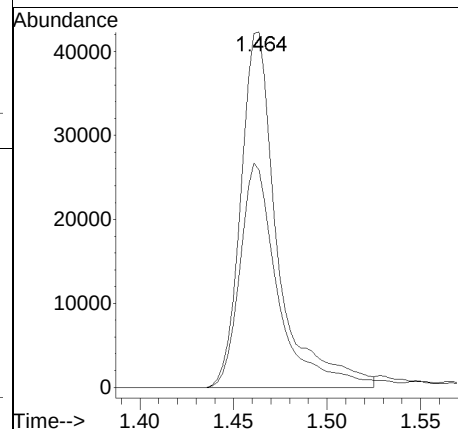
Tgt Ion	Ratio	Lower	Upper
64	100		
66	30.0	9.8	49.8

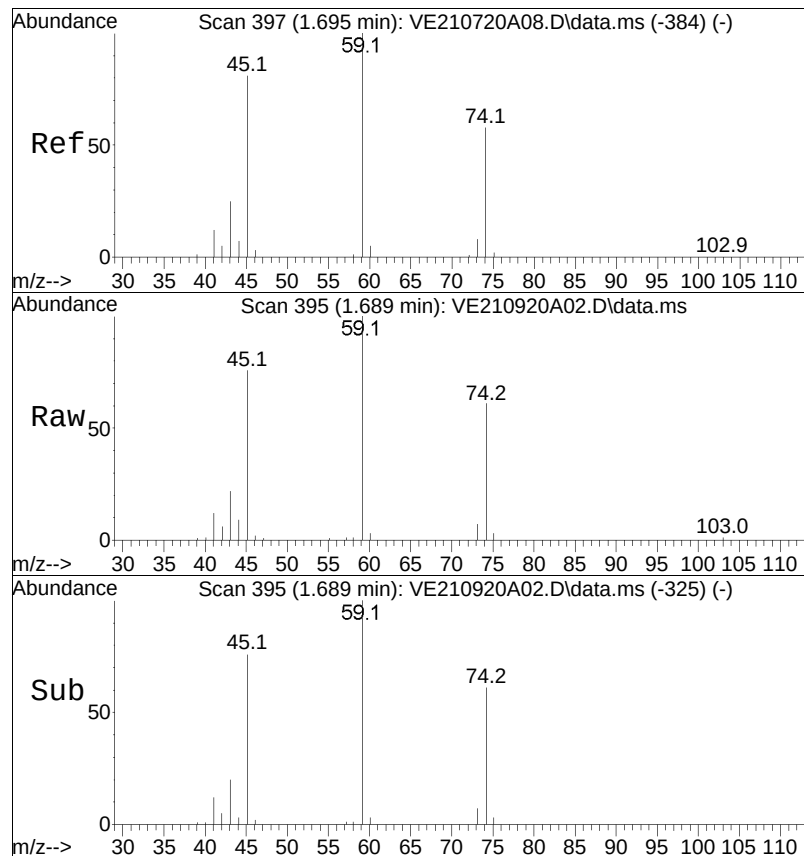




#7
 Trichlorofluoromethane
 Concen: 8.52 ug/L
 RT: 1.464 min Scan# 314
 Delta R.T. -0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

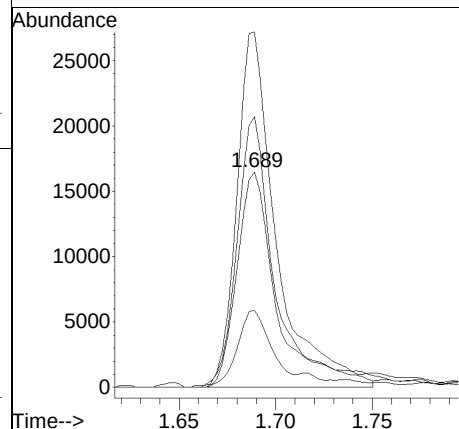
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	66.5	53.8	80.6	

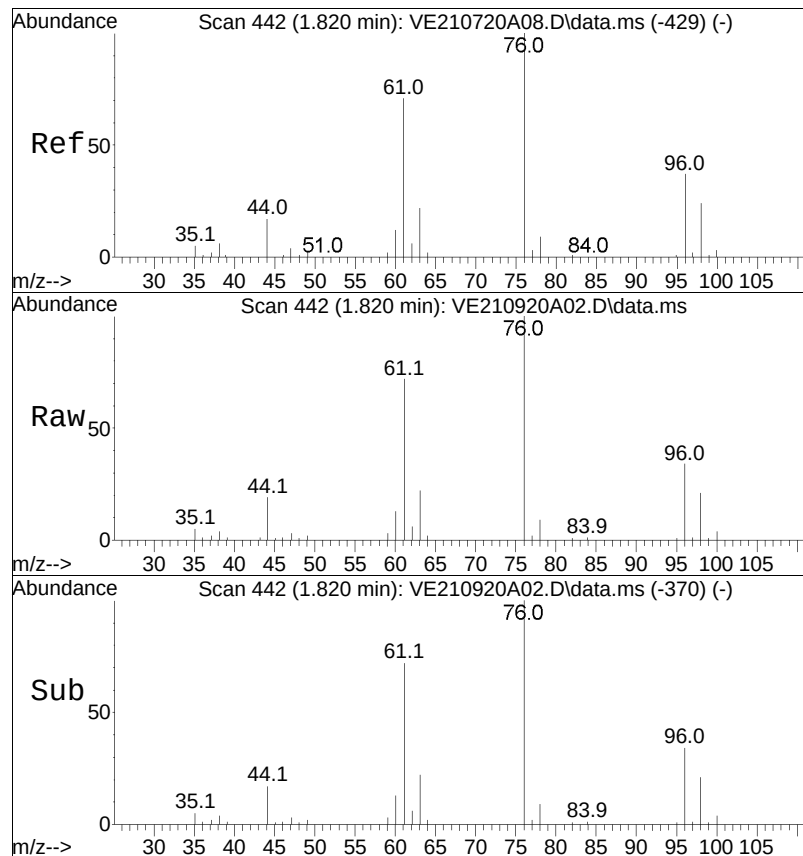




#8
 Ethyl ether
 Concen: 8.57 ug/L
 RT: 1.689 min Scan# 395
 Delta R.T. -0.006 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

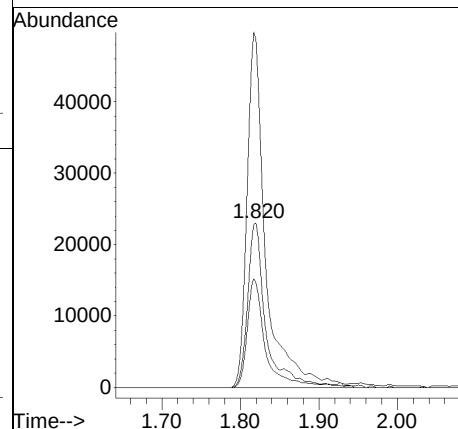
Tgt Ion:	74	Resp:	23928
Ion Ratio	Lower	Upper	
74	100		
59	161.3	122.2	253.8
45	122.7	91.9	190.9
43	31.1	25.2	52.2

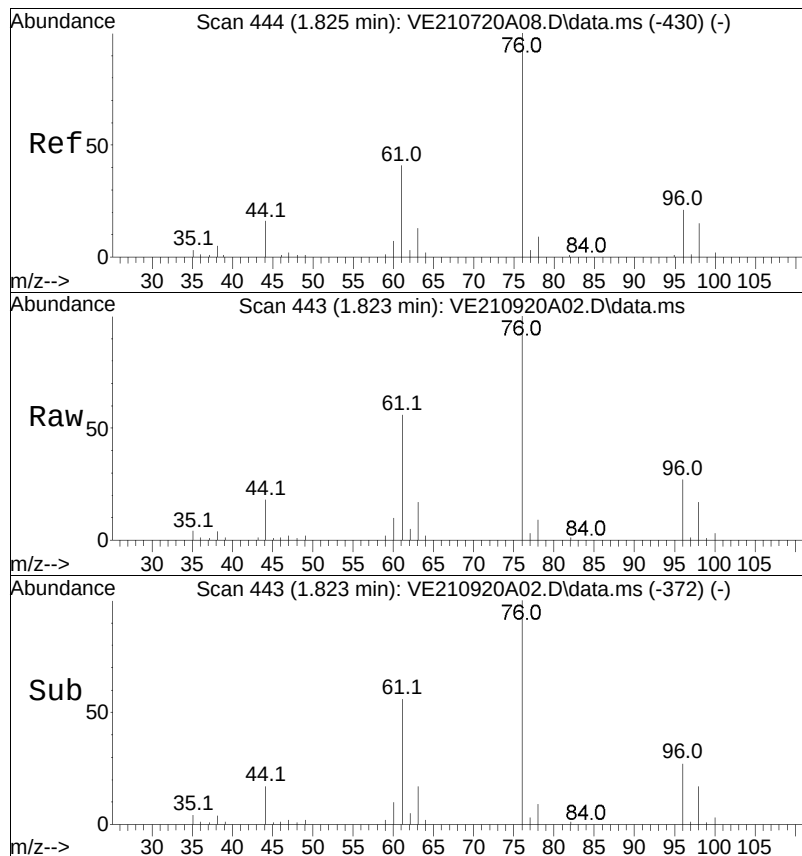




#10
 1,1-Dichloroethene
 Concen: 9.49 ug/L M1
 RT: 1.820 min Scan# 442
 Delta R.T. -0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

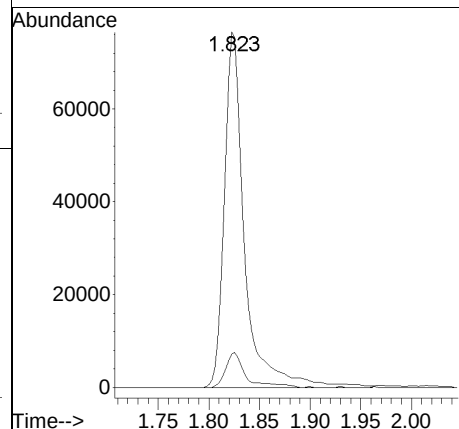
Tgt Ion	Ratio	Lower	Upper
96	100		
61	207.8	186.1	279.1
63	63.6	57.6	86.4

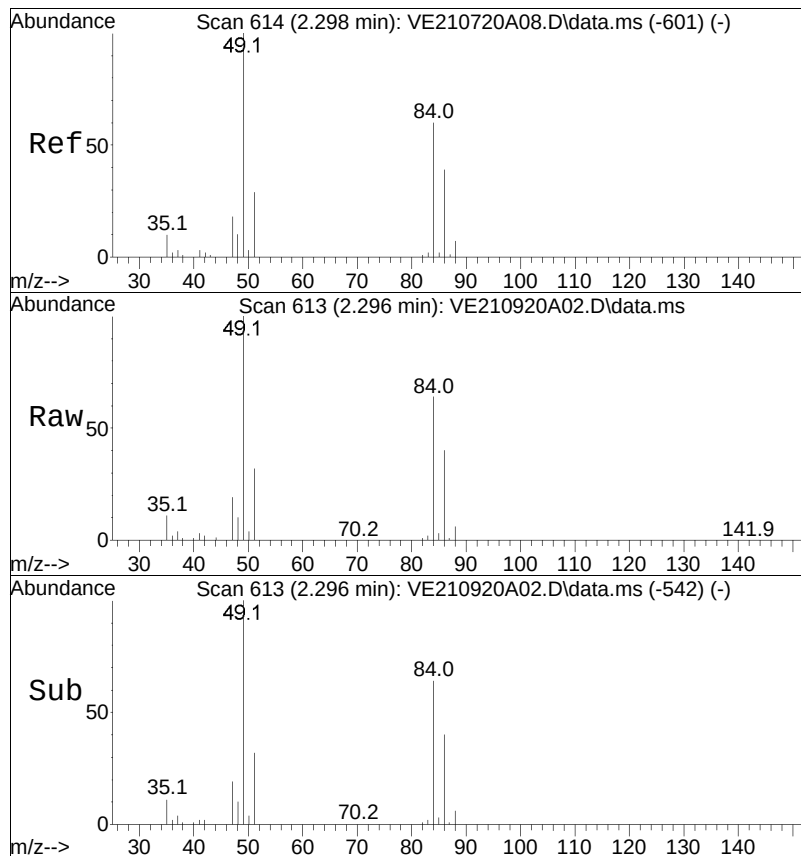




#11
 Carbon disulfide
 Concen: 9.80 ug/L
 RT: 1.823 min Scan# 443
 Delta R.T. -0.002 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

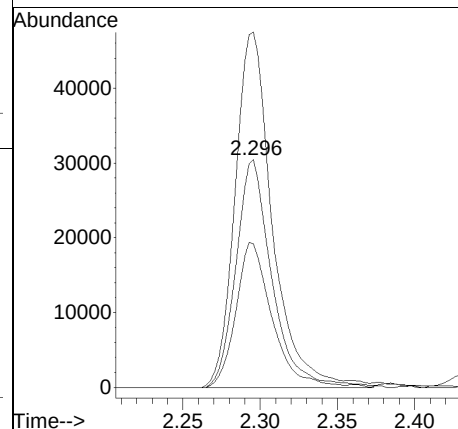
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.6	5.7	11.7

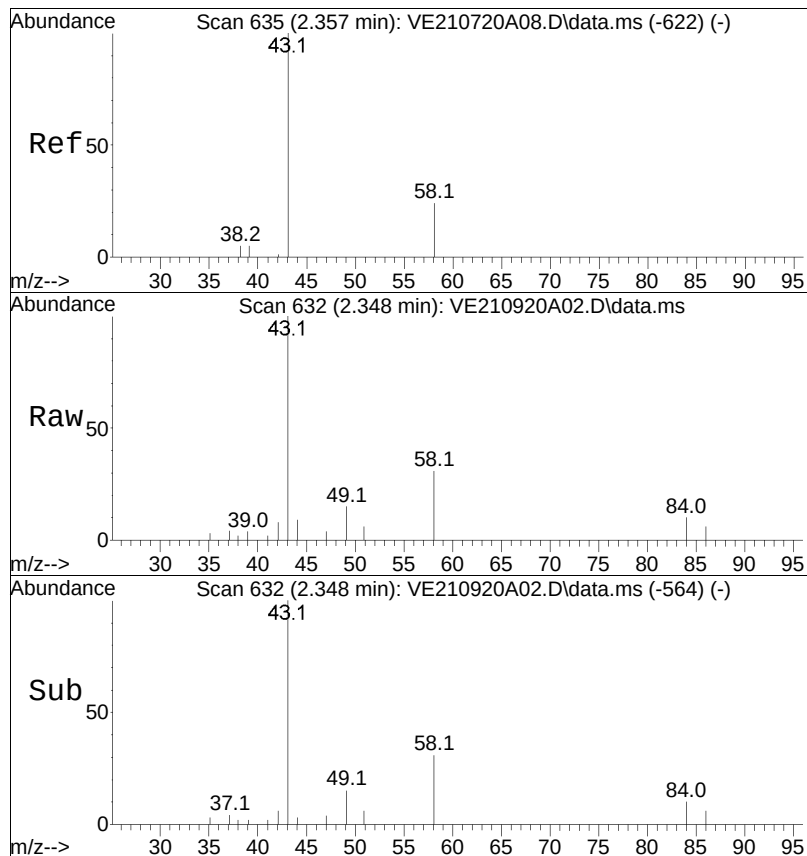




#15
Methylene chloride
Concen: 9.45 ug/L
RT: 2.296 min Scan# 613
Delta R.T. -0.002 min
Lab File: VE210920A02.D
Acq: 20 Sep 2021 7:41 am

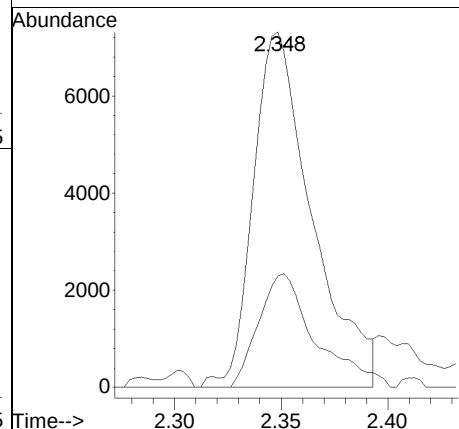
Tgt	Ion: 84	Resp:	49424
Ion	Ratio	Lower	Upper
84	100		
86	63.5	40.4	83.8
49	160.0	120.0	249.2

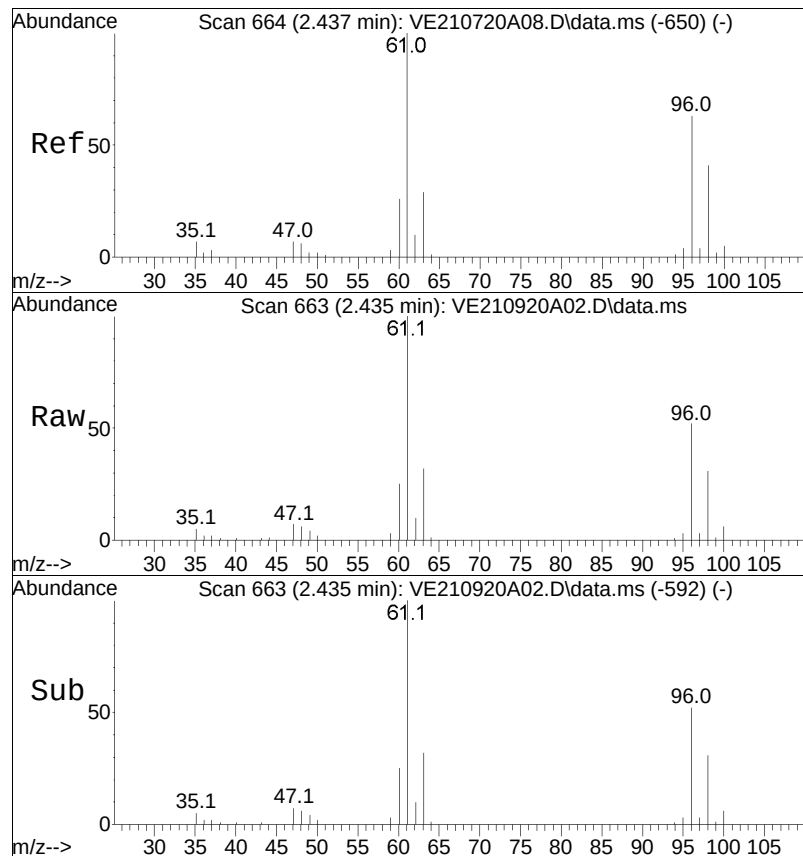




#17
 Acetone
 Concen: 9.40 ug/L
 RT: 2.348 min Scan# 632
 Delta R.T. -0.012 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

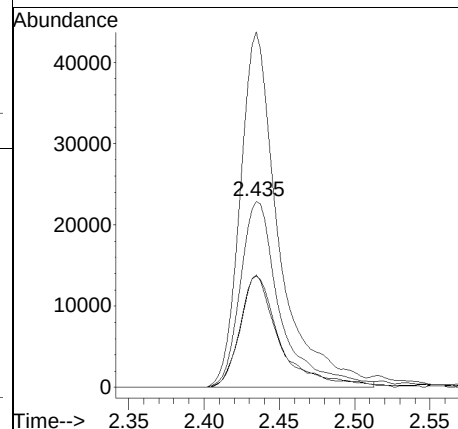
Tgt Ion:	43	58	Ratio	100	31.0	Resp:	14047	Lower	Upper
43	100								
58		31.0						24.2	36.4

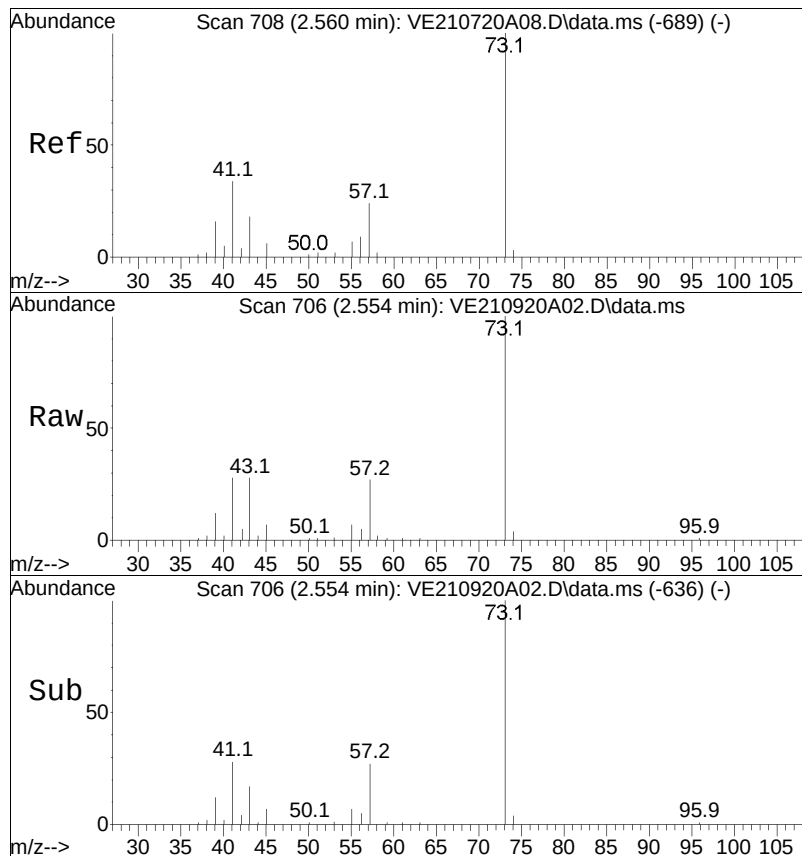




#18
 trans-1,2-Dichloroethene
 Concen: 9.68 ug/L
 RT: 2.435 min Scan# 663
 Delta R.T. -0.002 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

Tgt Ion:	96	Resp:	42436
Ion Ratio	Lower	Upper	
96	100		
61	183.9	124.0	257.6
98	61.1	41.2	85.6
63	57.7	38.4	79.7





#20

Methyl tert-butyl ether

Concen: 7.06 ug/L

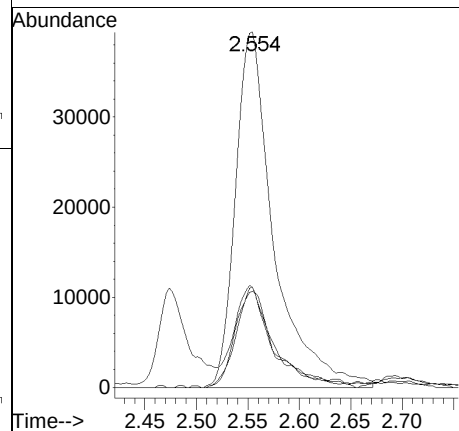
RT: 2.554 min Scan# 706

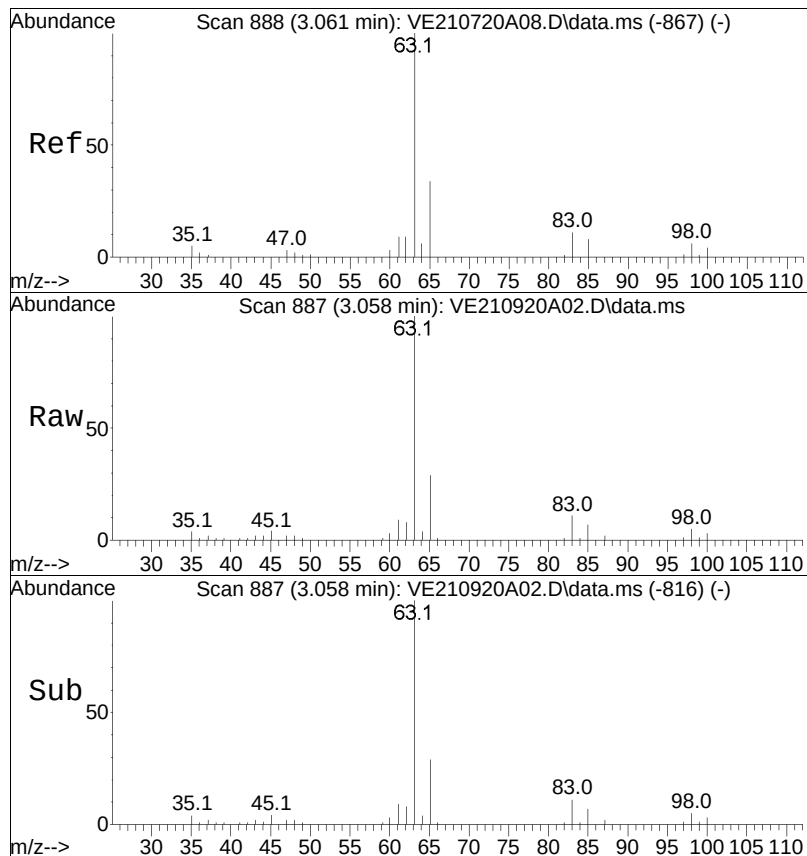
Delta R.T. -0.006 min

Lab File: VE210920A02.D

Acq: 20 Sep 2021 7:41 am

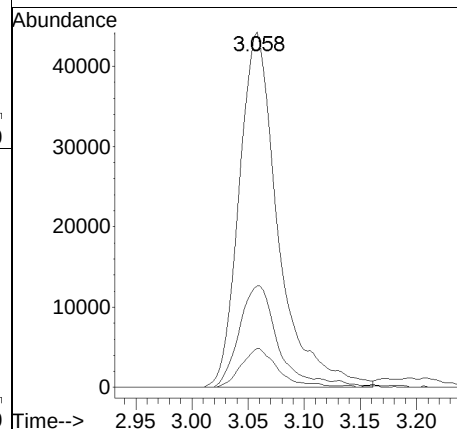
Tgt	Ion: 73	Resp:	102496
Ion	Ratio	Lower	Upper
73	100		
57	26.7	17.5	36.3
43	26.8	15.3	31.9
41	26.7	15.3	31.7

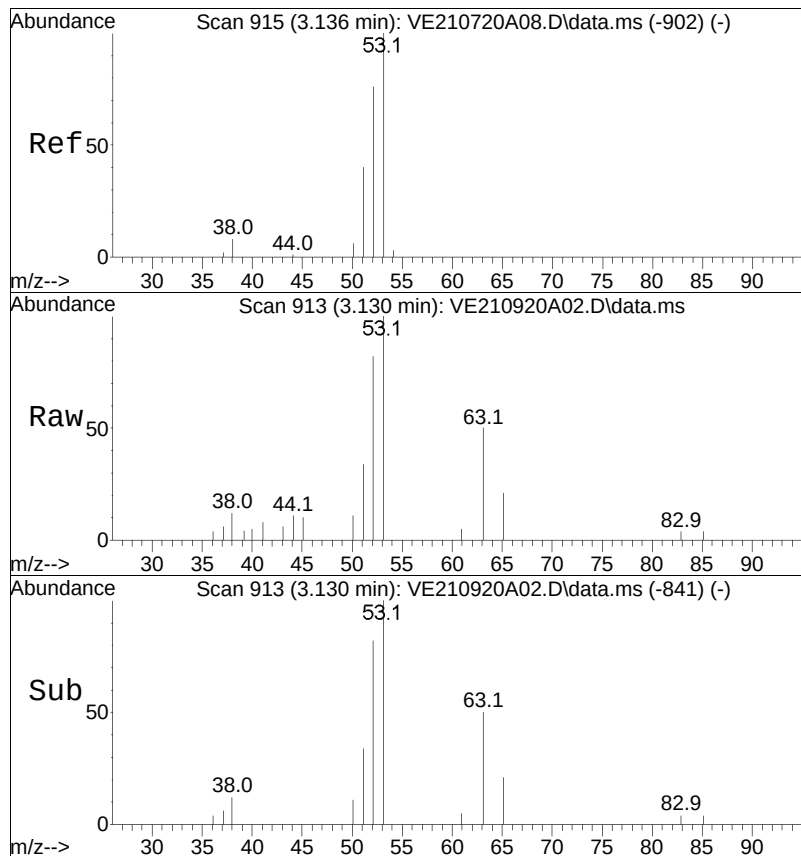




#23
 1,1-Dichloroethane
 Concen: 10.30 ug/L
 RT: 3.058 min Scan# 887
 Delta R.T. -0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

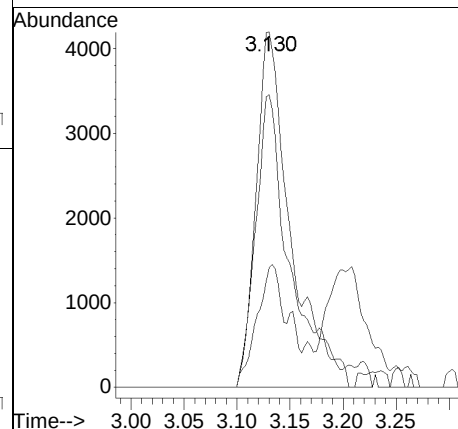
Tgt Ion	Ratio	Lower	Upper
63	100		
65	28.2	11.0	51.0
83	10.0	0.0	31.8

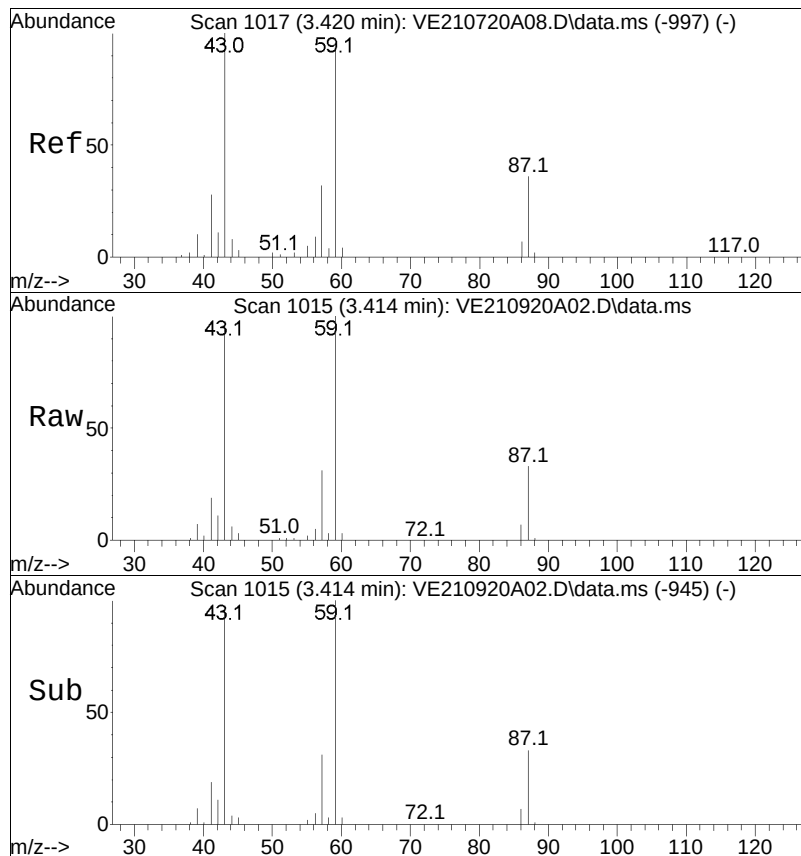




#25
 Acrylonitrile
 Concen: 6.39 ug/L M1
 RT: 3.130 min Scan# 913
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

Tgt Ion:	53	Resp:	9810
Ion Ratio	Lower	Upper	
53	100		
52	77.7	66.7	100.1
51	24.4	30.6	46.0#





#27

Vinyl acetate

Concen: 9.23 ug/L

RT: 3.414 min Scan# 1015

Delta R.T. -0.006 min

Lab File: VE210920A02.D

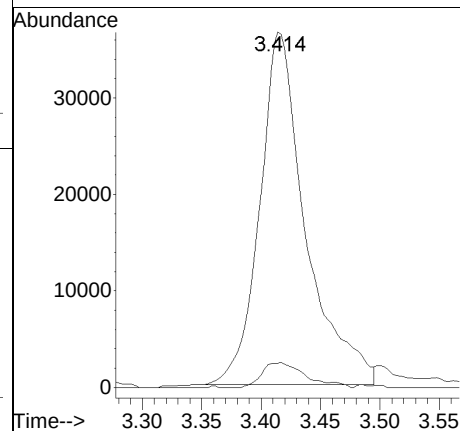
Acq: 20 Sep 2021 7:41 am

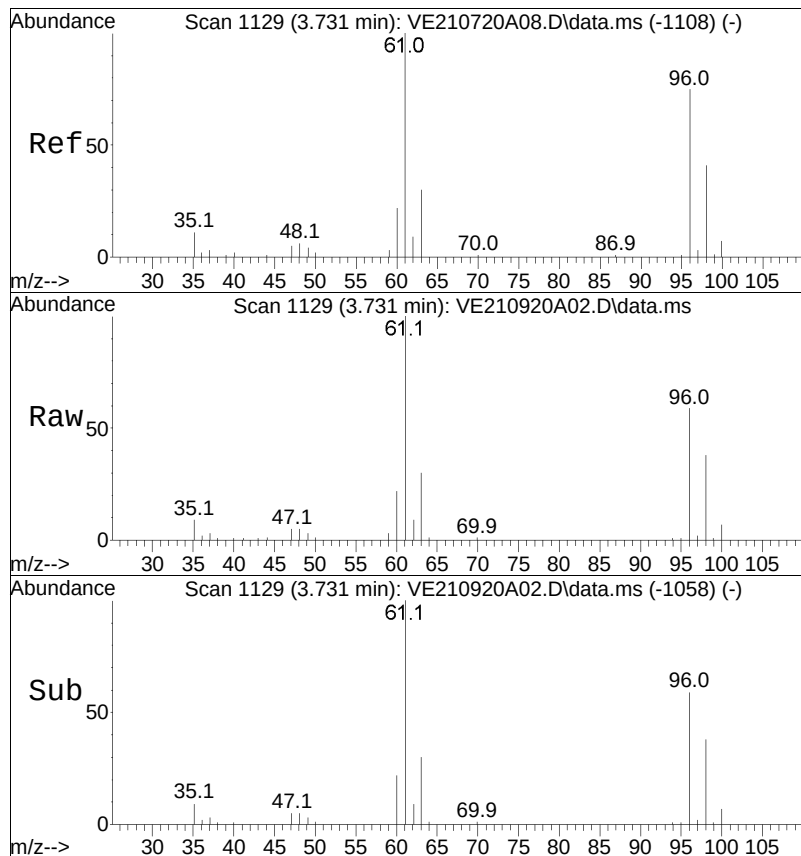
Tgt Ion: 43 Resp: 98382

Ion Ratio Lower Upper

43 100

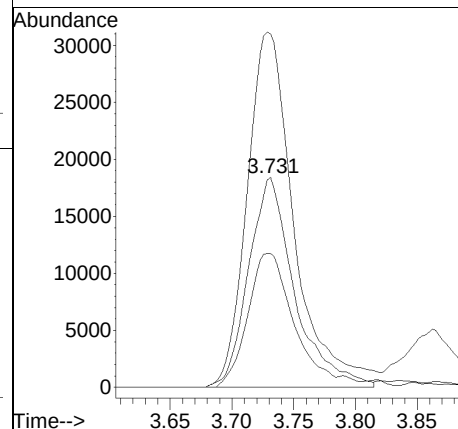
86 6.2 5.2 7.8

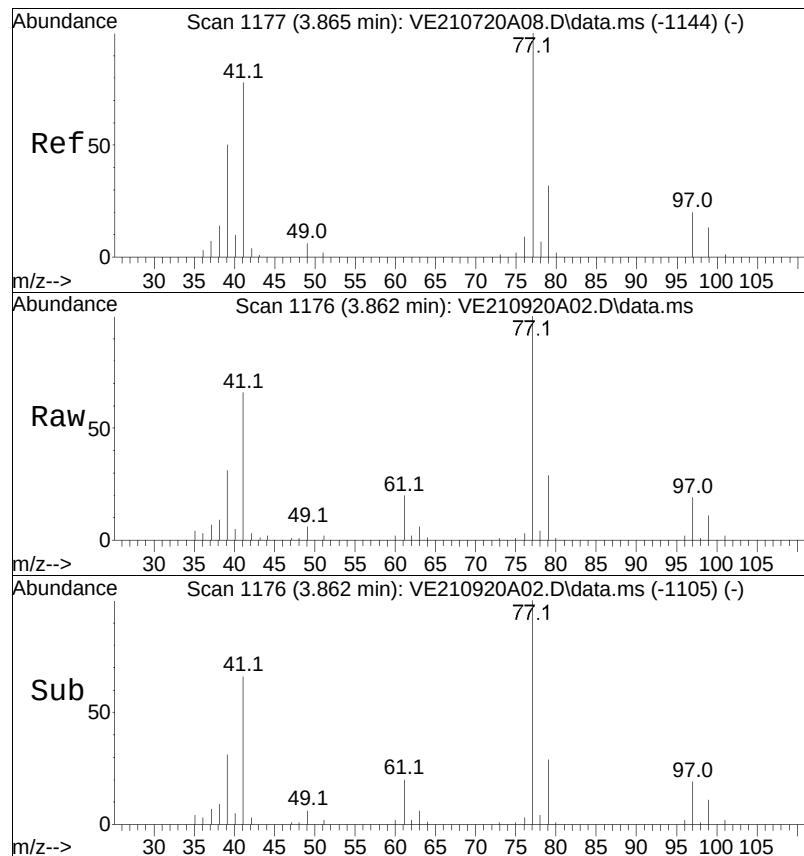




#28
 cis-1,2-Dichloroethene
 Concen: 9.29 ug/L
 RT: 3.731 min Scan# 1129
 Delta R.T. -0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

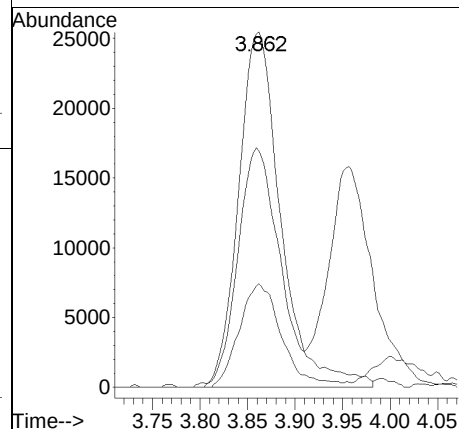
Tgt Ion	Ratio	Resp	Lower	Upper
96	100	47792		
61	173.1		149.4	224.2
98	63.1		53.4	80.2

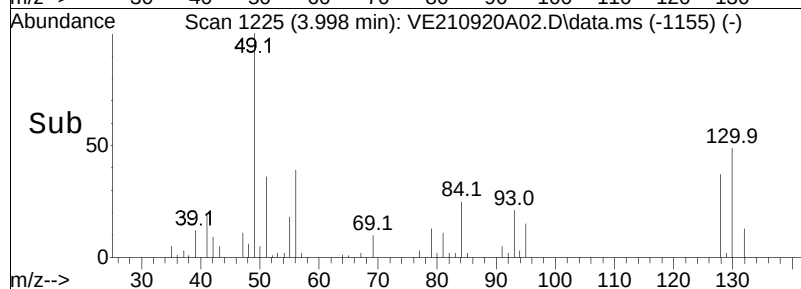
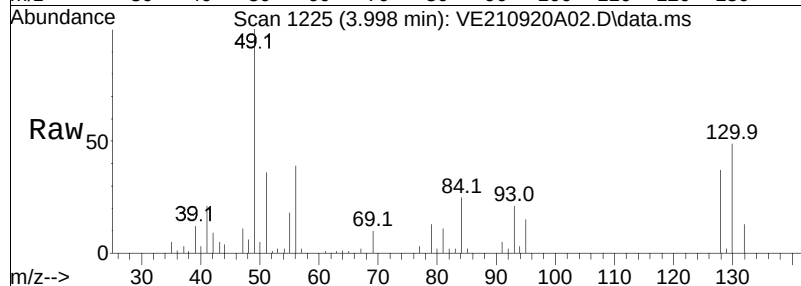
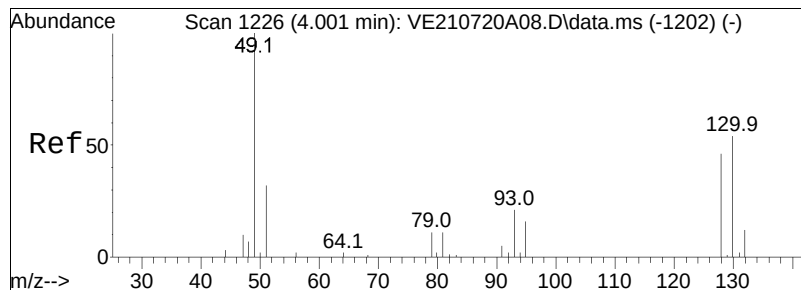




#29
 2,2-Dichloropropane
 Concen: 10.08 ug/L
 RT: 3.862 min Scan# 1176
 Delta R.T. -0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

Tgt Ion:	77	Resp:	79002
Ion Ratio	Lower	Upper	
77	100		
41	65.6	38.0	78.8
79	29.4	20.5	42.5





#30

Bromochloromethane

Concen: 8.16 ug/L

RT: 3.998 min Scan# 1225

Delta R.T. -0.006 min

Lab File: VE210920A02.D

Acq: 20 Sep 2021 7:41 am

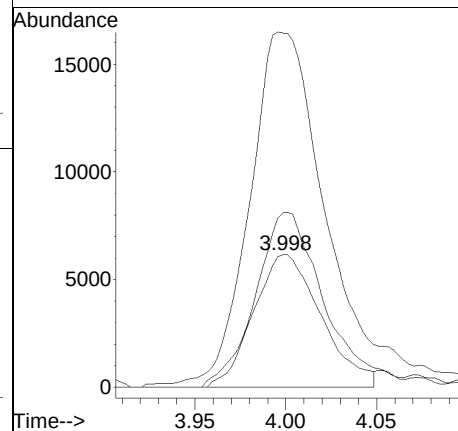
Tgt Ion:128 Resp: 16020

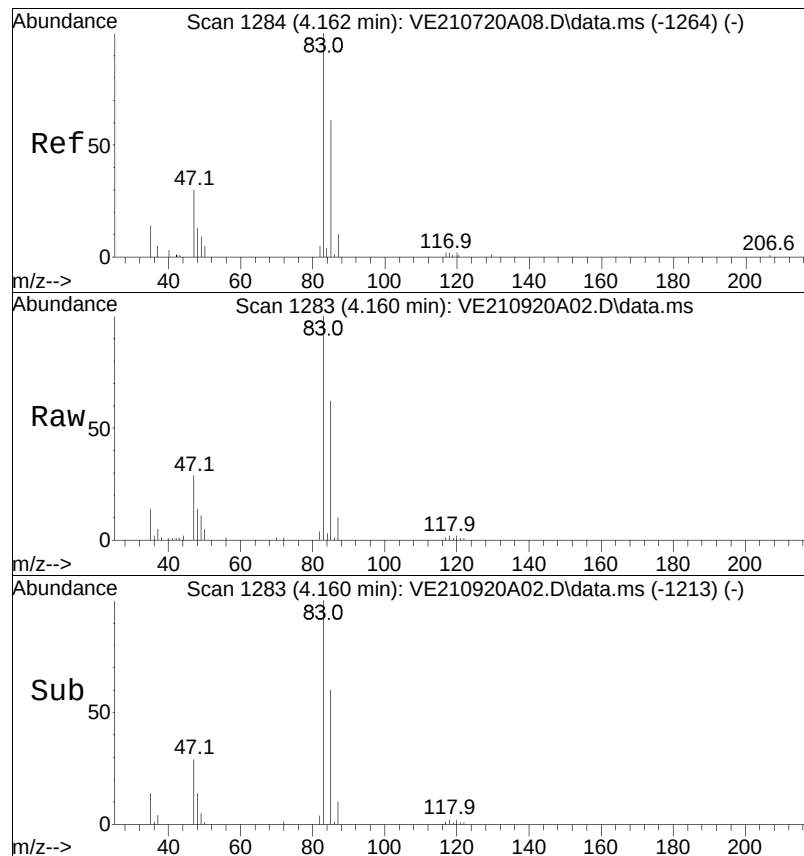
Ion Ratio Lower Upper

128 100

49 312.3 223.0 334.4

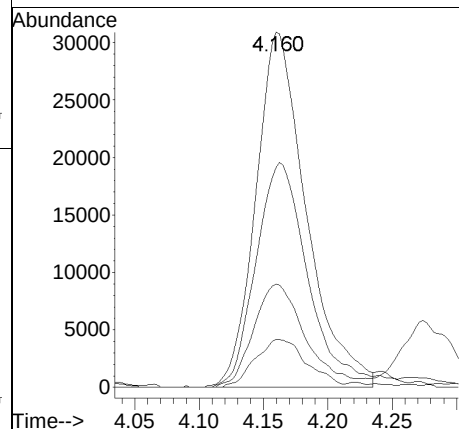
130 133.7 111.4 167.0

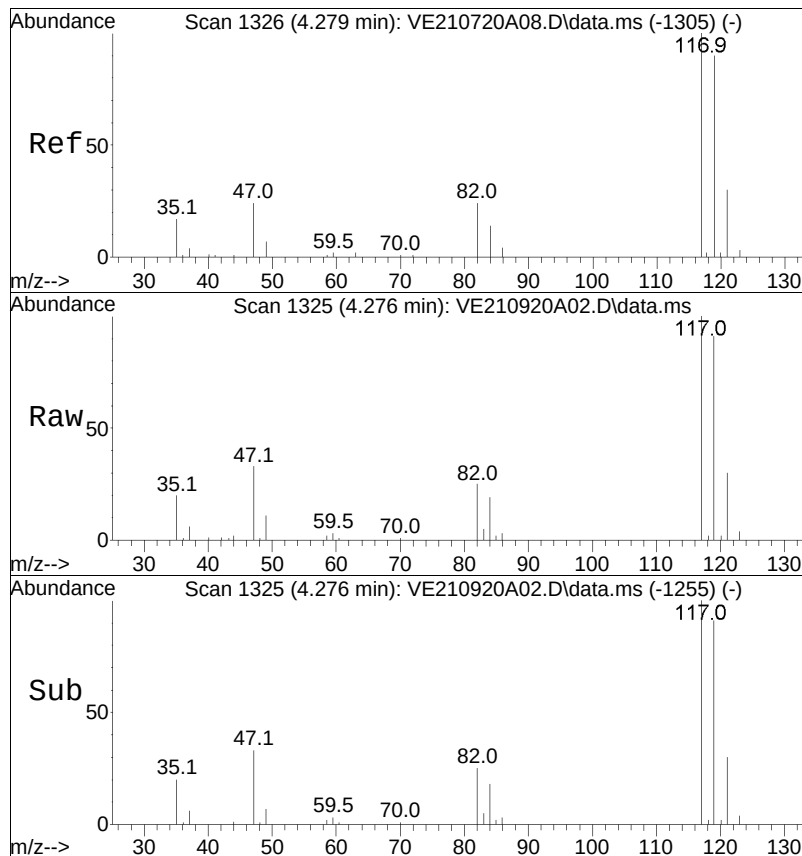




#32
 Chloroform
 Concen: 9.26 ug/L
 RT: 4.160 min Scan# 1283
 Delta R.T. -0.005 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

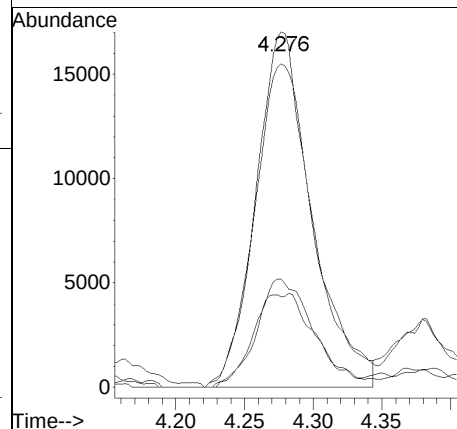
Tgt	Ion: 83	Resp:	84495
Ion	Ratio	Lower	Upper
83	100		
85	64.8	41.5	86.1
47	29.8	19.0	39.4
48	13.9	9.9	20.5

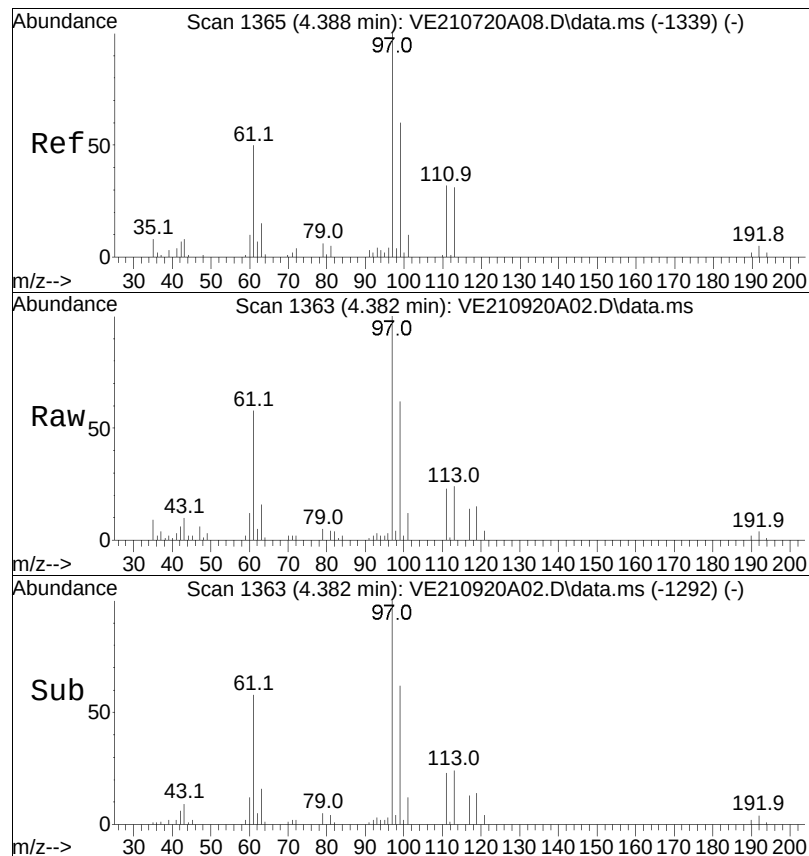




#34
 Carbon tetrachloride
 Concen: 7.86 ug/L
 RT: 4.276 min Scan# 1325
 Delta R.T. -0.006 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

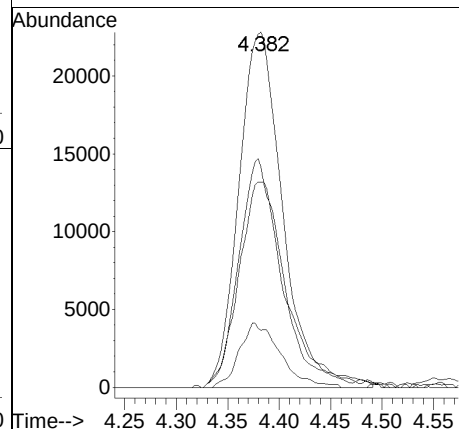
Tgt Ion:	117	Resp:	48394
Ion Ratio	Lower	Upper	
117	100		
119	96.3	62.4	129.6
121	31.6	19.5	40.5
82	13.3	17.0	35.4#

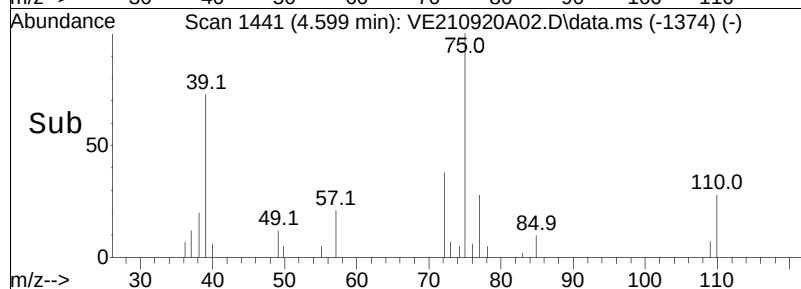
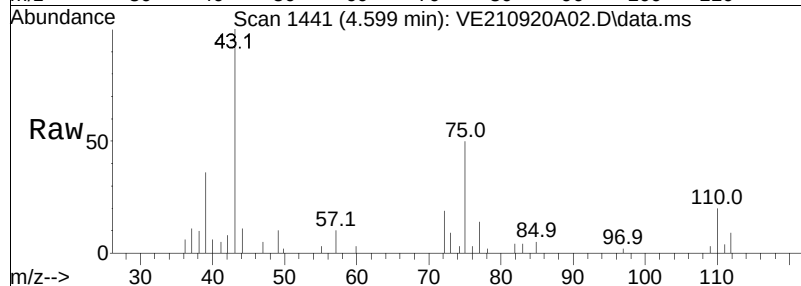
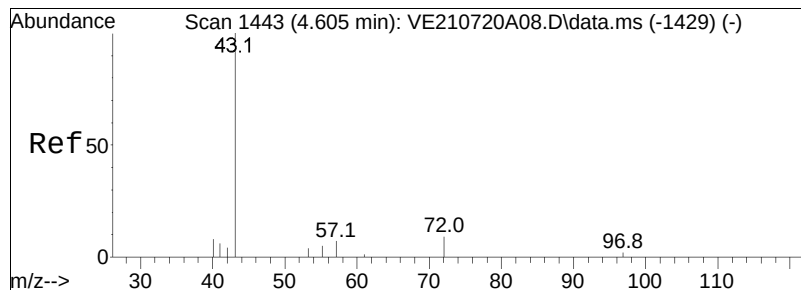




#37
 1,1,1-Trichloroethane
 Concen: 8.55 ug/L
 RT: 4.382 min Scan# 1363
 Delta R.T. -0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

Tgt Ion:	97	Resp:	67959
Ion Ratio	Lower	Upper	
97	100		
99	63.3	40.7	84.5
61	61.0	35.4	73.4
63	16.9	5.0	10.4#





#39

2-Butanone

Concen: 6.62 ug/L

RT: 4.599 min Scan# 1441

Delta R.T. -0.014 min

Lab File: VE210920A02.D

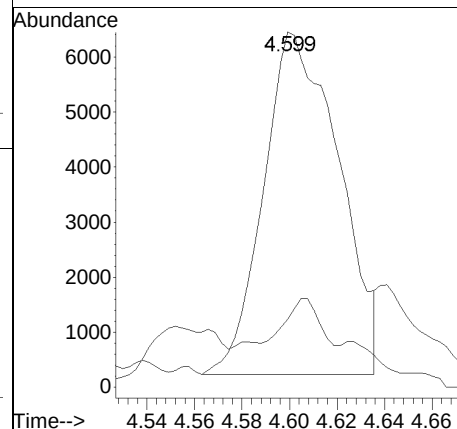
Acq: 20 Sep 2021 7:41 am

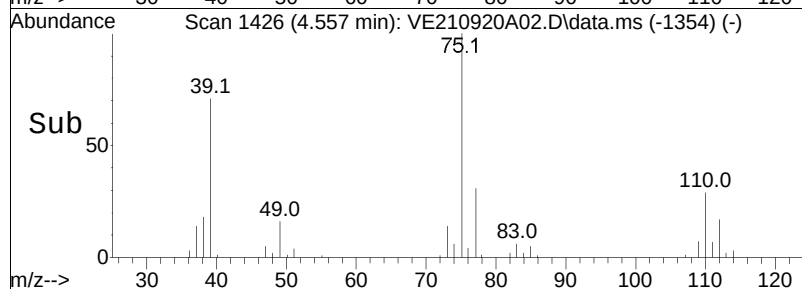
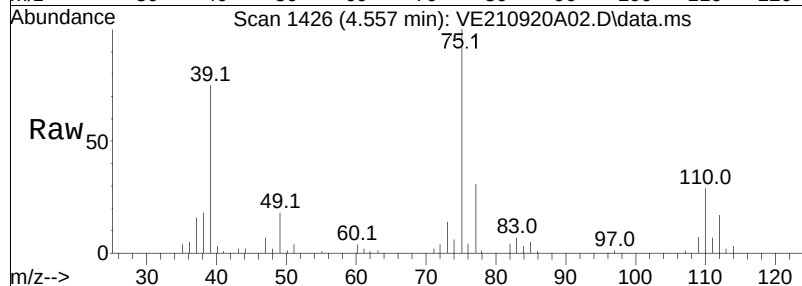
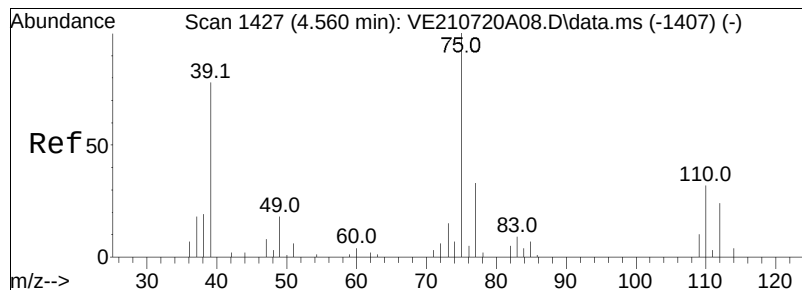
Tgt Ion: 43 Resp: 13670

Ion Ratio Lower Upper

43 100

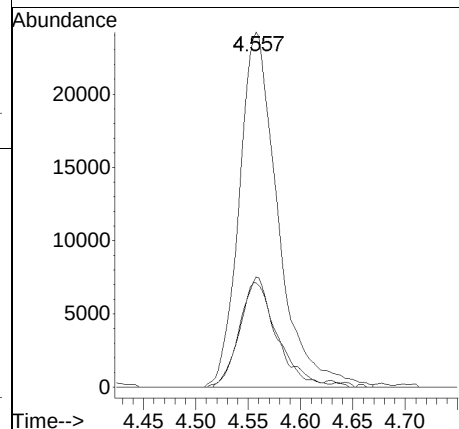
72 5.4 10.9 16.3#

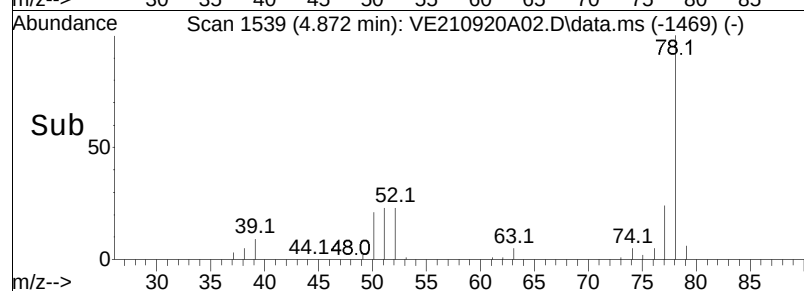
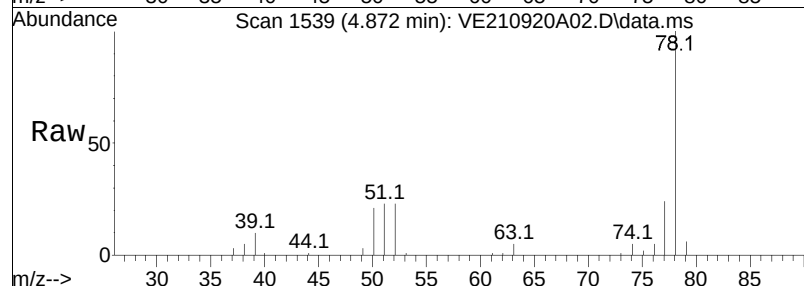
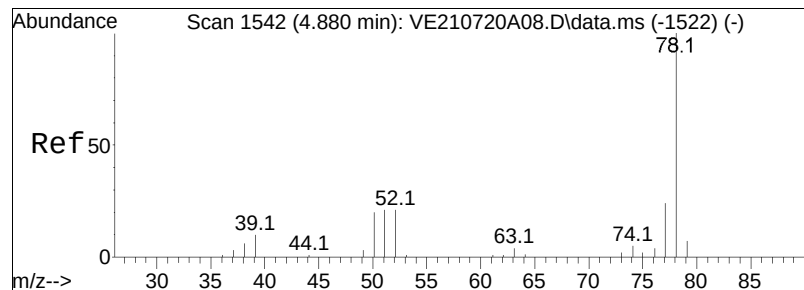




#40
 1,1-Dichloropropene
 Concen: 9.64 ug/L
 RT: 4.557 min Scan# 1426
 Delta R.T. -0.001 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

Tgt Ion	Ratio	Lower	Upper
75	100		
110	29.2	20.2	41.9
77	29.1	20.1	41.7





#41

Benzene

Concen: 9.77 ug/L

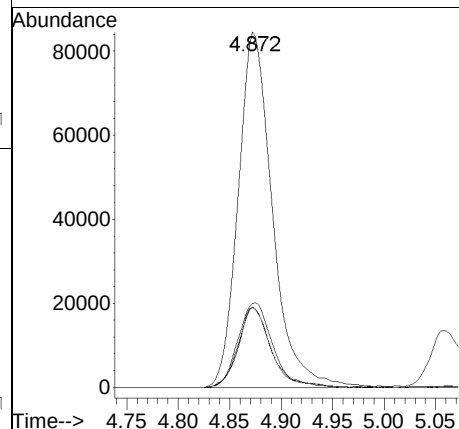
RT: 4.872 min Scan# 1539

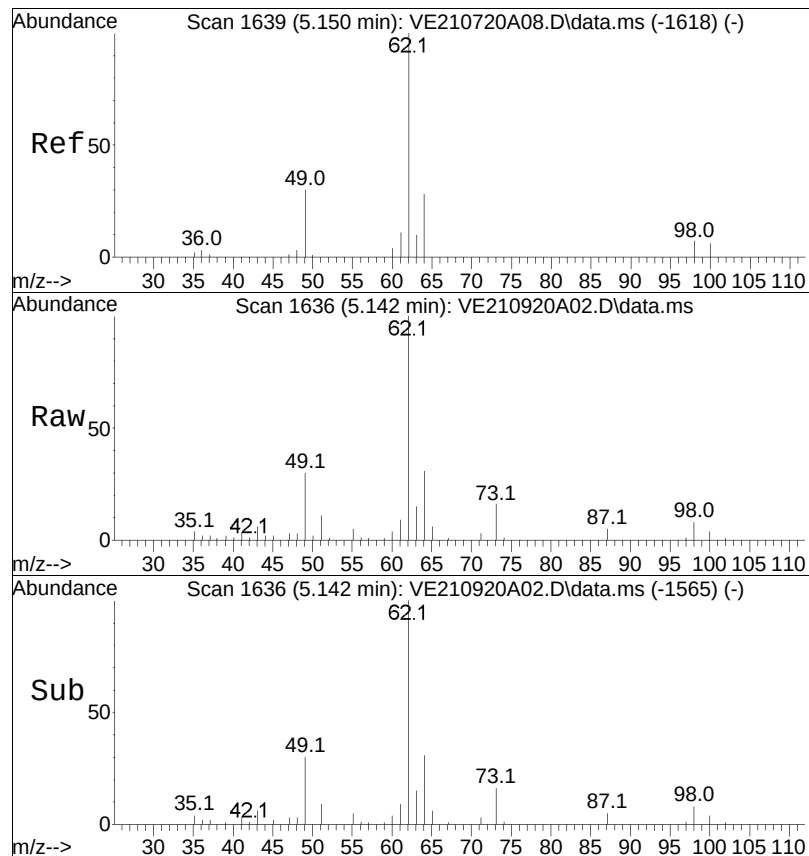
Delta R.T. -0.005 min

Lab File: VE210920A02.D

Acq: 20 Sep 2021 7:41 am

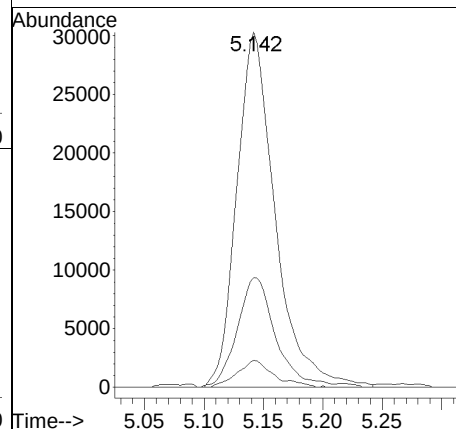
Tgt Ion:	78	Resp:	195655
Ion Ratio	Lower	Upper	
78	100		
77	24.0	15.7	32.7
51	21.6	16.0	33.2
52	21.6	15.3	31.9

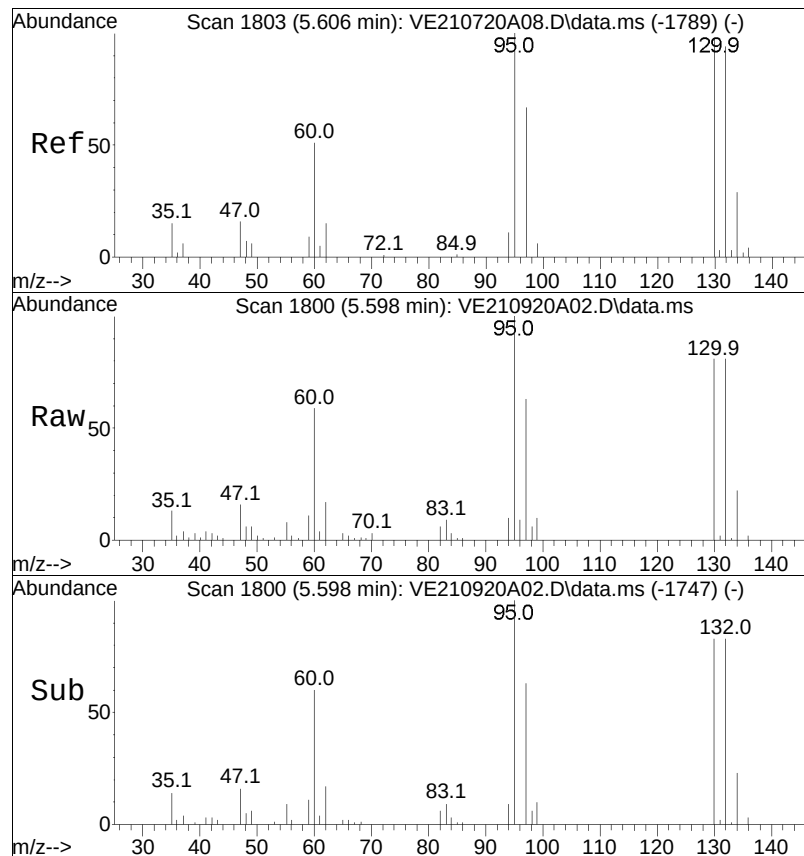




#44
 1,2-Dichloroethane
 Concen: 8.34 ug/L
 RT: 5.142 min Scan# 1636
 Delta R.T. -0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

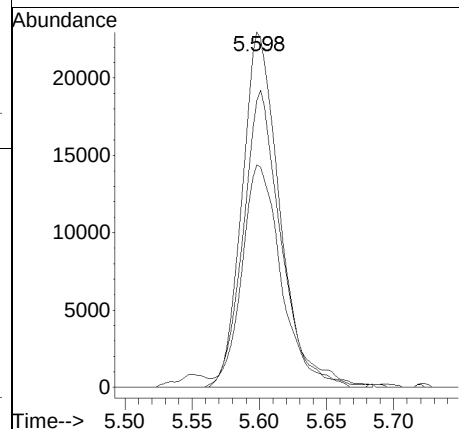
Tgt Ion:	62	Resp:	68352
Ion Ratio	Lower	Upper	
62	100		
64	30.9	11.2	51.2
98	7.4	0.0	26.1

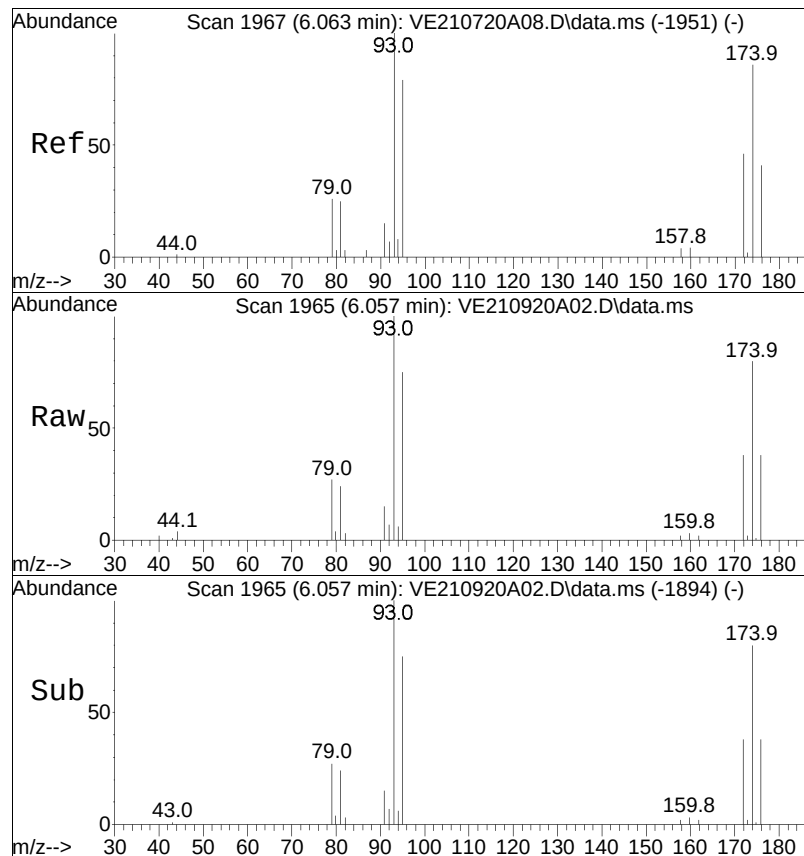




#48
 Trichloroethene
 Concen: 9.26 ug/L
 RT: 5.598 min Scan# 1800
 Delta R.T. -0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

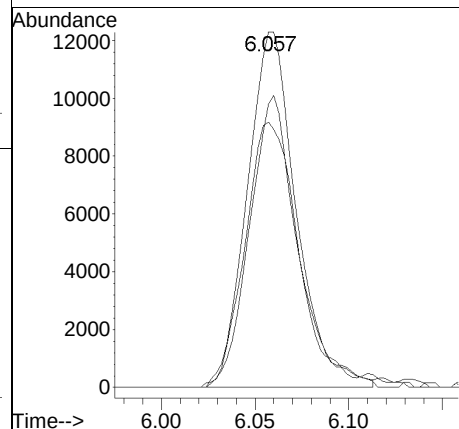
Tgt Ion:	95	Resp:	45326
Ion Ratio	Lower	Upper	
95	100		
97	65.1	55.5	83.3
130	82.6	76.6	115.0

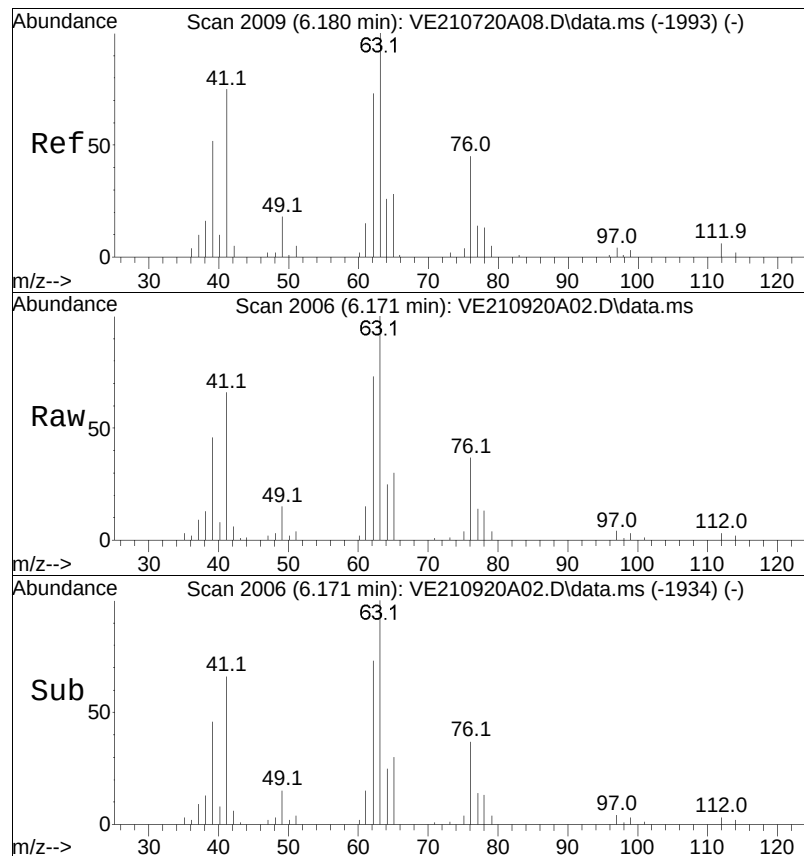




#50
 Dibromomethane
 Concen: 8.03 ug/L
 RT: 6.057 min Scan# 1965
 Delta R.T. -0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

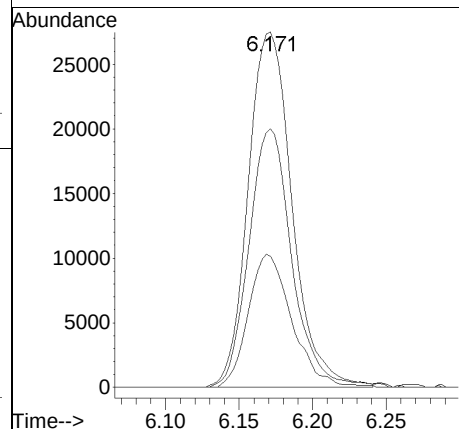
Tgt Ion:	93	Resp:	22581
Ion Ratio	Lower	Upper	
93	100		
95	81.7	67.0	100.4
174	78.3	75.0	112.4

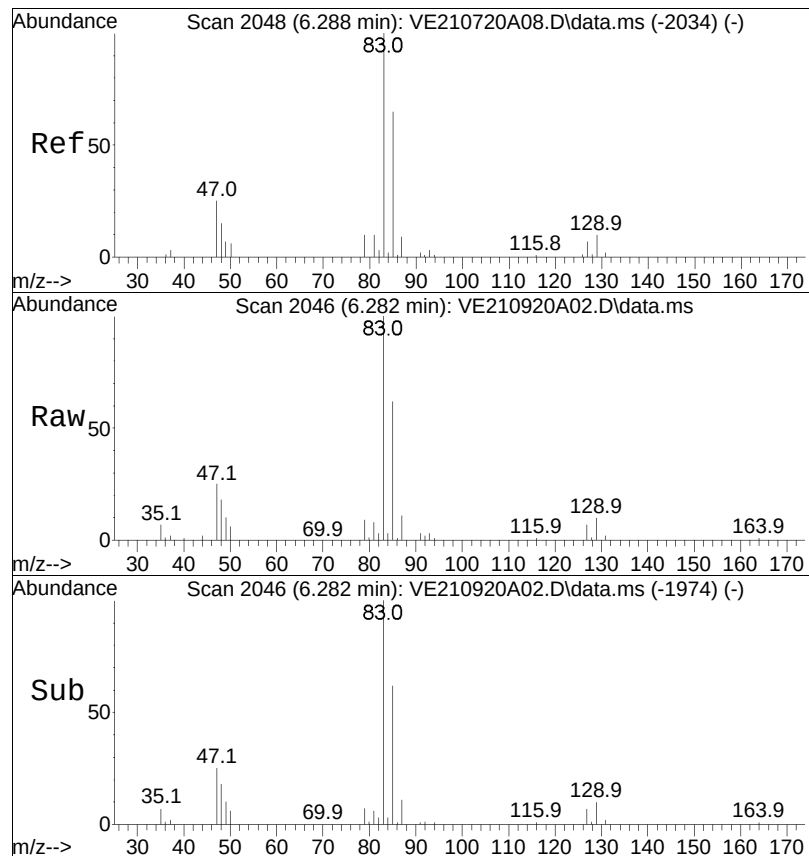




#51
 1,2-Dichloropropane
 Concen: 9.96 ug/L
 RT: 6.171 min Scan# 2006
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

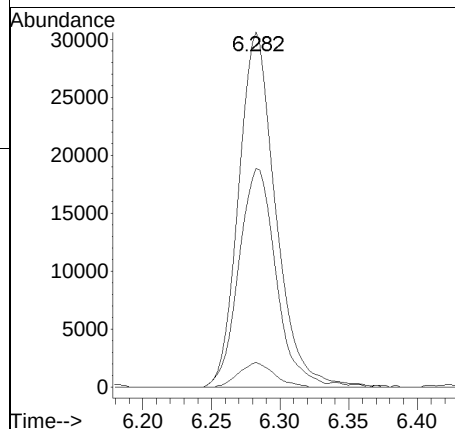
Tgt	Ion	Ratio	Lower	Upper
63	100			
62	71.5	58.6	87.8	
76	37.2	38.0	57.0	

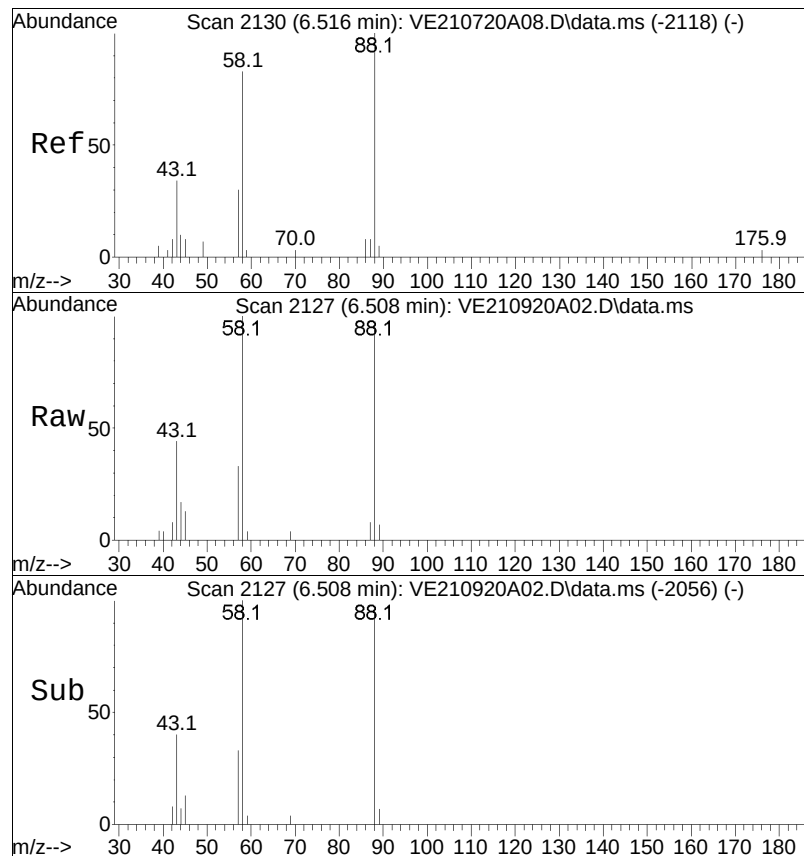




#54
 Bromodichloromethane
 Concen: 8.00 ug/L
 RT: 6.282 min Scan# 2046
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

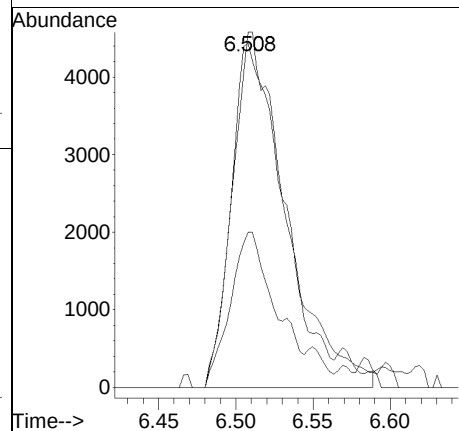
Tgt Ion:	83	Resp:	57648
Ion Ratio	Lower	Upper	
83	100		
85	61.9	52.3	78.5
127	6.8	6.2	9.4

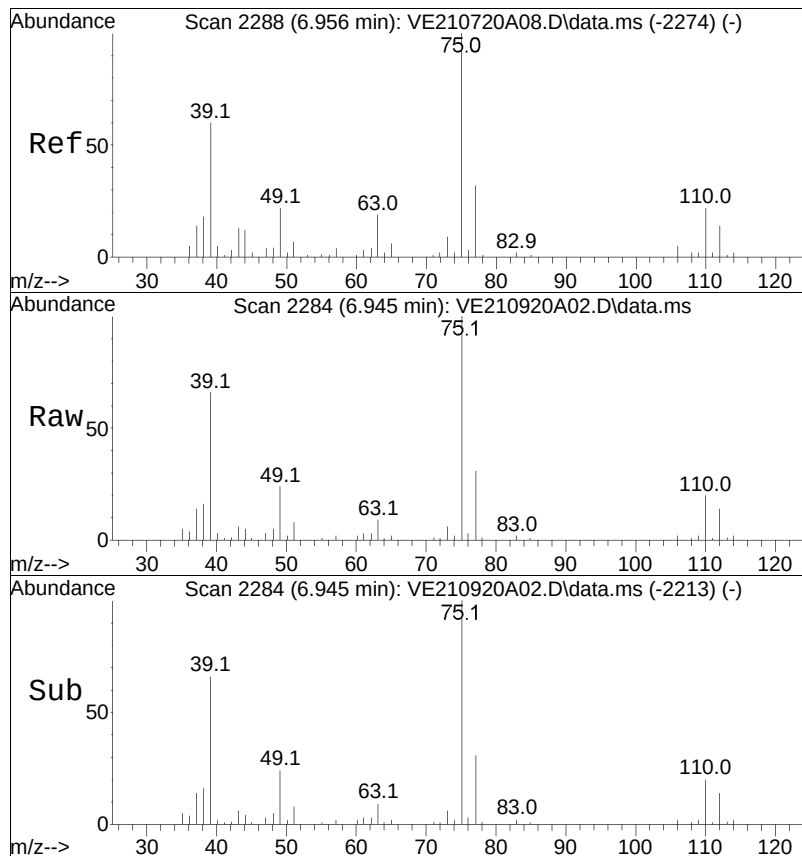




#57
 1,4-Dioxane
 Concen: 314.89 ug/L
 RT: 6.508 min Scan# 2127
 Delta R.T. -0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

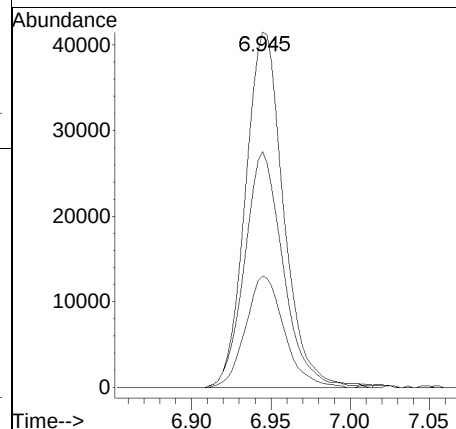
Tgt Ion:	88	Resp:	11111
Ion Ratio	Lower	Upper	
88	100		
58	93.8	76.7	115.1
43	36.8	36.2	54.2

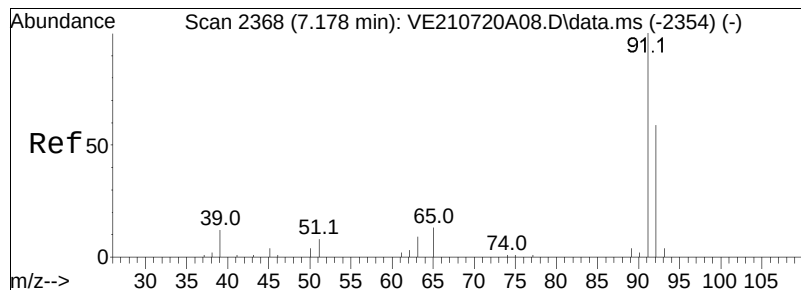




#58
 cis-1,3-Dichloropropene
 Concen: 8.58 ug/L
 RT: 6.945 min Scan# 2284
 Delta R.T. -0.002 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

Tgt Ion:	75	Resp:	69467
Ion Ratio	Lower	Upper	
75	100		
77	31.7	25.0	37.4
39	67.0	50.1	75.1





#61

Toluene

Concen: 9.91 ug/L

RT: 7.167 min Scan# 2364

Delta R.T. -0.003 min

Lab File: VE210920A02.D

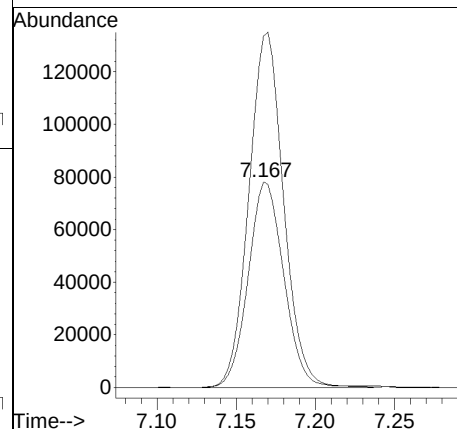
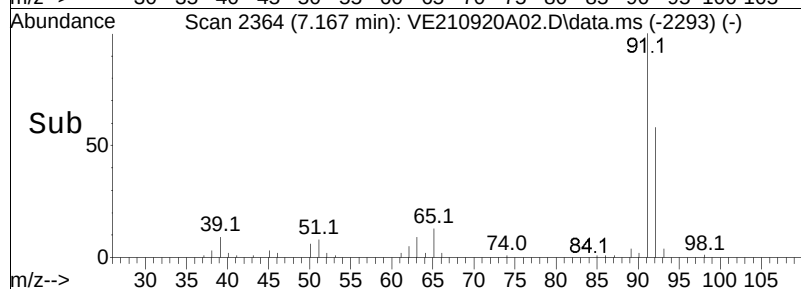
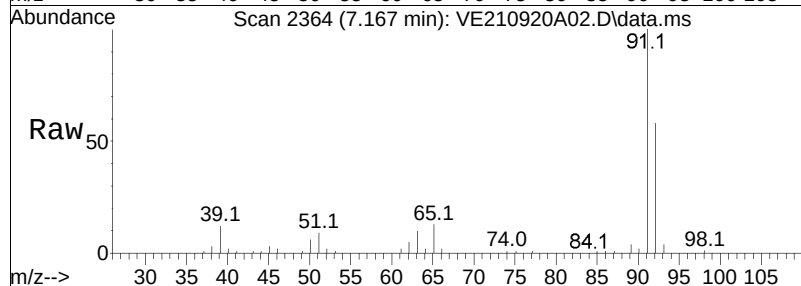
Acq: 20 Sep 2021 7:41 am

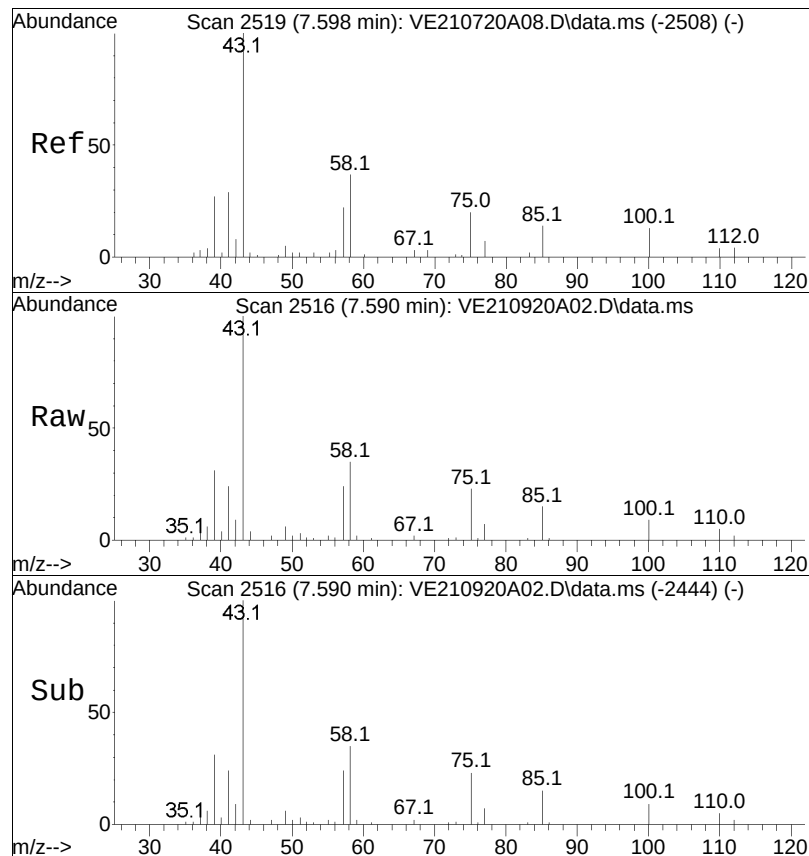
Tgt Ion: 92 Resp: 122212

Ion Ratio Lower Upper

92 100

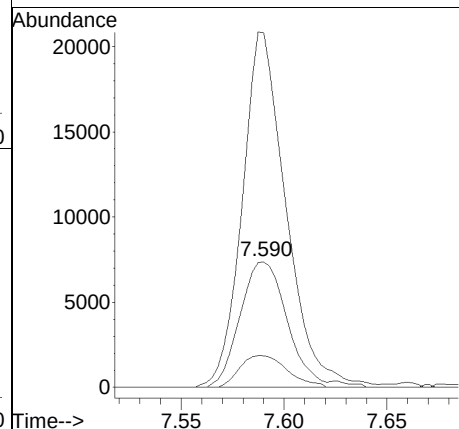
91 168.2 139.8 209.6

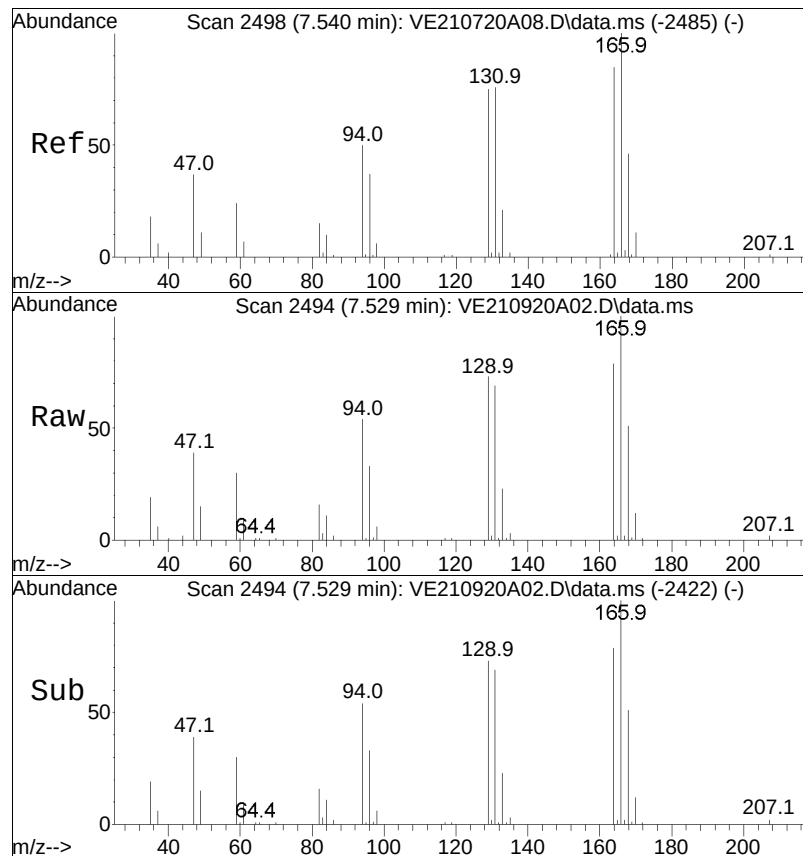




#62
 4-Methyl-2-pentanone
 Concen: 6.90 ug/L
 RT: 7.590 min Scan# 2516
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

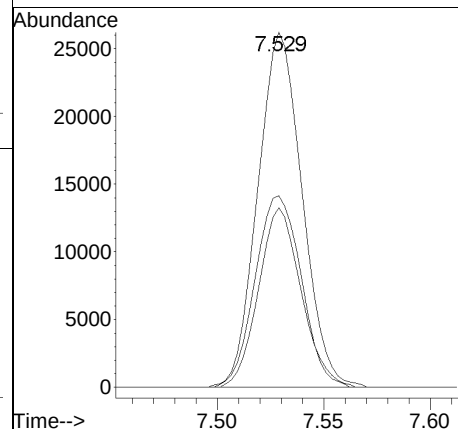
Tgt	Ion	Ratio	Lower	Upper
58	100			
100	25.3	20.2	30.2	
43	258.7	196.6	295.0	

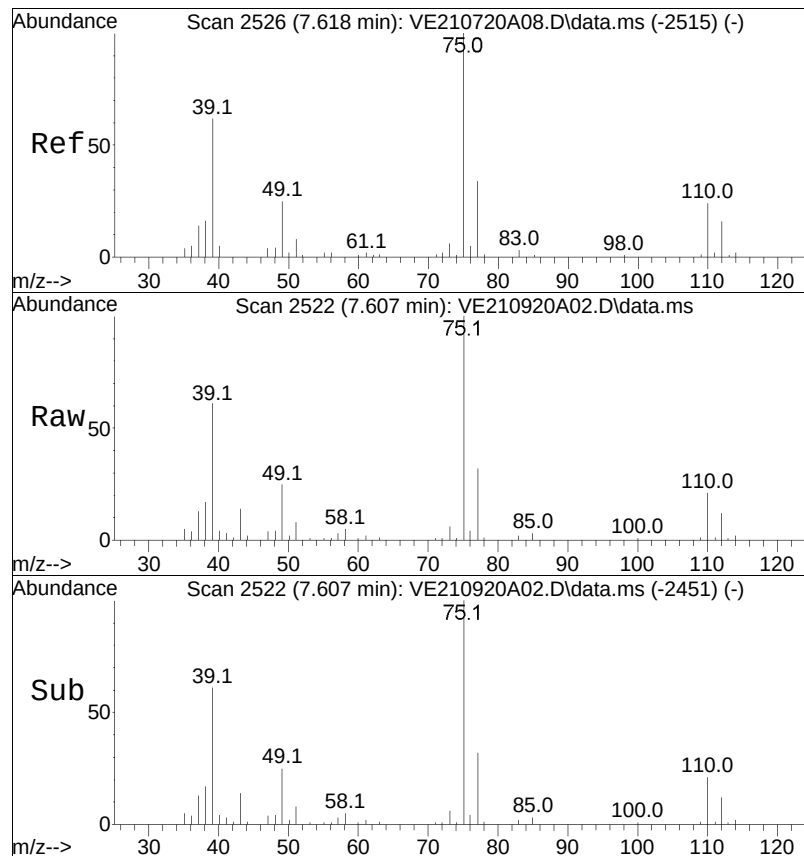




#63
 Tetrachloroethene
 Concen: 9.21 ug/L
 RT: 7.529 min Scan# 2494
 Delta R.T. -0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

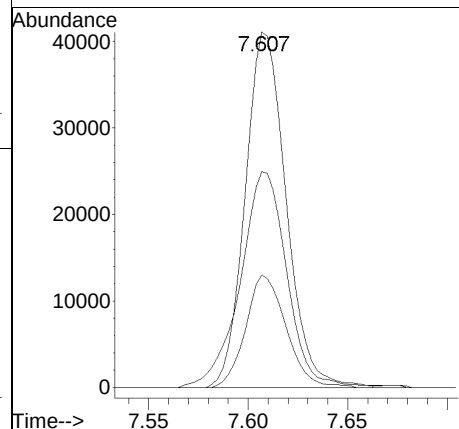
Tgt	Ion:166	Resp:	37952
Ion	Ratio	Lower	Upper
166	100		
168	48.8	28.2	68.2
94	56.1	38.4	78.4

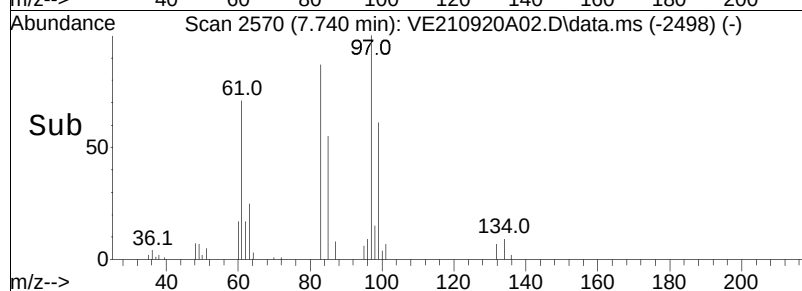
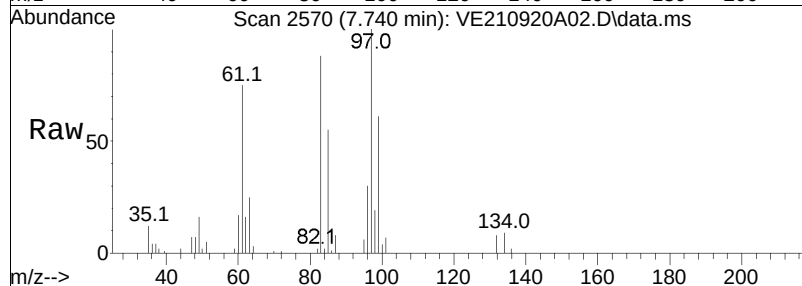
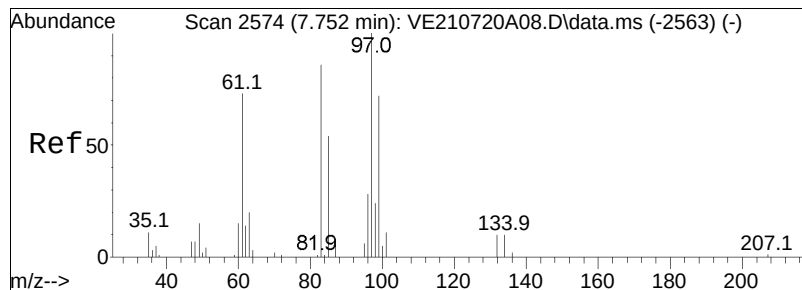




#65
trans-1,3-Dichloropropene
Concen: 8.21 ug/L
RT: 7.607 min Scan# 2522
Delta R.T. -0.003 min
Lab File: VE210920A02.D
Acq: 20 Sep 2021 7:41 am

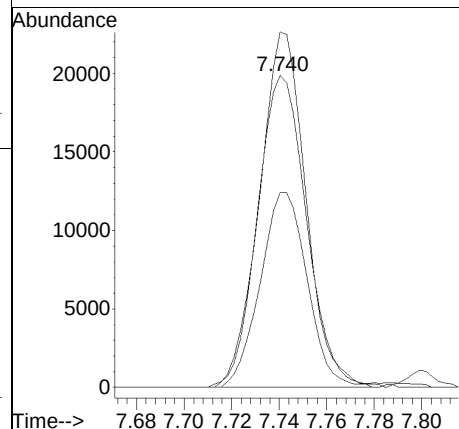
Tgt Ion:	75	Resp:	58694
Ion Ratio	Lower	Upper	
75	100		
77	31.1	12.4	52.4
39	68.9	42.8	82.8

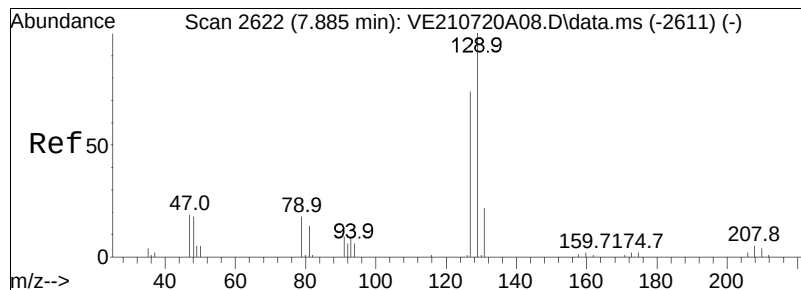




#68
 1,1,2-Trichloroethane
 Concen: 8.79 ug/L
 RT: 7.740 min Scan# 2570
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

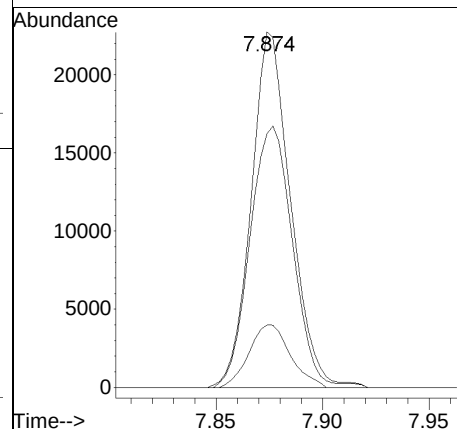
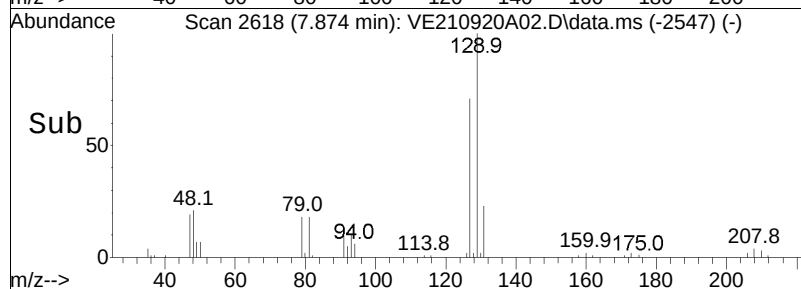
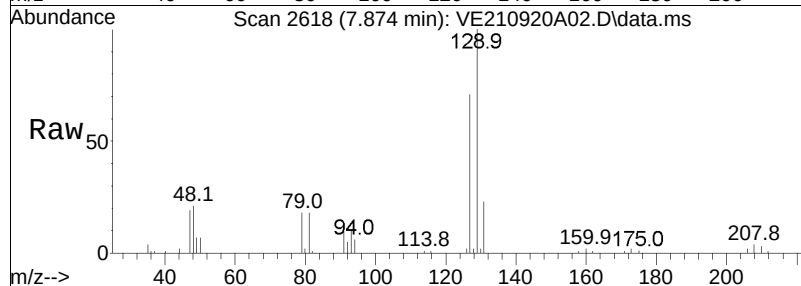
Tgt Ion	Ratio	Lower	Upper
83	100		
97	108.1	89.8	129.8
85	60.3	44.4	84.4

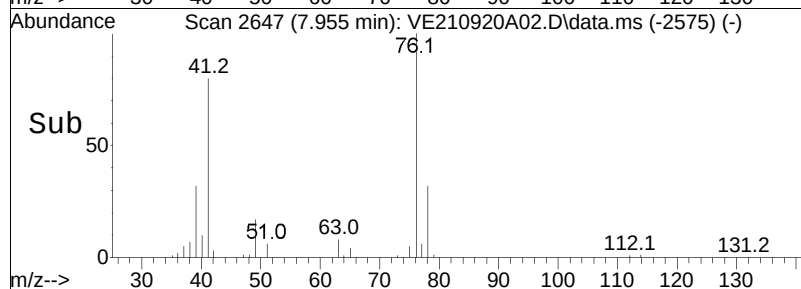
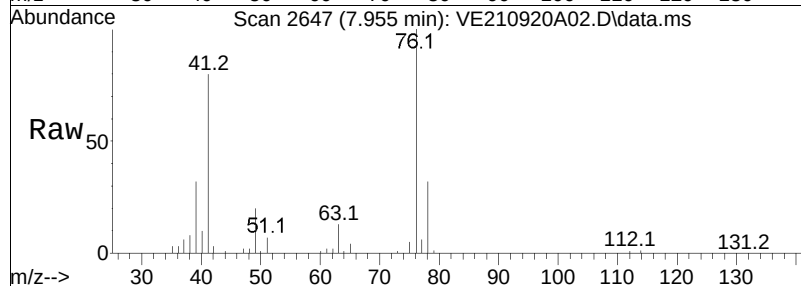
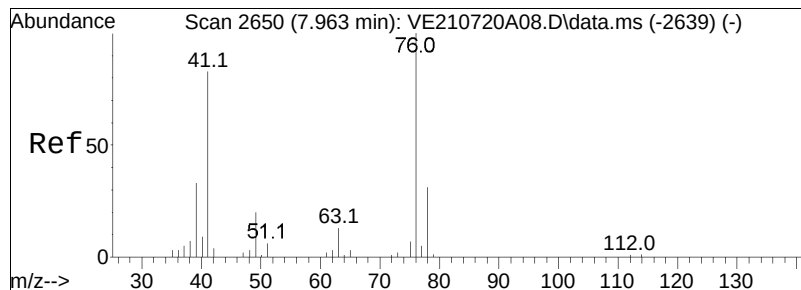




#69
 Chlorodibromomethane
 Concen: 7.22 ug/L
 RT: 7.874 min Scan# 2618
 Delta R.T. -0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

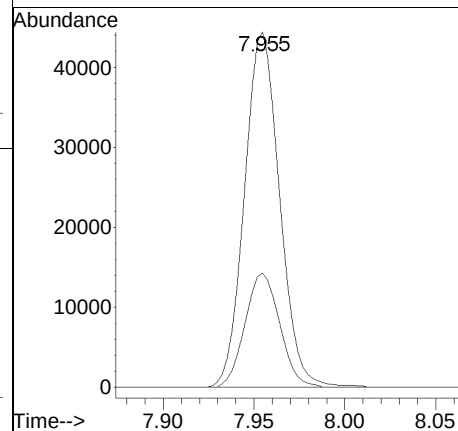
Tgt Ion	Ratio	Lower	Upper
129	100		
81	18.5	2.9	42.9
127	79.8	57.8	97.8

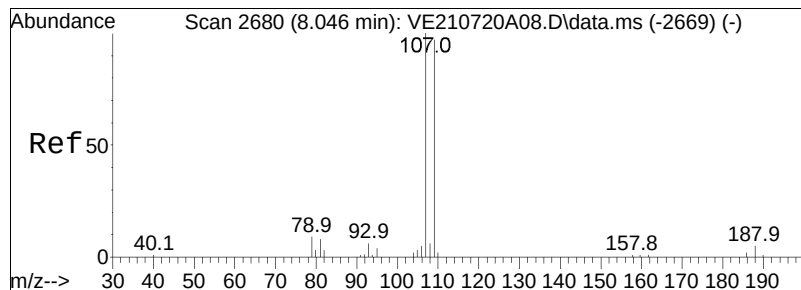




#70
 1,3-Dichloropropane
 Concen: 8.17 ug/L
 RT: 7.955 min Scan# 2647
 Delta R.T. -0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

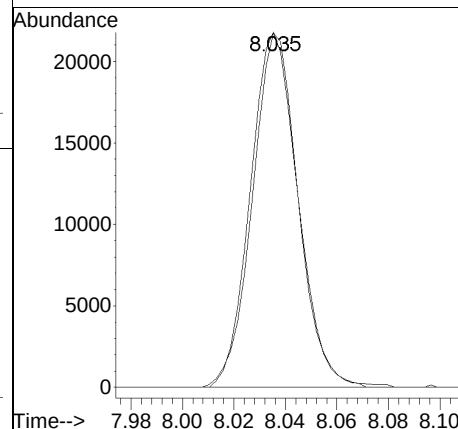
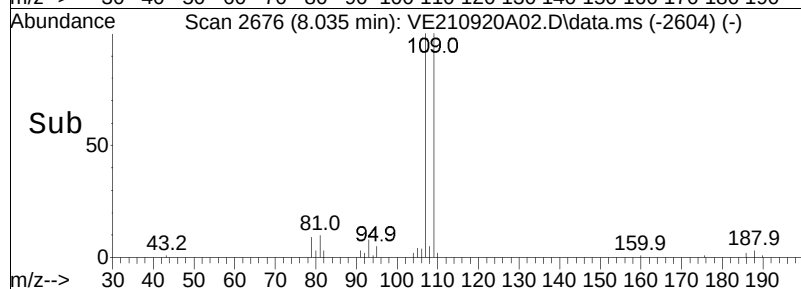
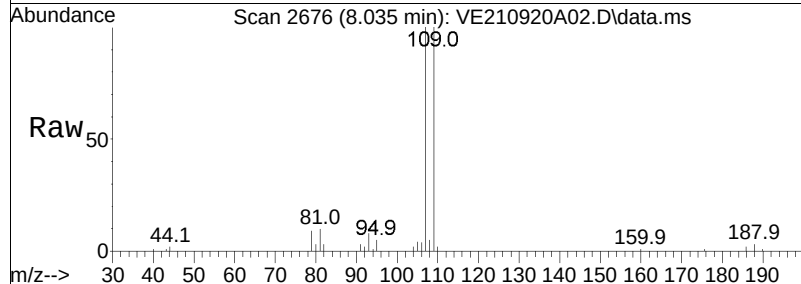
Tgt Ion:	76	Resp:	59718
Ion Ratio	100	Lower	Upper
78	31.8	25.5	38.3

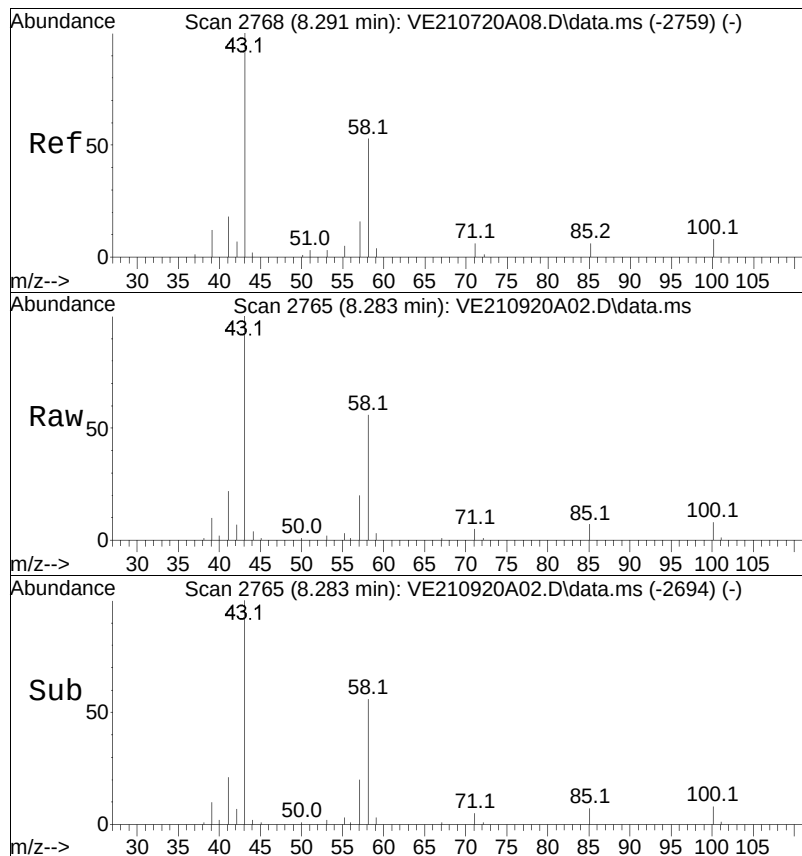




#71
 1,2-Dibromoethane
 Concen: 7.71 ug/L
 RT: 8.035 min Scan# 2676
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

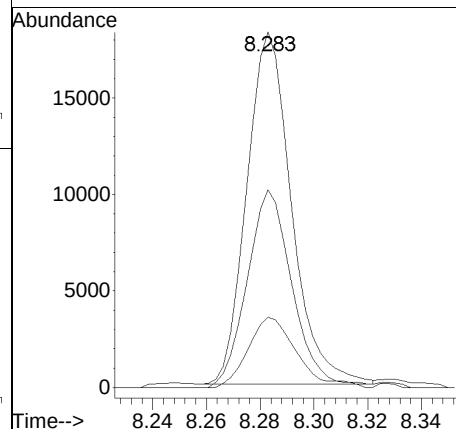
Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.7	74.3	111.5

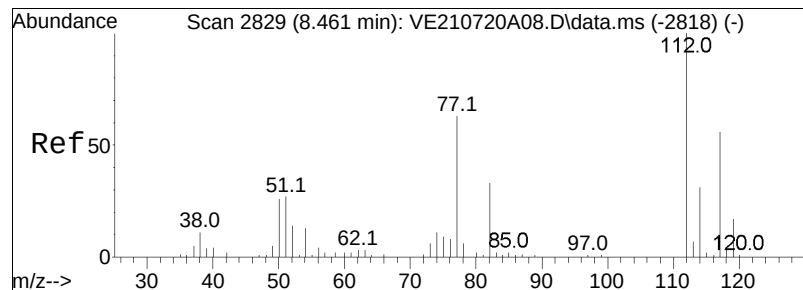




#72
 2-Hexanone
 Concen: 6.52 ug/L
 RT: 8.283 min Scan# 2765
 Delta R.T. -0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

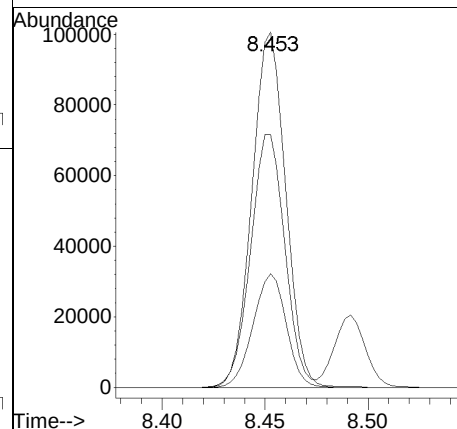
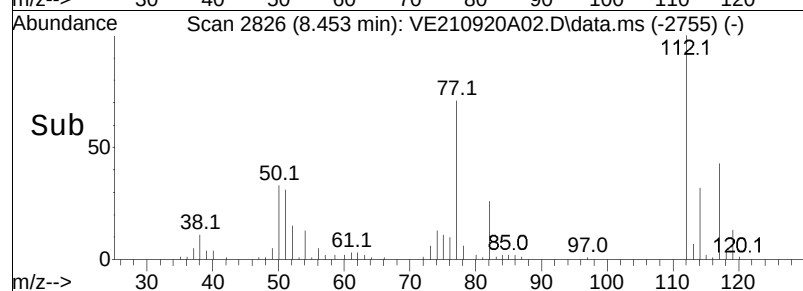
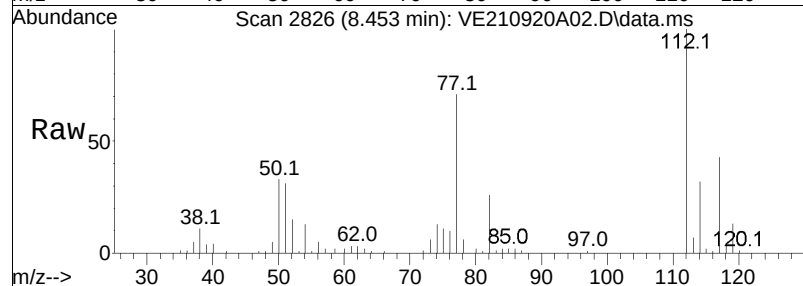
Tgt Ion:	43	58	57	Ratio	100	56.5	21.5	Resp:	21136	Lower	Upper
43	100										
58		56.5			41.2				61.8		
57		21.5			17.2				25.8		

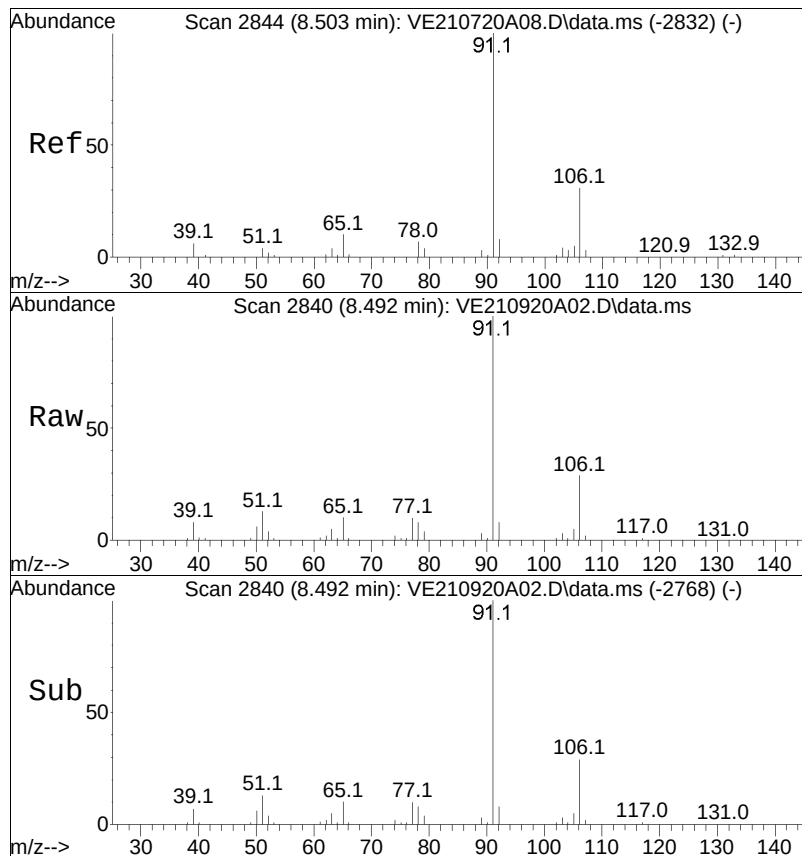




#73
 Chlorobenzene
 Concen: 9.41 ug/L
 RT: 8.453 min Scan# 2826
 Delta R.T. -0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

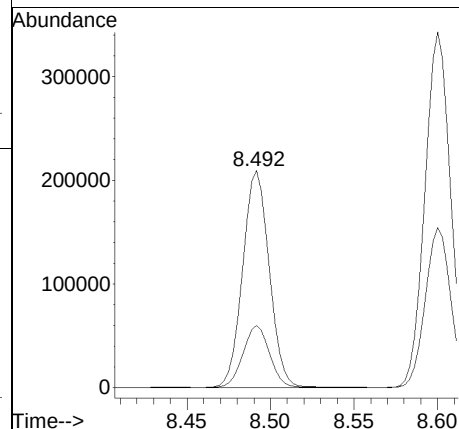
Tgt Ion	Ratio	Lower	Upper
112	100		
77	72.6	55.4	83.0
114	31.5	25.4	38.2

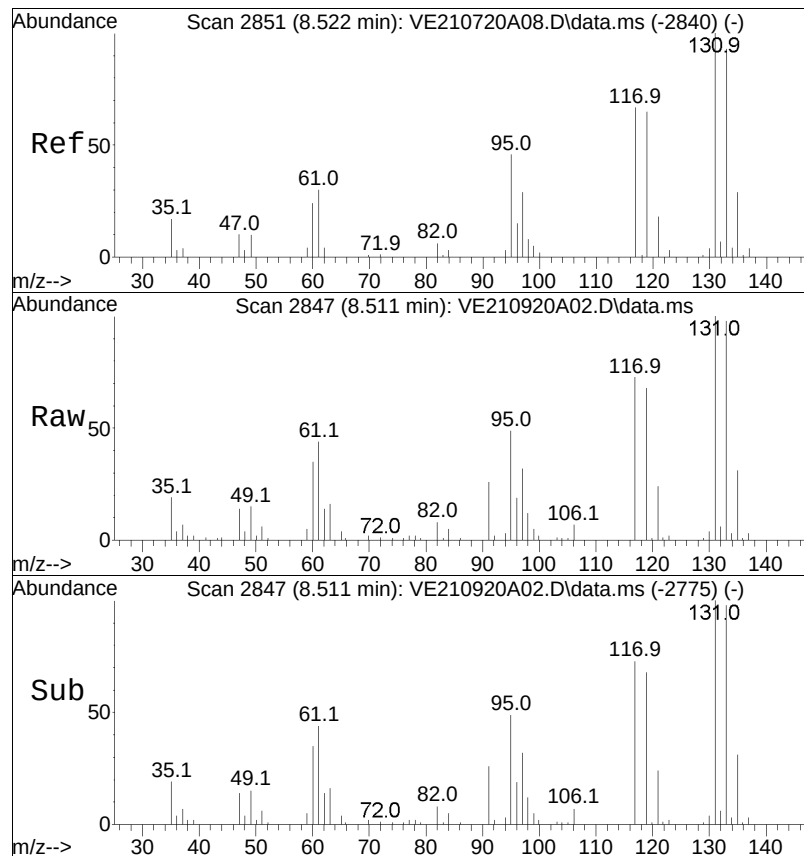




#74
 Ethylbenzene
 Concen: 10.09 ug/L
 RT: 8.492 min Scan# 2840
 Delta R.T. -0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

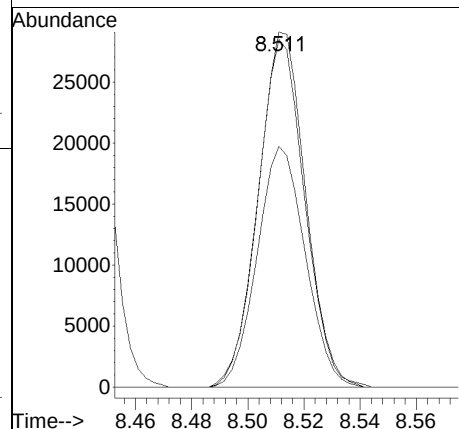
Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.4	24.3	36.5

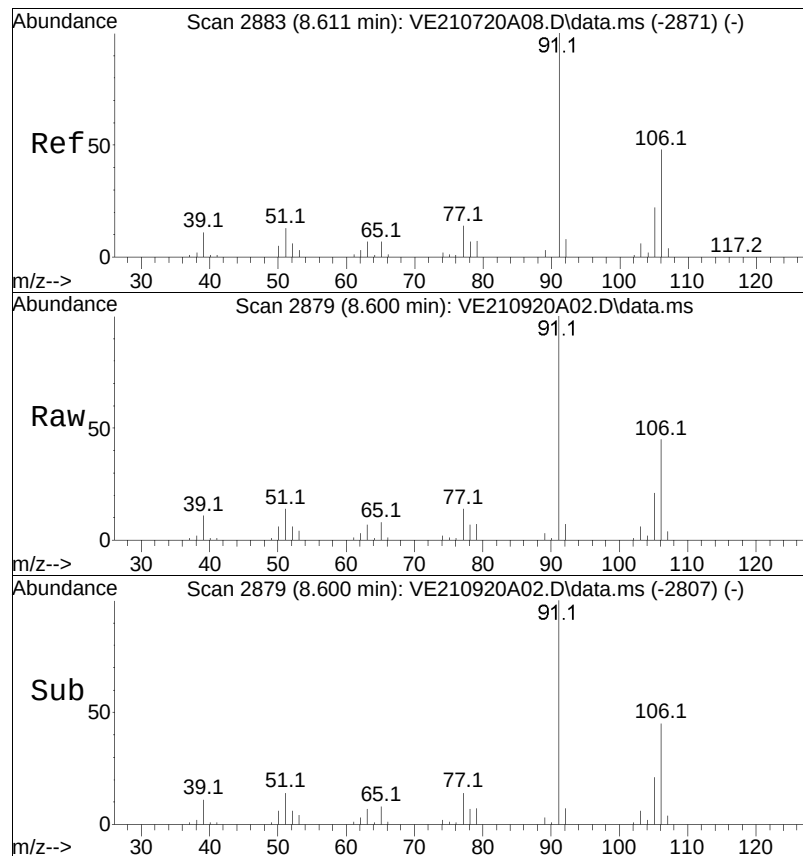




#75
 1,1,1,2-Tetrachloroethane
 Concen: 8.01 ug/L
 RT: 8.511 min Scan# 2847
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

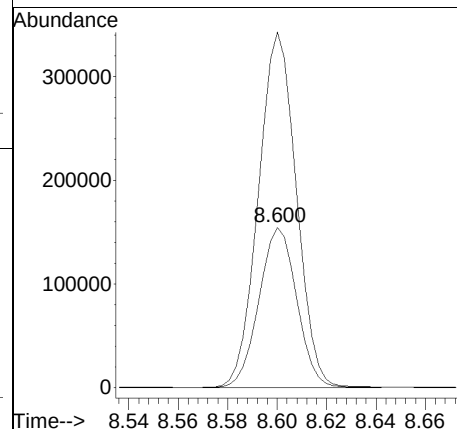
Tgt Ion:	131	Resp:	34061
Ion Ratio	Lower	Upper	
131	100		
133	96.9	81.0	121.0
119	69.0	41.3	81.3

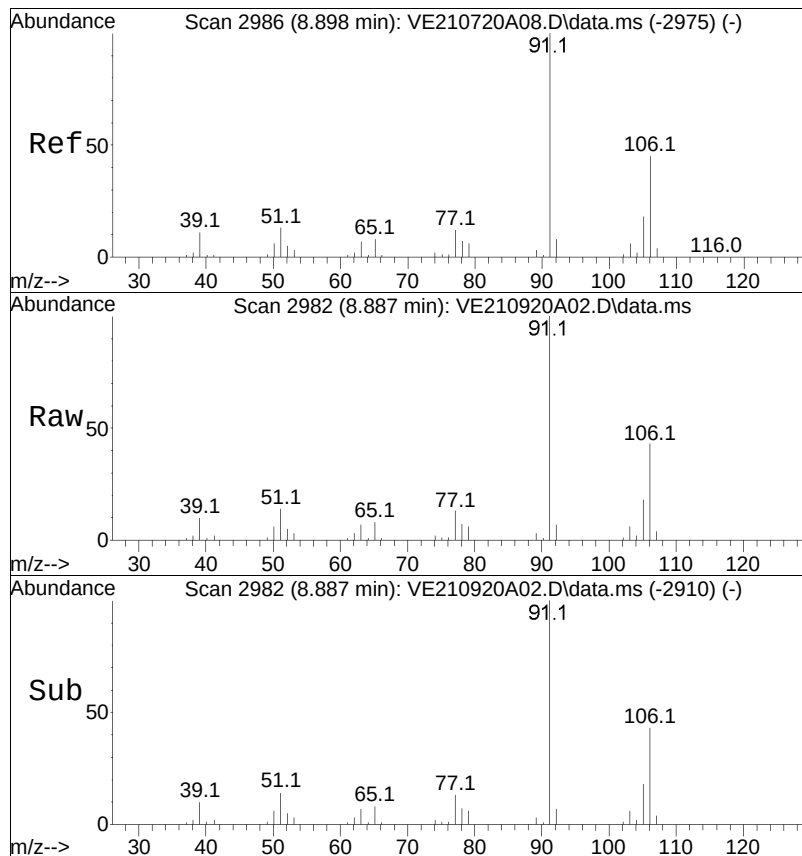




#76
 p/m Xylene
 Concen: 20.02 ug/L
 RT: 8.600 min Scan# 2879
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

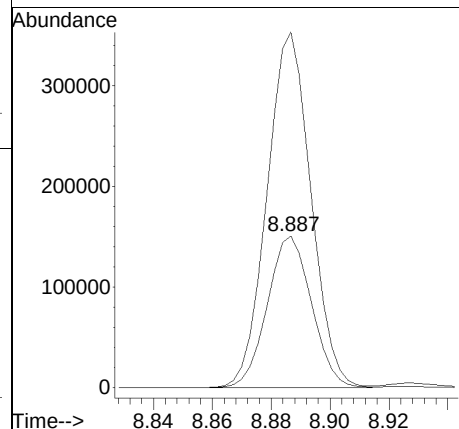
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	223.9	166.4	249.6	

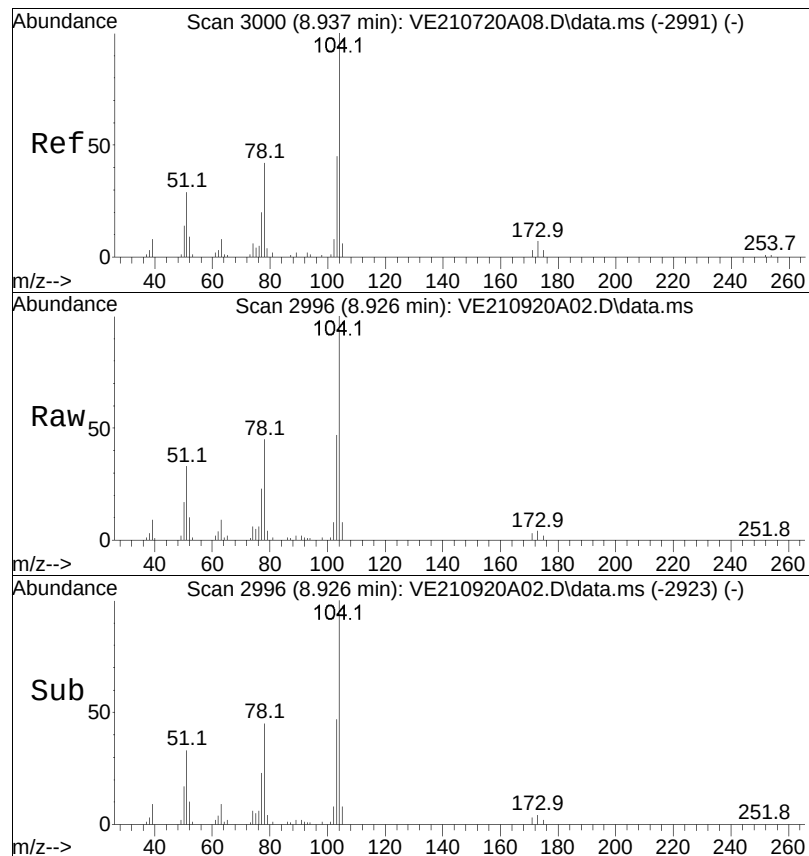




#77
 o Xylene
 Concen: 20.05 ug/L
 RT: 8.887 min Scan# 2982
 Delta R.T. -0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

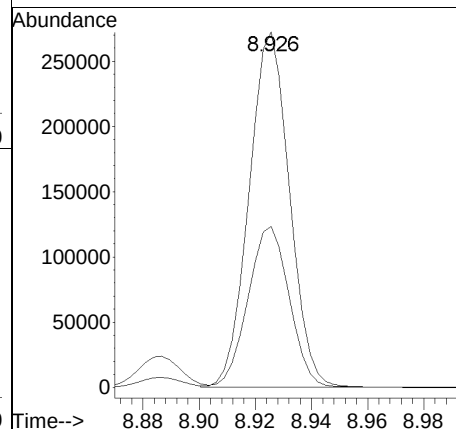
Tgt Ion	Ratio	Lower	Upper
106	100		
91	233.1	182.6	273.8

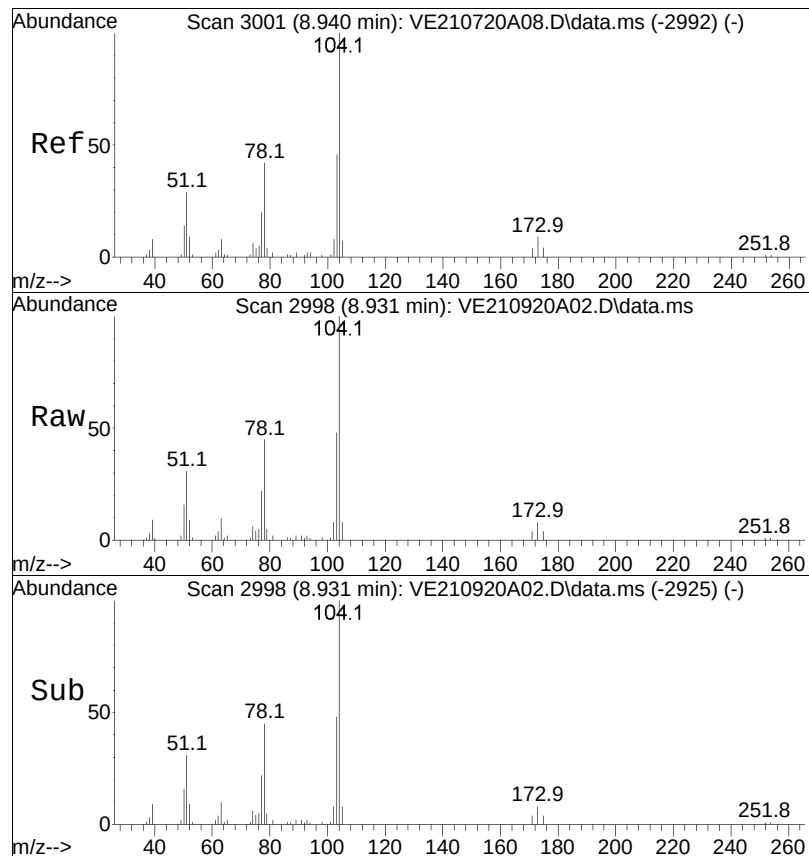




#78
 Styrene
 Concen: 19.78 ug/L
 RT: 8.926 min Scan# 2996
 Delta R.T. 0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

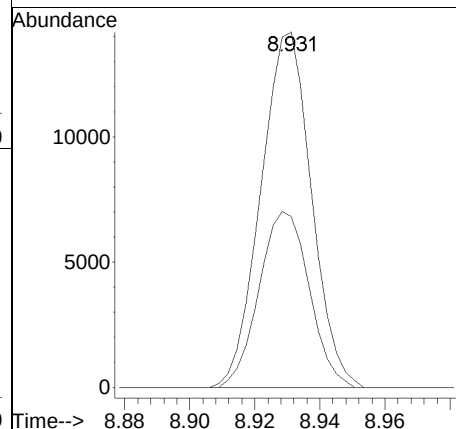
Tgt Ion	Ratio	Lower	Upper
104	100		
78	46.4	39.8	59.6

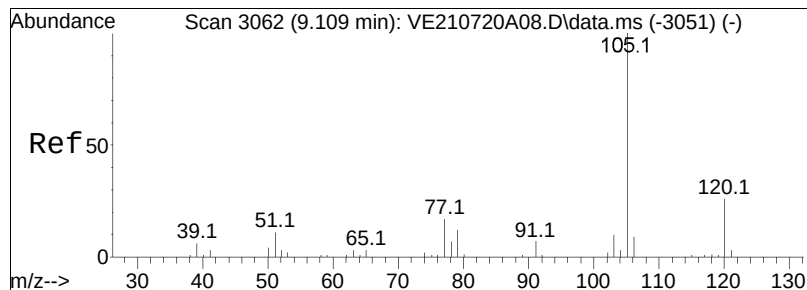




#80
 Bromoform
 Concen: 6.58 ug/L
 RT: 8.931 min Scan# 2998
 Delta R.T. 0.003 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.1	31.5	71.5





#82

Isopropylbenzene

Concen: 9.76 ug/L

RT: 9.098 min Scan# 3058

Delta R.T. 0.003 min

Lab File: VE210920A02.D

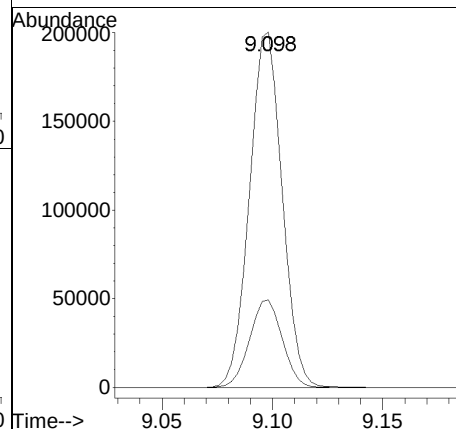
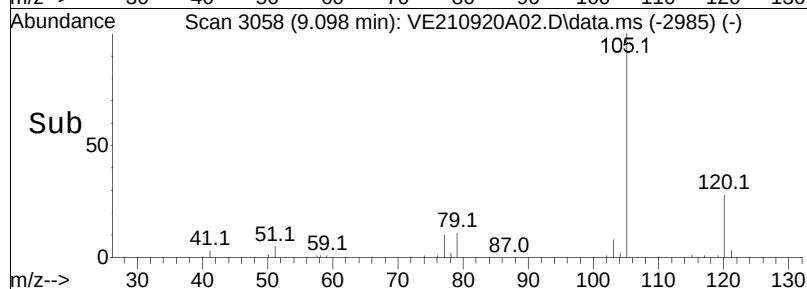
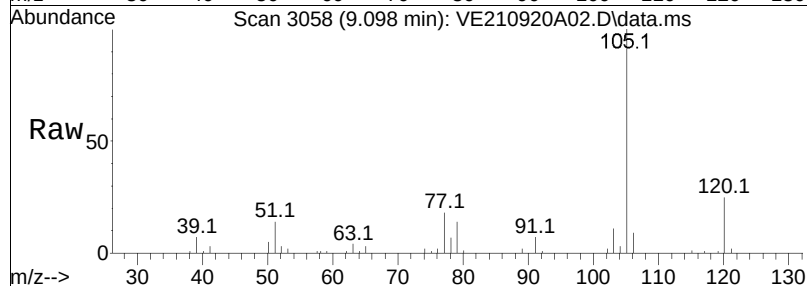
Acq: 20 Sep 2021 7:41 am

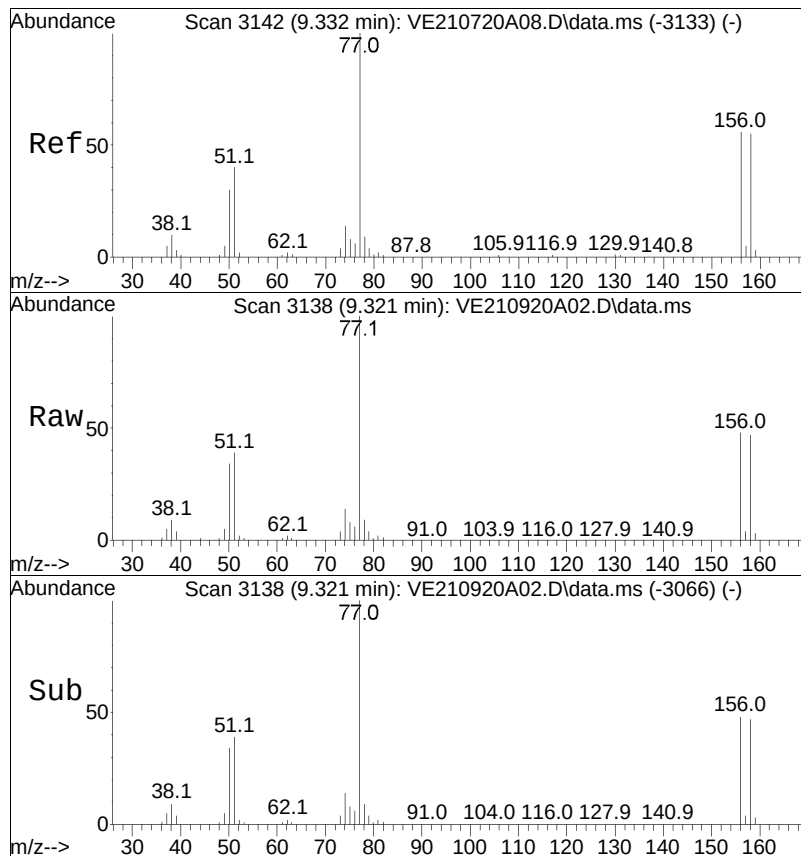
Tgt Ion:105 Resp: 206179

Ion Ratio Lower Upper

105 100

120 24.6 4.8 44.8





#84

Bromobenzene

Concen: 9.28 ug/L

RT: 9.321 min Scan# 3138

Delta R.T. -0.000 min

Lab File: VE210920A02.D

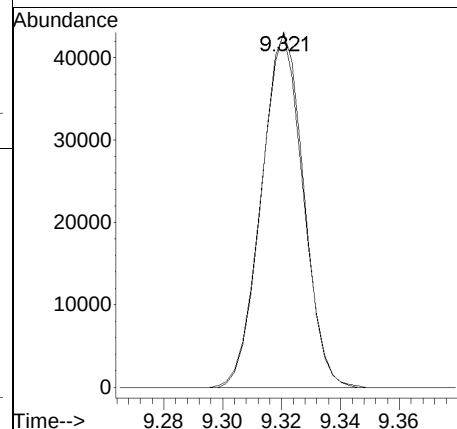
Acq: 20 Sep 2021 7:41 am

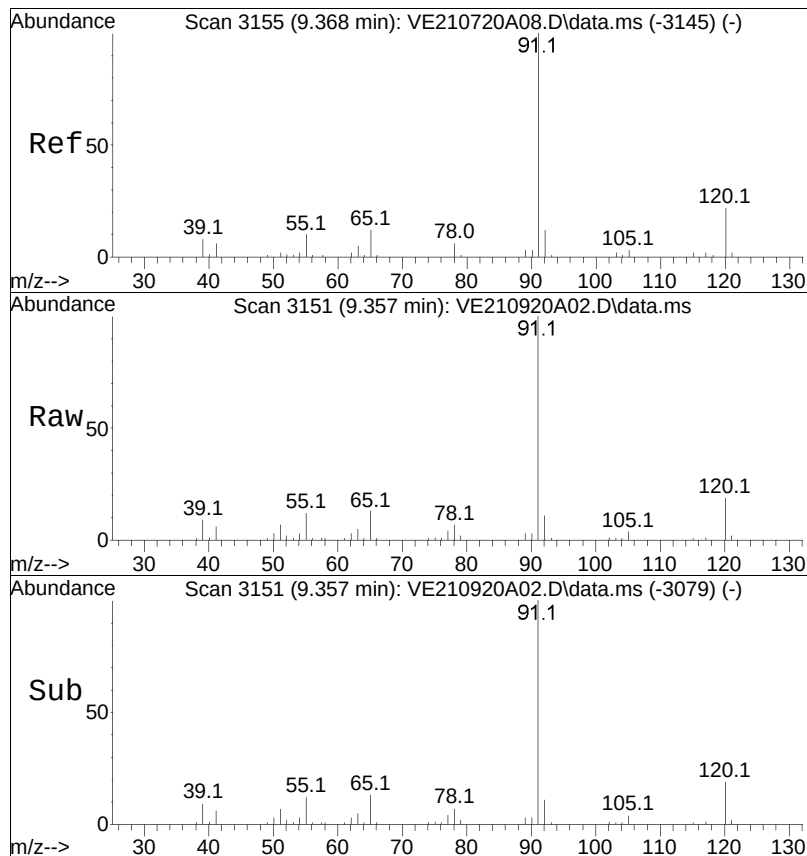
Tgt Ion:156 Resp: 42998

Ion Ratio Lower Upper

156 100

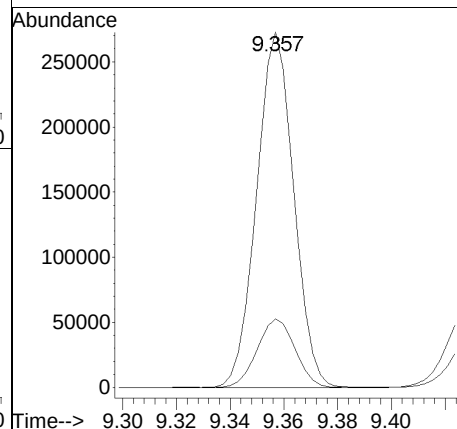
158 98.0 75.9 113.9

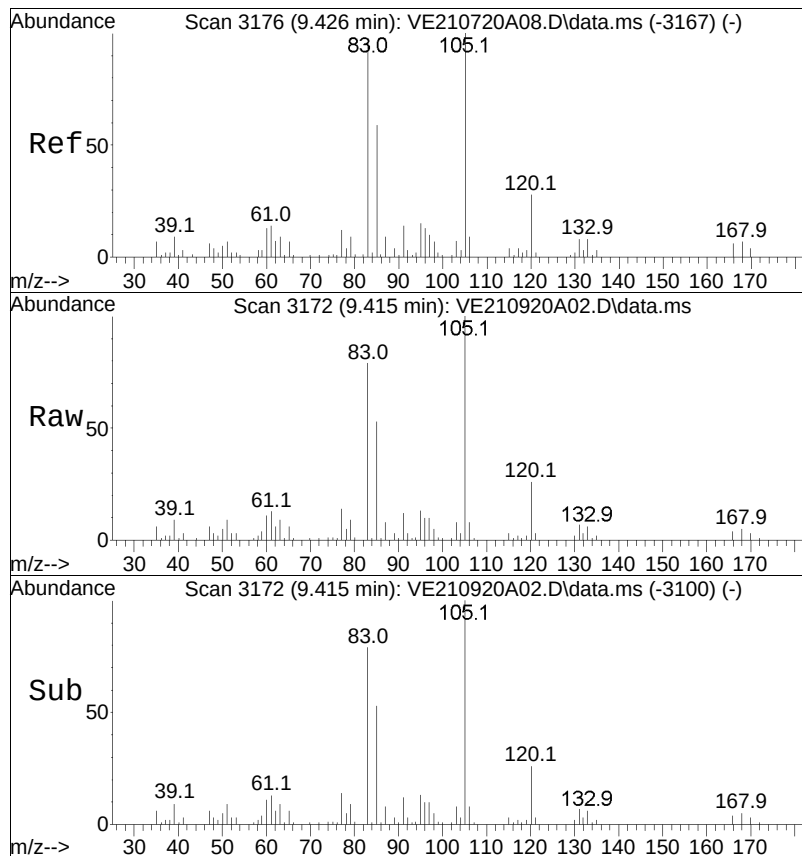




#85
 n-Propylbenzene
 Concen: 10.31 ug/L
 RT: 9.357 min Scan# 3151
 Delta R.T. -0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

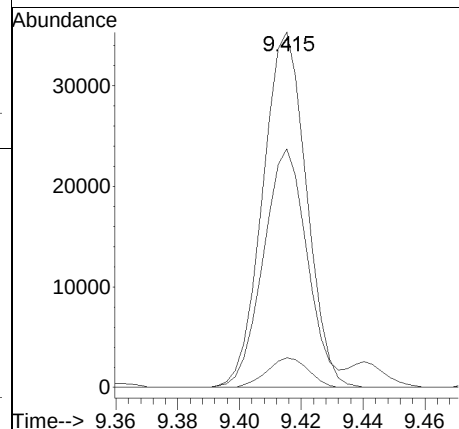
Tgt Ion	Ratio	Lower	Upper
91	100		
120	19.7	17.0	25.6

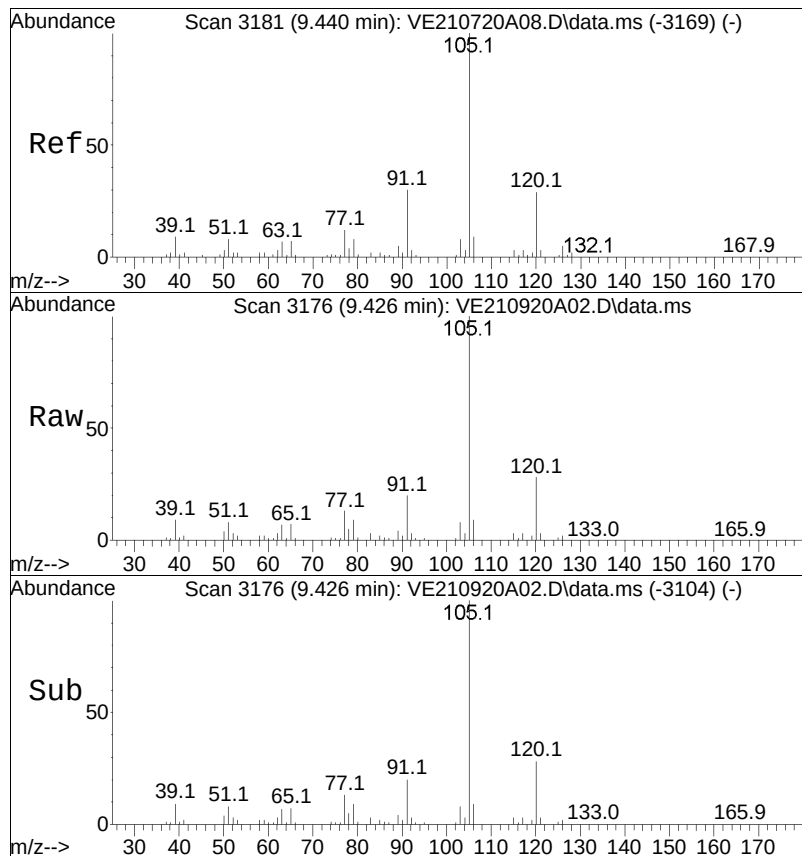




#87
 1,1,2,2-Tetrachloroethane
 Concen: 8.11 ug/L
 RT: 9.415 min Scan# 3172
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

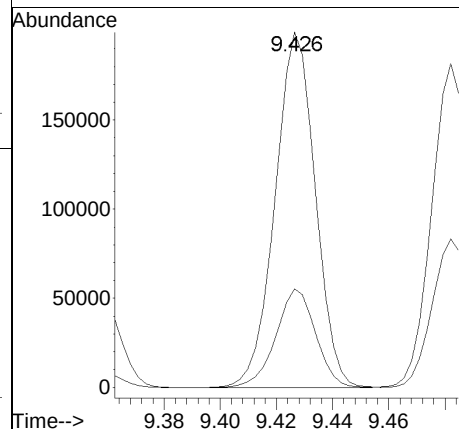
Tgt Ion	Ratio	Lower	Upper
83	100		
131	7.9	0.0	30.4
85	67.6	45.4	85.4

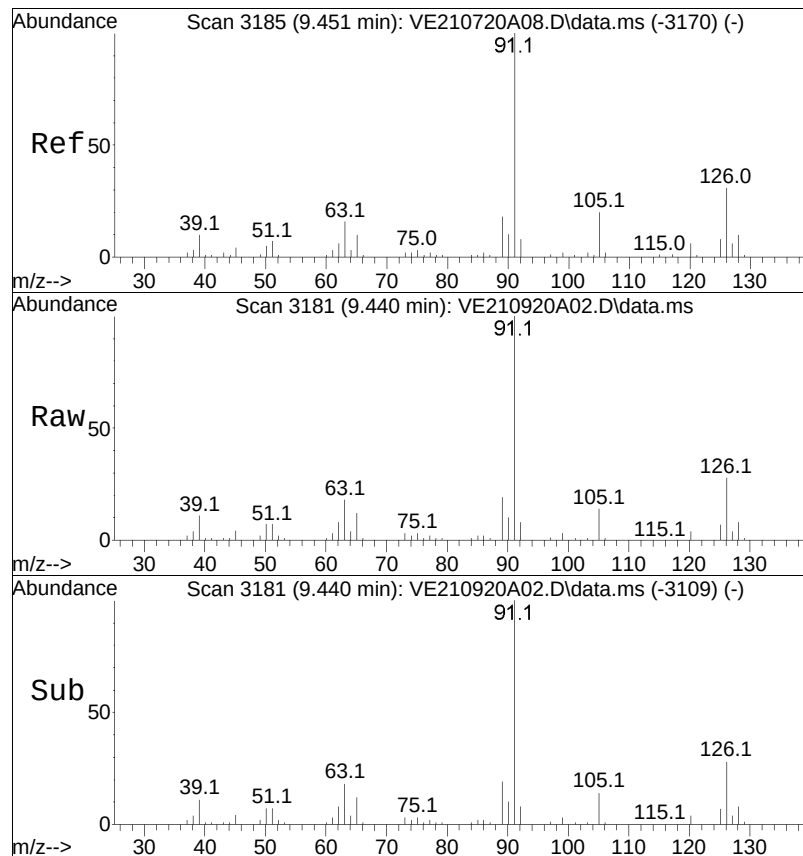




#88
 4-Ethyltoluene
 Concen: 9.95 ug/L
 RT: 9.426 min Scan# 3176
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

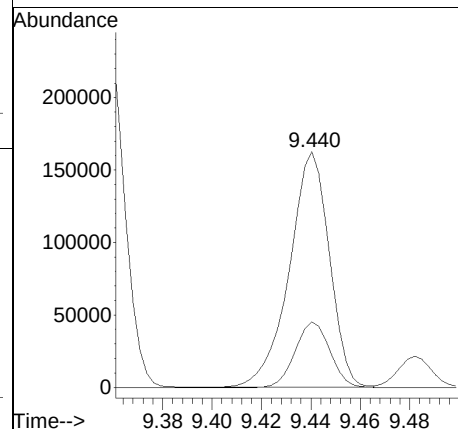
Tgt	Ion	Ratio	Lower	Upper
105	100			
120	27.3	18.1	37.7	

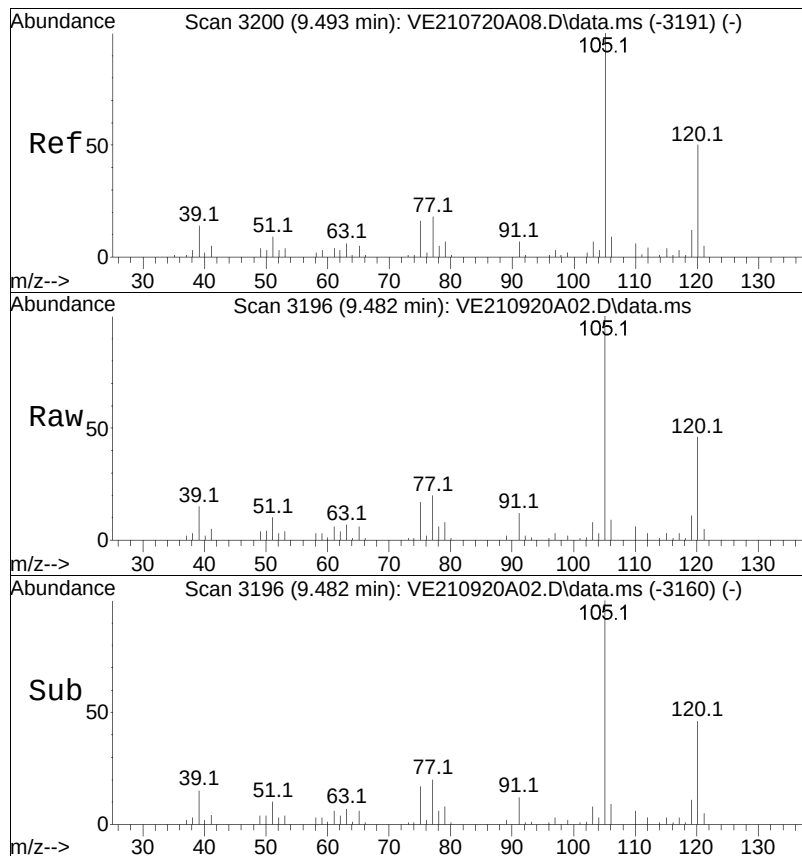




#89
 2-Chlorotoluene
 Concen: 9.91 ug/L
 RT: 9.440 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

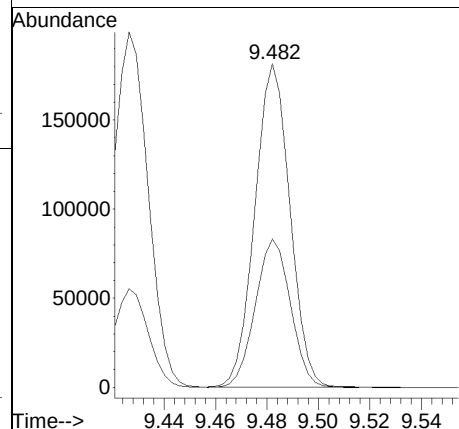
Tgt Ion	Ratio	Lower	Upper
91	100		
126	24.1	21.5	32.3

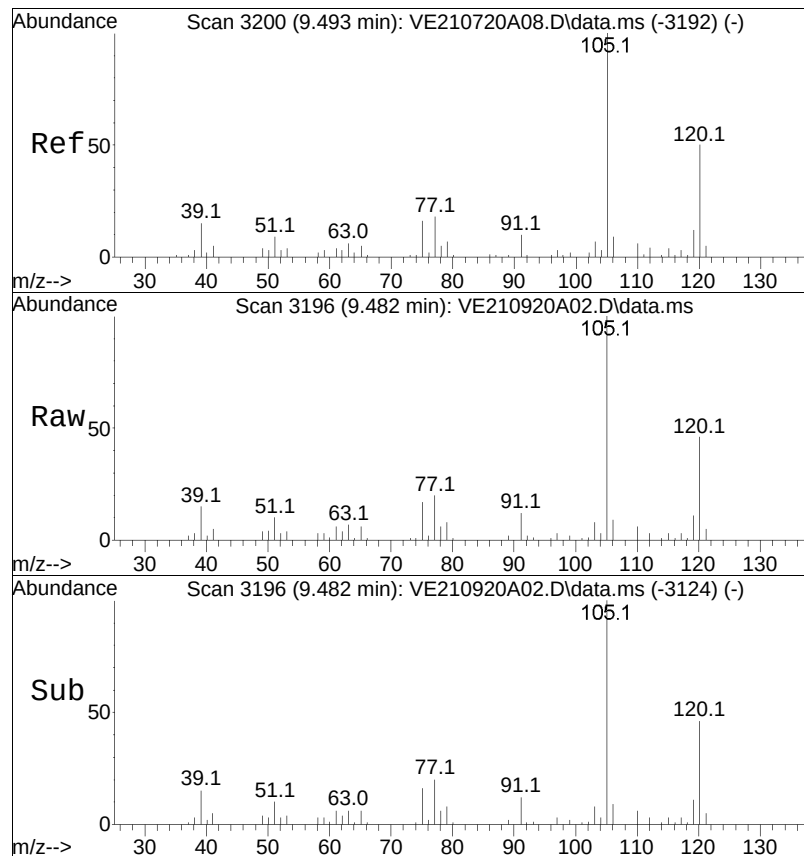




#90
 1,3,5-Trimethylbenzene
 Concen: 9.72 ug/L
 RT: 9.482 min Scan# 3196
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

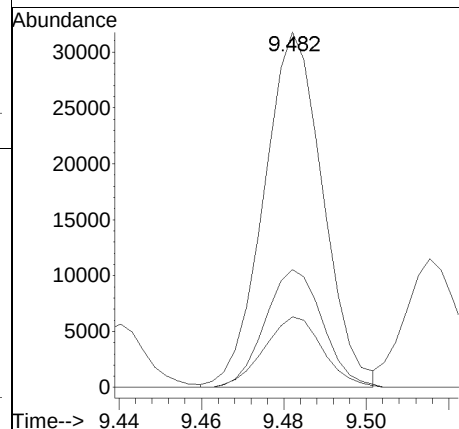
Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	34.8	52.2

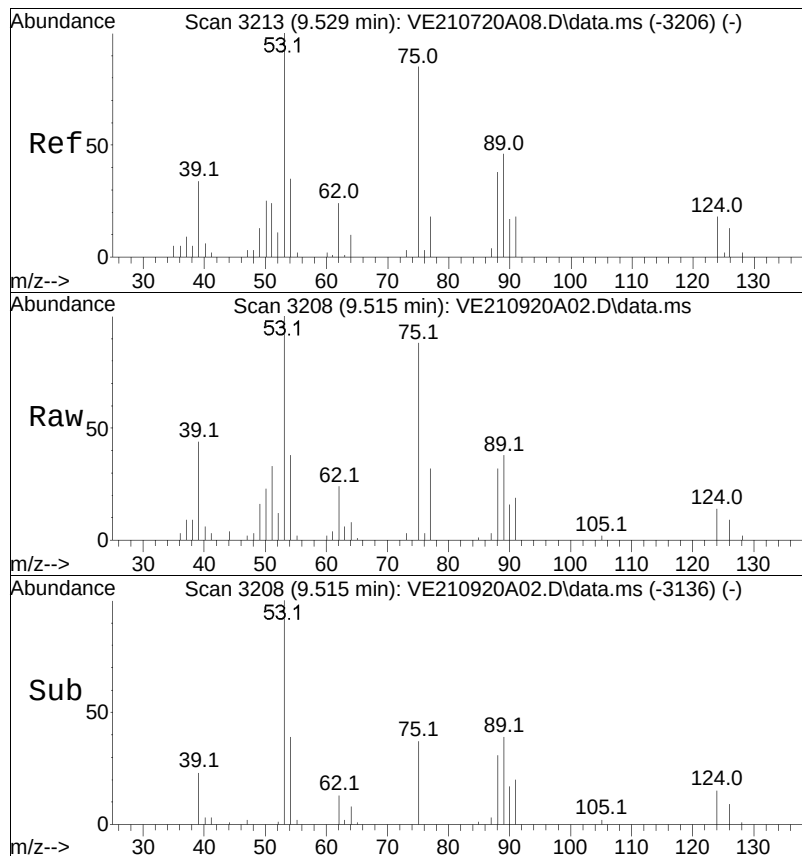




#91
 1,2,3-Trichloropropane
 Concen: 8.14 ug/L
 RT: 9.482 min Scan# 3196
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

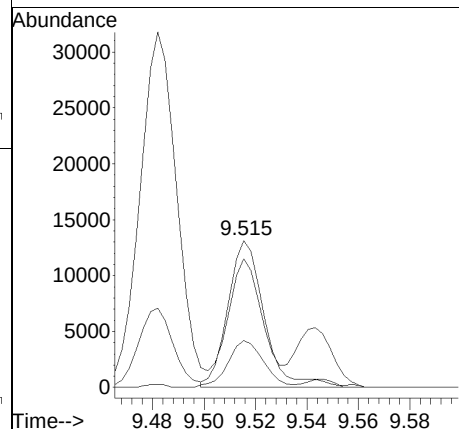
Tgt Ion:	75	Resp:	31649
Ion Ratio	Lower	Upper	
75	100		
110	32.3	25.4	52.8
112	19.7	15.6	32.4

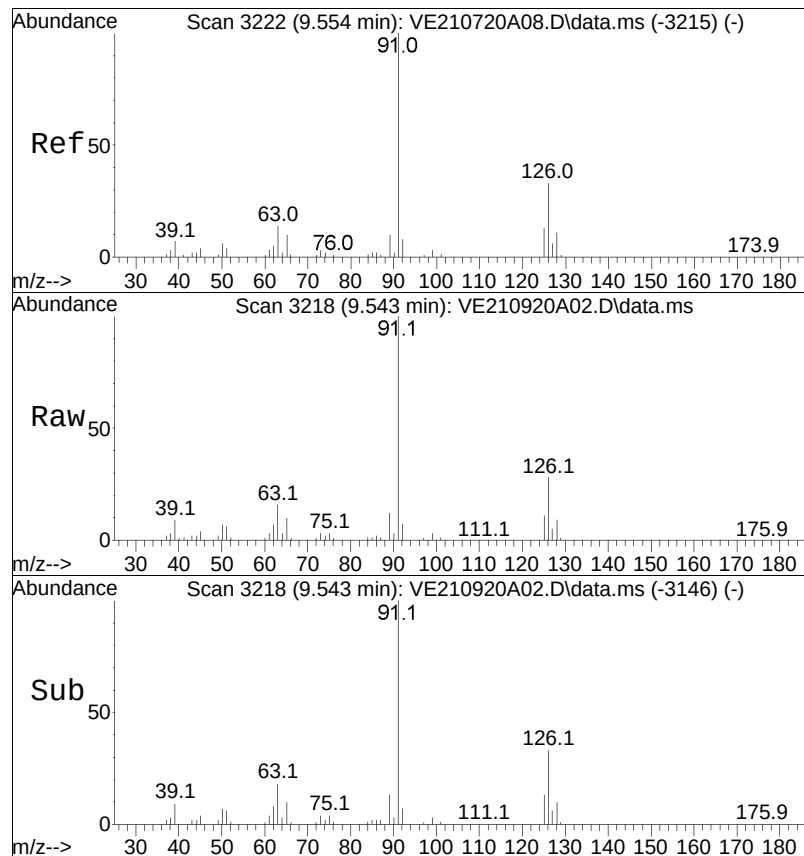




#92
 trans-1,4-Dichloro-2-butene
 Concen: 8.00 ug/L
 RT: 9.515 min Scan# 3208
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

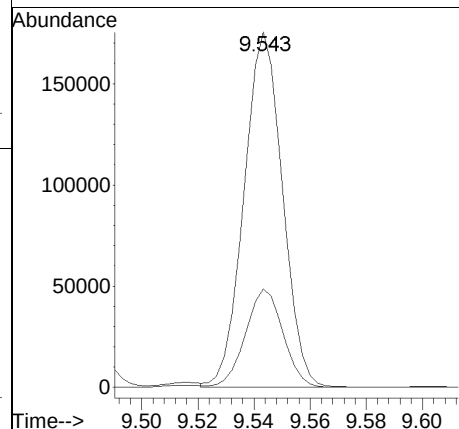
Tgt	Ion	Ratio	Lower	Upper
53	100			
88	31.0	39.6	59.4#	
75	81.1	70.2	105.4	

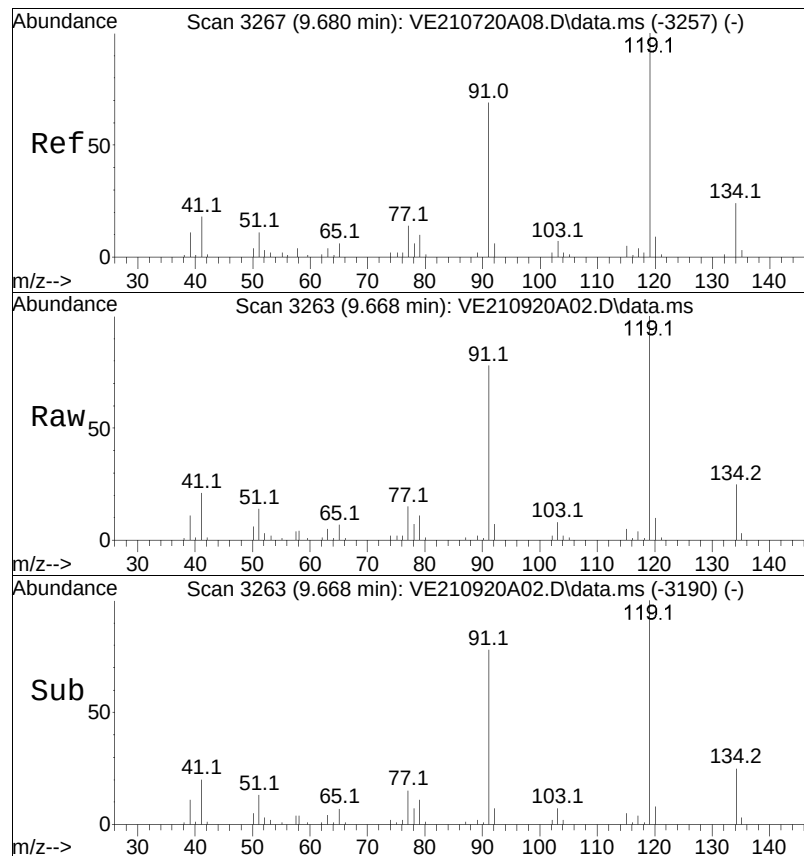




#93
 4-Chlorotoluene
 Concen: 9.93 ug/L
 RT: 9.543 min Scan# 3218
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

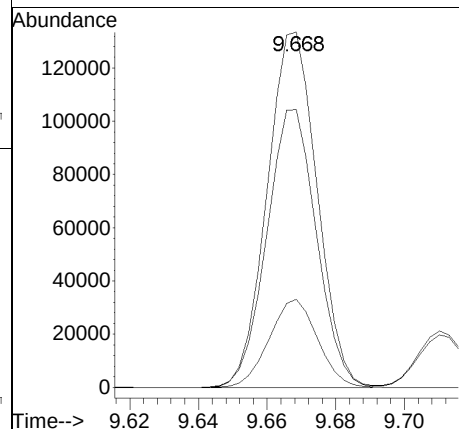
Tgt Ion:	91	126	Ratio	Lower	Upper
Resp:	167004				
Ion Ratio	100	27.0		24.6	36.8

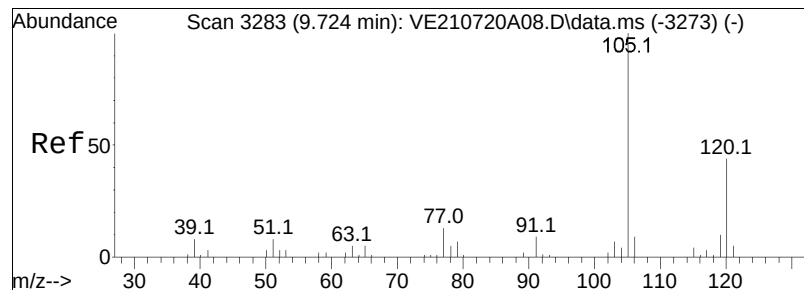




#94
 tert-Butylbenzene
 Concen: 9.49 ug/L
 RT: 9.668 min Scan# 3263
 Delta R.T. 0.002 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

Tgt	Ion:119	Resp:	134934
Ion	Ratio	Lower	Upper
119	100		
91	78.0	51.4	77.2#
134	24.0	18.3	27.5





#97

1,2,4-Trimethylbenzene

Concen: 9.72 ug/L

RT: 9.710 min Scan# 3278

Delta R.T. 0.000 min

Lab File: VE210920A02.D

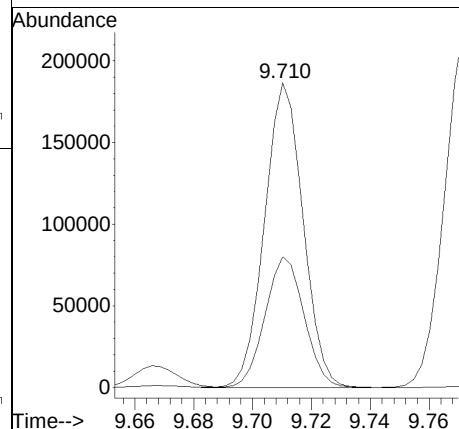
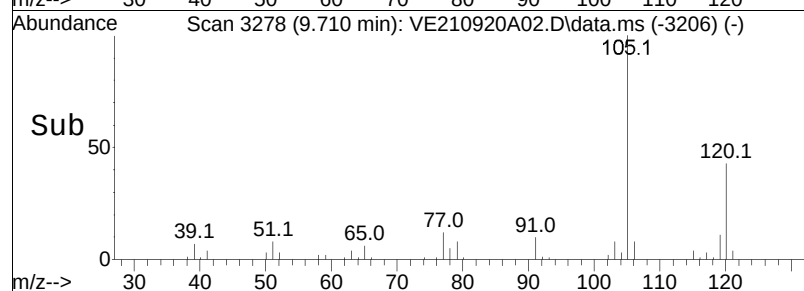
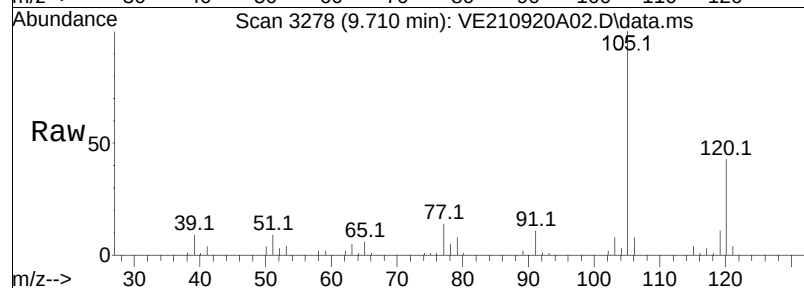
Acq: 20 Sep 2021 7:41 am

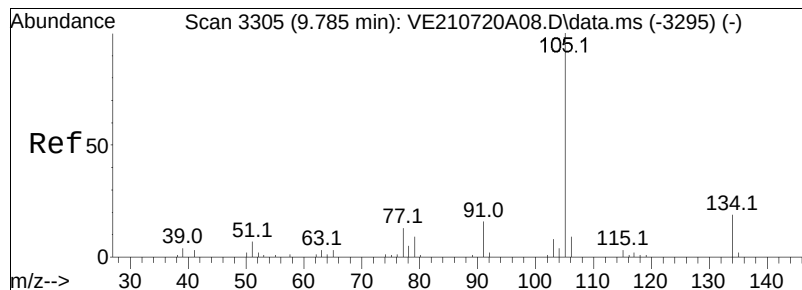
Tgt Ion:105 Resp: 169586

Ion Ratio Lower Upper

105 100

120 43.4 33.4 50.0





#98

sec-Butylbenzene

Concen: 9.72 ug/L

RT: 9.771 min Scan# 3300

Delta R.T. 0.000 min

Lab File: VE210920A02.D

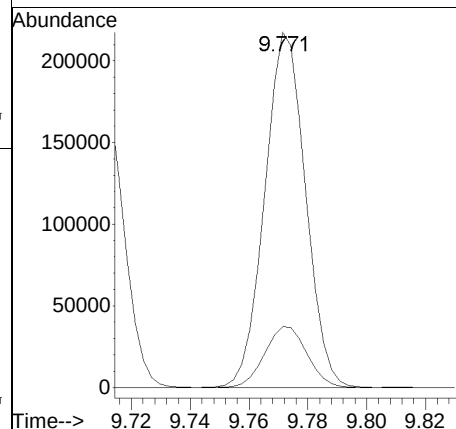
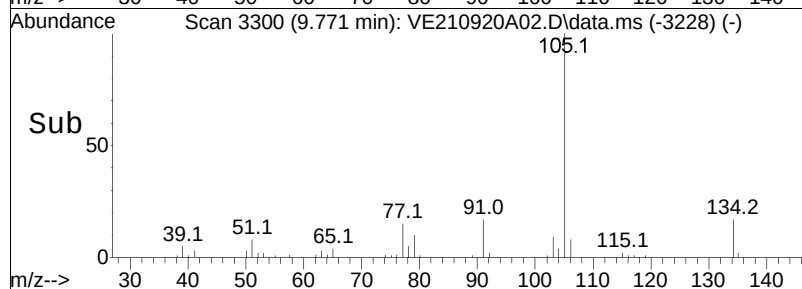
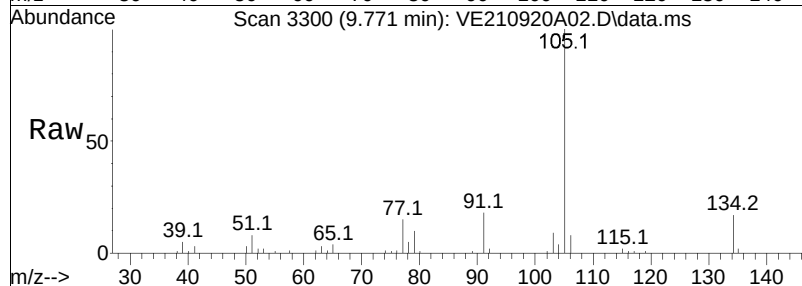
Acq: 20 Sep 2021 7:41 am

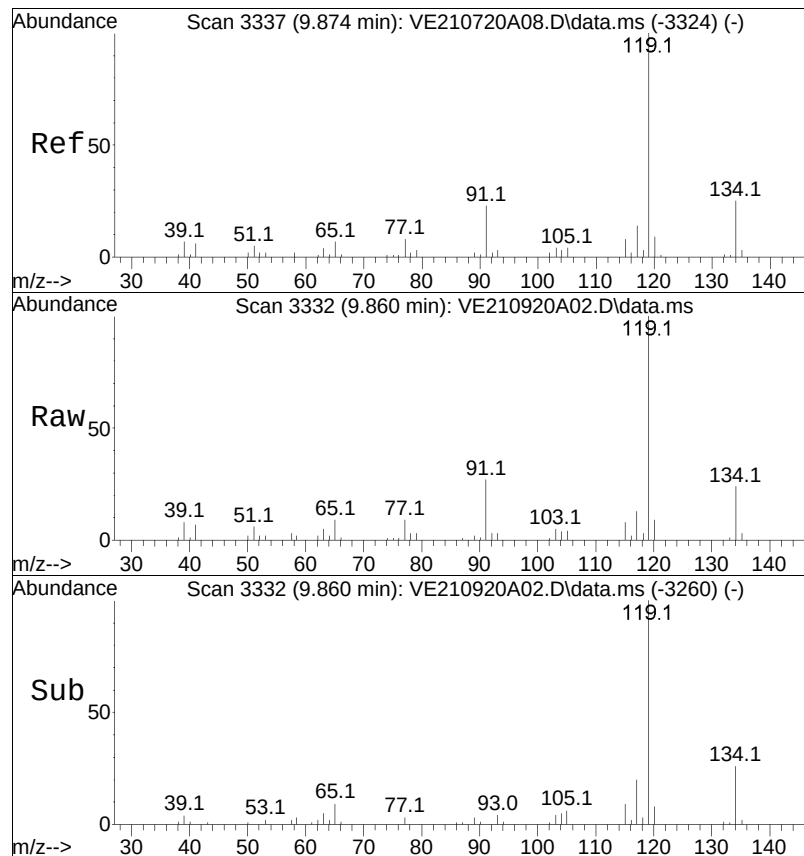
Tgt Ion:105 Resp: 209230

Ion Ratio Lower Upper

105 100

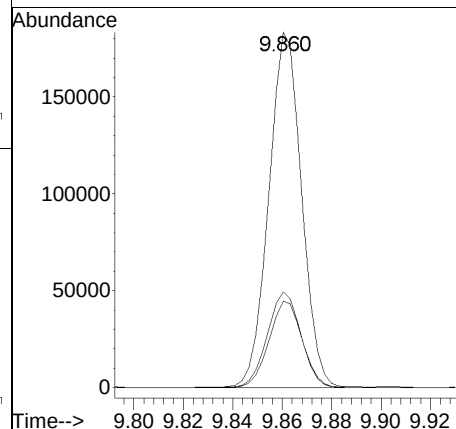
134 17.7 12.5 26.1

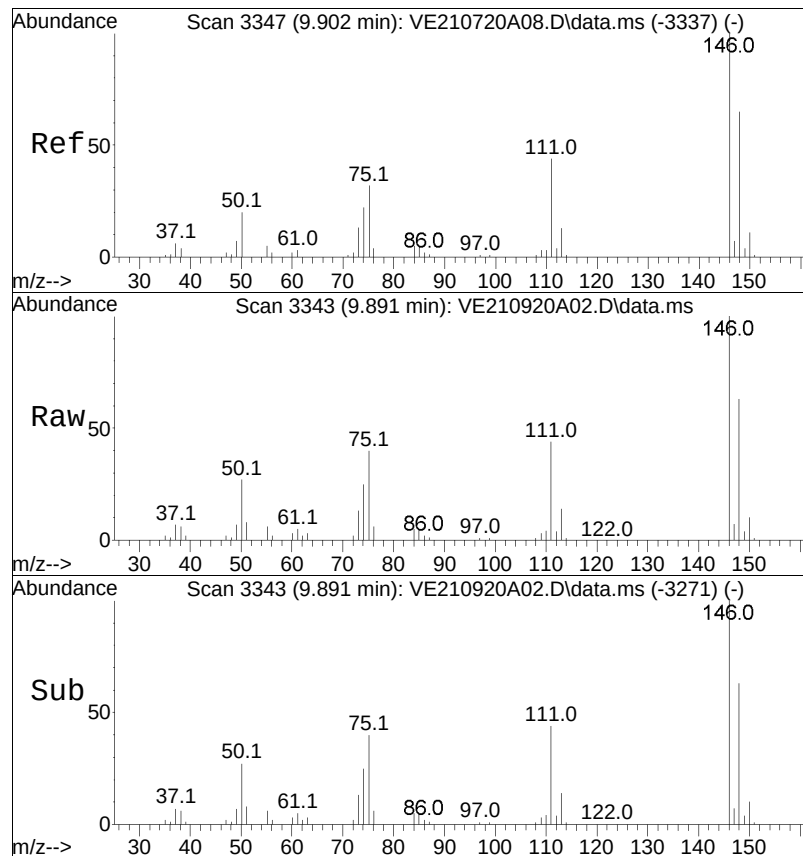




#99
 p-Isopropyltoluene
 Concen: 9.55 ug/L
 RT: 9.860 min Scan# 3332
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

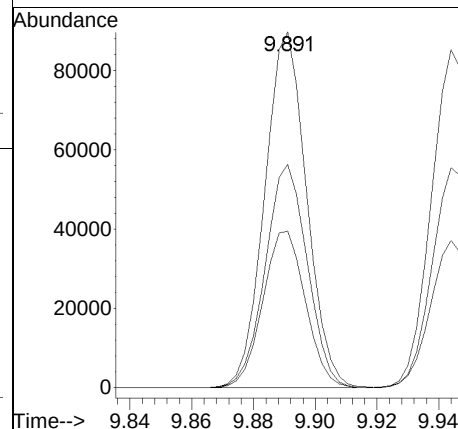
Tgt Ion:	119	Resp:	168992
Ion Ratio	Lower	Upper	
119	100		
134	24.6	16.1	33.3
91	27.3	17.3	35.9

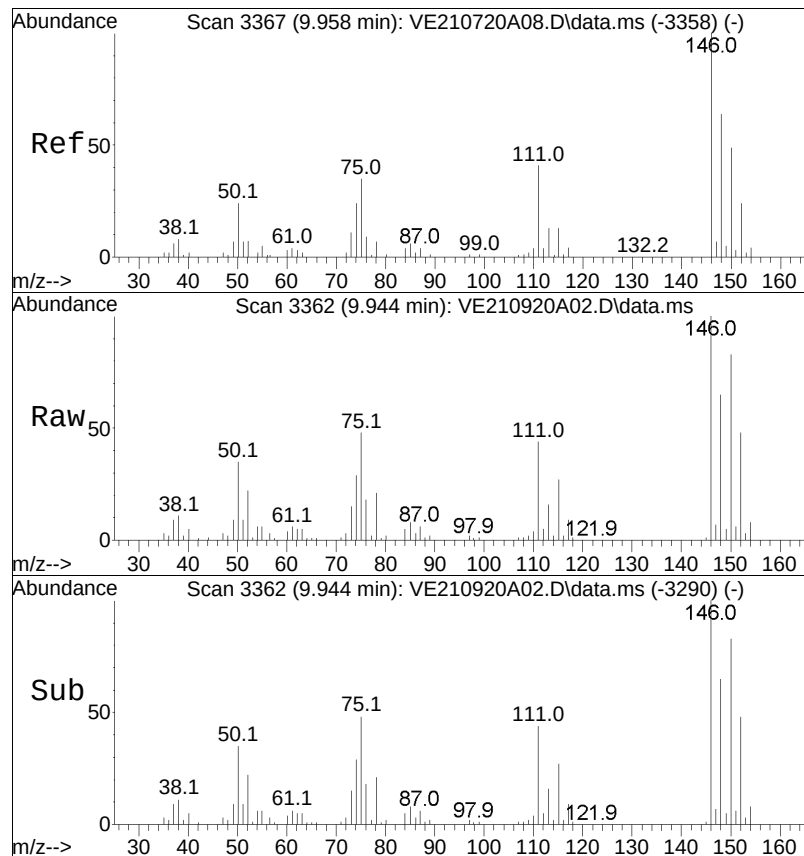




#100
 1,3-Dichlorobenzene
 Concen: 9.70 ug/L
 RT: 9.891 min Scan# 3343
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

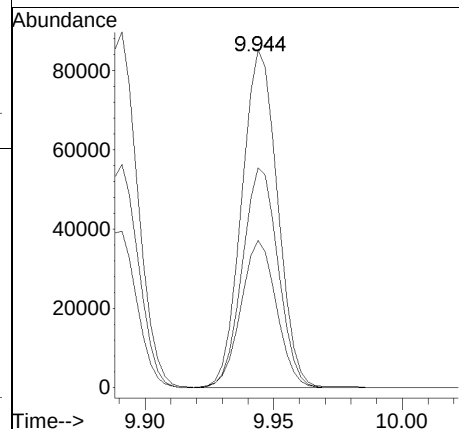
Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.7	27.5	57.1
148	63.1	41.9	86.9

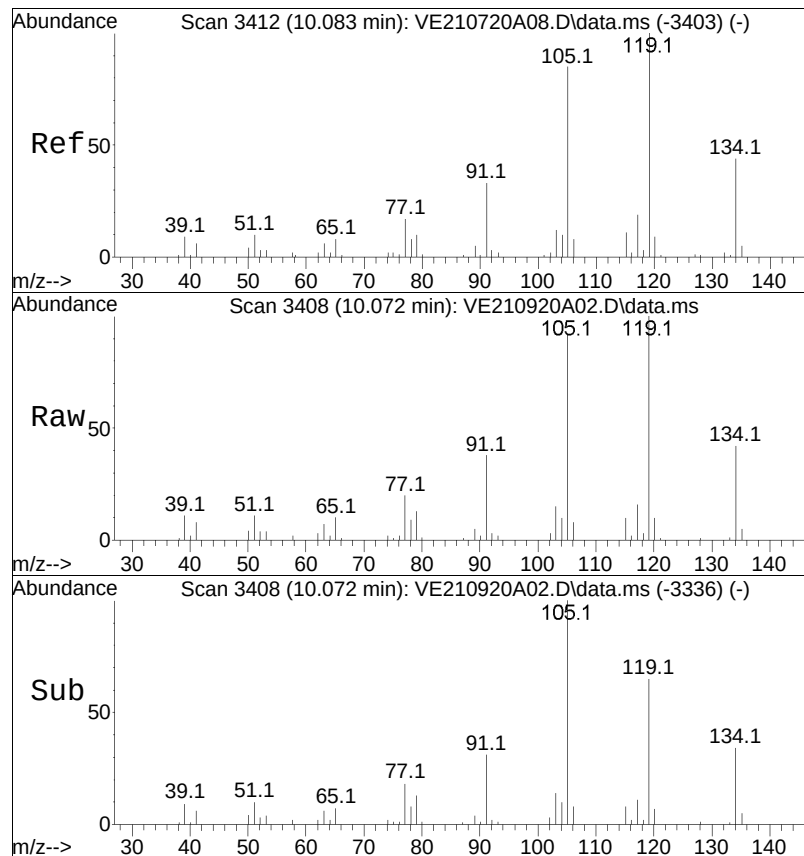




#101
 1,4-Dichlorobenzene
 Concen: 9.43 ug/L
 RT: 9.944 min Scan# 3362
 Delta R.T. -0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

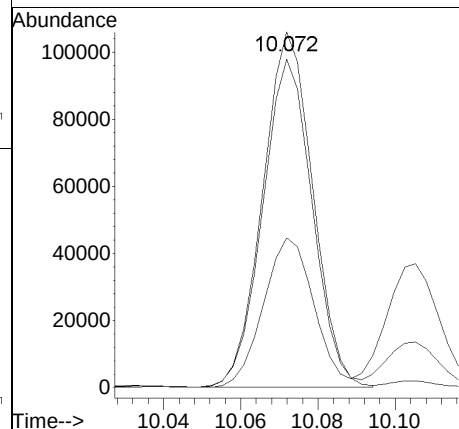
Tgt Ion:	146	Resp:	82516
Ion Ratio	Lower	Upper	
146	100		
111	43.0	32.3	48.5
148	64.7	49.9	74.9

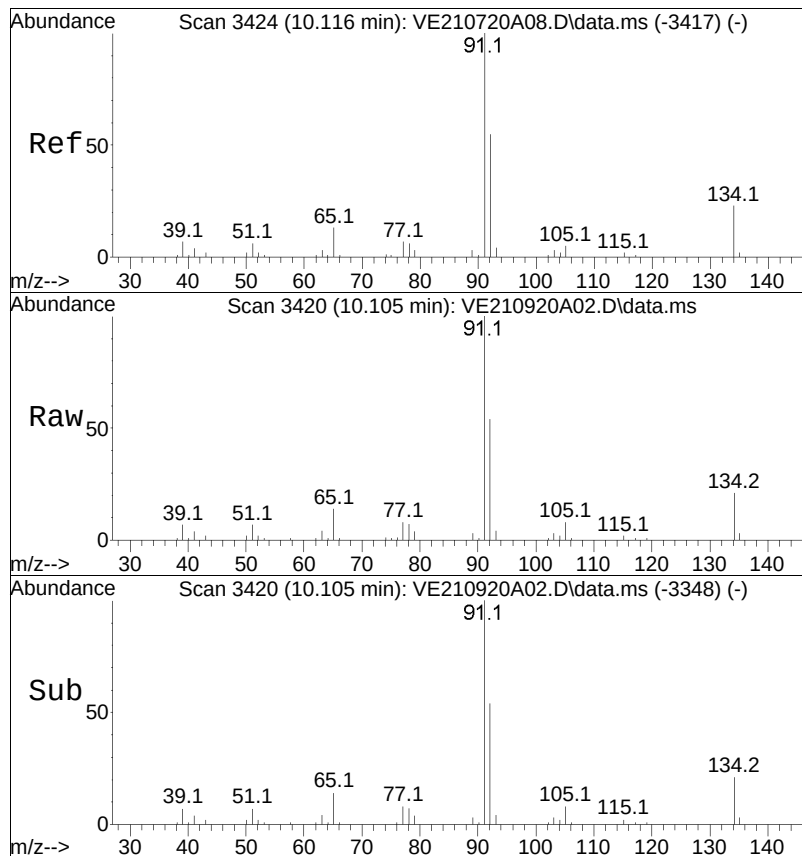




#102
 p-Diethylbenzene
 Concen: 9.37 ug/L
 RT: 10.072 min Scan# 3408
 Delta R.T. -0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

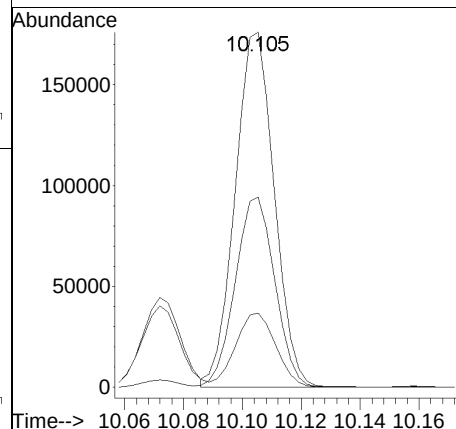
Tgt Ion:	119	Resp:	95578
Ion Ratio	Lower	Upper	
119	100		
105	91.5	59.5	123.7
134	42.4	30.2	62.6

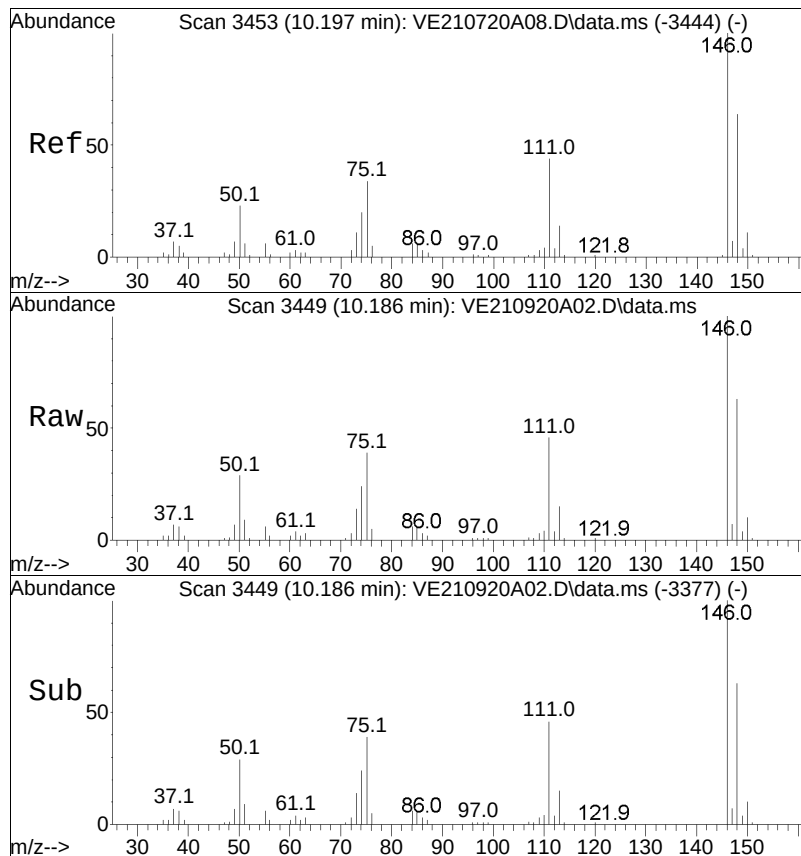




#103
 n-Butylbenzene
 Concen: 9.96 ug/L
 RT: 10.105 min Scan# 3420
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

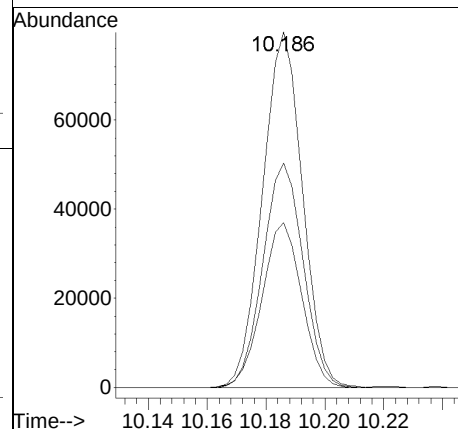
Tgt	Ion: 91	Resp:	162439
Ion	Ratio	Lower	Upper
91	100		
92	54.3	43.0	64.4
134	21.6	19.6	29.4

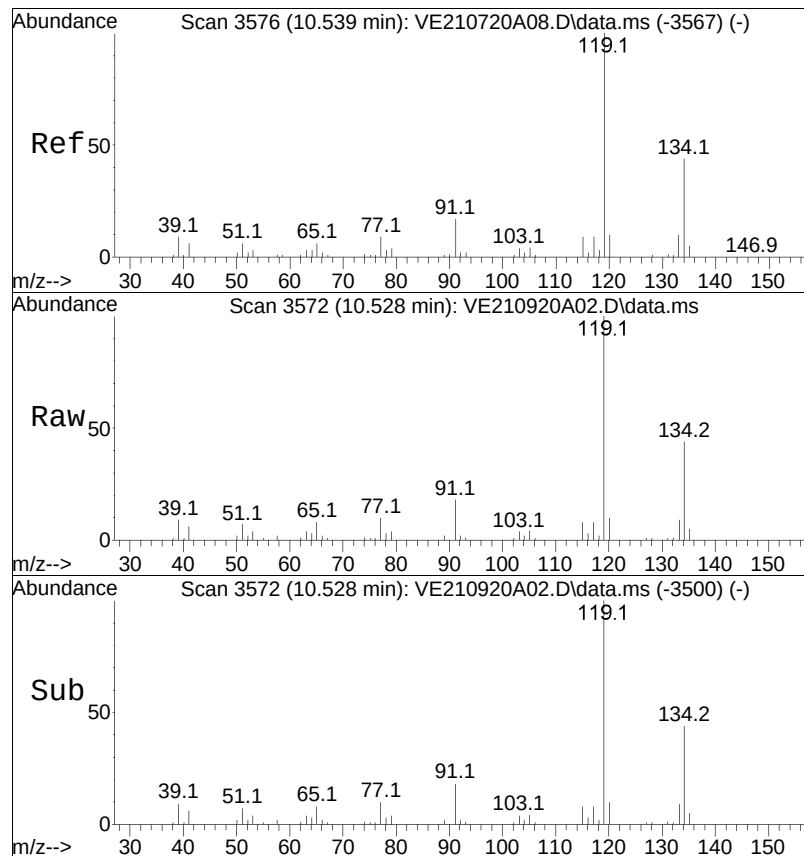




#104
 1,2-Dichlorobenzene
 Concen: 9.09 ug/L
 RT: 10.186 min Scan# 3449
 Delta R.T. -0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

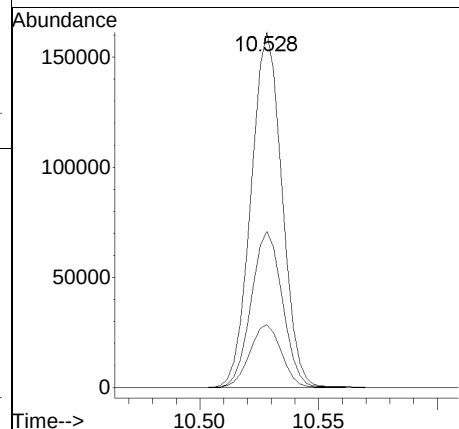
Tgt Ion:	146	Resp:	75393
Ion Ratio	Lower	Upper	
146	100		
111	46.1	28.3	58.7
148	63.6	42.3	87.8

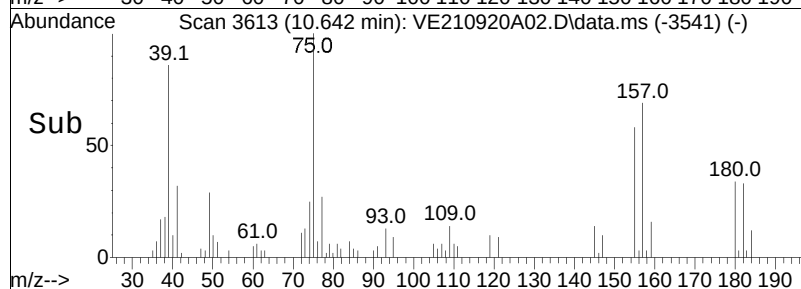
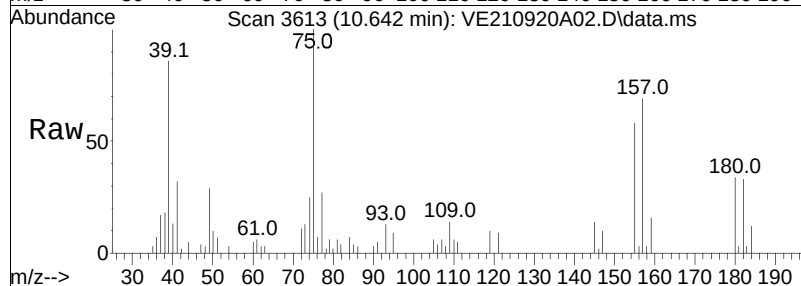
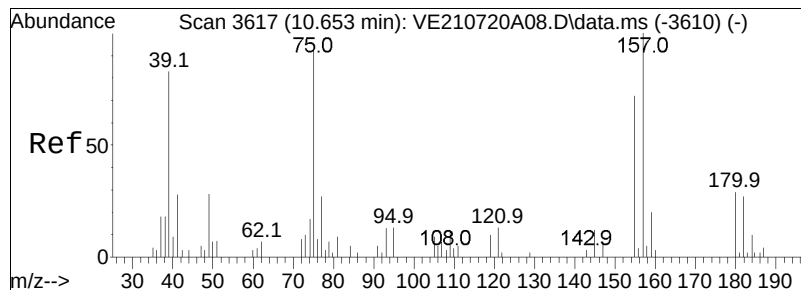




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 9.07 ug/L
 RT: 10.528 min Scan# 3572
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

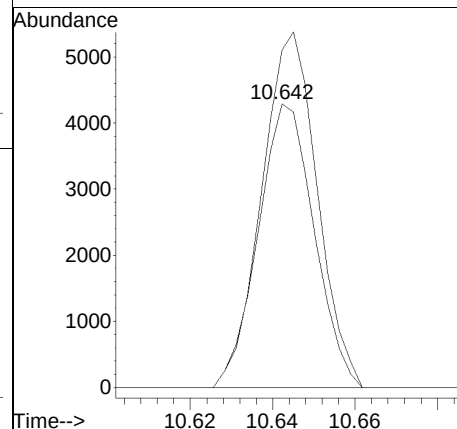
Tgt Ion:	119	Resp:	145992
Ion Ratio	Lower	Upper	
119	100		
134	44.4	30.5	63.3
91	18.0	12.4	25.7

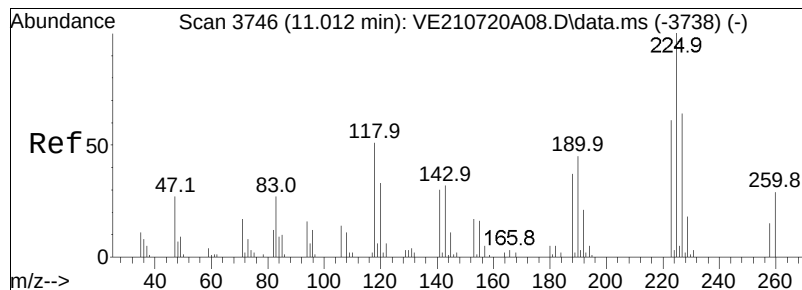




#106
 1,2-Dibromo-3-chloropropane
 Concen: 6.48 ug/L
 RT: 10.642 min Scan# 3613
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

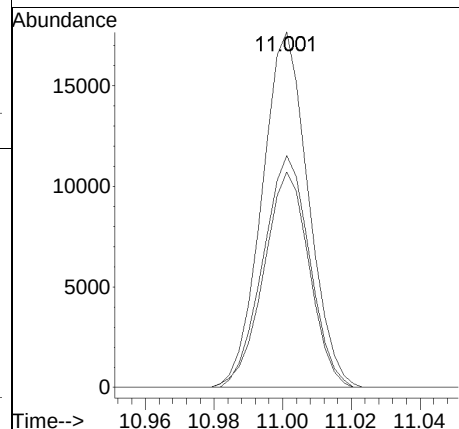
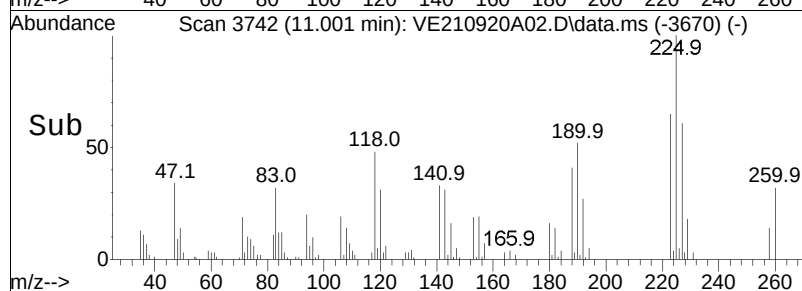
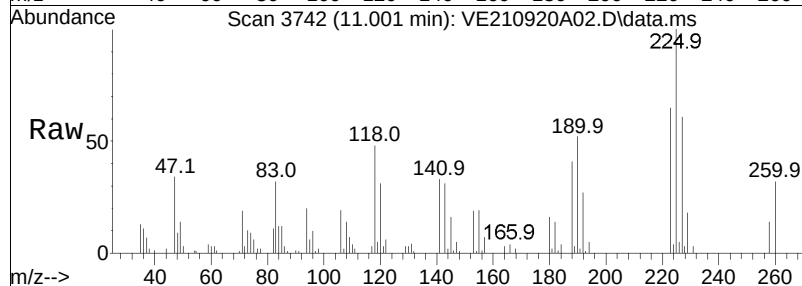
Tgt Ion	Ratio	Lower	Upper
155	100		
157	124.2	94.8	142.2

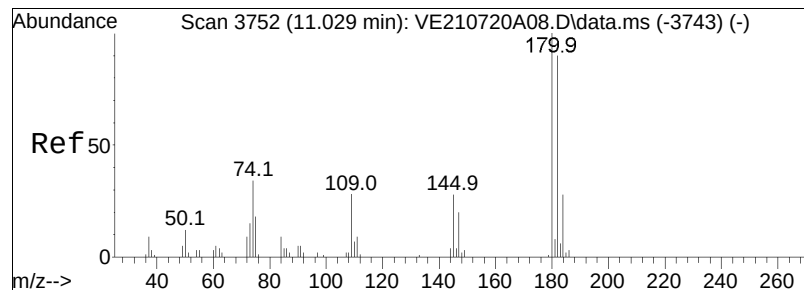




#108
 Hexachlorobutadiene
 Concen: 8.75 ug/L
 RT: 11.001 min Scan# 3742
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

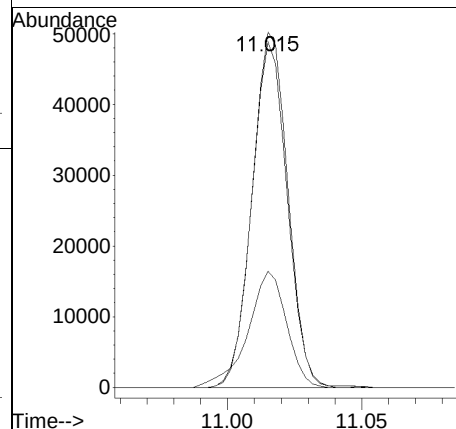
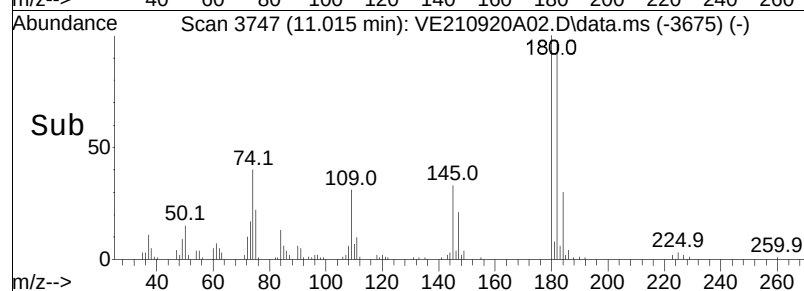
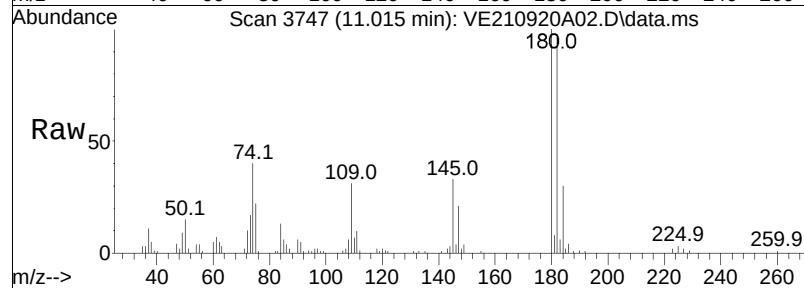
Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.6	54.3	81.5
227	59.5	52.4	78.6

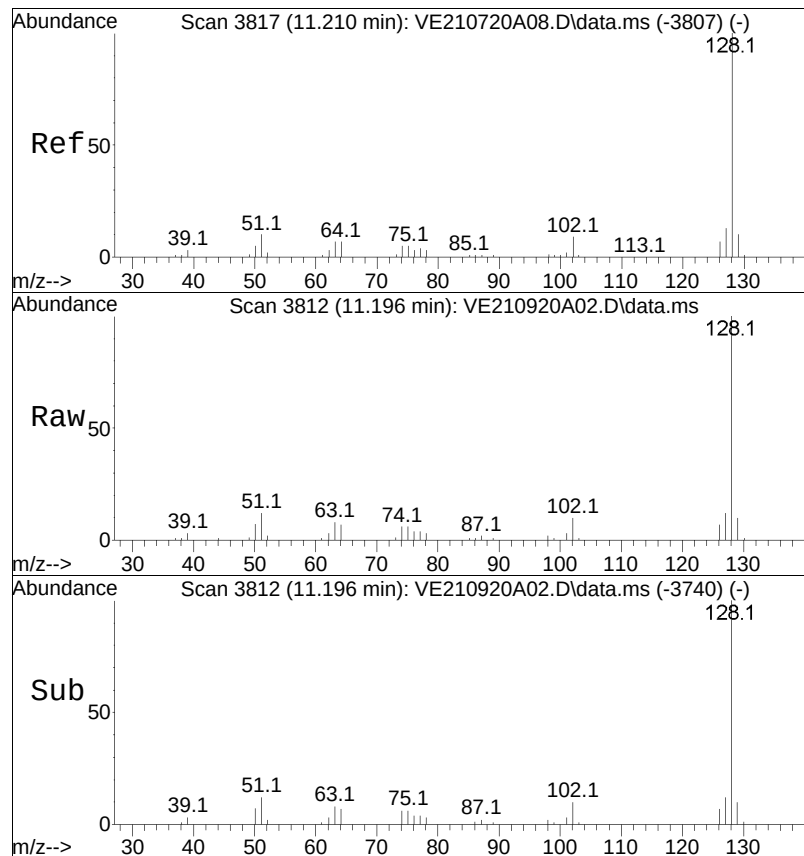




#109
 1,2,4-Trichlorobenzene
 Concen: 8.71 ug/L
 RT: 11.015 min Scan# 3747
 Delta R.T. 0.000 min
 Lab File: VE210920A02.D
 Acq: 20 Sep 2021 7:41 am

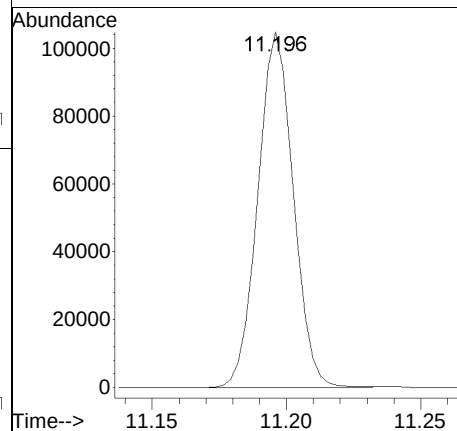
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.3	115.9
145	35.3	28.1	42.1

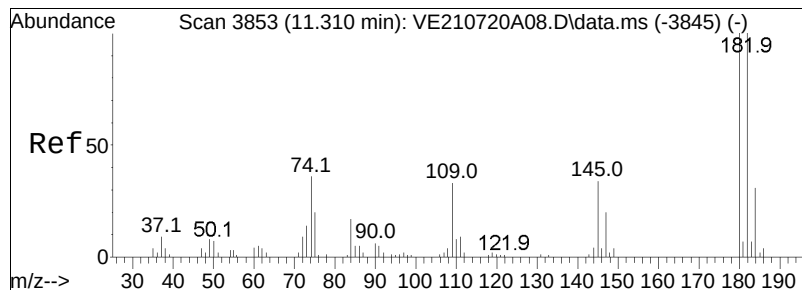




#110
Naphthalene
Concen: 7.31 ug/L
RT: 11.196 min Scan# 3812
Delta R.T. -0.000 min
Lab File: VE210920A02.D
Acq: 20 Sep 2021 7:41 am

Tgt Ion:128 Resp: 96030





#111

1,2,3-Trichlorobenzene

Concen: 8.17 ug/L

RT: 11.296 min Scan# 3848

Delta R.T. 0.000 min

Lab File: VE210920A02.D

Acq: 20 Sep 2021 7:41 am

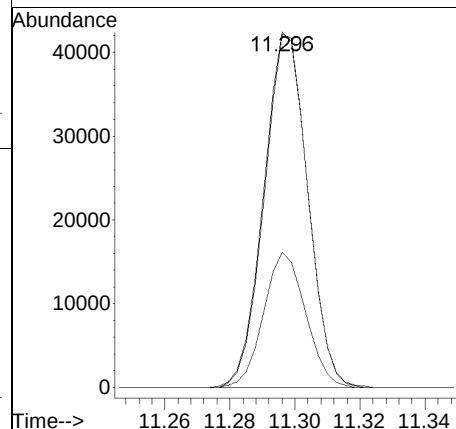
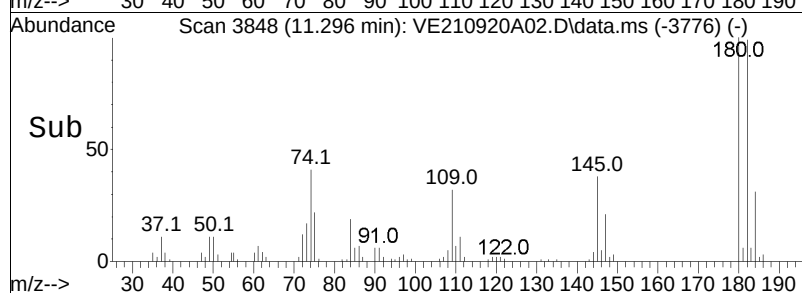
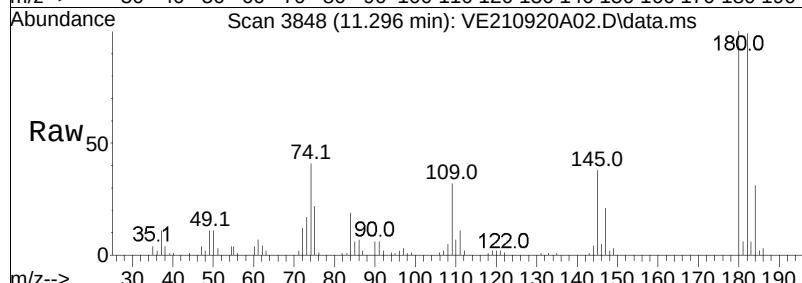
Tgt Ion:180 Resp: 39653

Ion Ratio Lower Upper

180 100

182 98.5 76.4 114.6

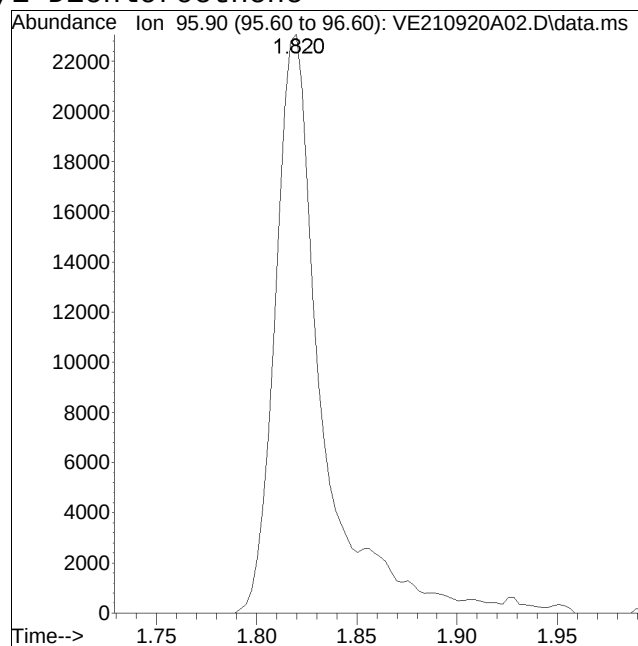
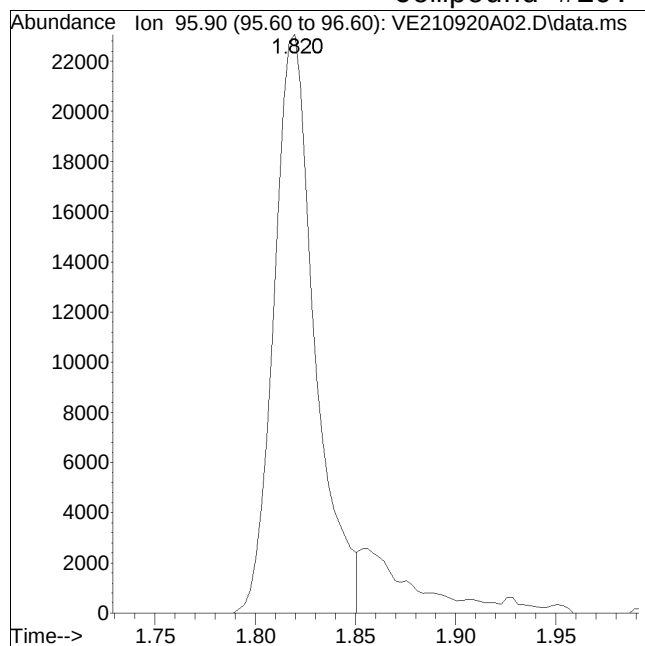
145 36.4 26.4 39.6



Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A02.D Operator : ELAINE:NLK
Date Inj'd : 9/20/2021 7:41 am Instrument : Elaine
Sample : WG1548873-3,31,10,10 Quant Date : 9/20/2021 8:16 am

Compound #10: 1,1-Dichloroethene



Original Peak Response = 32623

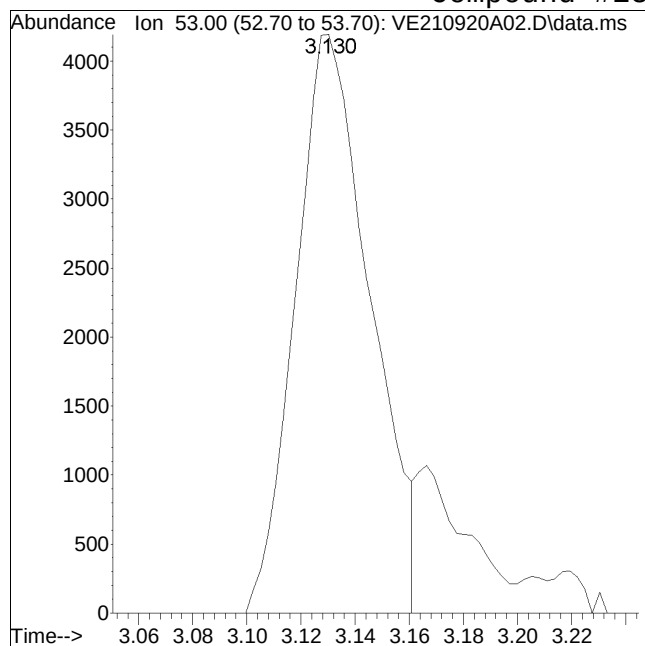
Manual Peak Response = 37952 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

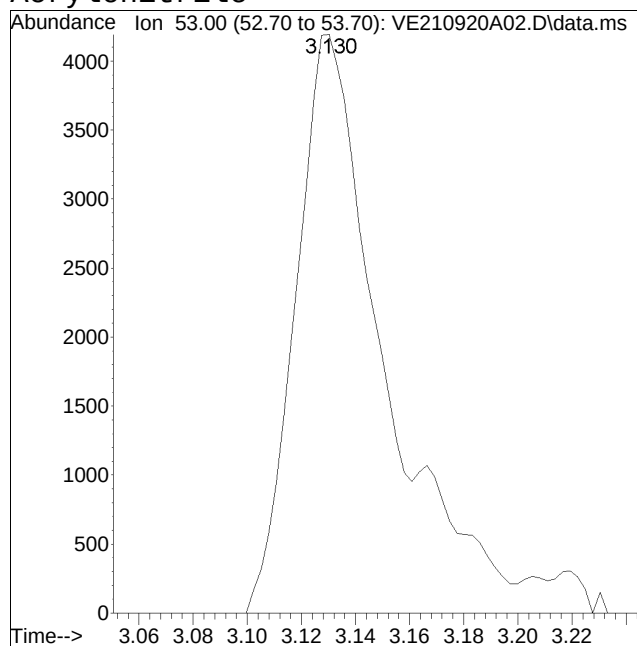
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A02.D Operator : ELAINE:NLK
Date Inj'd : 9/20/2021 7:41 am Instrument : Elaine
Sample : WG1548873-3,31,10,10 Quant Date : 9/20/2021 8:16 am

Compound #25: Acrylonitrile



Original Peak Response = 8051

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 9810 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A03.D
 Acq On : 20 Sep 2021 8:01 am
 Operator : ELAINE:NLK
 Sample : WG1548873-4,31,10,10
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:22:19 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.406	96	264008	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery = 101.44%			
59) Chlorobenzene-d5	8.439	117	179124	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery = 102.85%			
79) 1,4-Dichlorobenzene-d4	9.936	152	84525	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery = 100.33%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.407	113	56468	9.389	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.89%			
43) 1,2-Dichloroethane-d4	5.058	65	80070	9.060	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.60%			
60) Toluene-d8	7.120	98	247300	10.040	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.40%			
83) 4-Bromofluorobenzene	9.265	95	101803	10.152	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.52%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.918	85	27956	6.099	ug/L	98
3) Chloromethane	1.035	50	50149	8.283	ug/L	100
4) Vinyl chloride	1.088	62	54141	9.597	ug/L	99
5) Bromomethane	1.288	94	21397	7.272	ug/L	99
6) Chloroethane	1.369	64	36306	10.073	ug/L	99
7) Trichlorofluoromethane	1.461	101	53228	7.699	ug/L	100
8) Ethyl ether	1.689	74	23961	8.461	ug/L	83
10) 1,1-Dichloroethene	1.820	96	32960	8.121	ug/L	98
11) Carbon disulfide	1.823	76	99659	9.021	ug/L	99
15) Methylene chloride	2.293	84	48175	9.083	ug/L	86
17) Acetone	2.348	43	14222	9.379	ug/L	99
18) trans-1,2-Dichloroethene	2.435	96	39752M1	8.937	ug/L	
20) Methyl tert-butyl ether	2.552	73	103921	7.053	ug/L	99
23) 1,1-Dichloroethane	3.055	63	101882	9.667	ug/L	98
25) Acrylonitrile	3.127	53	10097M1	6.484	ug/L	
27) Vinyl acetate	3.414	43	99343	9.189	ug/L	99
28) cis-1,2-Dichloroethene	3.726	96	47649M1	9.134	ug/L	
29) 2,2-Dichloropropane	3.862	77	74563	9.378	ug/L	92
30) Bromochloromethane	3.998	128	16191	8.127	ug/L	96
32) Chloroform	4.162	83	82505M1	8.912	ug/L	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A03.D
 Acq On : 20 Sep 2021 8:01 am
 Operator : ELAINE:NLK
 Sample : WG1548873-4,31,10,10
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:22:19 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34)	Carbon tetrachloride	4.274	117	44773	7.166	ug/L	98
37)	1,1,1-Trichloroethane	4.379	97	64716	8.024	ug/L #	93
39)	2-Butanone	4.602	43	15150	7.228	ug/L #	89
40)	1,1-Dichloropropene	4.558	75	57791	8.803	ug/L	97
41)	Benzene	4.875	78	186137	9.158	ug/L	97
44)	1,2-Dichloroethane	5.142	62	68000	8.178	ug/L	98
48)	Trichloroethene	5.601	95	42995	8.661	ug/L	87
50)	Dibromomethane	6.057	93	21298	7.464	ug/L	94
51)	1,2-Dichloropropane	6.171	63	54759	9.400	ug/L #	90
54)	Bromodichloromethane	6.282	83	54338	7.435	ug/L	99
57)	1,4-Dioxane	6.508	88	10806M1	301.905	ug/L	
58)	cis-1,3-Dichloropropene	6.947	75	68063	8.283	ug/L	97
61)	Toluene	7.170	92	114495	9.028	ug/L	96
62)	4-Methyl-2-pentanone	7.590	58	12166	6.839	ug/L	96
63)	Tetrachloroethene	7.529	166	35369	8.343	ug/L	99
65)	trans-1,3-Dichloropropene	7.610	75	57360	7.798	ug/L	94
68)	1,1,2-Trichloroethane	7.740	83	27509	8.273	ug/L	97
69)	Chlorodibromomethane	7.877	129	28434	6.827	ug/L	97
70)	1,3-Dichloropropane	7.955	76	60324	8.020	ug/L	100
71)	1,2-Dibromoethane	8.035	107	27481	7.409	ug/L	99
72)	2-Hexanone	8.283	43	22258	6.675	ug/L	95
73)	Chlorobenzene	8.453	112	114258	9.116	ug/L	97
74)	Ethylbenzene	8.492	91	220762	9.342	ug/L	96
75)	1,1,1,2-Tetrachloroethane	8.511	131	33518	7.662	ug/L	93
76)	p/m Xylene	8.600	106	156097	18.605	ug/L	91
77)	o Xylene	8.887	106	151717	18.906	ug/L	98
78)	Styrene	8.926	104	265060	18.774	ug/L	93
80)	Bromoform	8.928	173	14603	6.258	ug/L	94
82)	Isopropylbenzene	9.098	105	196540	9.272	ug/L	99
84)	Bromobenzene	9.321	156	41695	8.972	ug/L	97
85)	n-Propylbenzene	9.357	91	250946	9.872	ug/L	97
87)	1,1,2,2-Tetrachloroethane	9.415	83	36036	8.371	ug/L	99
88)	4-Ethyltoluene	9.426	105	187290	9.371	ug/L	99
89)	2-Chlorotoluene	9.440	91	178757	9.672	ug/L	94
90)	1,3,5-Trimethylbenzene	9.482	105	168057	9.498	ug/L	98
91)	1,2,3-Trichloropropane	9.482	75	31636	8.113	ug/L	92
92)	trans-1,4-Dichloro-2-b...	9.515	53	10839	6.637	ug/L	84
93)	4-Chlorotoluene	9.543	91	157416	9.328	ug/L	95
94)	tert-Butylbenzene	9.668	119	129718	9.089	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A03.D
 Acq On : 20 Sep 2021 8:01 am
 Operator : ELAINE:NLK
 Sample : WG1548873-4,31,10,10
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:22:19 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	9.710	105	162242	9.272	ug/L	98
98)	sec-Butylbenzene	9.771	105	197150	9.129	ug/L	97
99)	p-Isopropyltoluene	9.860	119	159768	8.995	ug/L	99
100)	1,3-Dichlorobenzene	9.891	146	81267	9.308	ug/L	97
101)	1,4-Dichlorobenzene	9.944	146	80385	9.155	ug/L	94
102)	p-Diethylbenzene	10.072	119	93746	9.161	ug/L	95
103)	n-Butylbenzene	10.105	91	156681	9.576	ug/L	97
104)	1,2-Dichlorobenzene	10.186	146	73070	8.785	ug/L	98
105)	1,2,4,5-Tetramethylben...	10.528	119	145971	9.042	ug/L	96
106)	1,2-Dibromo-3-chloropr...	10.642	155	3777	6.024	ug/L	95
108)	Hexachlorobutadiene	11.001	225	15737	8.269	ug/L	99
109)	1,2,4-Trichlorobenzene	11.015	180	46524	8.712	ug/L	95
110)	Naphthalene	11.196	128	95565	7.247	ug/L	100
111)	1,2,3-Trichlorobenzene	11.296	180	39993	8.208	ug/L	99

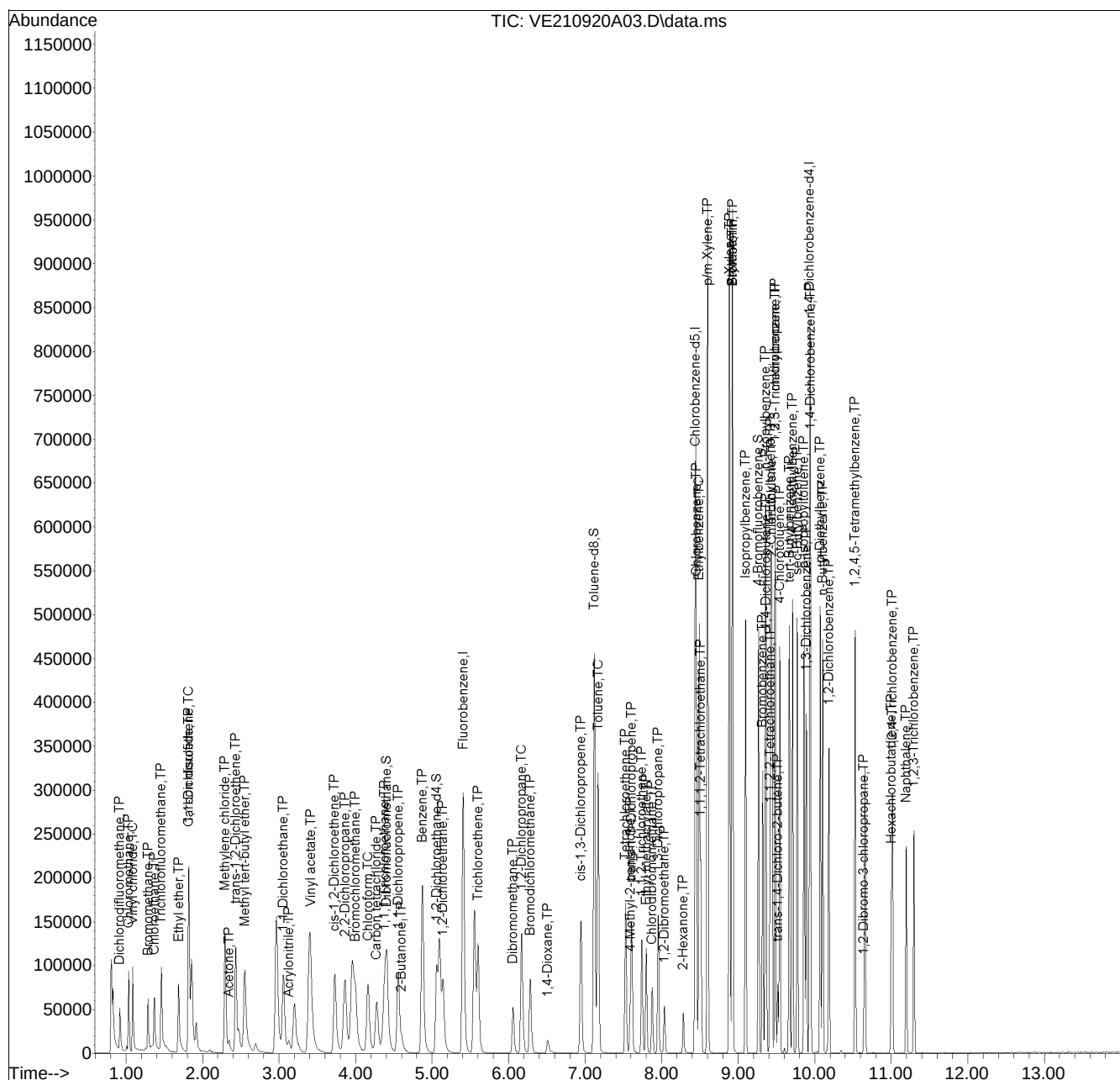
(#) = qualifier out of range (m) = manual integration (+) = signals summed

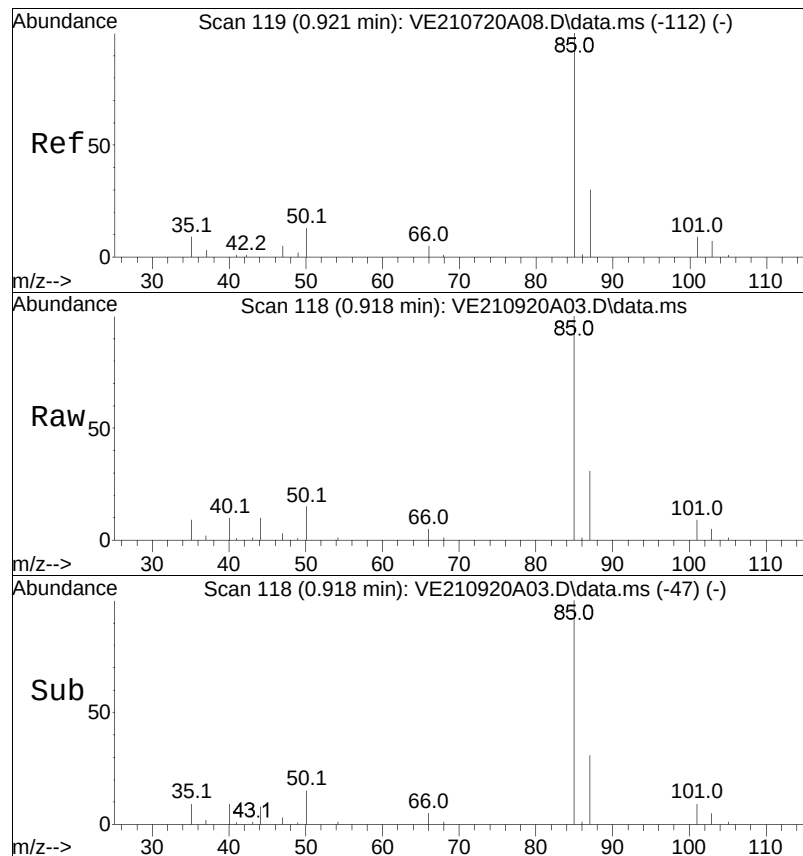
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A03.D
 Acq On : 20 Sep 2021 8:01 am
 Operator : ELAINE:NLK
 Sample : WG1548873-4, 31, 10, 10
 Misc : WG1548873, ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:22:19 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

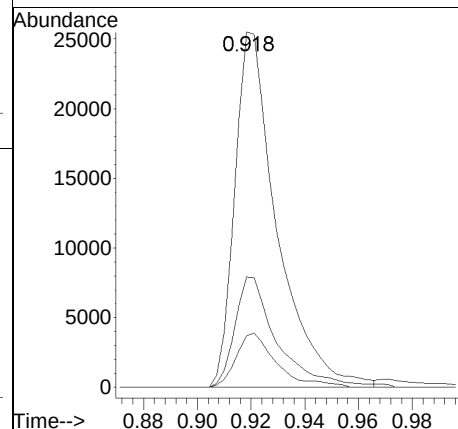
Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•

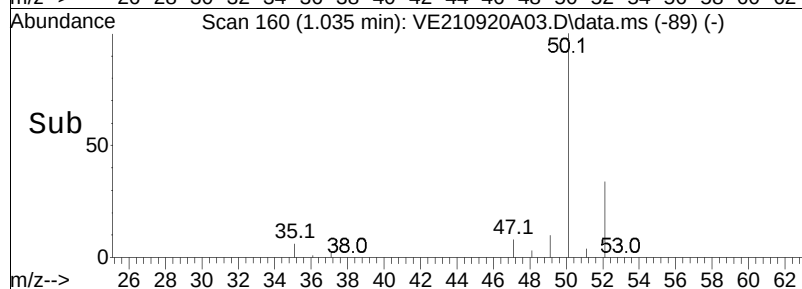
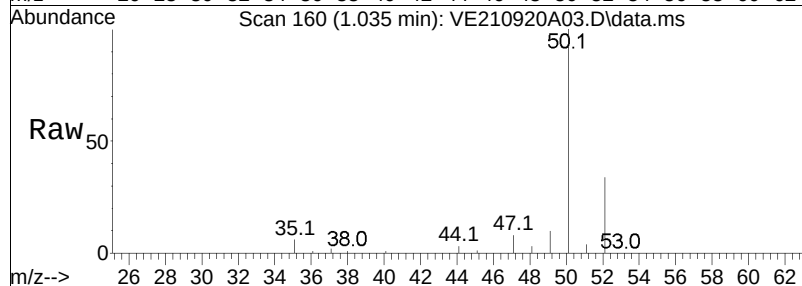
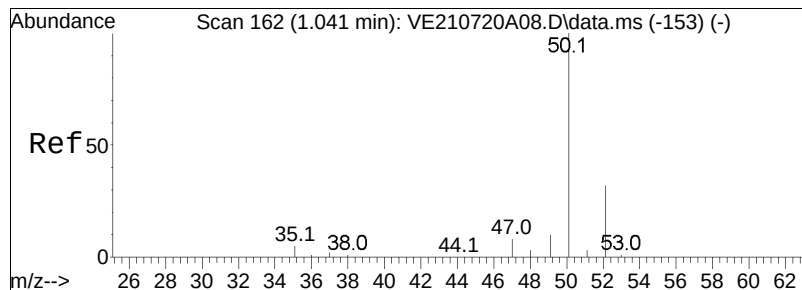




#2
 Dichlorodifluoromethane
 Concen: 6.10 ug/L
 RT: 0.918 min Scan# 118
 Delta R.T. -0.003 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

Tgt Ion:	85	Resp:	27956
Ion Ratio	Lower	Upper	
85	100		
87	31.2	21.0	43.6
50	14.7	8.9	18.5





#3

Chloromethane

Concen: 8.28 ug/L

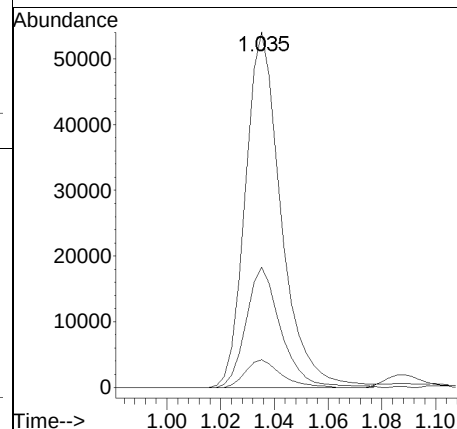
RT: 1.035 min Scan# 160

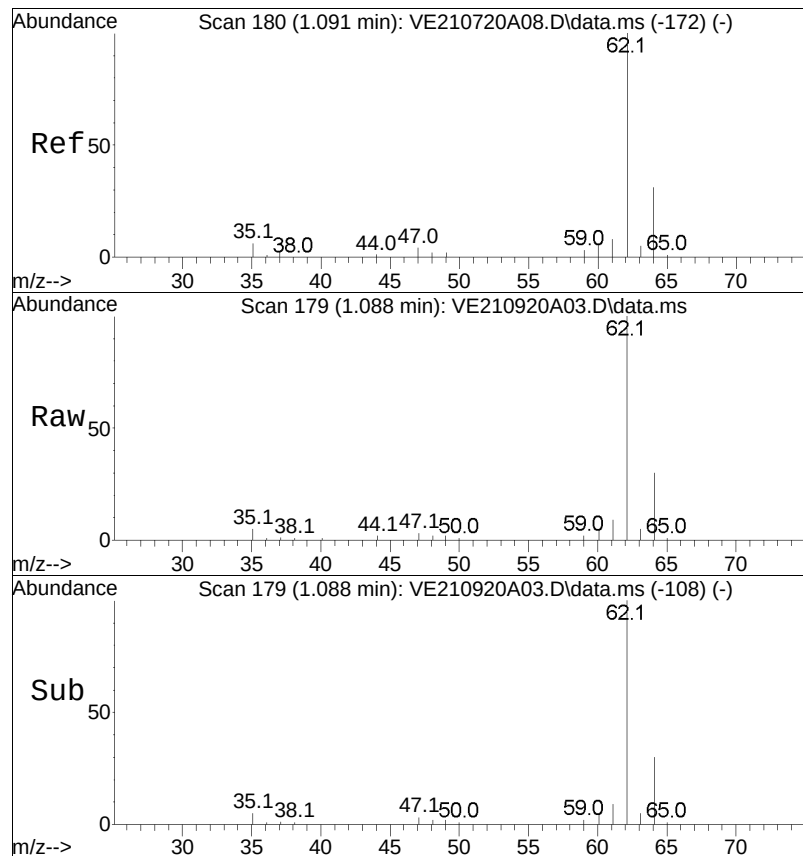
Delta R.T. -0.003 min

Lab File: VE210920A03.D

Acq: 20 Sep 2021 8:01 am

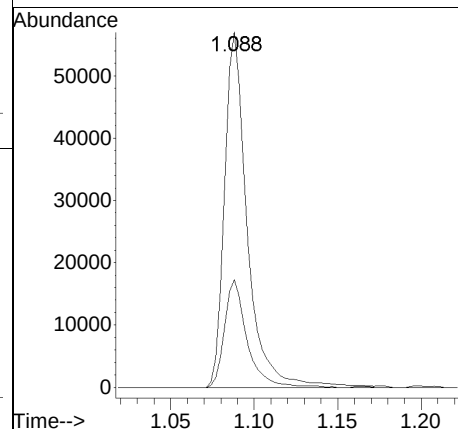
Tgt	Ion: 50	Resp:	50149
Ion	Ratio	Lower	Upper
50	100		
52	32.8	12.9	52.9
47	7.7	0.0	28.3

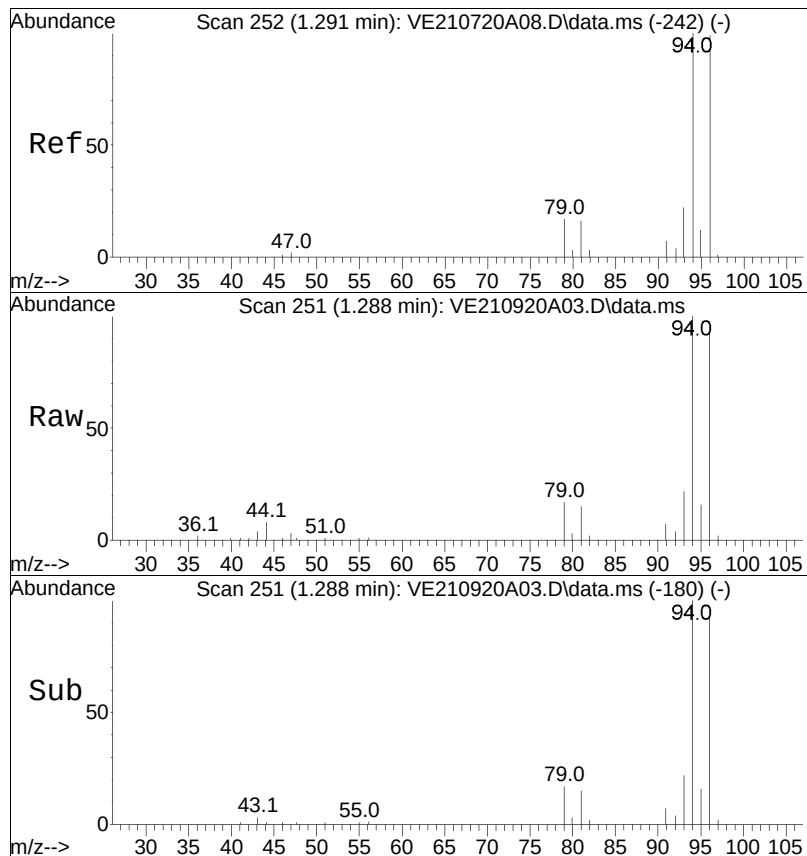




#4
 Vinyl chloride
 Concen: 9.60 ug/L
 RT: 1.088 min Scan# 179
 Delta R.T. -0.003 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

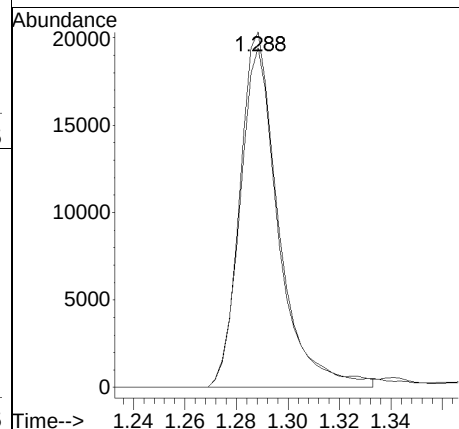
Tgt Ion	Ratio	Lower	Upper
62	100		
64	29.7	9.1	49.1

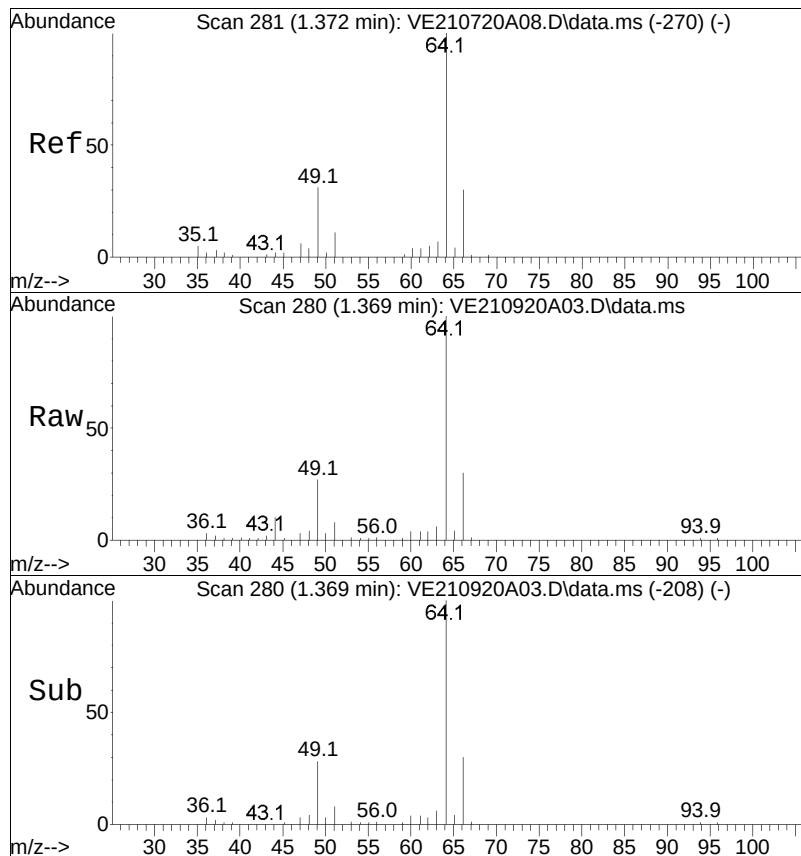




#5
 Bromomethane
 Concen: 7.27 ug/L
 RT: 1.288 min Scan# 251
 Delta R.T. -0.003 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

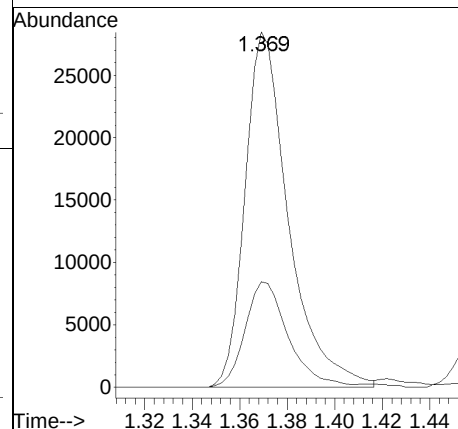
Tgt Ion	Ratio	Lower	Upper
94	100		
96	96.9	75.6	115.6

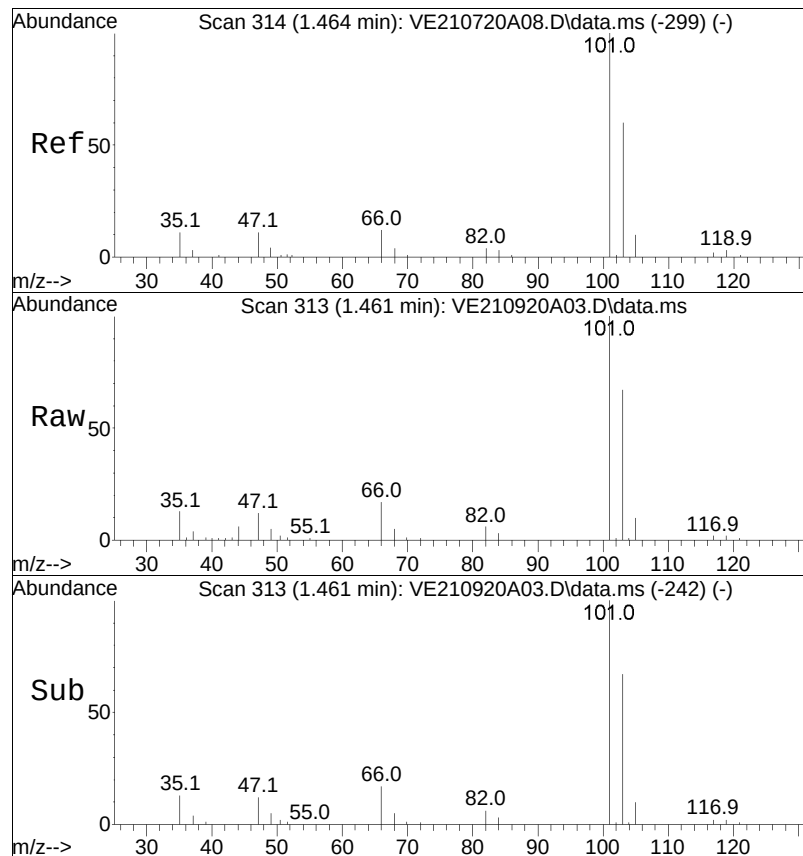




#6
 Chloroethane
 Concen: 10.07 ug/L
 RT: 1.369 min Scan# 280
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

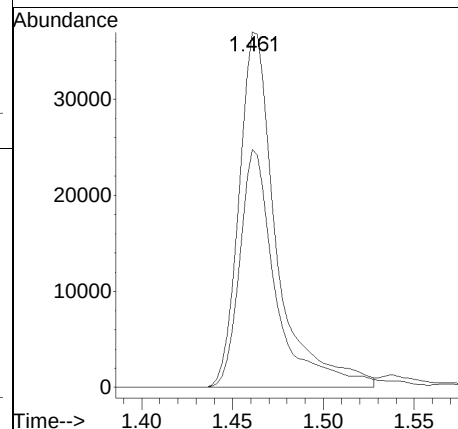
Tgt Ion	Ratio	Lower	Upper
64	100		
66	29.5	9.8	49.8

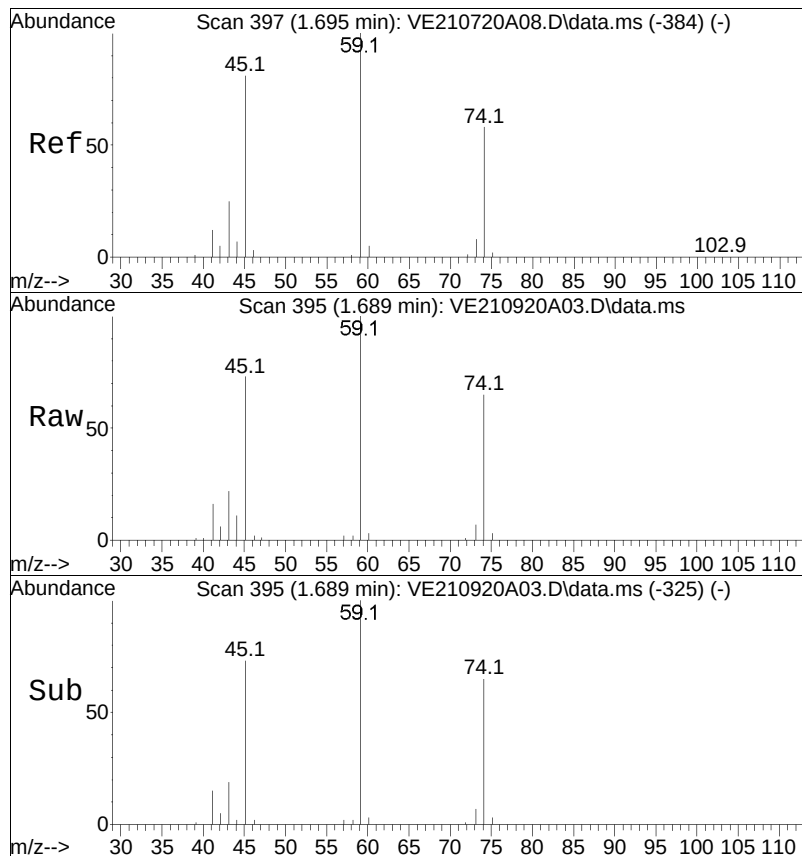




#7
 Trichlorofluoromethane
 Concen: 7.70 ug/L
 RT: 1.461 min Scan# 313
 Delta R.T. -0.003 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

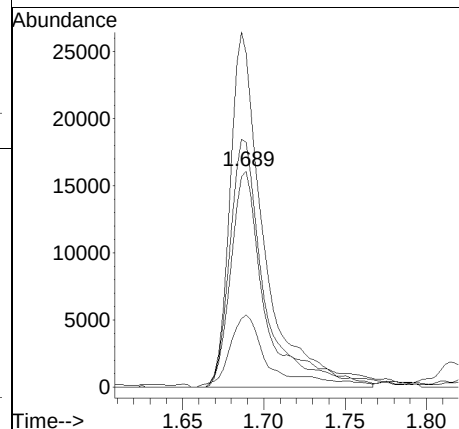
Tgt Ion	101	103	Ratio	Lower	Upper
101	100				
103	67.0		53.8		80.6

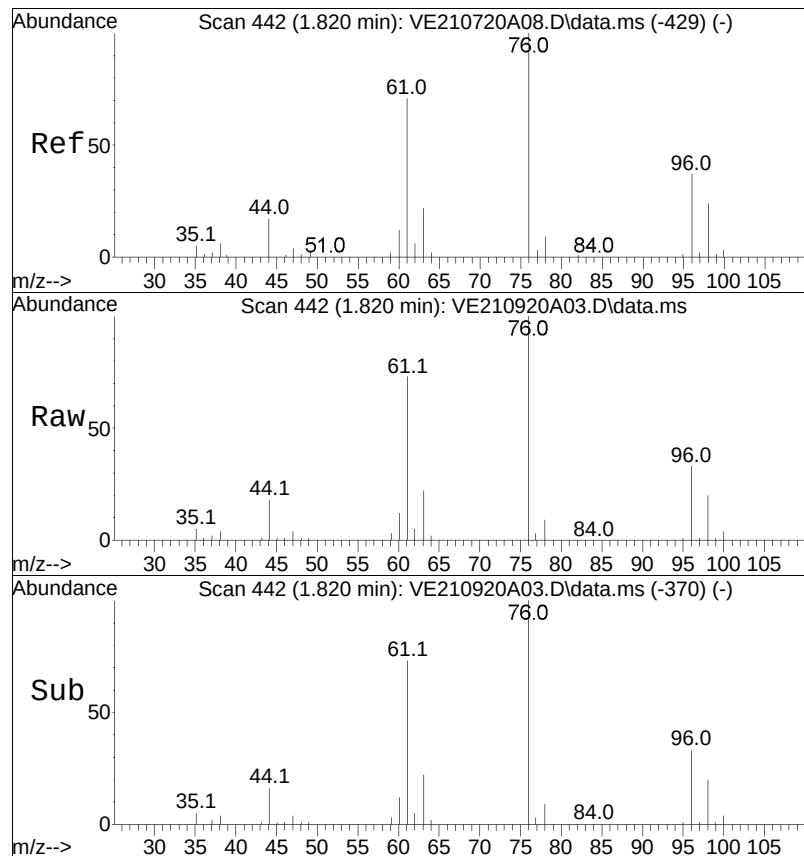




#8
 Ethyl ether
 Concen: 8.46 ug/L
 RT: 1.689 min Scan# 395
 Delta R.T. -0.006 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

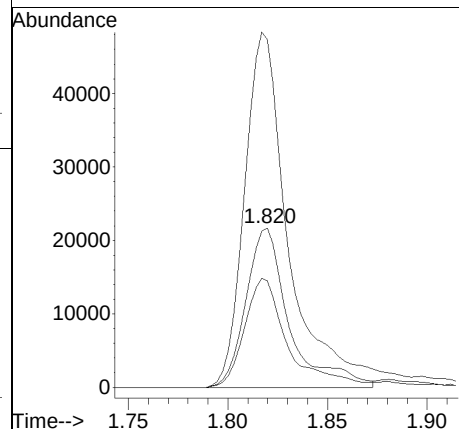
Tgt Ion:	74	Resp:	23961
Ion Ratio	Lower	Upper	
74	100		
59	164.8	122.2	253.8
45	114.4	91.9	190.9
43	37.0	25.2	52.2

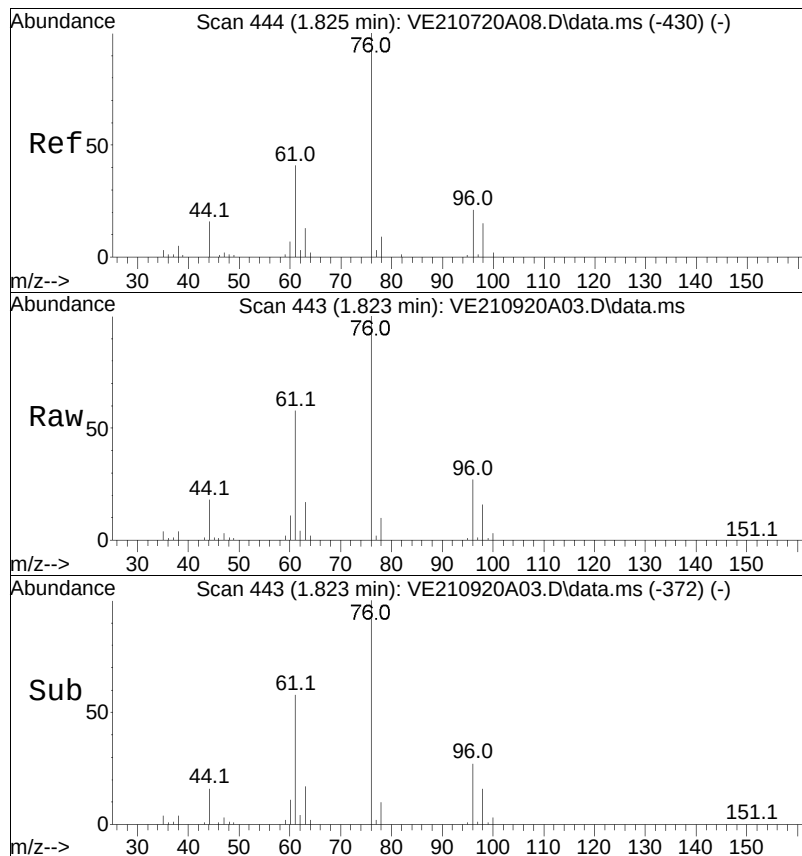




#10
 1,1-Dichloroethene
 Concen: 8.12 ug/L
 RT: 1.820 min Scan# 442
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

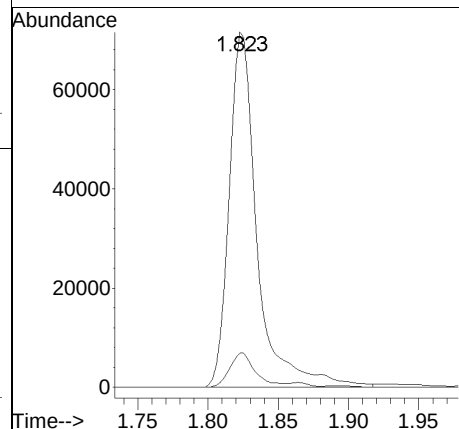
Tgt	Ion	Resp	Lower	Upper
96	100			
61	230.3	186.1	279.1	
63	68.1	57.6	86.4	

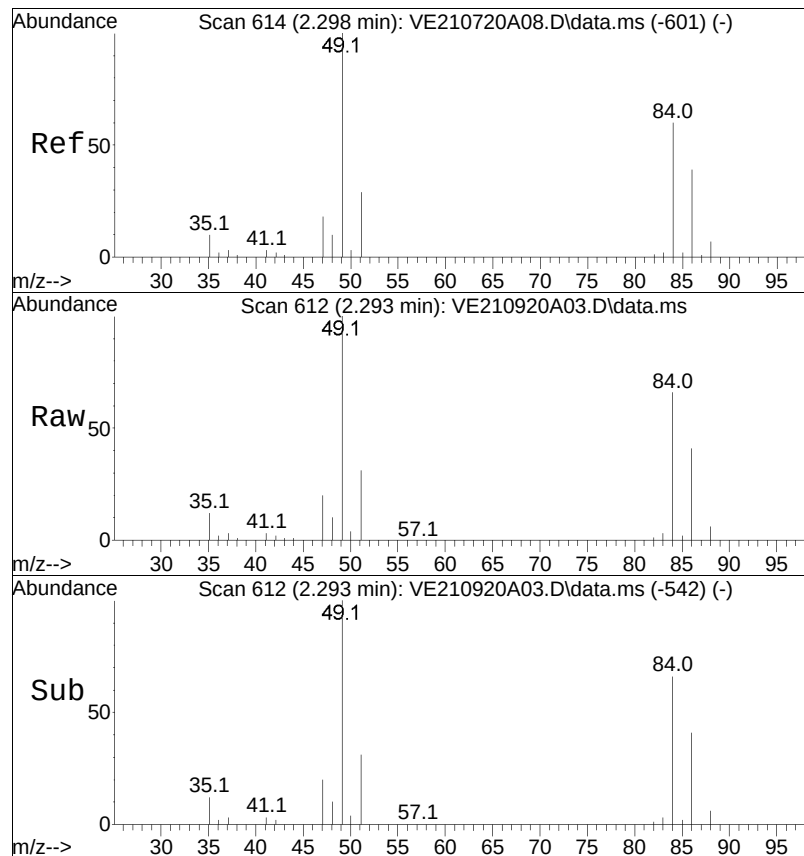




#11
Carbon disulfide
Concen: 9.02 ug/L
RT: 1.823 min Scan# 443
Delta R.T. -0.002 min
Lab File: VE210920A03.D
Acq: 20 Sep 2021 8:01 am

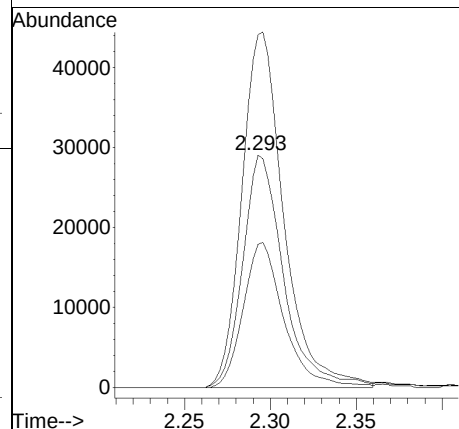
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.1	5.7	11.7

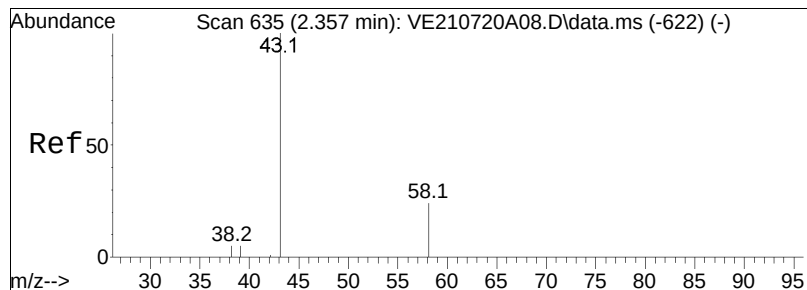




#15
Methylene chloride
Concen: 9.08 ug/L
RT: 2.293 min Scan# 612
Delta R.T. -0.005 min
Lab File: VE210920A03.D
Acq: 20 Sep 2021 8:01 am

Tgt	Ion:	84	Resp:	48175
Ion	Ratio	Lower	Upper	
84	100			
86	61.9	40.4	83.8	
49	158.3	120.0	249.2	





#17

Acetone

Concen: 9.38 ug/L

RT: 2.348 min Scan# 632

Delta R.T. -0.012 min

Lab File: VE210920A03.D

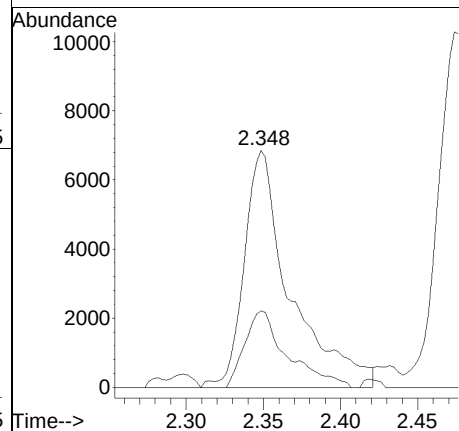
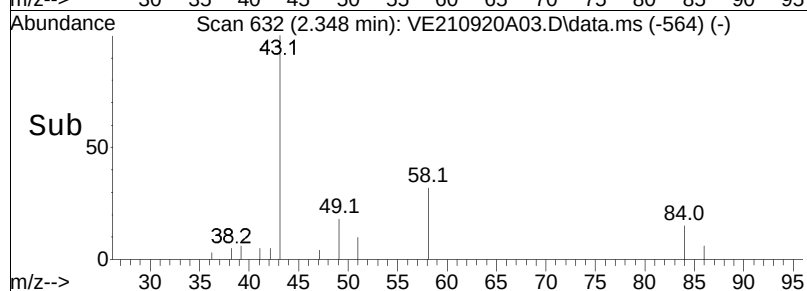
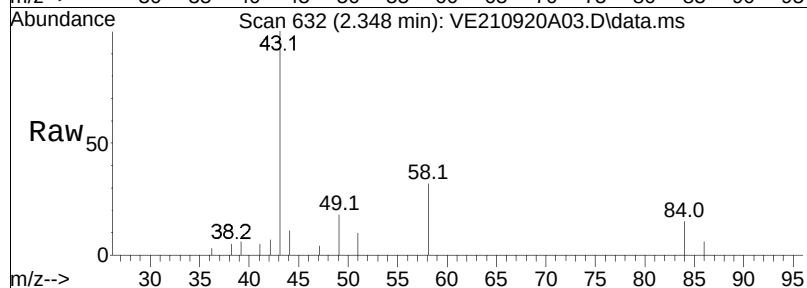
Acq: 20 Sep 2021 8:01 am

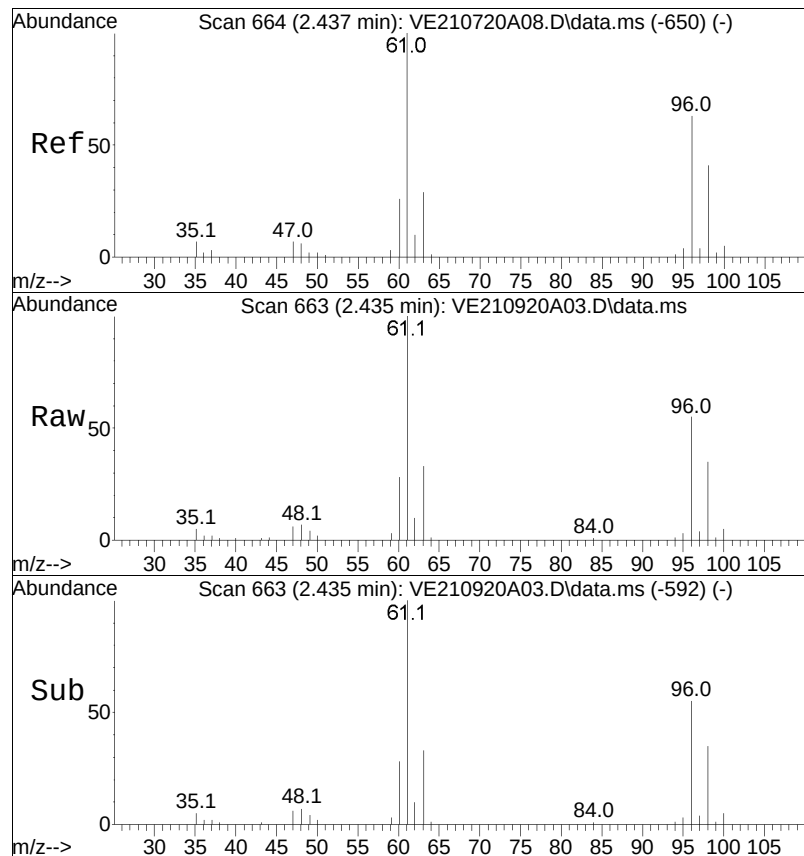
Tgt Ion: 43 Resp: 14222

Ion Ratio Lower Upper

43 100

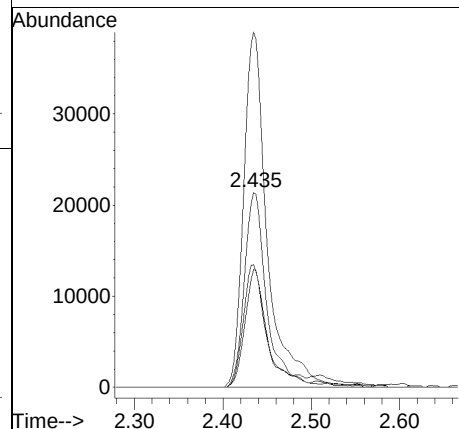
58 29.8 24.2 36.4

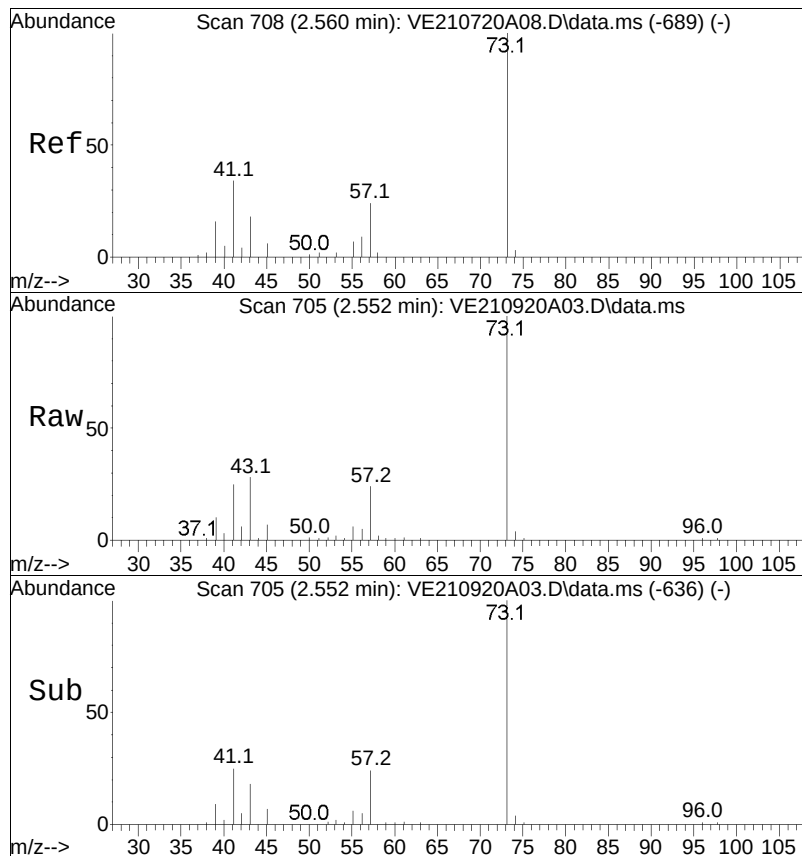




#18
 trans-1,2-Dichloroethene
 Concen: 8.94 ug/L M1
 RT: 2.435 min Scan# 663
 Delta R.T. -0.002 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

Tgt Ion: 96	Resp: 39752
Ion Ratio	Lower Upper
96 100	
61 180.2	124.0 257.6
98 63.1	41.2 85.6
63 58.0	38.4 79.7





#20

Methyl tert-butyl ether

Concen: 7.05 ug/L

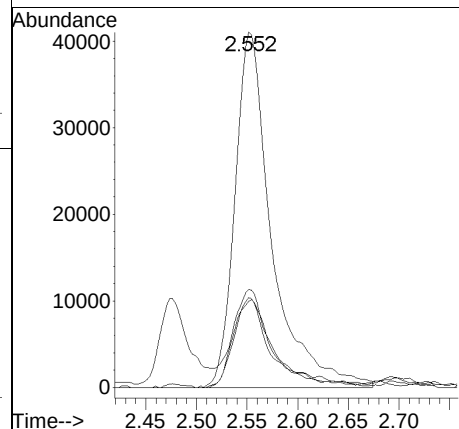
RT: 2.552 min Scan# 705

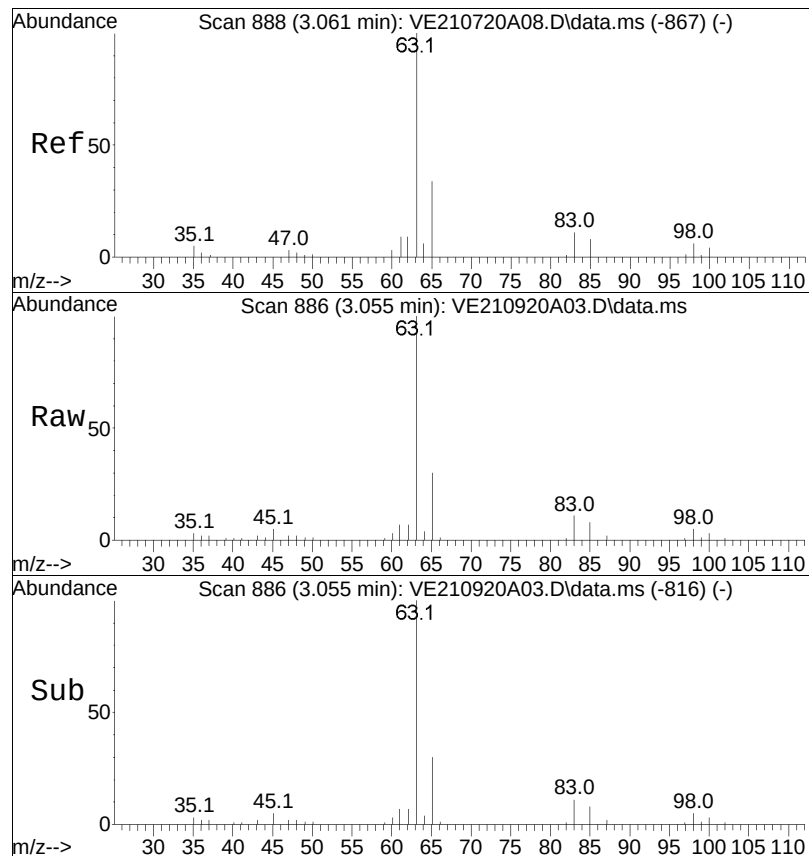
Delta R.T. -0.008 min

Lab File: VE210920A03.D

Acq: 20 Sep 2021 8:01 am

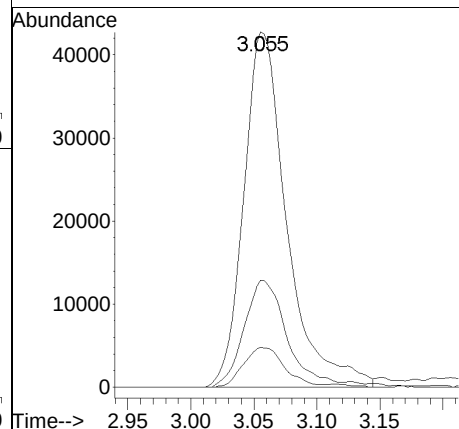
Tgt	Ion: 73	Resp:	103921
Ion	Ratio	Lower	Upper
73	100		
57	26.3	17.5	36.3
43	23.5	15.3	31.9
41	24.6	15.3	31.7

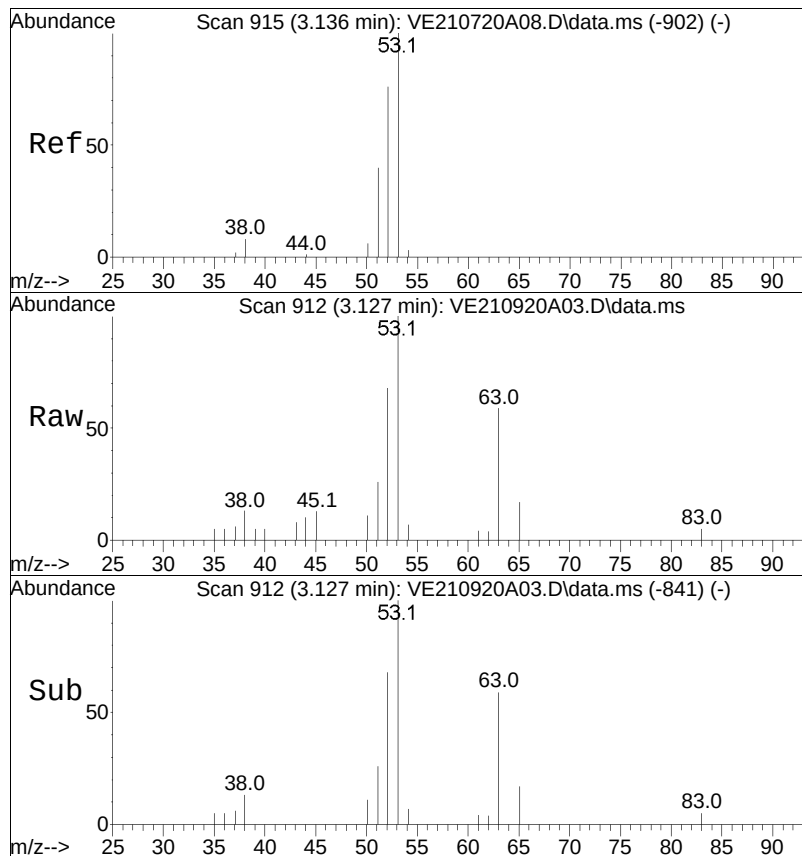




#23
 1,1-Dichloroethane
 Concen: 9.67 ug/L
 RT: 3.055 min Scan# 886
 Delta R.T. -0.006 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

Tgt Ion	Ratio	Lower	Upper
63	100		
65	30.0	11.0	51.0
83	10.8	0.0	31.8





#25

Acrylonitrile

Concen: 6.48 ug/L M1

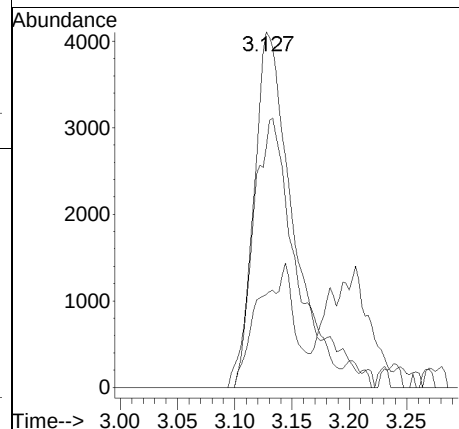
RT: 3.127 min Scan# 912

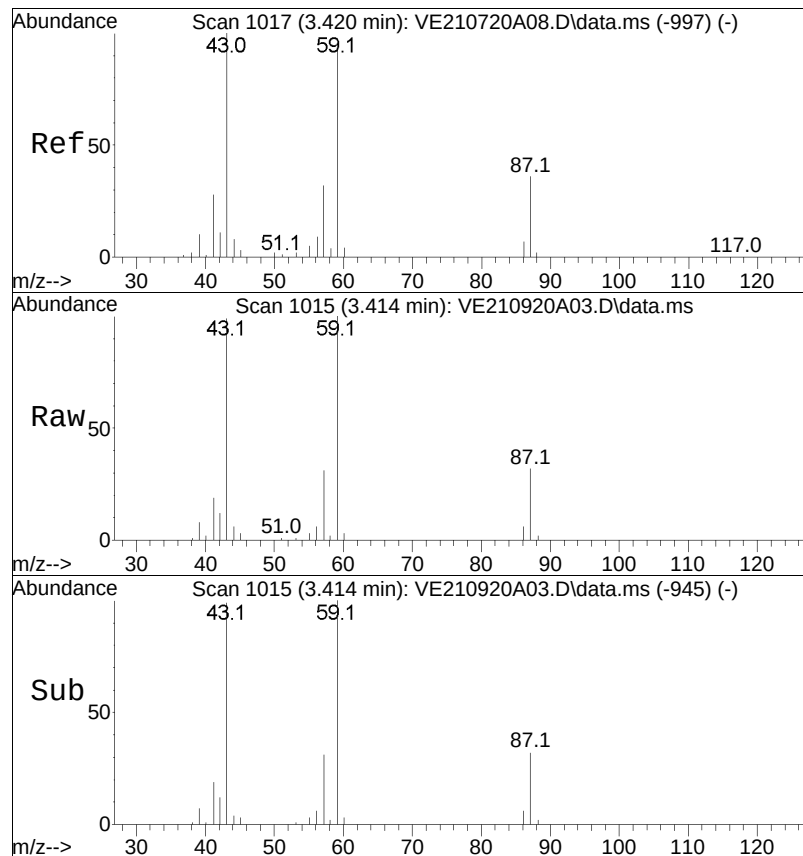
Delta R.T. -0.003 min

Lab File: VE210920A03.D

Acq: 20 Sep 2021 8:01 am

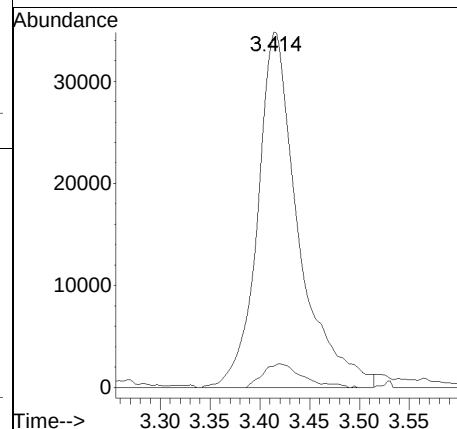
Tgt	Ion: 53	Resp:	10097
Ion	Ratio	Lower	Upper
53	100		
52	77.3	66.7	100.1
51	31.0	30.6	46.0

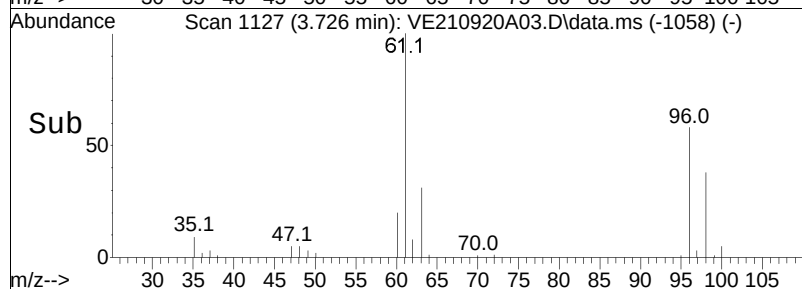
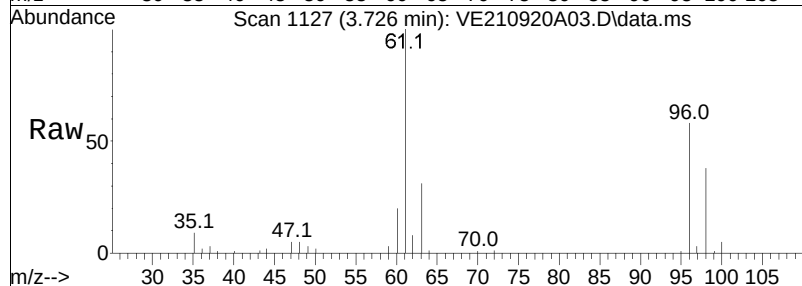
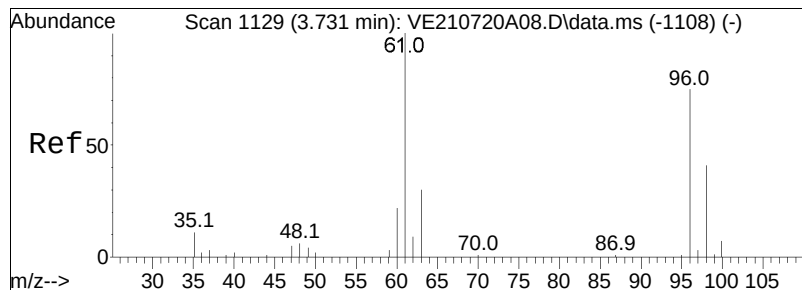




#27
 Vinyl acetate
 Concen: 9.19 ug/L
 RT: 3.414 min Scan# 1015
 Delta R.T. -0.006 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

Tgt Ion:	43	86	Ratio	100	6.2	Resp:	99343	Lower	5.2	Upper	7.8





#28

cis-1,2-Dichloroethene

Concen: 9.13 ug/L M1

RT: 3.726 min Scan# 1127

Delta R.T. -0.008 min

Lab File: VE210920A03.D

Acq: 20 Sep 2021 8:01 am

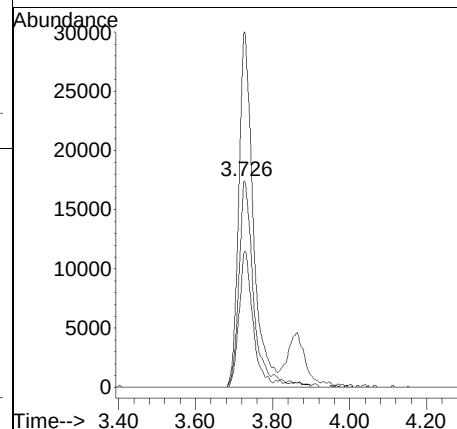
Tgt Ion: 96 Resp: 47649

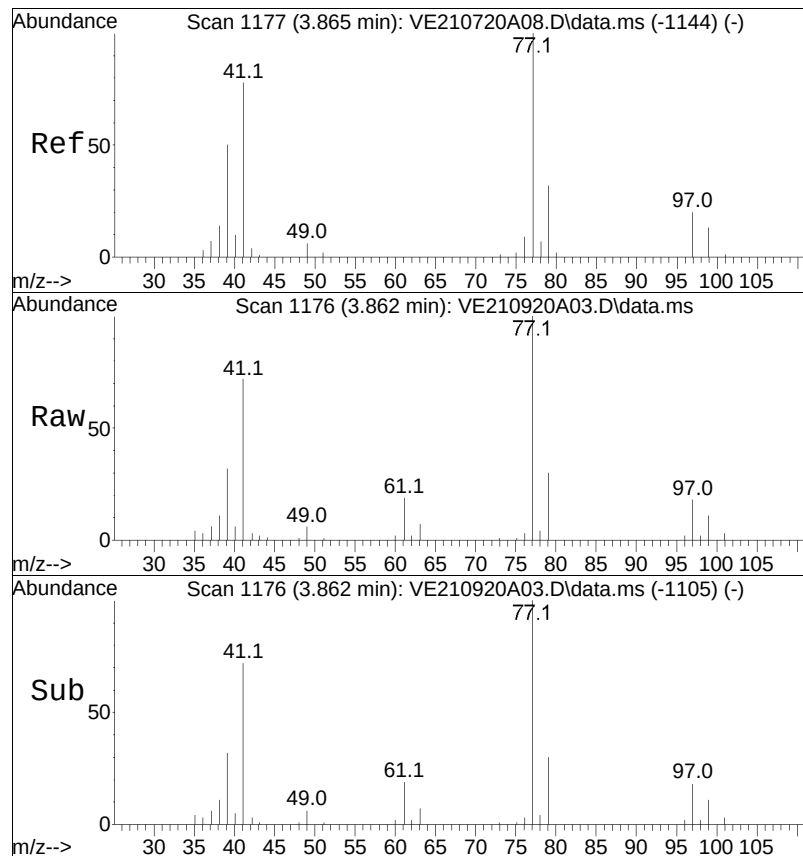
Ion Ratio Lower Upper

96 100

61 164.0 149.4 224.2

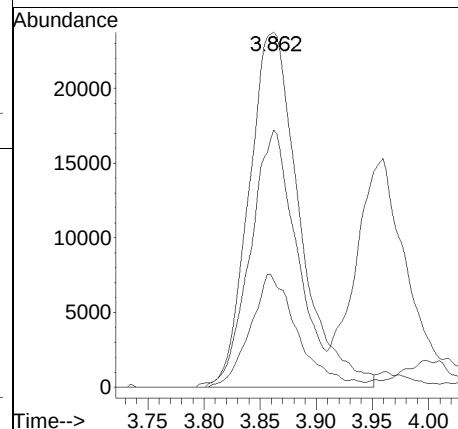
98 58.5 53.4 80.2

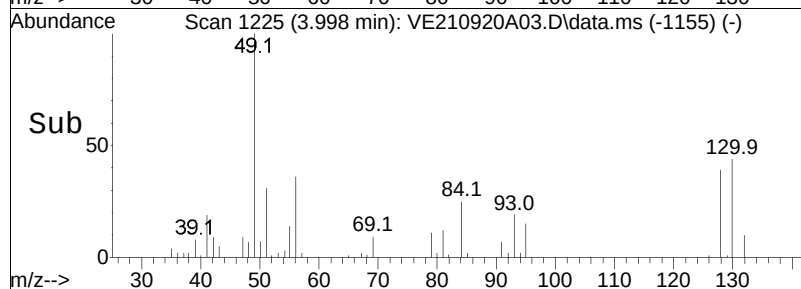
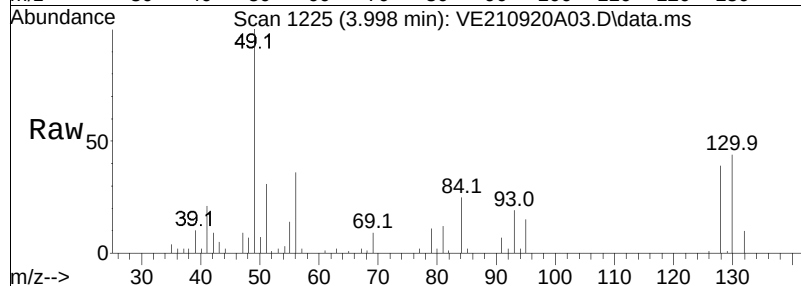
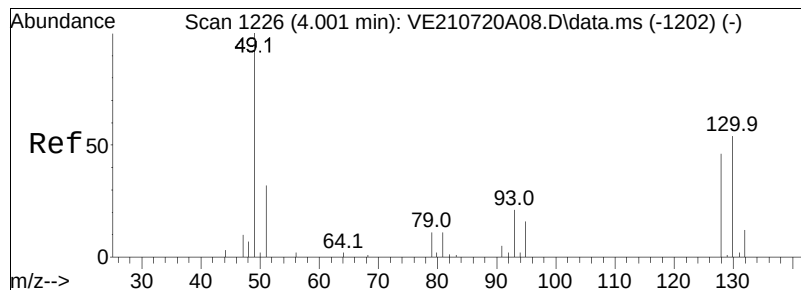




#29
 2,2-Dichloropropane
 Concen: 9.38 ug/L
 RT: 3.862 min Scan# 1176
 Delta R.T. -0.003 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

Tgt Ion	Ratio	Lower	Upper
77	100		
41	66.4	38.0	78.8
79	29.5	20.5	42.5





#30

Bromochloromethane

Concen: 8.13 ug/L

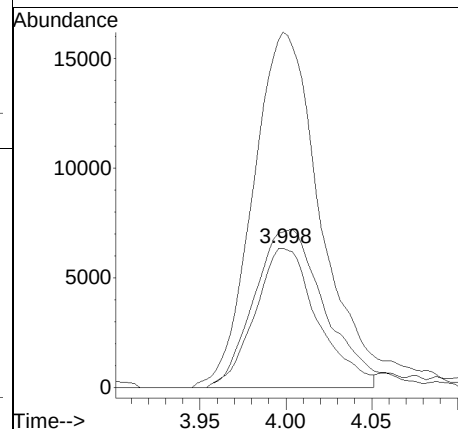
RT: 3.998 min Scan# 1225

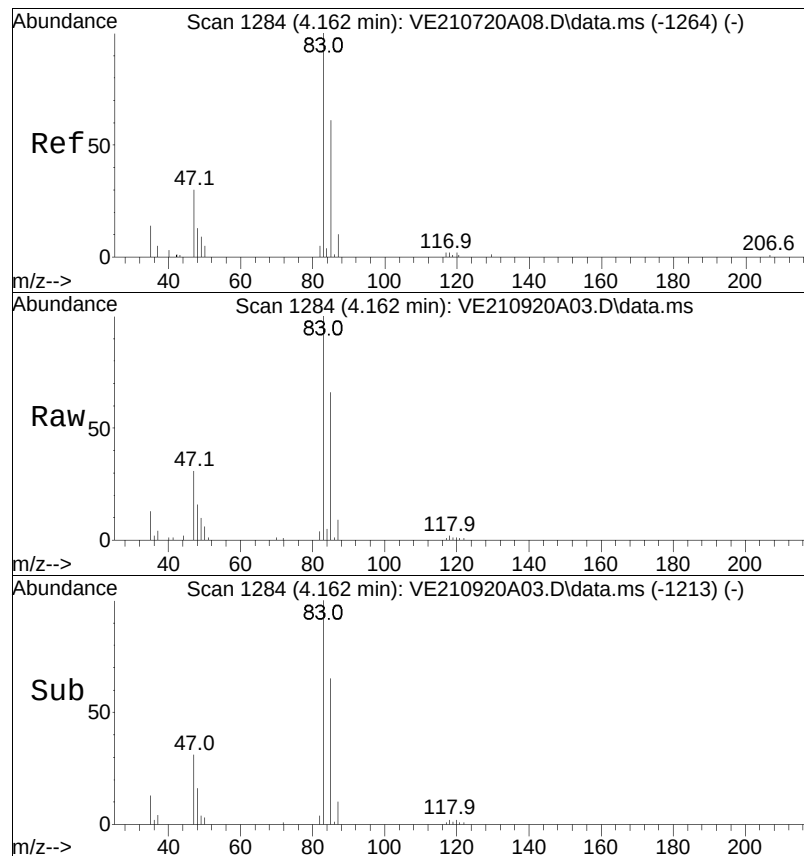
Delta R.T. -0.006 min

Lab File: VE210920A03.D

Acq: 20 Sep 2021 8:01 am

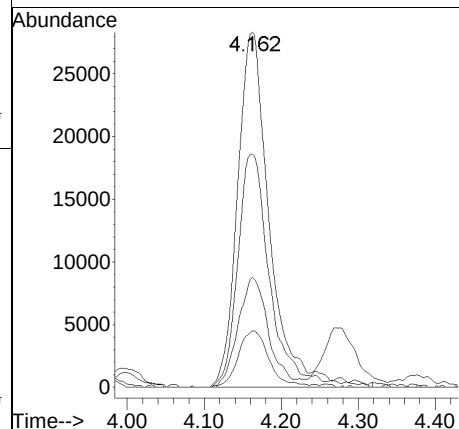
Tgt	Ion:128	Resp:	16191
Ion	Ratio	Lower	Upper
128	100		
49	284.4	223.0	334.4
130	130.4	111.4	167.0

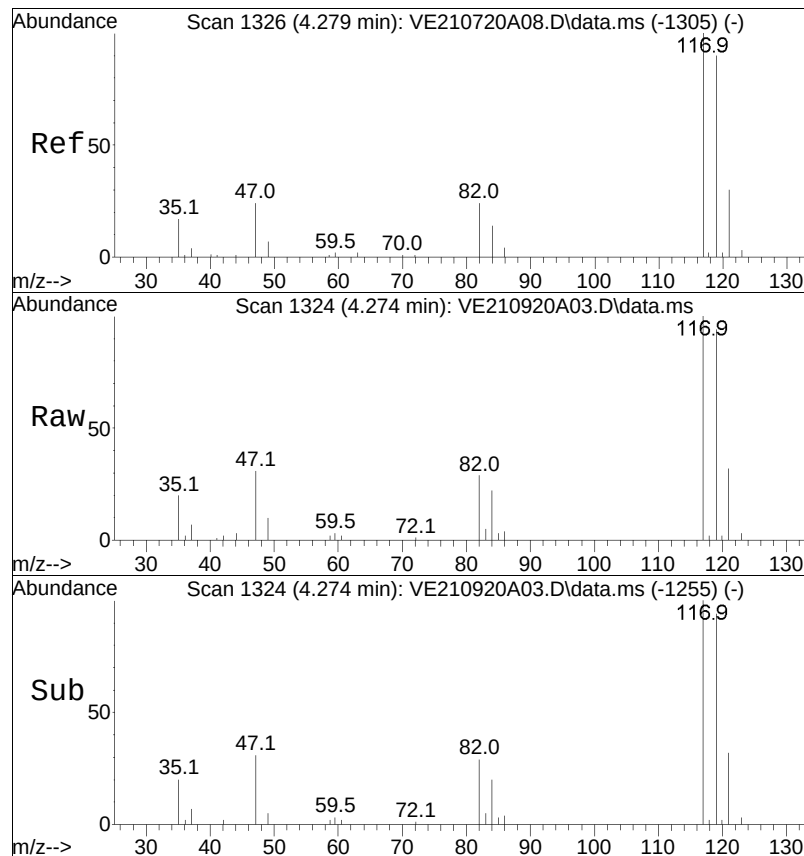




#32
 Chloroform
 Concen: 8.91 ug/L M1
 RT: 4.162 min Scan# 1284
 Delta R.T. -0.003 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

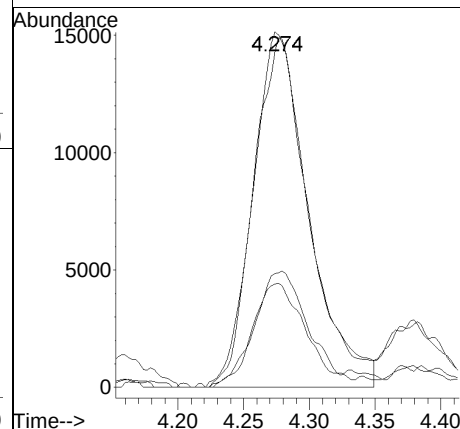
Tgt	Ion: 83	Resp:	82505
Ion	Ratio	Lower	Upper
83	100		
85	63.9	41.5	86.1
47	29.2	19.0	39.4
48	15.4	9.9	20.5

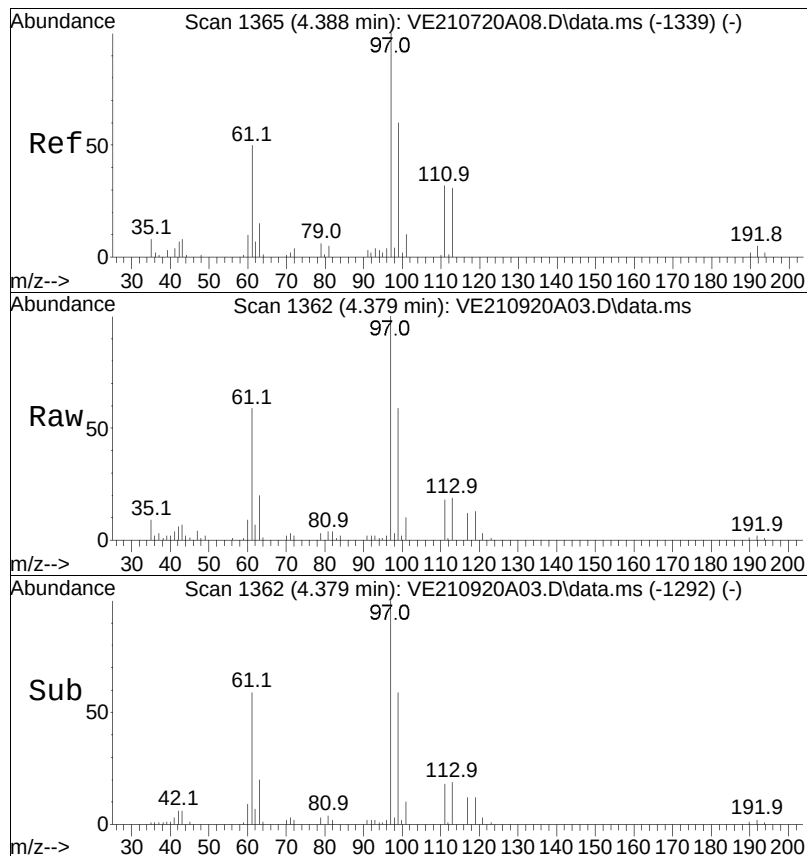




#34
 Carbon tetrachloride
 Concen: 7.17 ug/L
 RT: 4.274 min Scan# 1324
 Delta R.T. -0.008 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

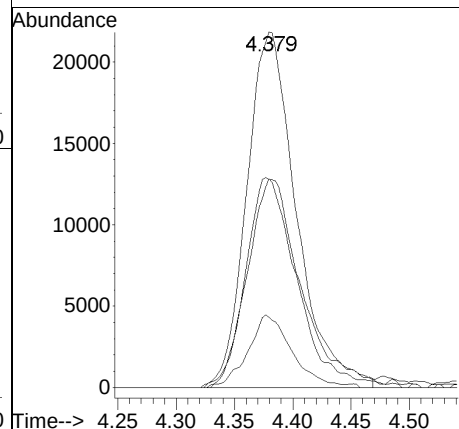
Tgt Ion:	117	Resp:	44773
Ion Ratio	Lower	Upper	
117	100		
119	97.8	62.4	129.6
121	31.0	19.5	40.5
82	28.5	17.0	35.4

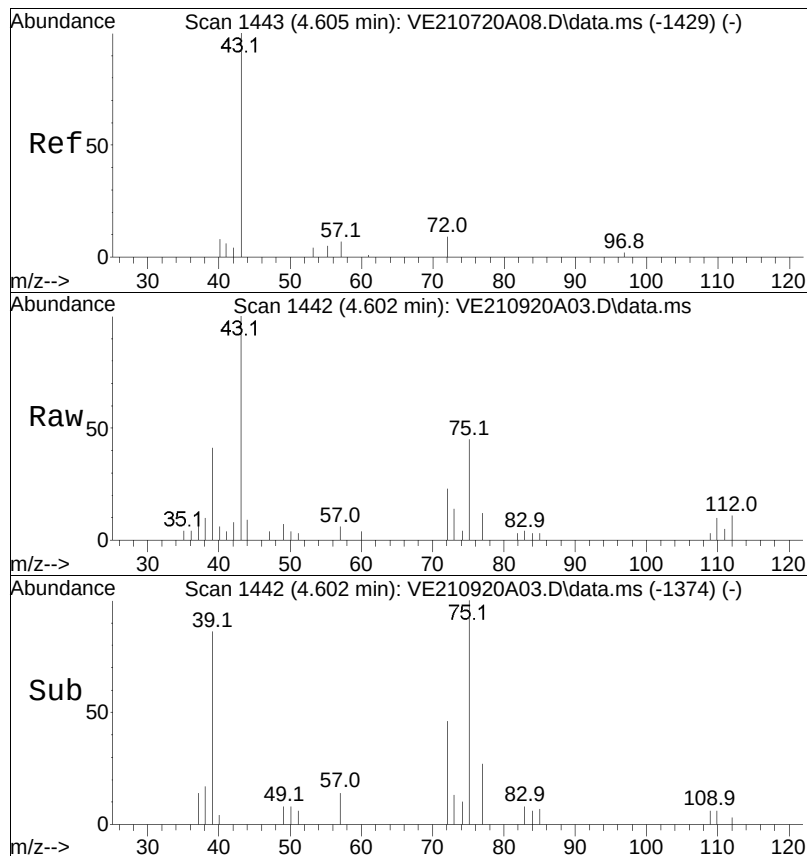




#37
 1,1,1-Trichloroethane
 Concen: 8.02 ug/L
 RT: 4.379 min Scan# 1362
 Delta R.T. -0.006 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

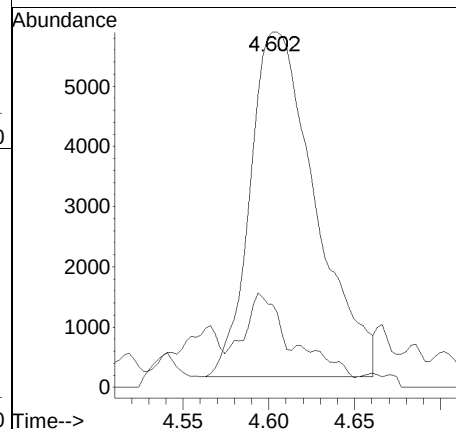
Tgt Ion:	97	Resp:	64716
Ion Ratio	Lower	Upper	
97	100		
99	62.0	40.7	84.5
61	62.4	35.4	73.4
63	18.0	5.0	10.4#

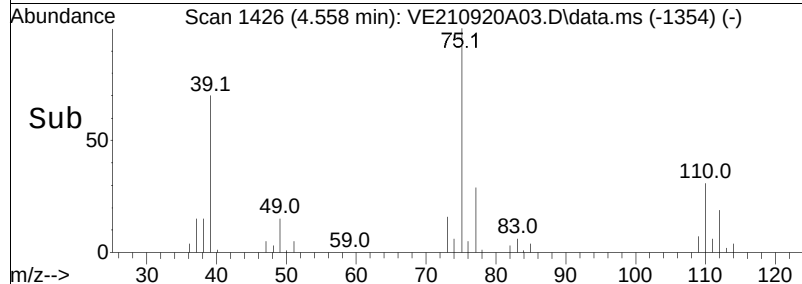
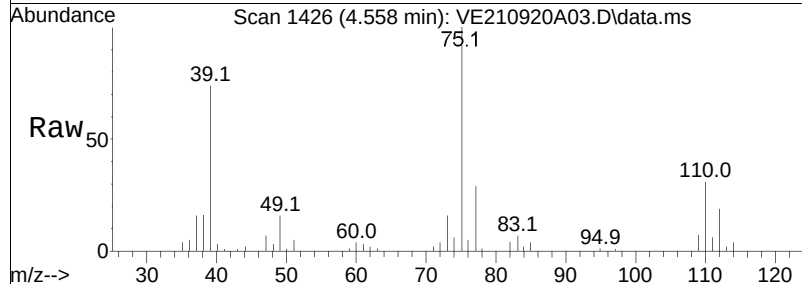
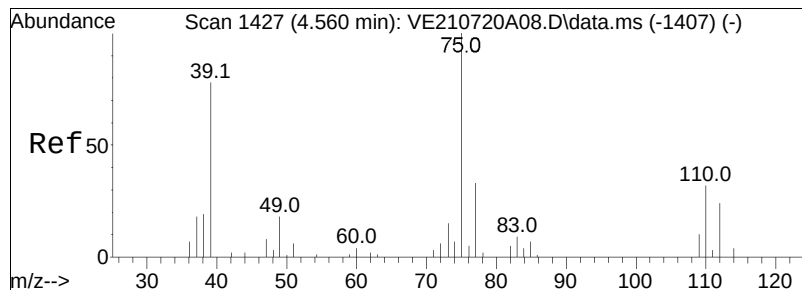




#39
 2-Butanone
 Concen: 7.23 ug/L
 RT: 4.602 min Scan# 1442
 Delta R.T. -0.011 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

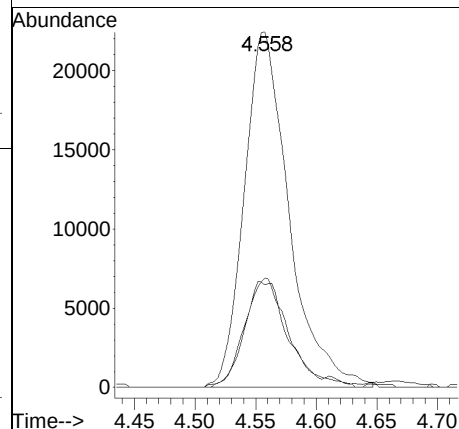
Tgt Ion	Ratio	Lower	Upper
43	100		
72	9.0	10.9	16.3#

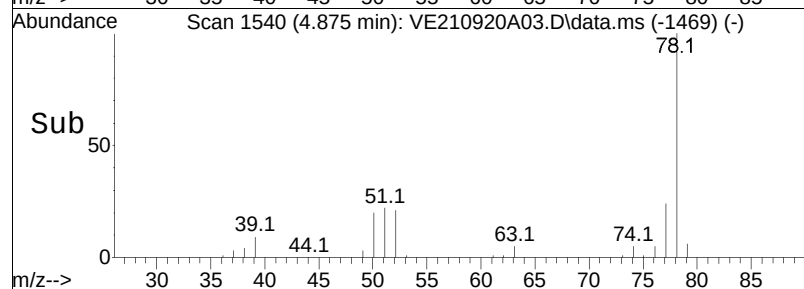
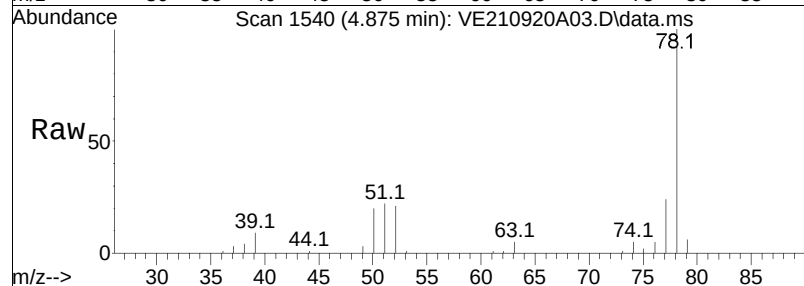
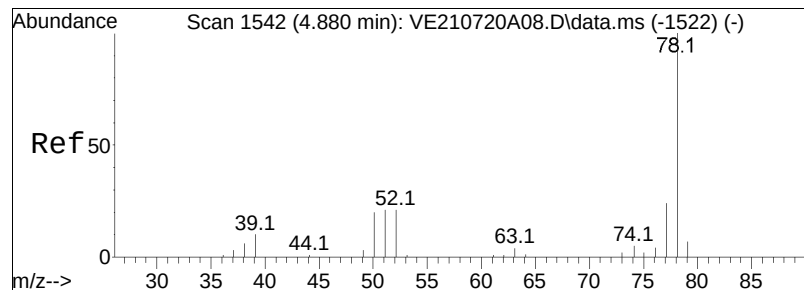




#40
 1,1-Dichloropropene
 Concen: 8.80 ug/L
 RT: 4.558 min Scan# 1426
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

Tgt Ion:	75	Resp:	57791
Ion Ratio	Lower	Upper	
75	100		
110	29.3	20.2	41.9
77	29.7	20.1	41.7





#41

Benzene

Concen: 9.16 ug/L

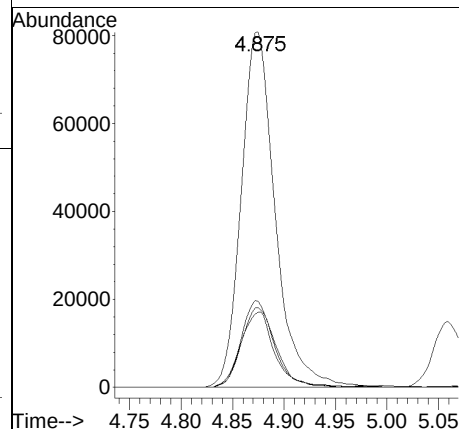
RT: 4.875 min Scan# 1540

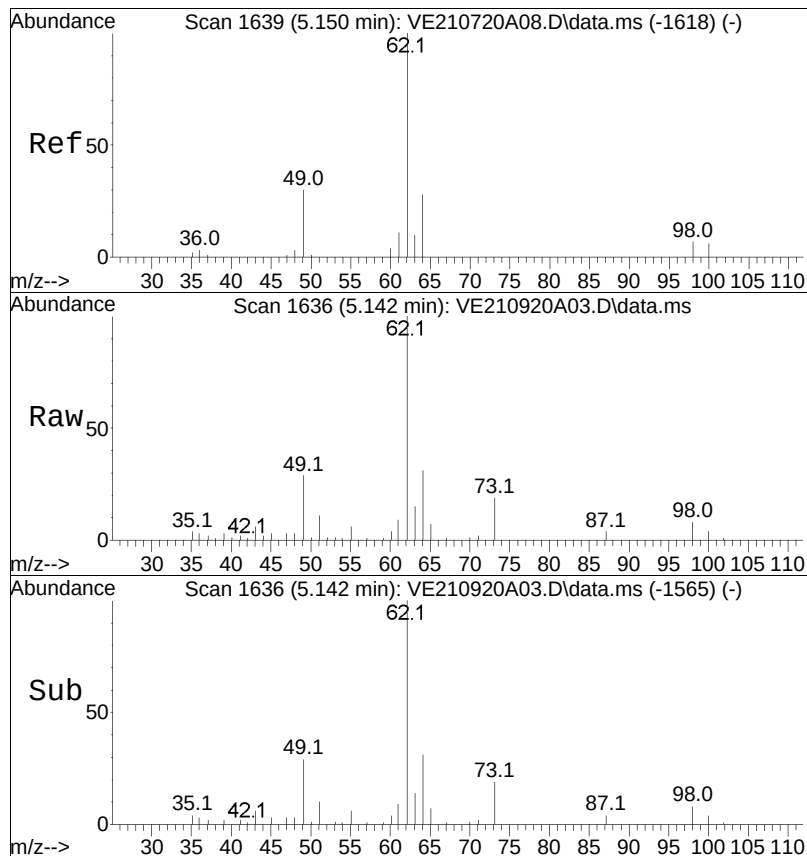
Delta R.T. -0.002 min

Lab File: VE210920A03.D

Acq: 20 Sep 2021 8:01 am

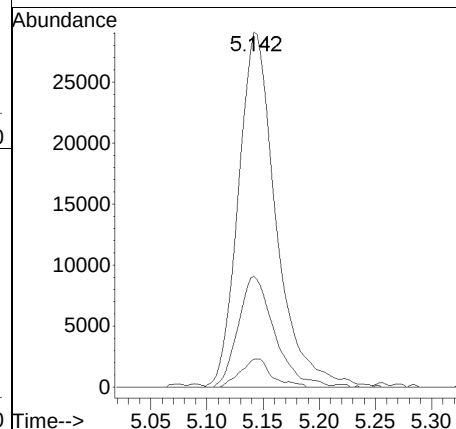
Tgt	Ion: 78	Resp:	186137
Ion	Ratio	Lower	Upper
78	100		
77	24.3	15.7	32.7
51	22.5	16.0	33.2
52	20.9	15.3	31.9

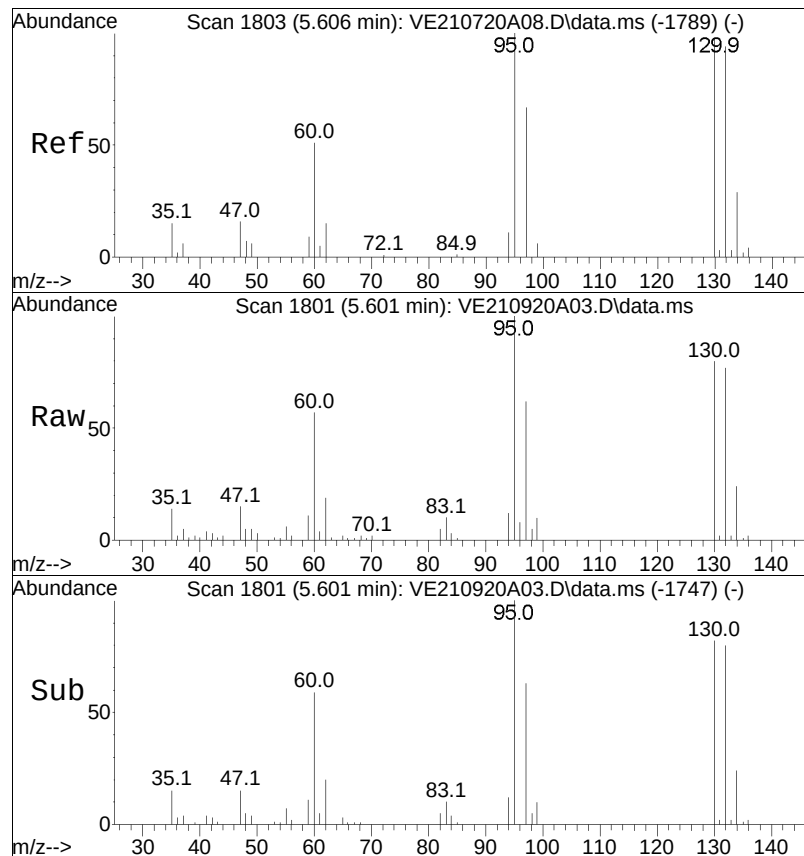




#44
 1,2-Dichloroethane
 Concen: 8.18 ug/L
 RT: 5.142 min Scan# 1636
 Delta R.T. -0.003 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

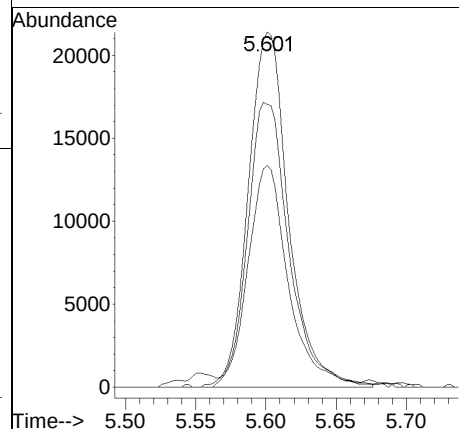
Tgt	Ion: 62	Resp:	68000
Ion	Ratio	Lower	Upper
62	100		
64	30.3	11.2	51.2
98	6.7	0.0	26.1

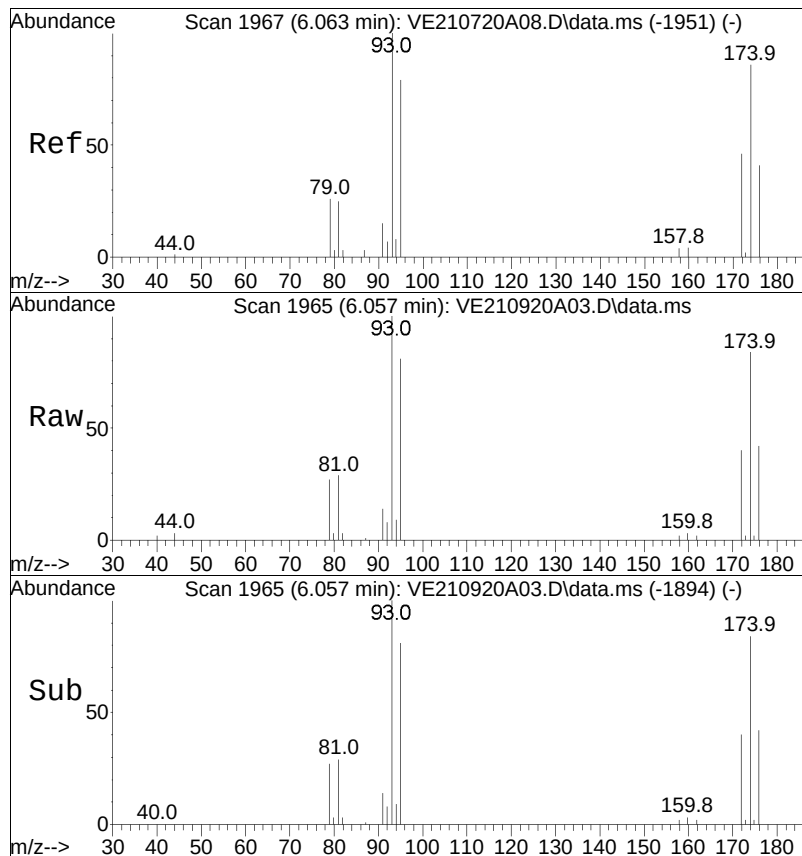




#48
 Trichloroethene
 Concen: 8.66 ug/L
 RT: 5.601 min Scan# 1801
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

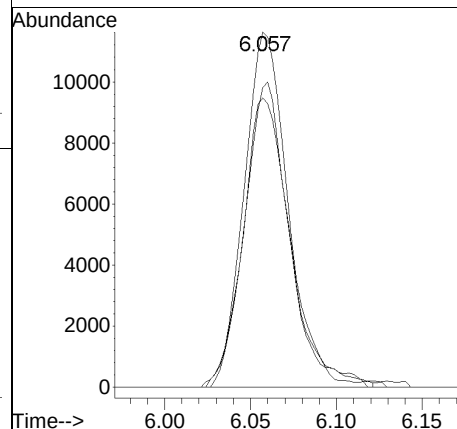
Tgt Ion	Ratio	Resp	Lower	Upper
95	100	42995		
97	61.1		55.5	83.3
130	81.8		76.6	115.0

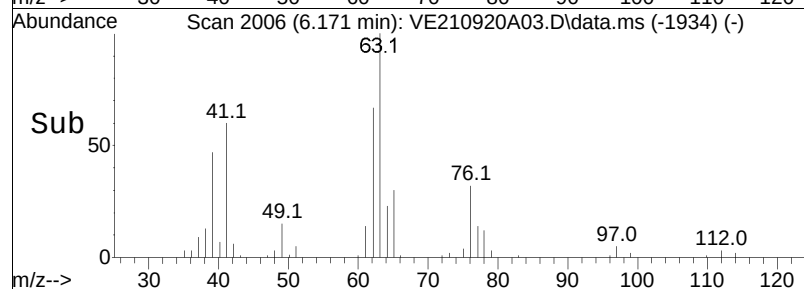
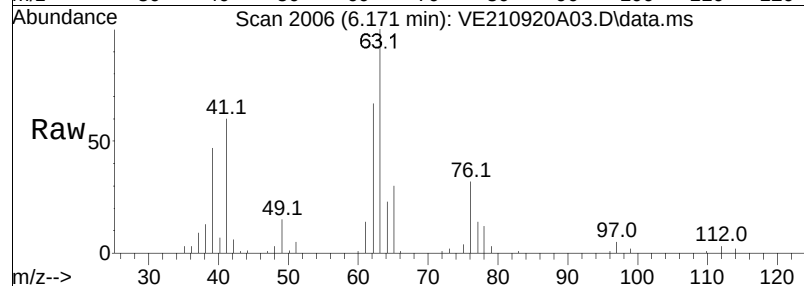
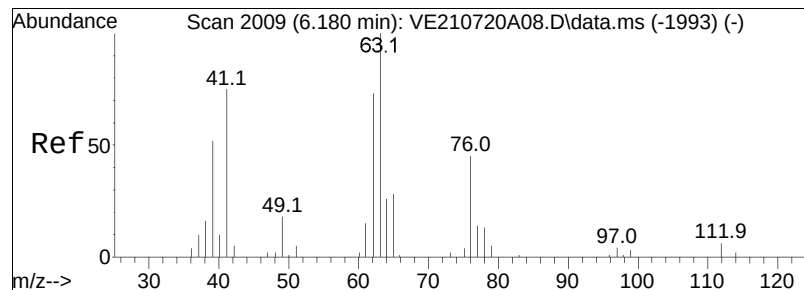




#50
 Dibromomethane
 Concen: 7.46 ug/L
 RT: 6.057 min Scan# 1965
 Delta R.T. -0.003 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

Tgt Ion:	93	Resp:	21298
Ion Ratio	Lower	Upper	
93	100		
95	84.8	67.0	100.4
174	84.2	75.0	112.4





#51

1,2-Dichloropropane

Concen: 9.40 ug/L

RT: 6.171 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VE210920A03.D

Acq: 20 Sep 2021 8:01 am

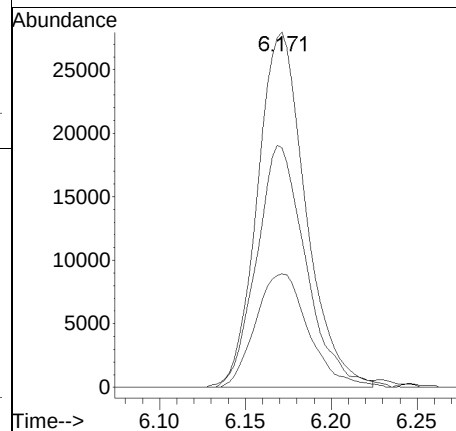
Tgt Ion: 63 Resp: 54759

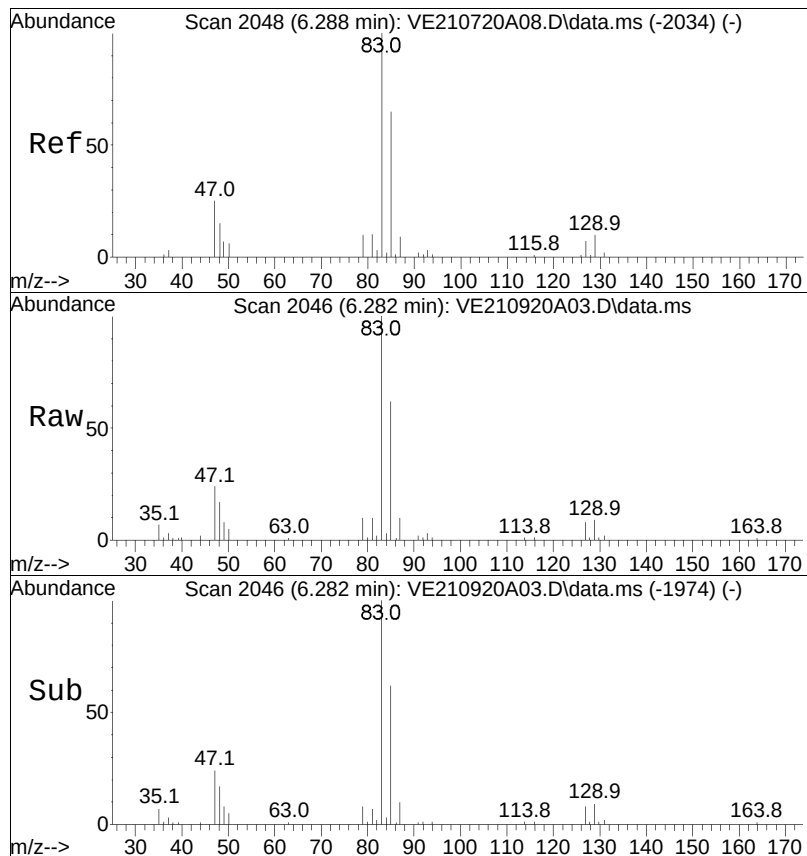
Ion Ratio Lower Upper

63 100

62 69.6 58.6 87.8

76 35.2 38.0 57.0#





#54

Bromodichloromethane

Concen: 7.44 ug/L

RT: 6.282 min Scan# 2046

Delta R.T. 0.000 min

Lab File: VE210920A03.D

Acq: 20 Sep 2021 8:01 am

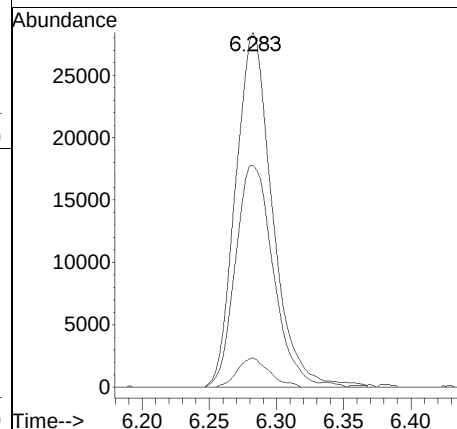
Tgt Ion: 83 Resp: 54338

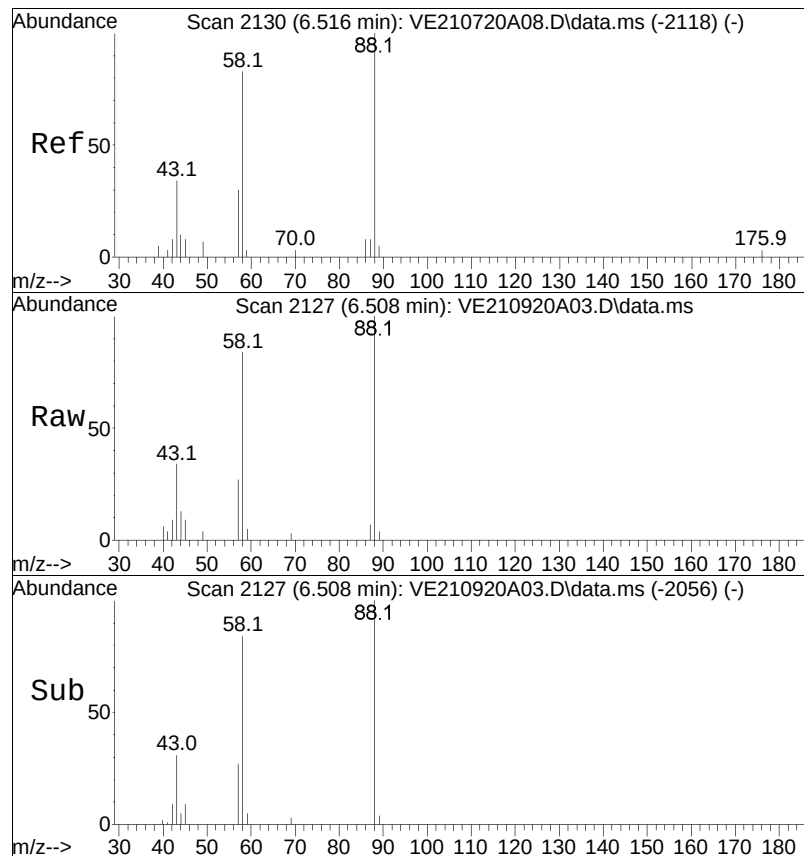
Ion Ratio Lower Upper

83 100

85 64.3 52.3 78.5

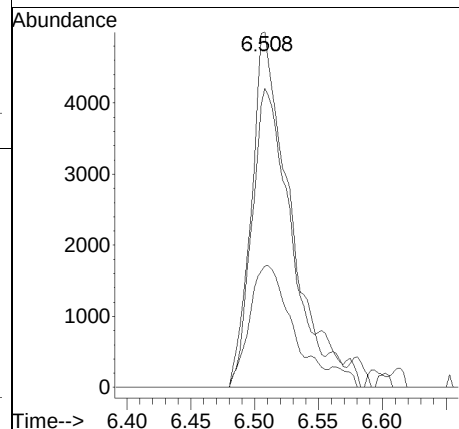
127 7.3 6.2 9.4

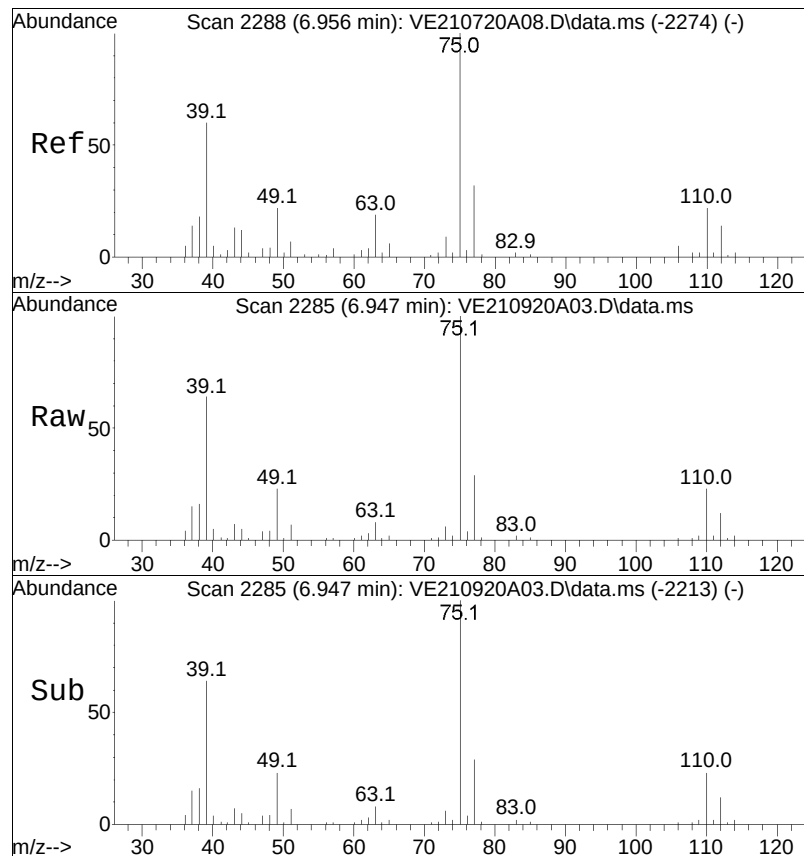




#57
 1,4-Dioxane
 Concen: 301.90 ug/L M1
 RT: 6.508 min Scan# 2127
 Delta R.T. -0.003 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

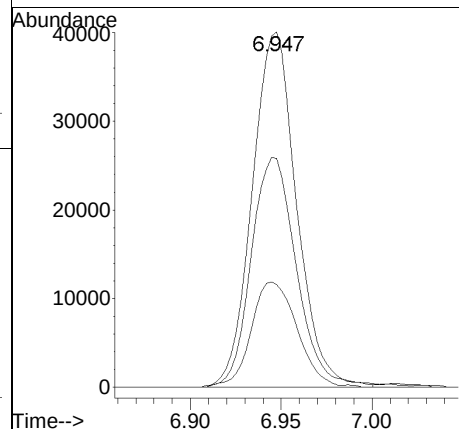
Tgt Ion	Ratio	Lower	Upper
88	100		
58	79.3	76.7	115.1
43	37.1	36.2	54.2

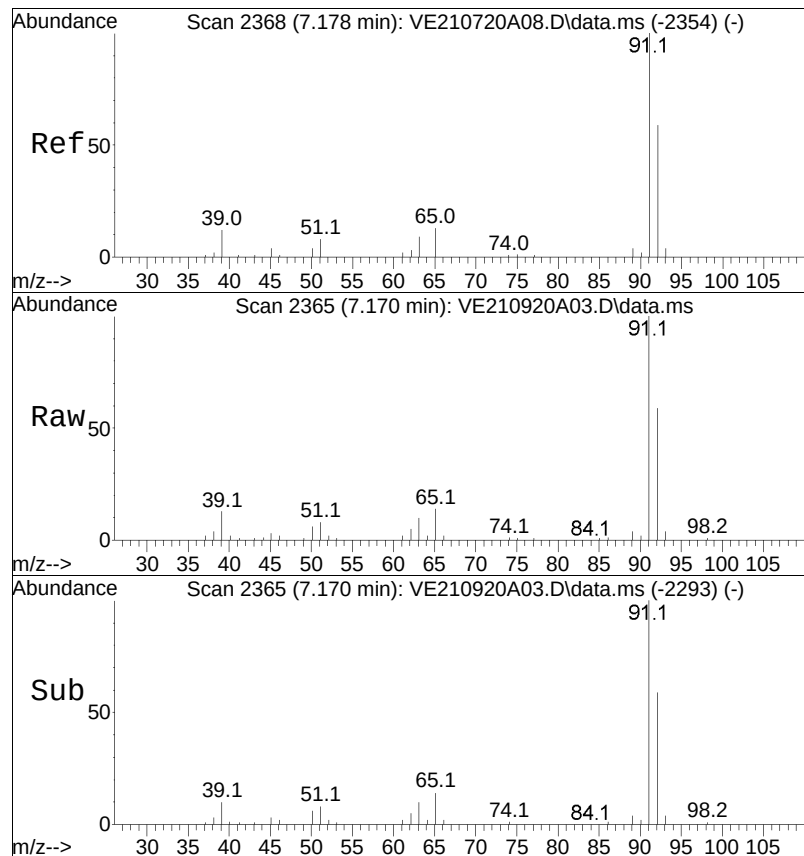




#58
 cis-1,3-Dichloropropene
 Concen: 8.28 ug/L
 RT: 6.947 min Scan# 2285
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

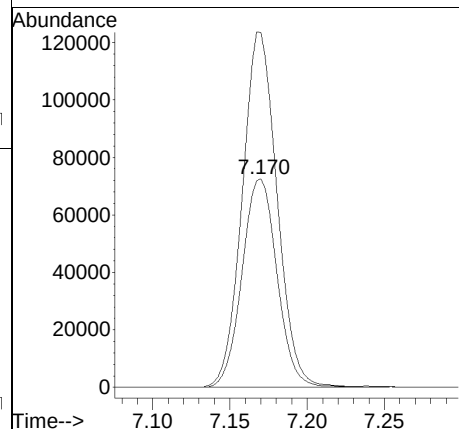
Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.0	37.4
39	66.3	50.1	75.1

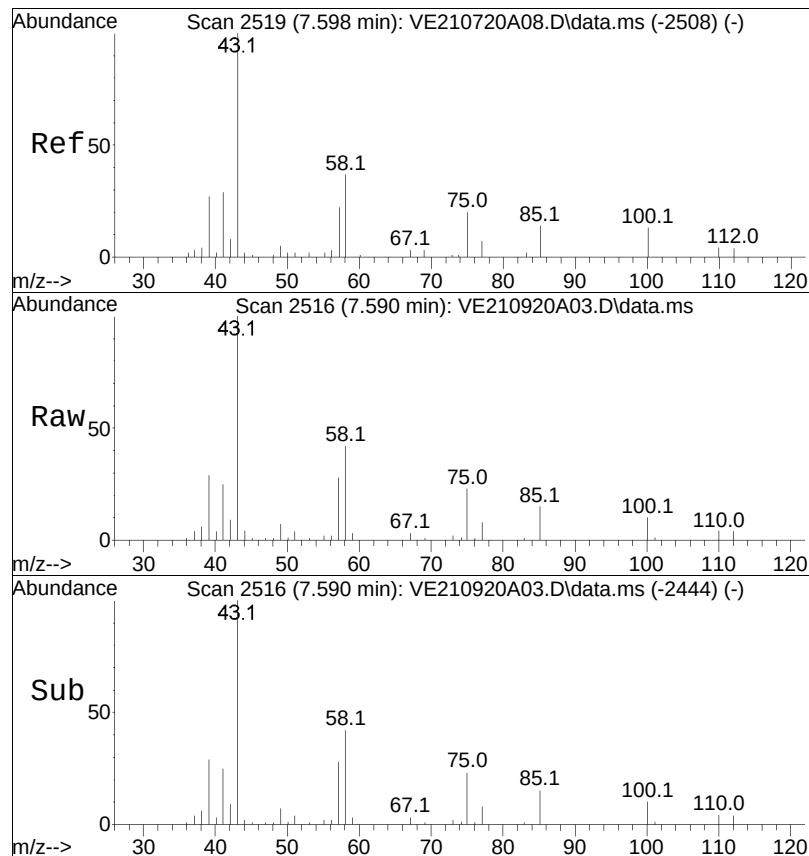




#61
 Toluene
 Concen: 9.03 ug/L
 RT: 7.170 min Scan# 2365
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

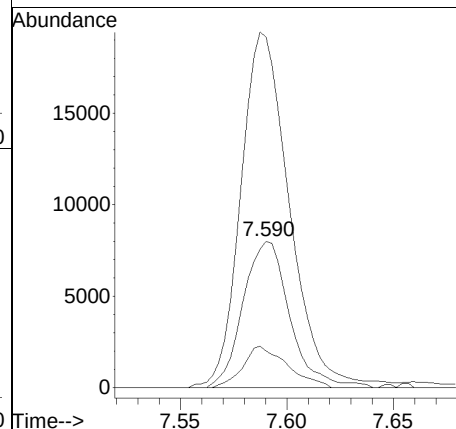
Tgt Ion	Ratio	Lower	Upper
92	100		
91	169.2	139.8	209.6

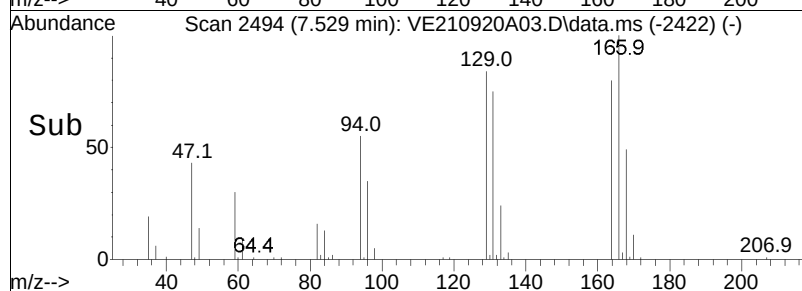
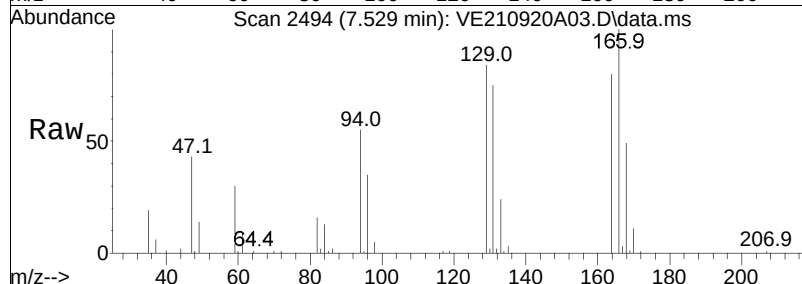
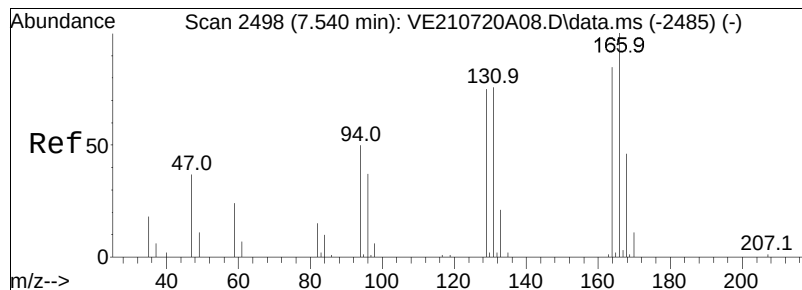




#62
 4-Methyl-2-pentanone
 Concen: 6.84 ug/L
 RT: 7.590 min Scan# 2516
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

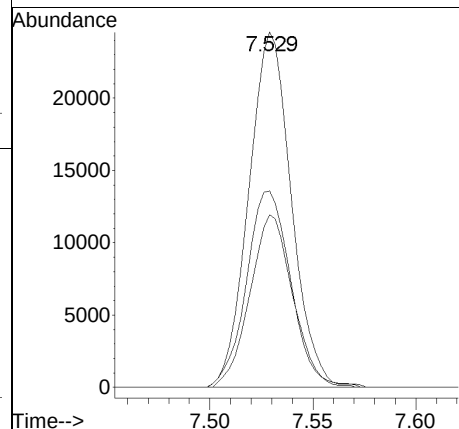
Tgt	Ion	Ratio	Lower	Upper
58	100			
100	26.9	20.2	30.2	
43	253.7	196.6	295.0	

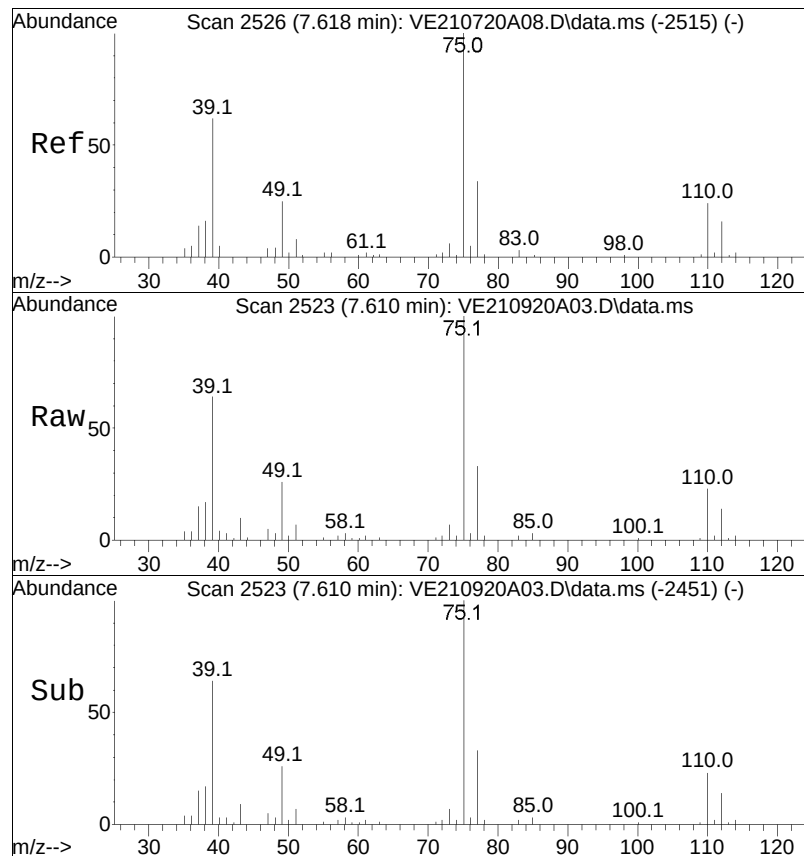




#63
Tetrachloroethene
Concen: 8.34 ug/L
RT: 7.529 min Scan# 2494
Delta R.T. -0.000 min
Lab File: VE210920A03.D
Acq: 20 Sep 2021 8:01 am

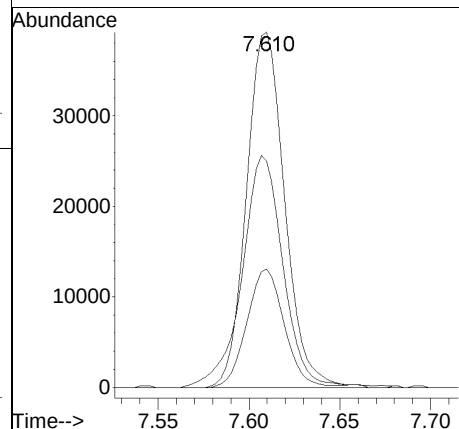
Tgt Ion	Ratio	Lower	Upper
166	100		
168	48.9	28.2	68.2
94	57.5	38.4	78.4

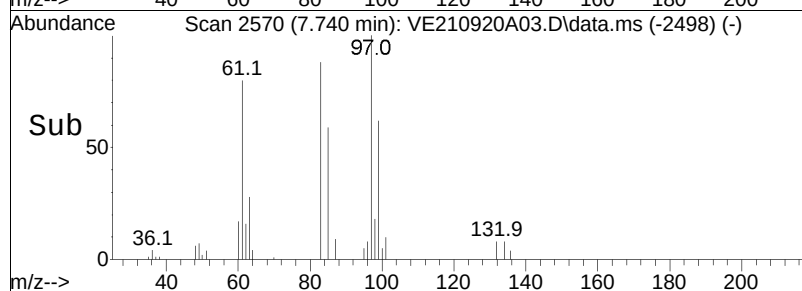
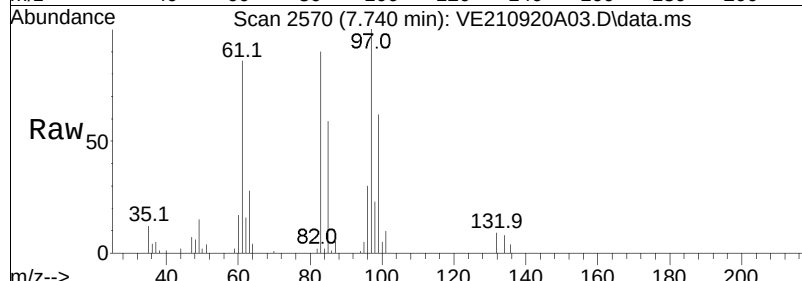
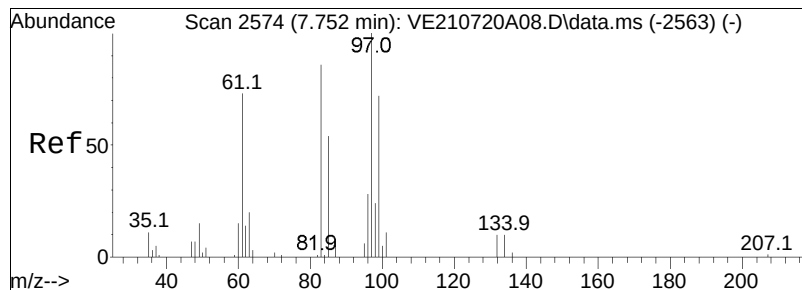




#65
 trans-1,3-Dichloropropene
 Concen: 7.80 ug/L
 RT: 7.610 min Scan# 2523
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

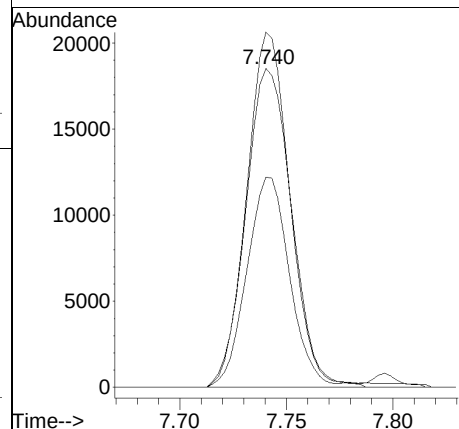
Tgt Ion:	75	Resp:	57360
Ion Ratio	Lower	Upper	
75	100		
77	32.4	12.4	52.4
39	70.1	42.8	82.8

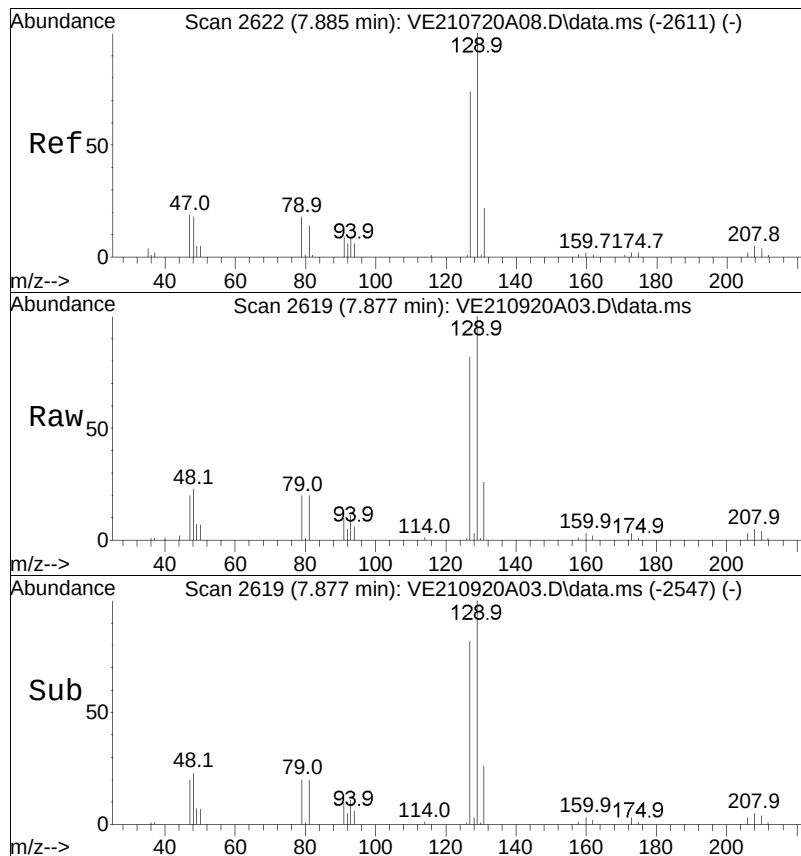




#68
 1,1,2-Trichloroethane
 Concen: 8.27 ug/L
 RT: 7.740 min Scan# 2570
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

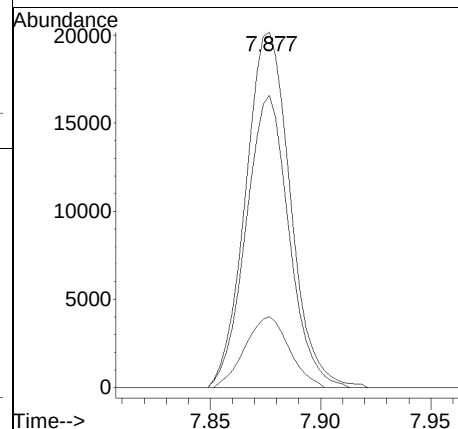
Tgt Ion	Ratio	Lower	Upper
83	100		
97	106.7	89.8	129.8
85	62.0	44.4	84.4

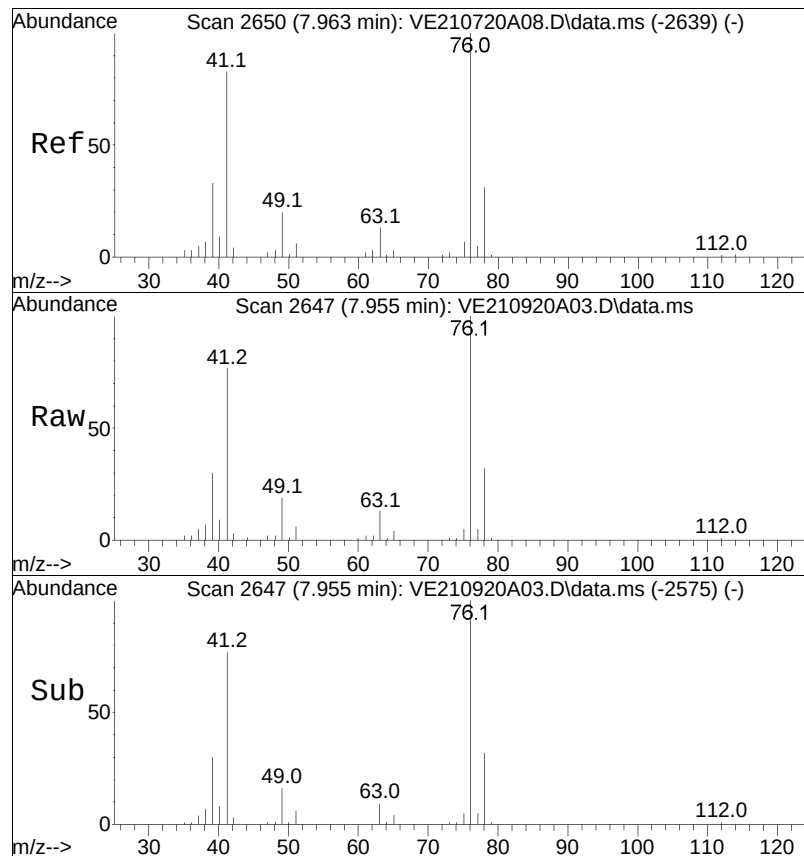




#69
 Chlorodibromomethane
 Concen: 6.83 ug/L
 RT: 7.877 min Scan# 2619
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

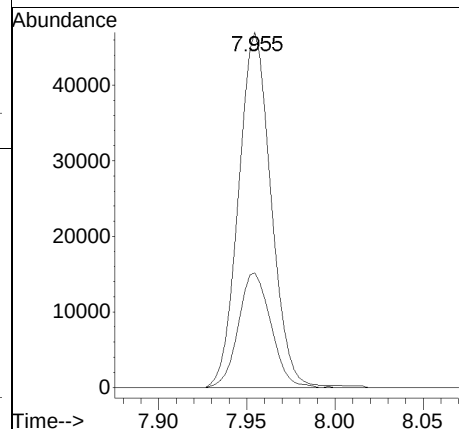
Tgt Ion	Ratio	Lower	Upper
129	100		
81	19.6	2.9	42.9
127	79.1	57.8	97.8

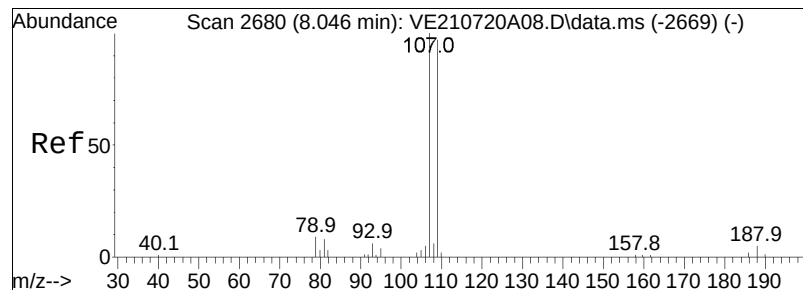




#70
 1,3-Dichloropropane
 Concen: 8.02 ug/L
 RT: 7.955 min Scan# 2647
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

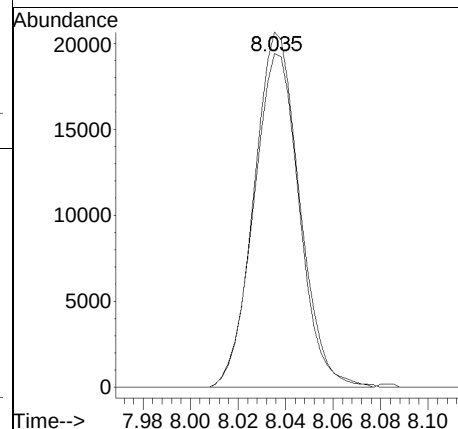
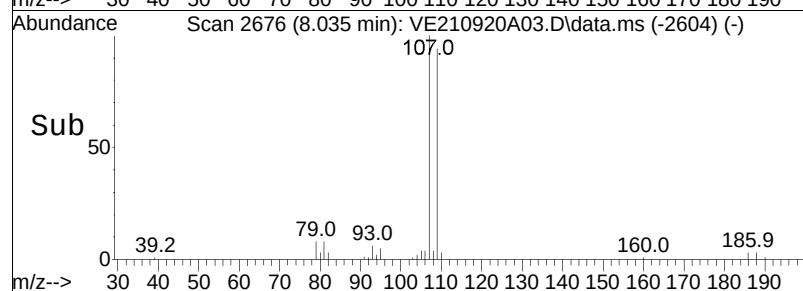
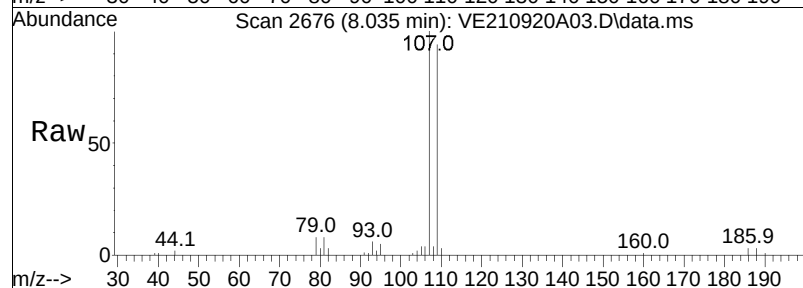
Tgt Ion:	76	78	Ratio	100	32.1	Resp:	60324	Lower	Upper
								25.5	38.3

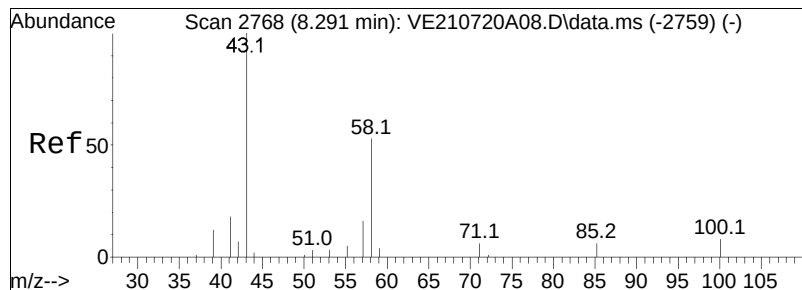




#71
 1,2-Dibromoethane
 Concen: 7.41 ug/L
 RT: 8.035 min Scan# 2676
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.3	74.3	111.5





#72

2-Hexanone

Concen: 6.67 ug/L

RT: 8.283 min Scan# 2765

Delta R.T. -0.000 min

Lab File: VE210920A03.D

Acq: 20 Sep 2021 8:01 am

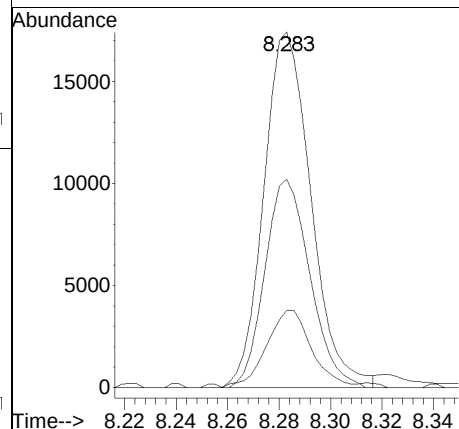
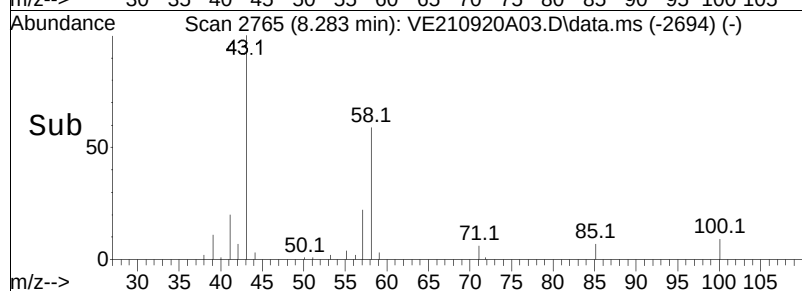
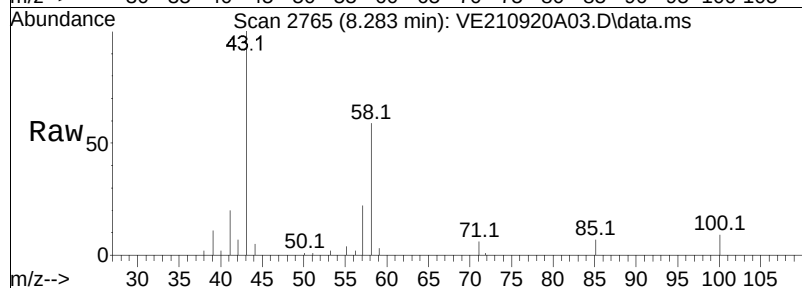
Tgt Ion: 43 Resp: 22258

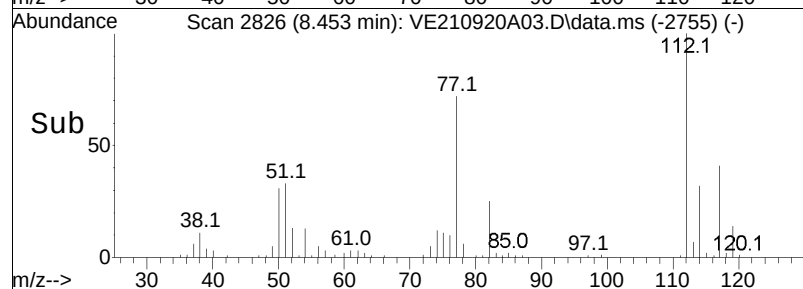
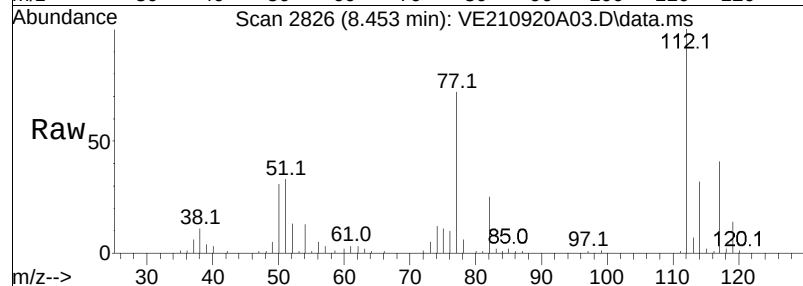
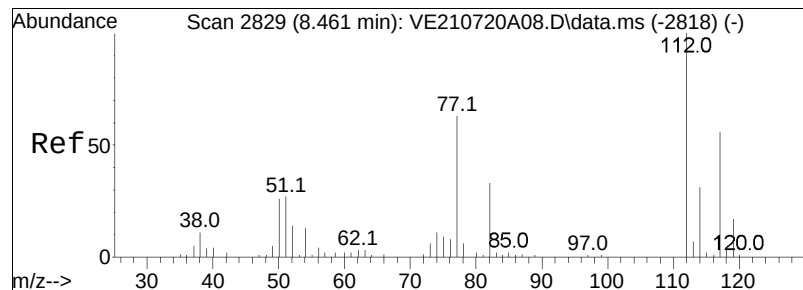
Ion Ratio Lower Upper

43 100

58 55.8 41.2 61.8

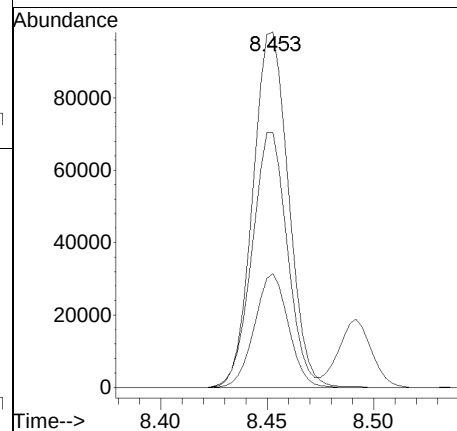
57 20.7 17.2 25.8

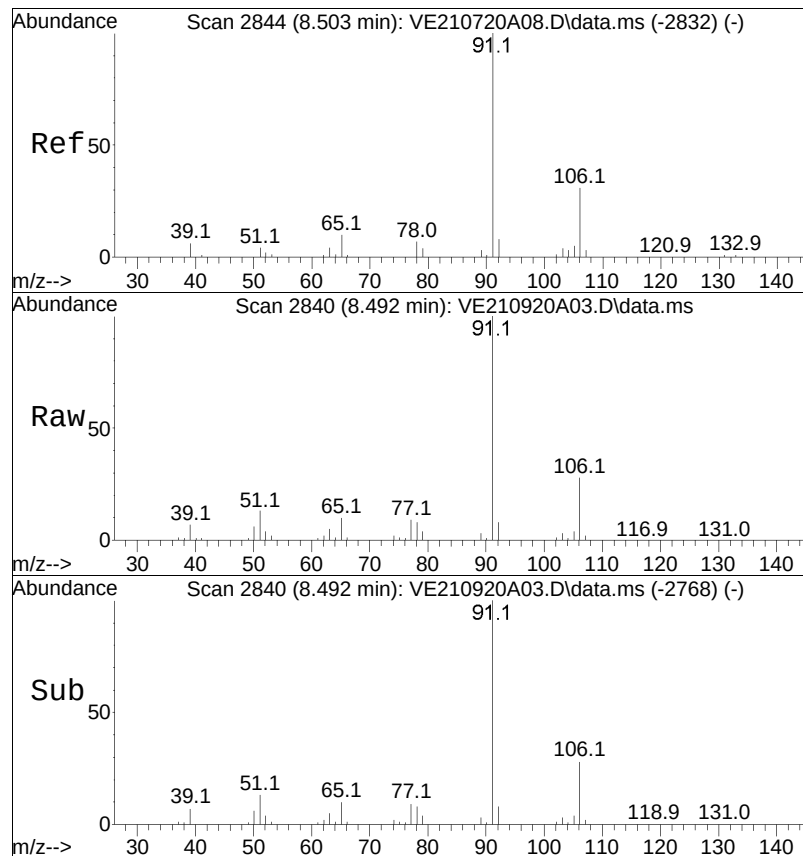




#73
 Chlorobenzene
 Concen: 9.12 ug/L
 RT: 8.453 min Scan# 2826
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

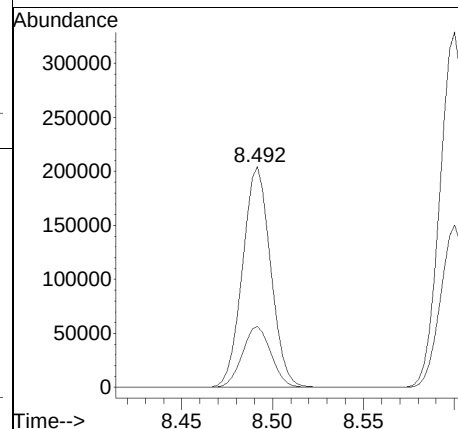
Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		114258		
77	71.3	55.4		83.0	
114	30.4	25.4		38.2	

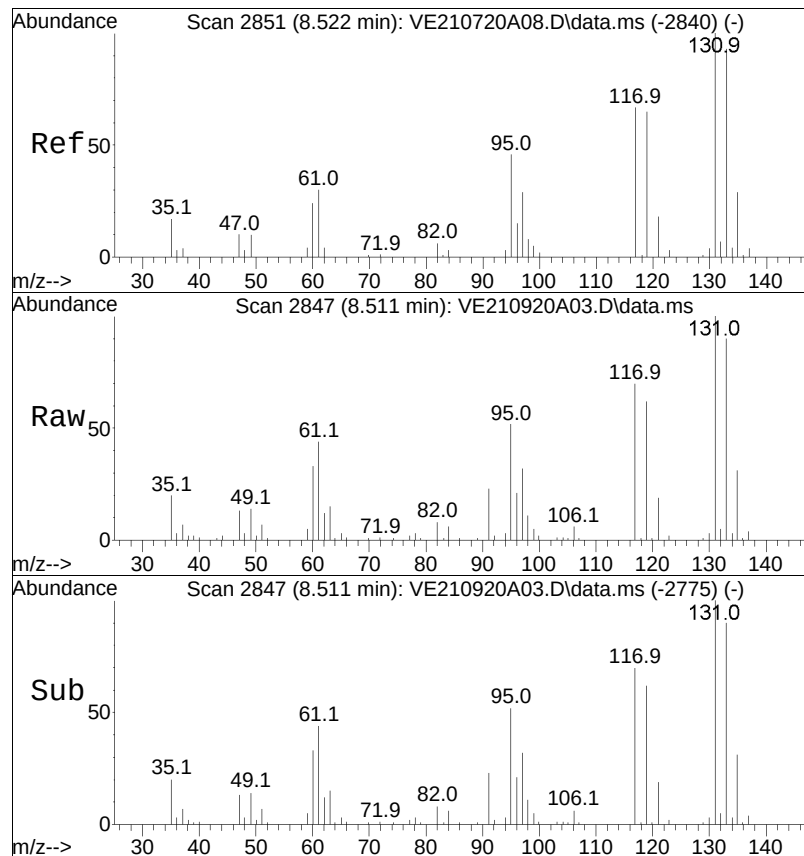




#74
 Ethylbenzene
 Concen: 9.34 ug/L
 RT: 8.492 min Scan# 2840
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

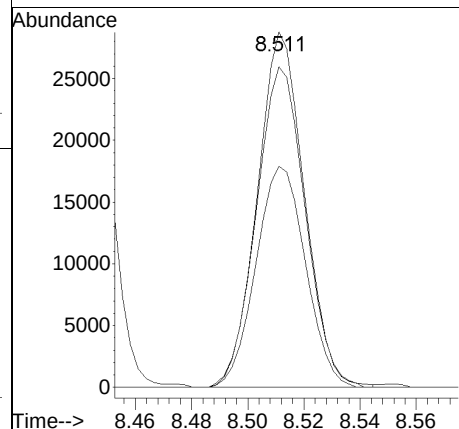
Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
106	28.1	24.3	36.5	

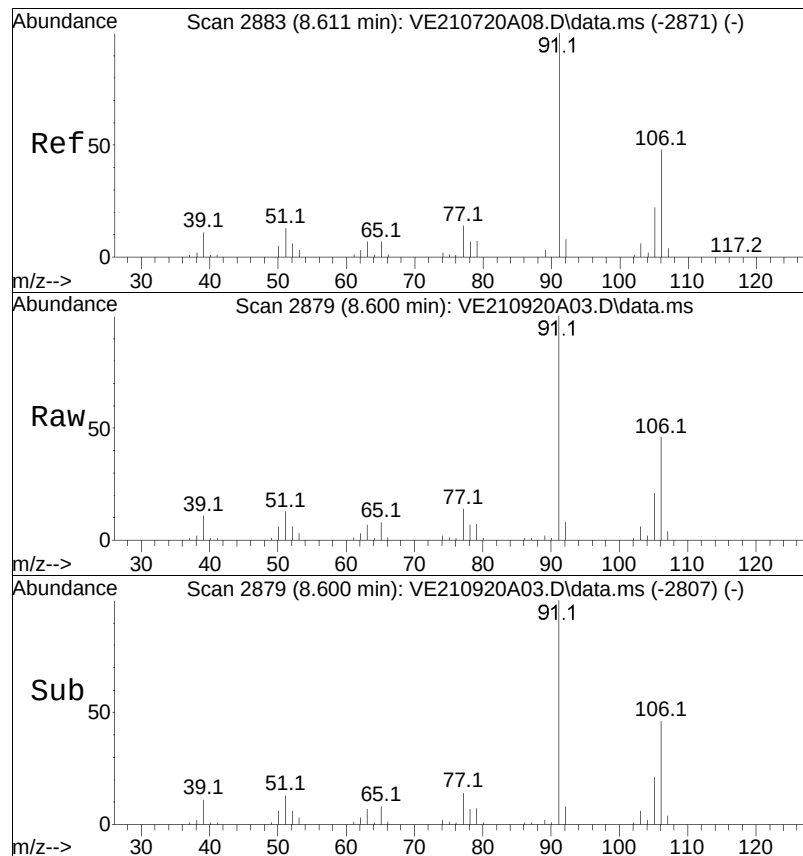




#75
 1,1,1,2-Tetrachloroethane
 Concen: 7.66 ug/L
 RT: 8.511 min Scan# 2847
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

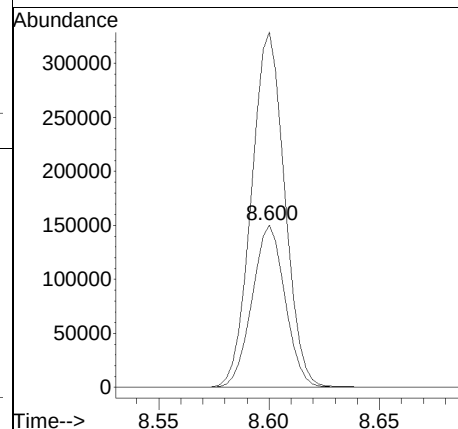
Tgt Ion:	131	Resp:	33518
Ion Ratio	Lower	Upper	
131	100		
133	93.8	81.0	121.0
119	65.5	41.3	81.3

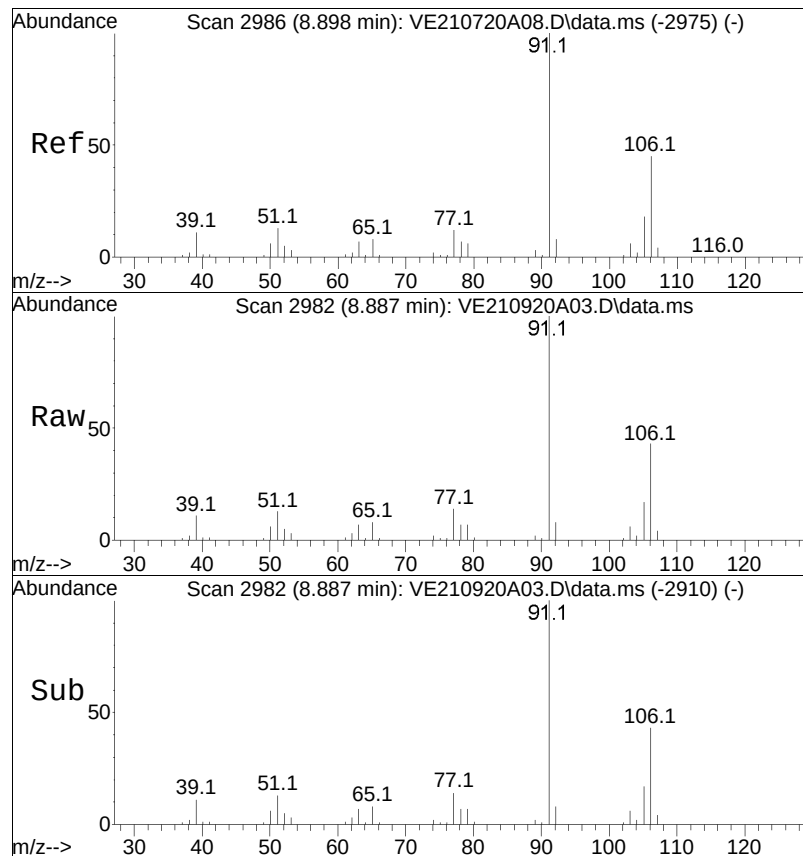




#76
 p/m Xylene
 Concen: 18.60 ug/L
 RT: 8.600 min Scan# 2879
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

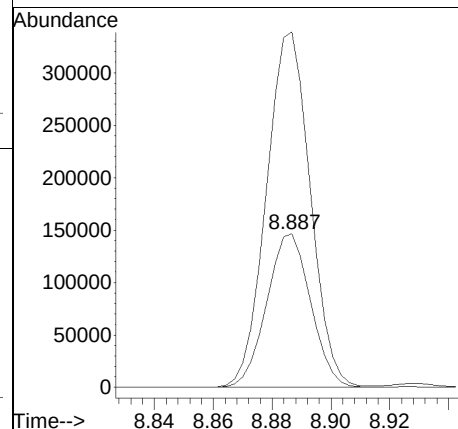
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	221.4	166.4	249.6	

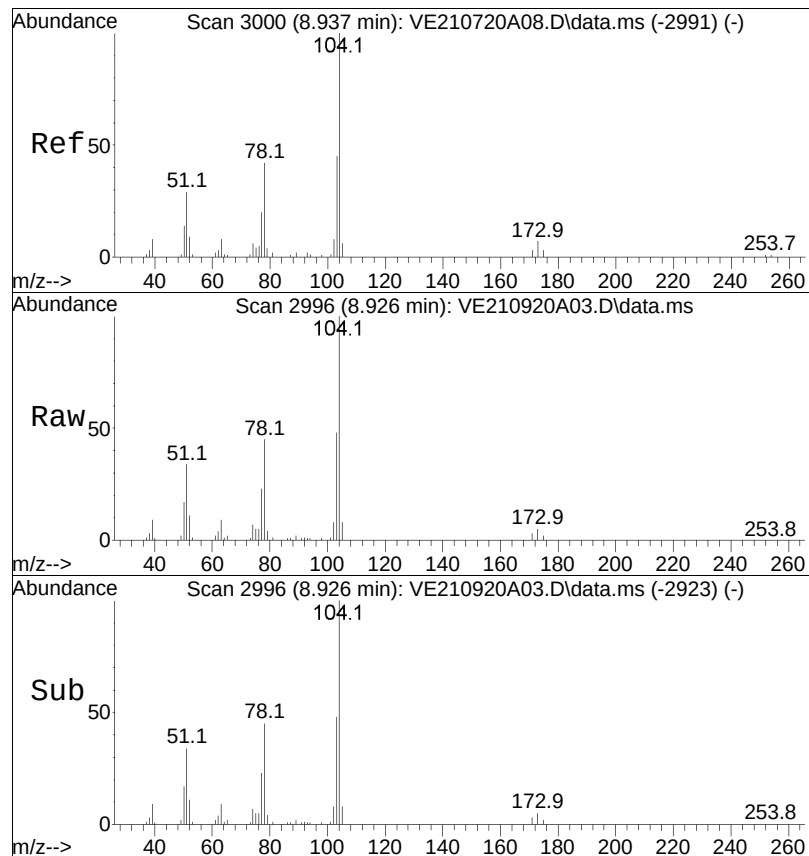




#77
 o Xylene
 Concen: 18.91 ug/L
 RT: 8.887 min Scan# 2982
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

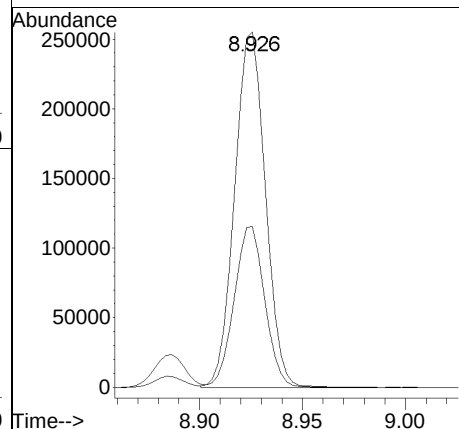
Tgt Ion	Ratio	Lower	Upper
106	100		
91	231.0	182.6	273.8

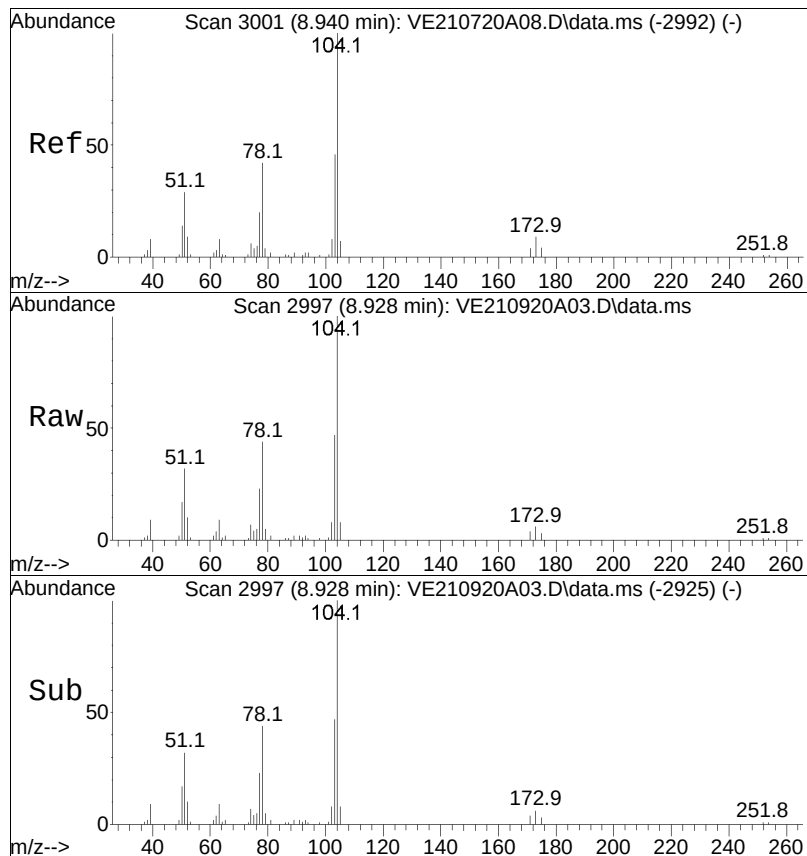




#78
 Styrene
 Concen: 18.77 ug/L
 RT: 8.926 min Scan# 2996
 Delta R.T. 0.003 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

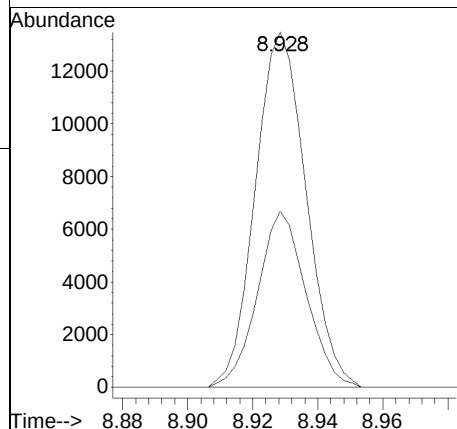
Tgt Ion	Ratio	Lower	Upper
104	100		
78	44.7	39.8	59.6

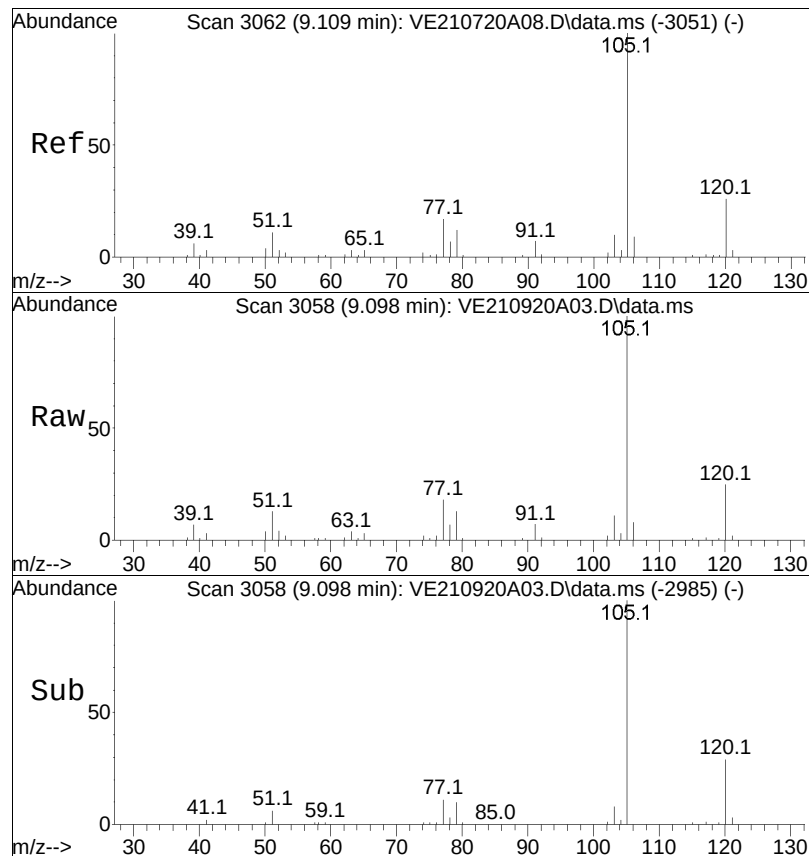




#80
 Bromoform
 Concen: 6.26 ug/L
 RT: 8.928 min Scan# 2997
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

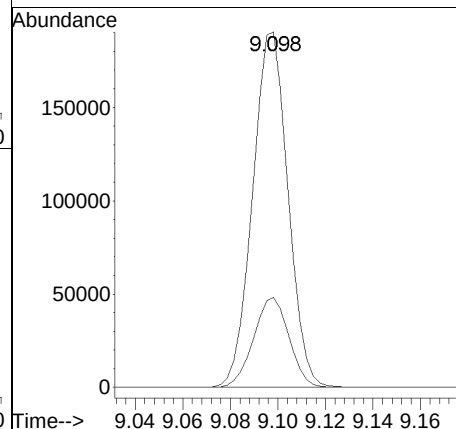
Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.4	31.5	71.5

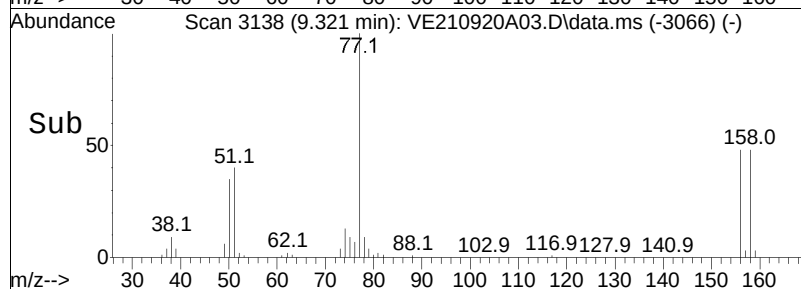
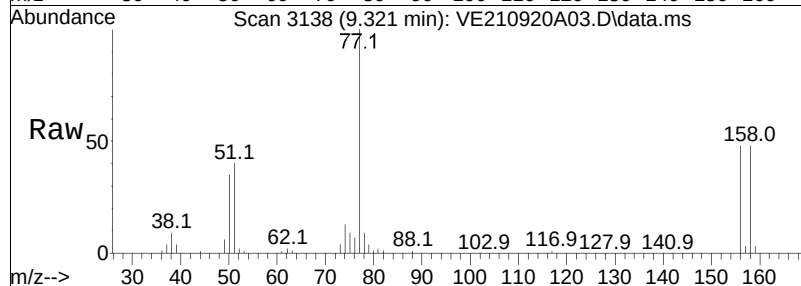
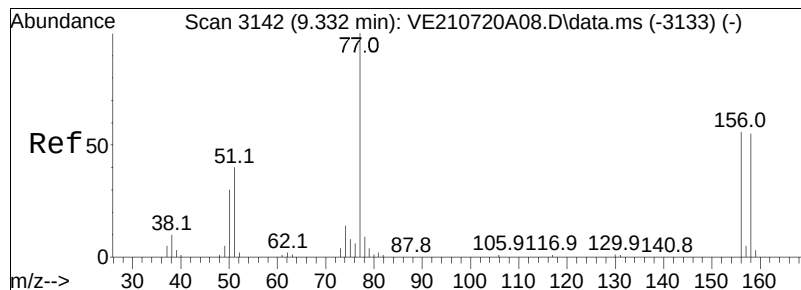




#82
Isopropylbenzene
Concen: 9.27 ug/L
RT: 9.098 min Scan# 3058
Delta R.T. 0.003 min
Lab File: VE210920A03.D
Acq: 20 Sep 2021 8:01 am

Tgt	Ion	Ratio	Lower	Upper
105	100			
120	25.4	4.8	44.8	





#84

Bromobenzene

Concen: 8.97 ug/L

RT: 9.321 min Scan# 3138

Delta R.T. -0.000 min

Lab File: VE210920A03.D

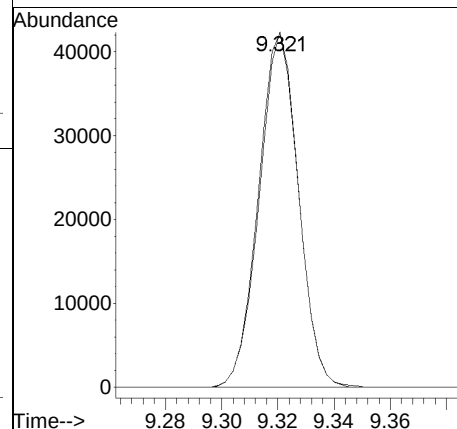
Acq: 20 Sep 2021 8:01 am

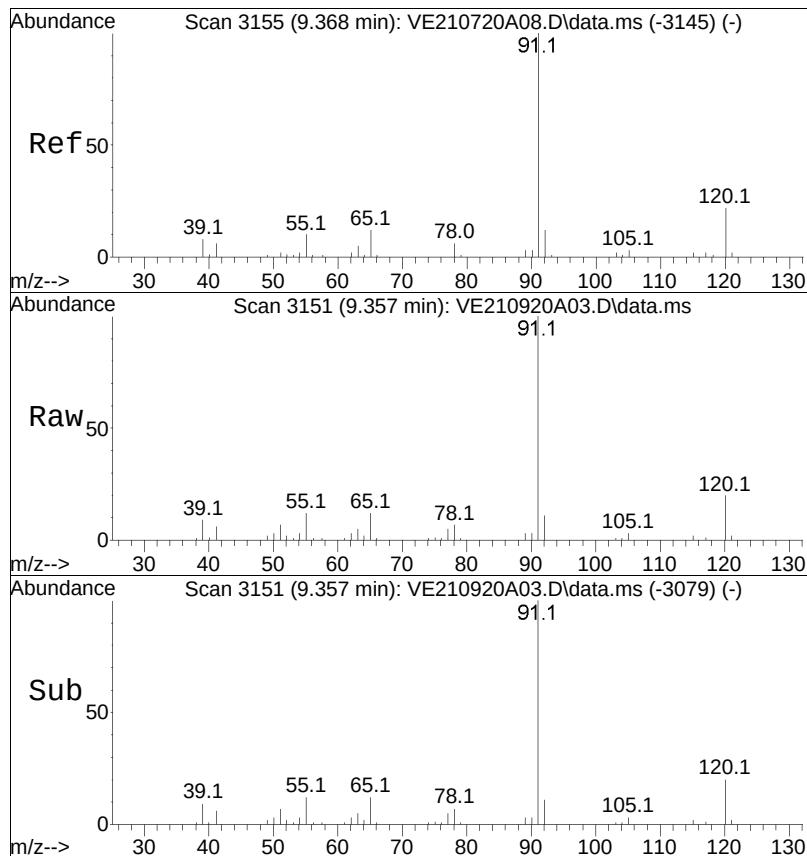
Tgt Ion:156 Resp: 41695

Ion Ratio Lower Upper

156 100

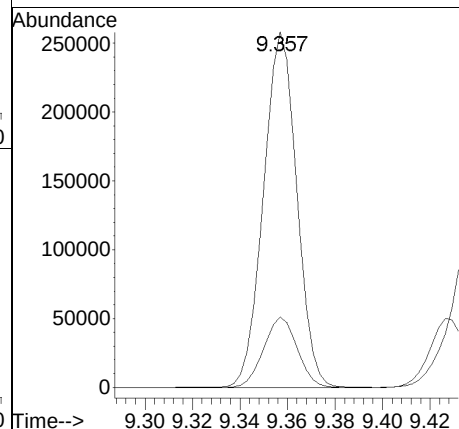
158 98.0 75.9 113.9

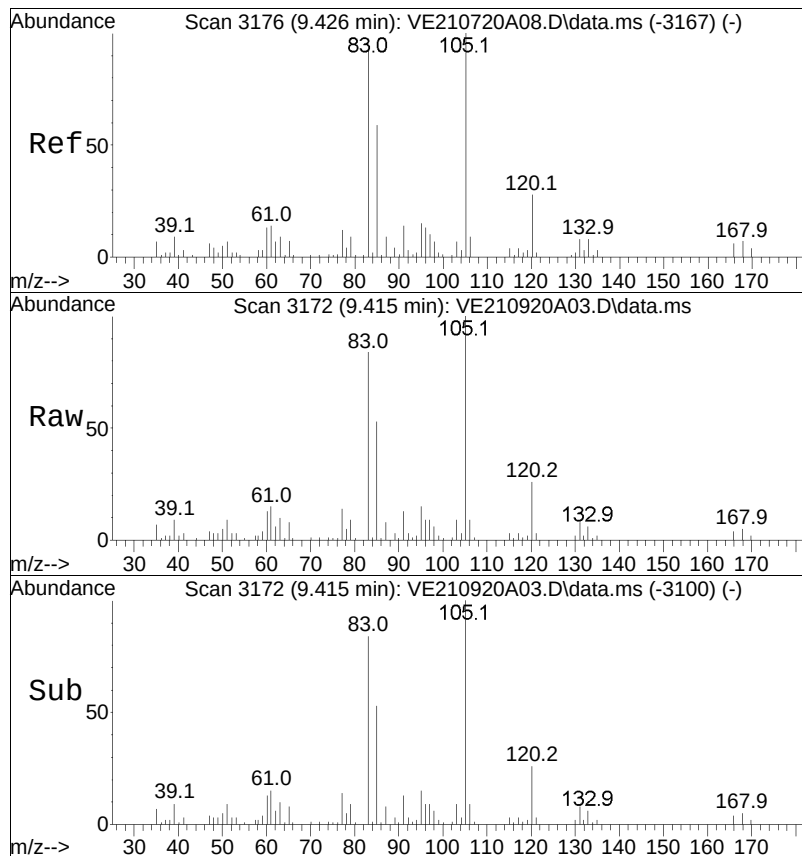




#85
 n-Propylbenzene
 Concen: 9.87 ug/L
 RT: 9.357 min Scan# 3151
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

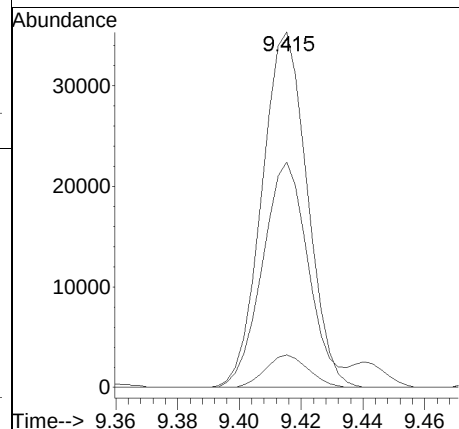
Tgt Ion	Ratio	Lower	Upper
91	100		
120	19.9	17.0	25.6

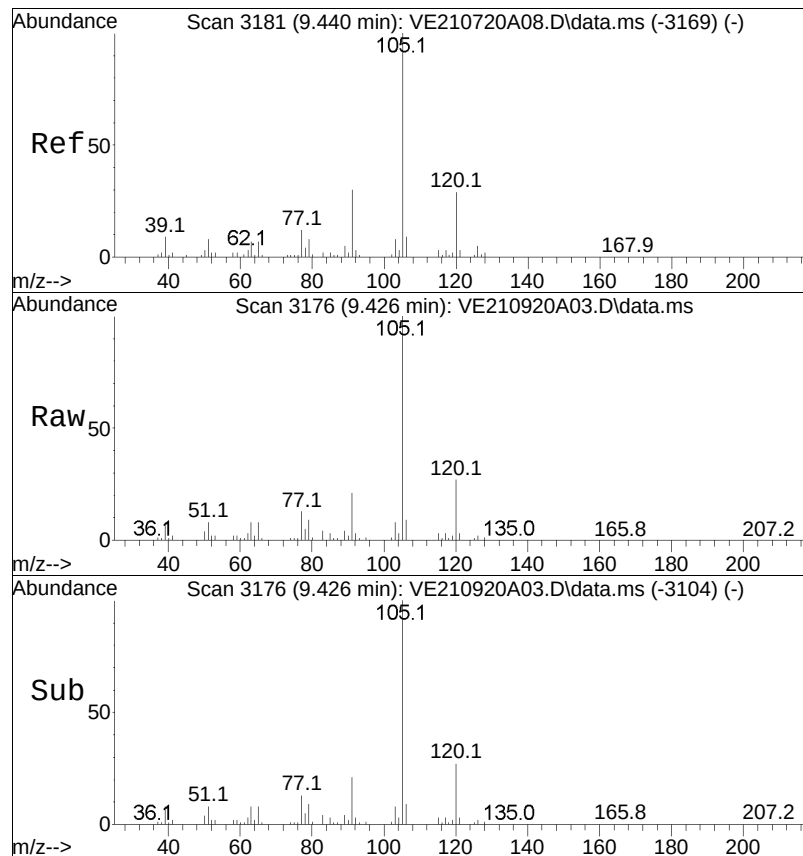




#87
 1,1,2,2-Tetrachloroethane
 Concen: 8.37 ug/L
 RT: 9.415 min Scan# 3172
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

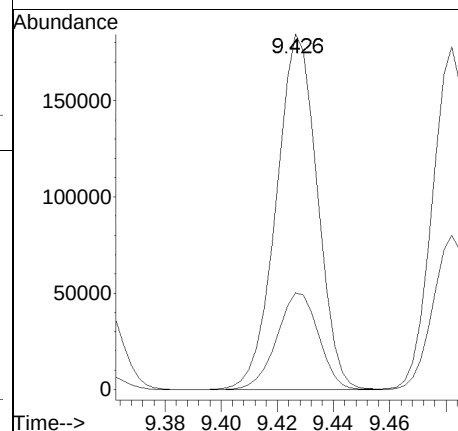
Tgt Ion	Ratio	Lower	Upper
83	100		
131	8.6	0.0	30.4
85	65.0	45.4	85.4

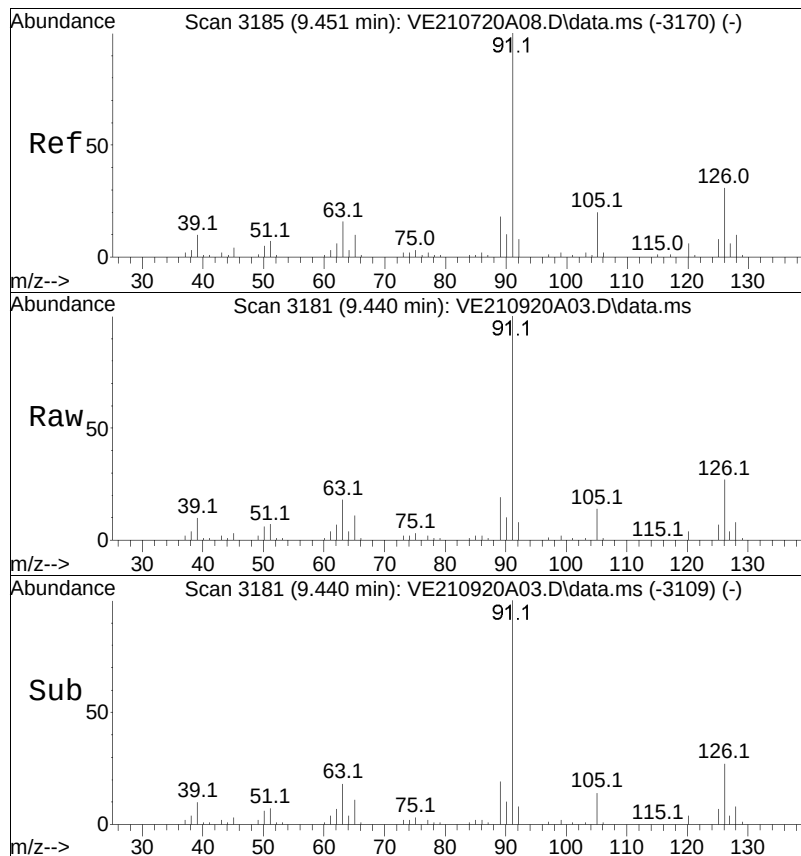




#88
 4-Ethyltoluene
 Concen: 9.37 ug/L
 RT: 9.426 min Scan# 3176
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

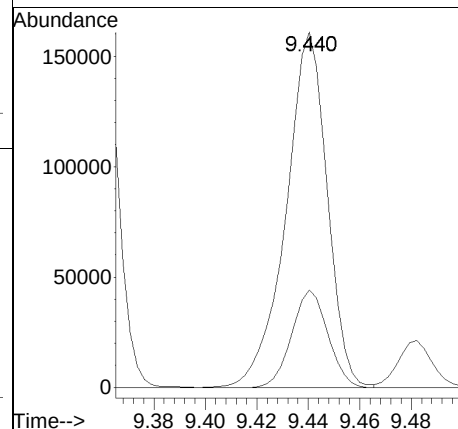
Tgt Ion:	105	Resp:	187290
Ion Ratio	Lower	Upper	
105	100		
120	27.5	18.1	37.7

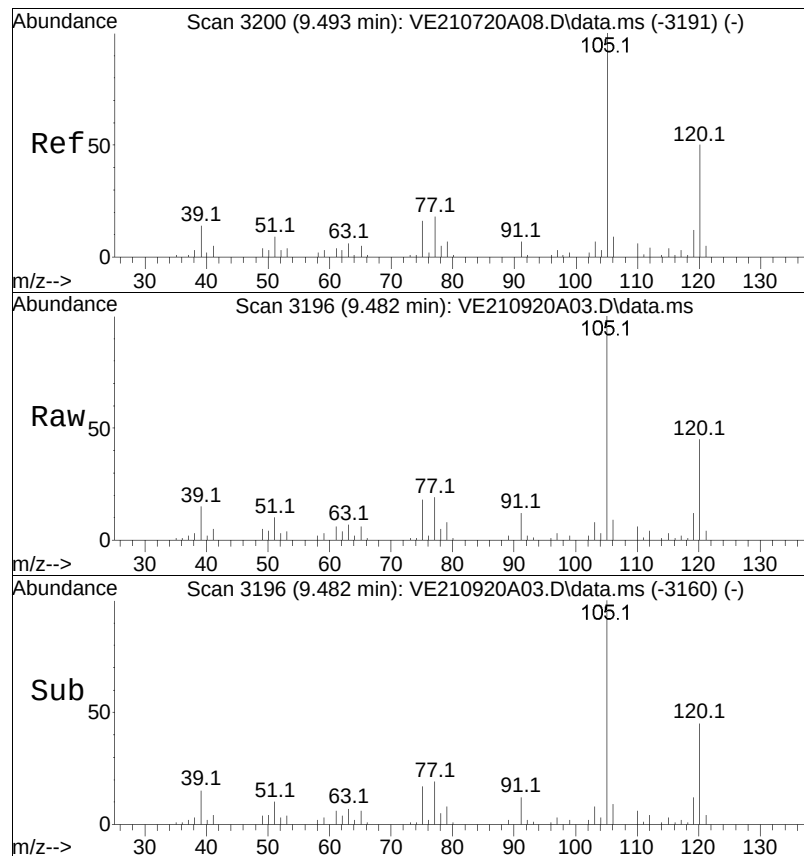




#89
 2-Chlorotoluene
 Concen: 9.67 ug/L
 RT: 9.440 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

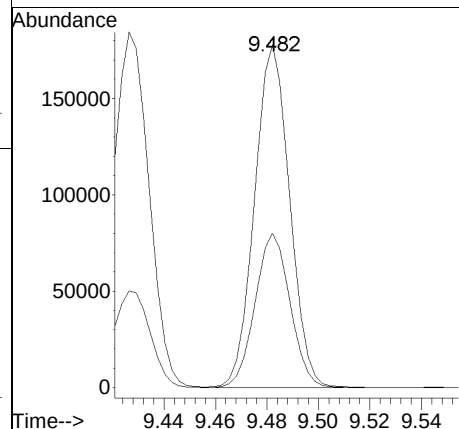
Tgt	Ion	Resp	Lower	Upper
91	100	178757		
126	23.9	21.5	32.3	

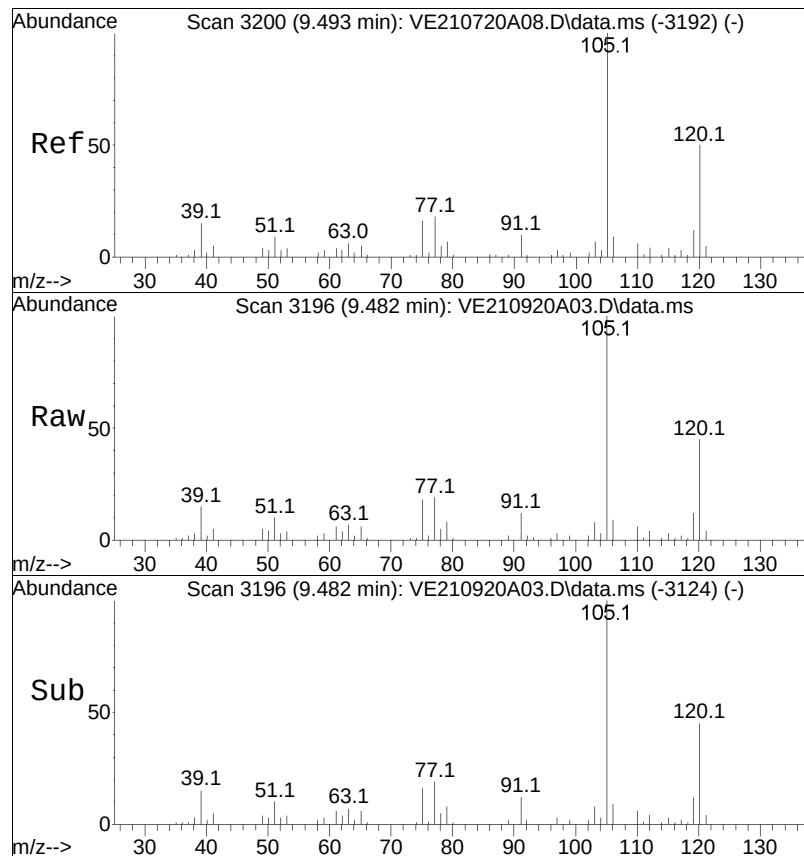




#90
 1,3,5-Trimethylbenzene
 Concen: 9.50 ug/L
 RT: 9.482 min Scan# 3196
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

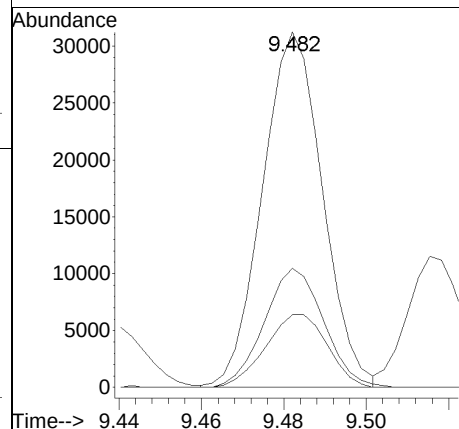
Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.7	34.8	52.2

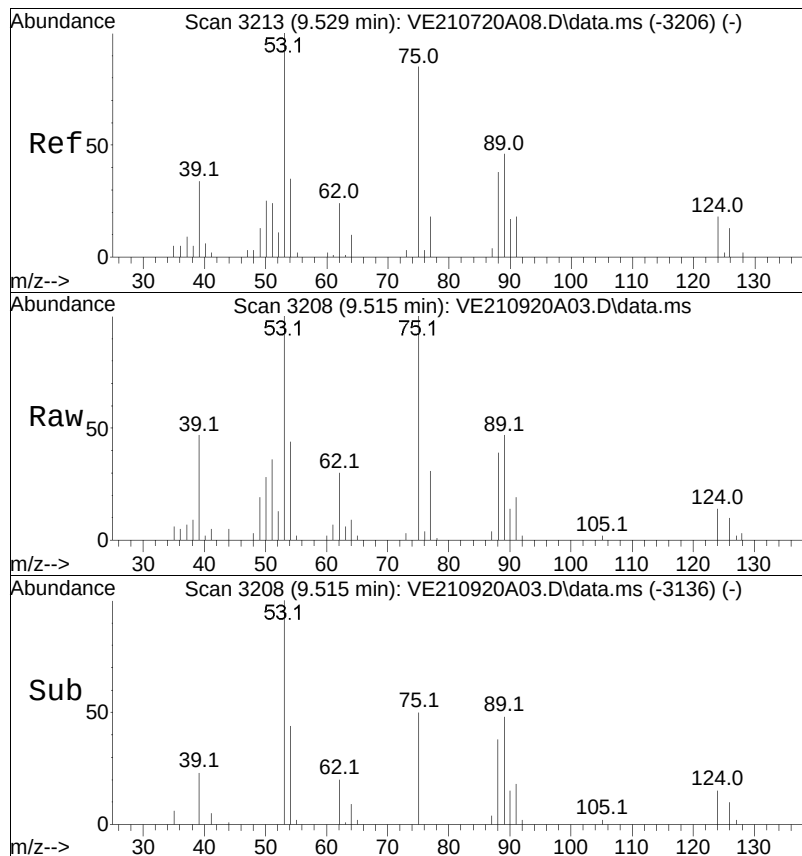




#91
 1,2,3-Trichloropropane
 Concen: 8.11 ug/L
 RT: 9.482 min Scan# 3196
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

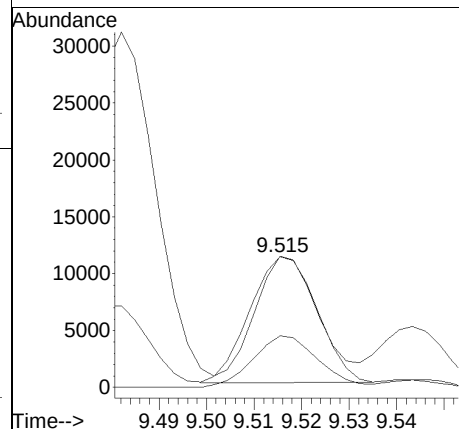
Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.1	25.4	52.8
112	21.1	15.6	32.4

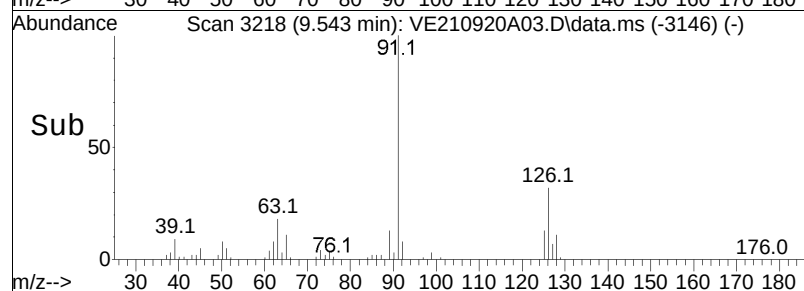
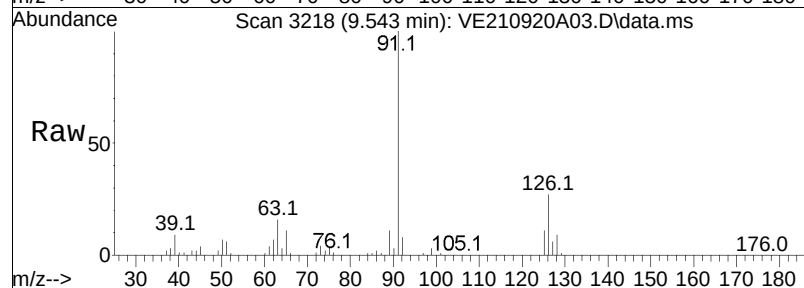
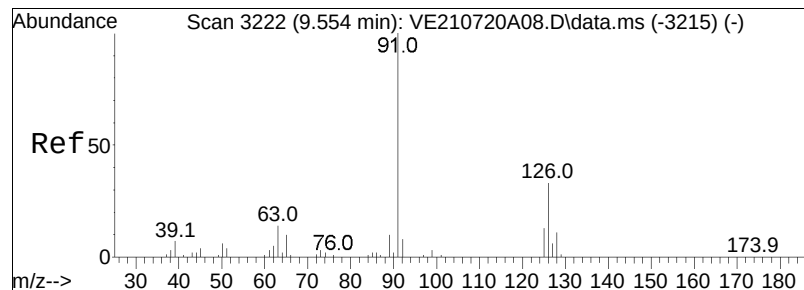




#92
 trans-1,4-Dichloro-2-butene
 Concen: 6.64 ug/L
 RT: 9.515 min Scan# 3208
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

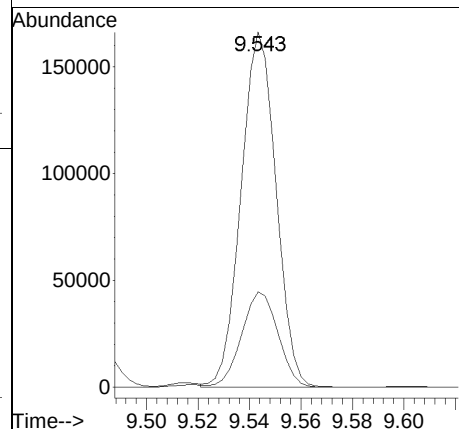
Tgt Ion	Ratio	Lower	Upper
53	100		
88	39.8	39.6	59.4
75	103.2	70.2	105.4

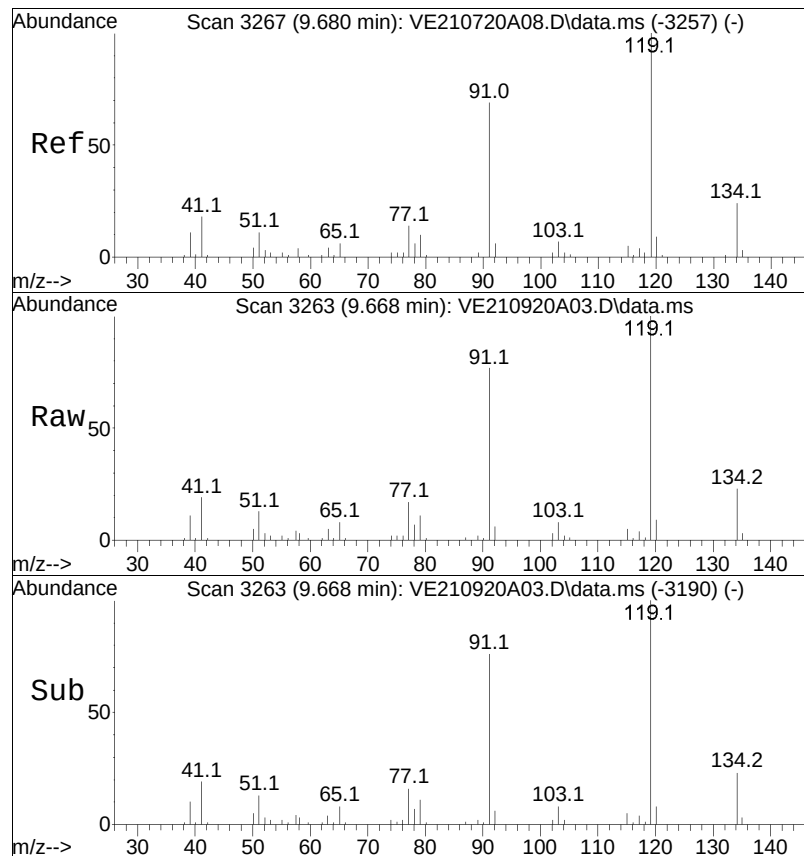




#93
 4-Chlorotoluene
 Concen: 9.33 ug/L
 RT: 9.543 min Scan# 3218
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

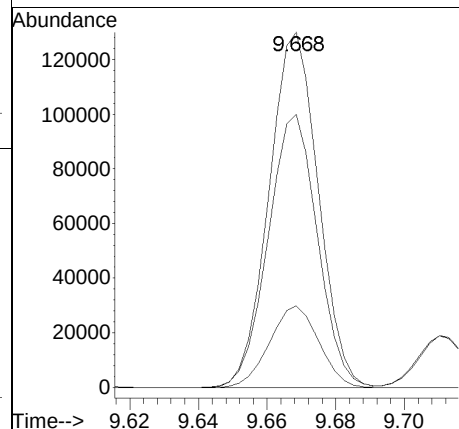
Tgt Ion:	91	Resp:	157416
Ion Ratio	100	Lower	Upper
126	27.9	24.6	36.8

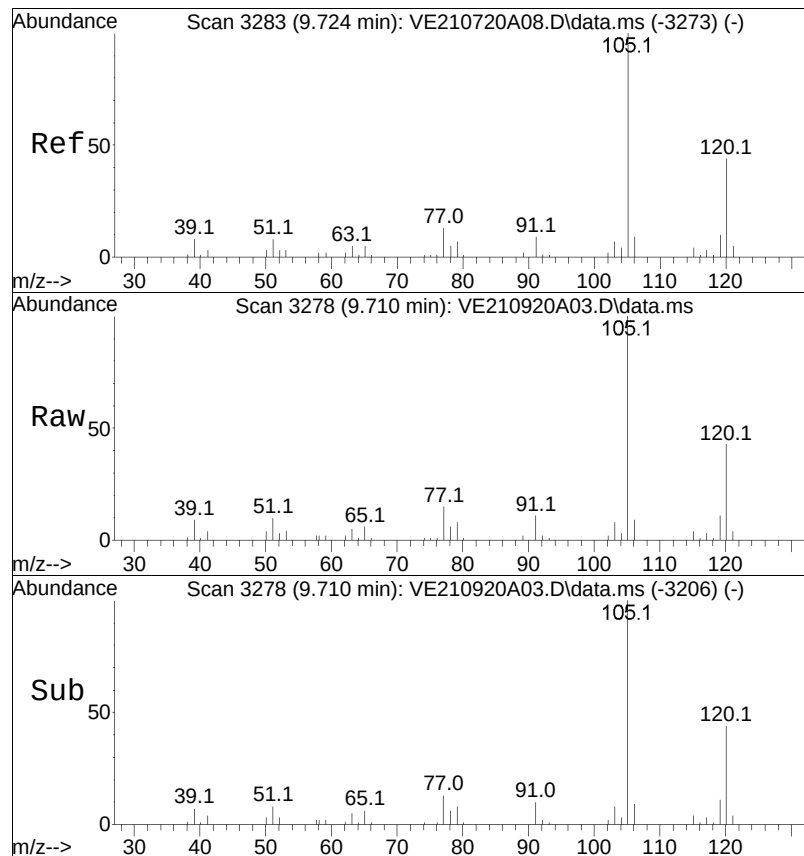




#94
 tert-Butylbenzene
 Concen: 9.09 ug/L
 RT: 9.668 min Scan# 3263
 Delta R.T. 0.002 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

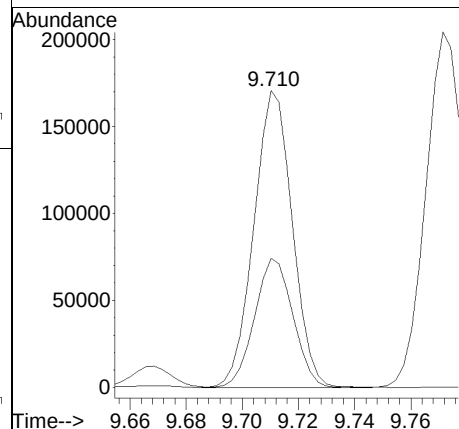
Tgt	Ion:119	Resp:	129718
Ion	Ratio	Lower	Upper
119	100		
91	77.0	51.4	77.2
134	22.9	18.3	27.5

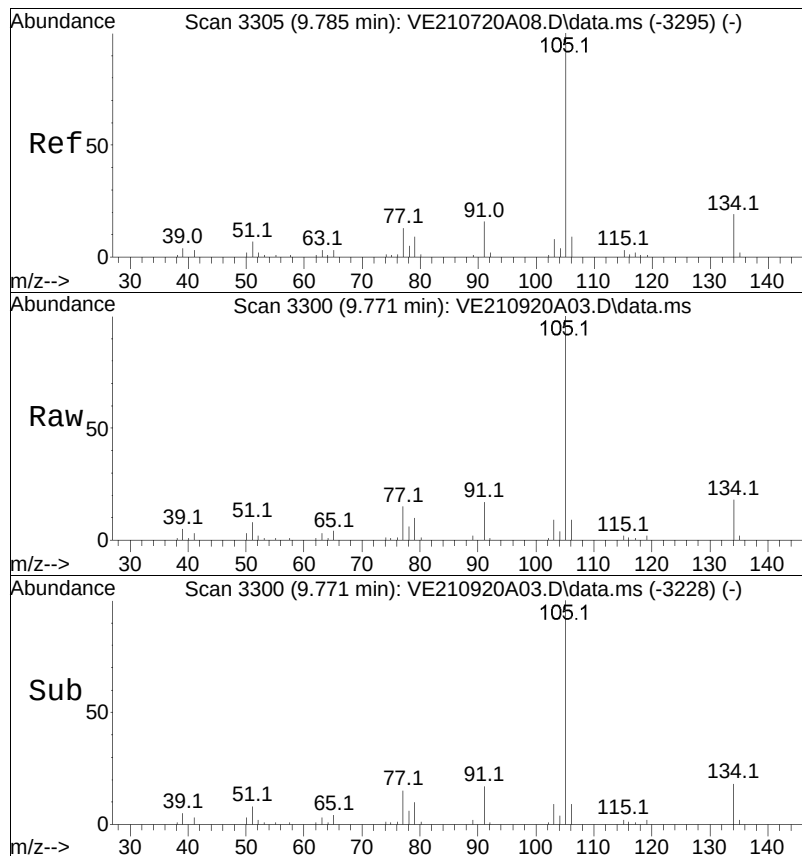




#97
 1,2,4-Trimethylbenzene
 Concen: 9.27 ug/L
 RT: 9.710 min Scan# 3278
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

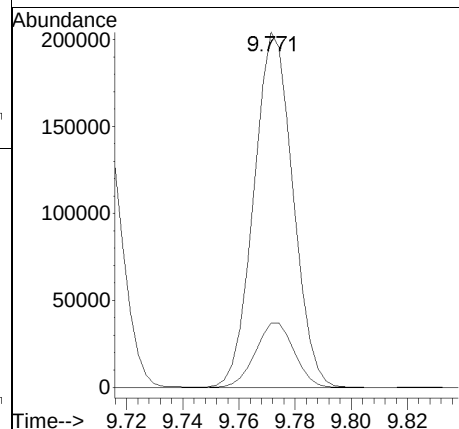
Tgt Ion	105	120	Ratio	Lower	Upper
Resp:	162242				
Ion	100				
Ratio	43.2				
Lower	33.4				
Upper	50.0				

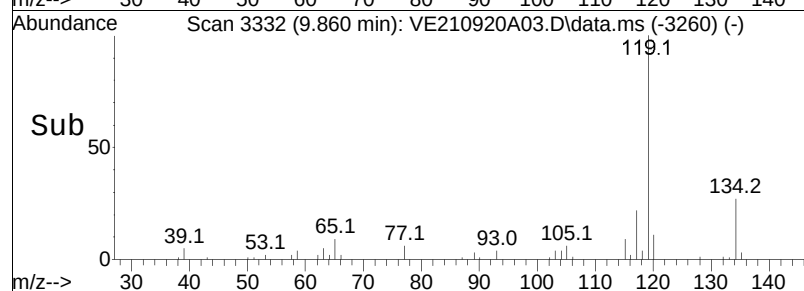
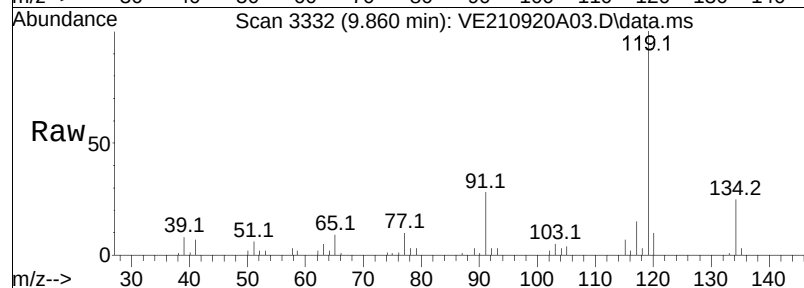
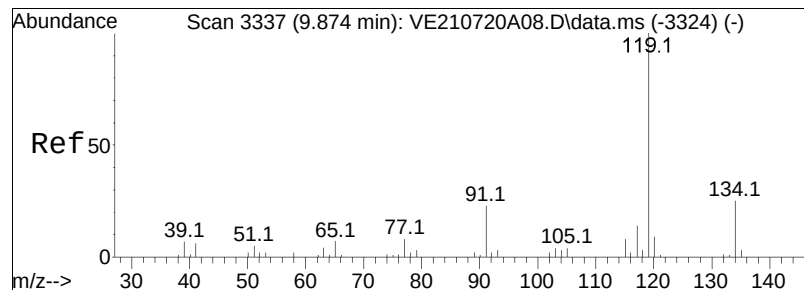




#98
 sec-Butylbenzene
 Concen: 9.13 ug/L
 RT: 9.771 min Scan# 3300
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

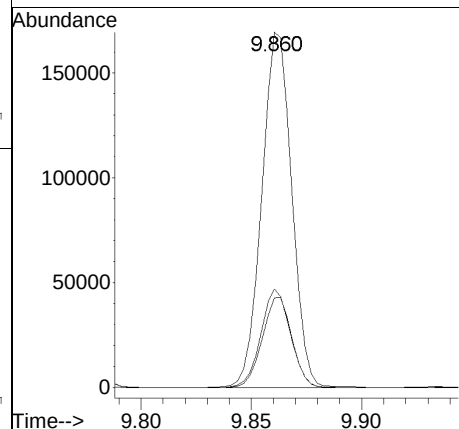
Tgt Ion	Ratio	Lower	Upper
105	100		
134	18.1	12.5	26.1

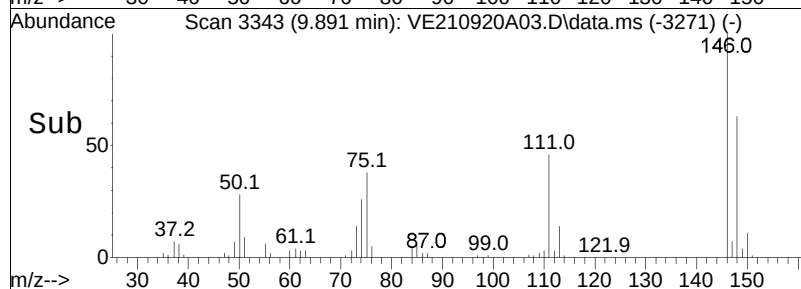
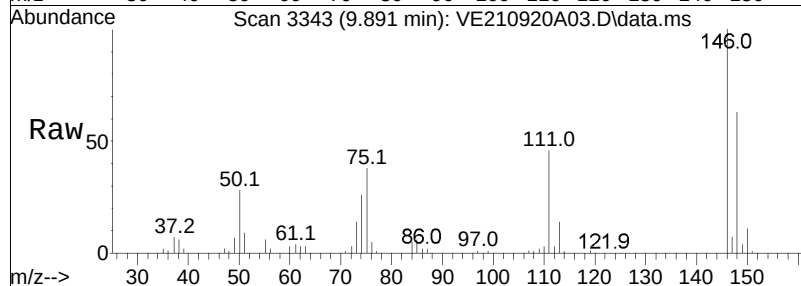
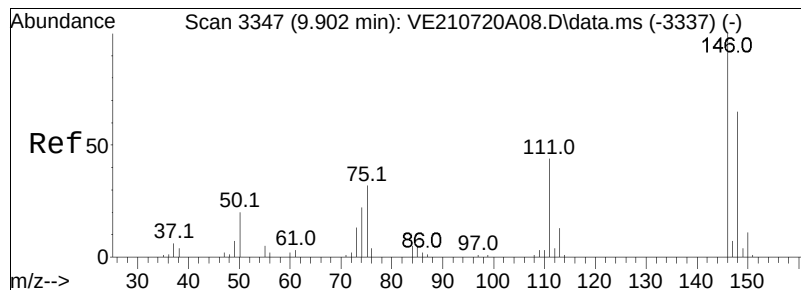




#99
 p-Isopropyltoluene
 Concen: 9.00 ug/L
 RT: 9.860 min Scan# 3332
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

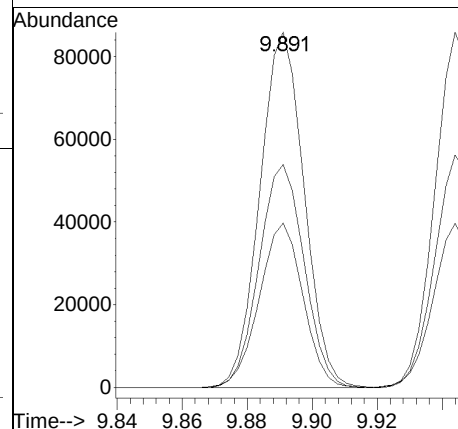
Tgt Ion:	119	Resp:	159768
Ion Ratio	Lower	Upper	
119	100		
134	24.9	16.1	33.3
91	27.1	17.3	35.9

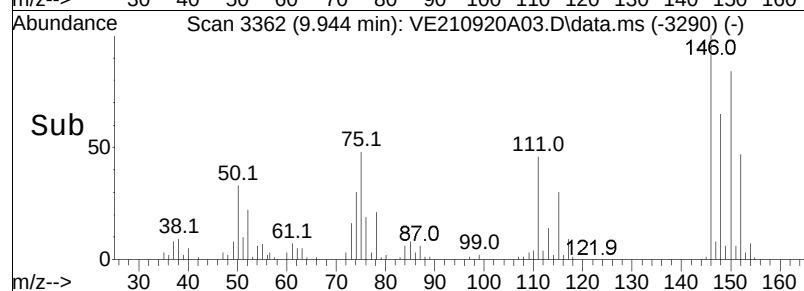
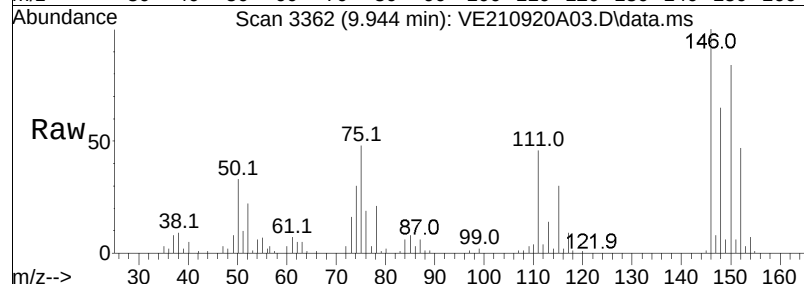
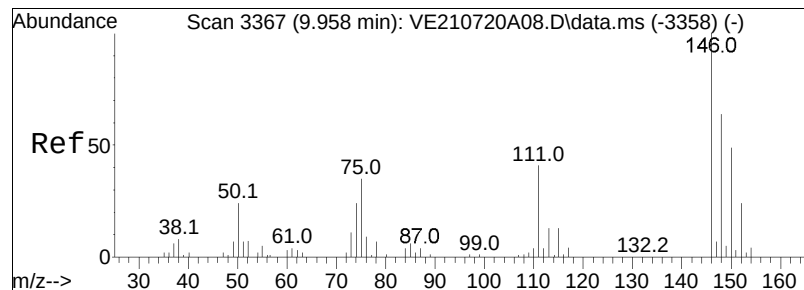




#100
 1,3-Dichlorobenzene
 Concen: 9.31 ug/L
 RT: 9.891 min Scan# 3343
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

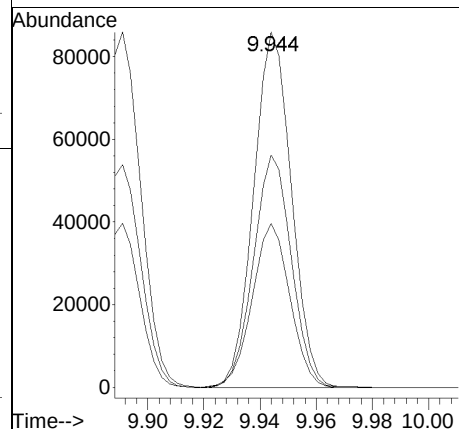
Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.7	27.5	57.1
148	63.8	41.9	86.9

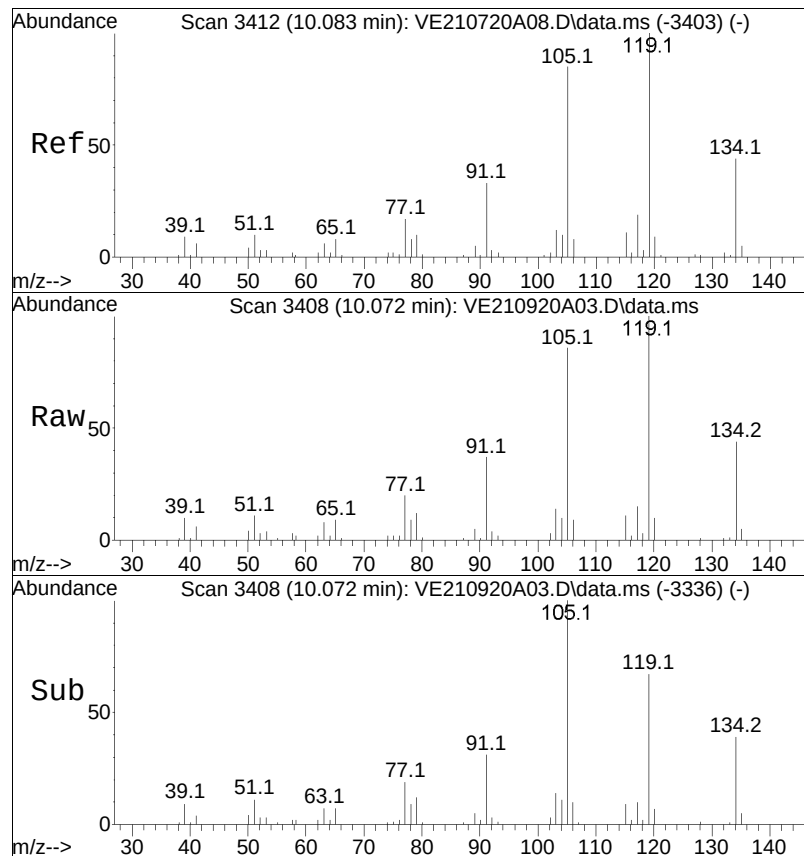




#101
 1,4-Dichlorobenzene
 Concen: 9.16 ug/L
 RT: 9.944 min Scan# 3362
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

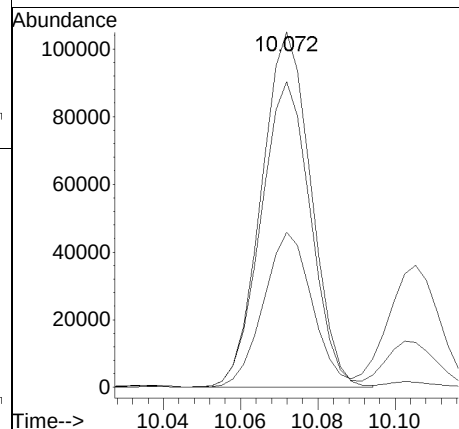
Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.0	32.3	48.5
148	65.6	49.9	74.9

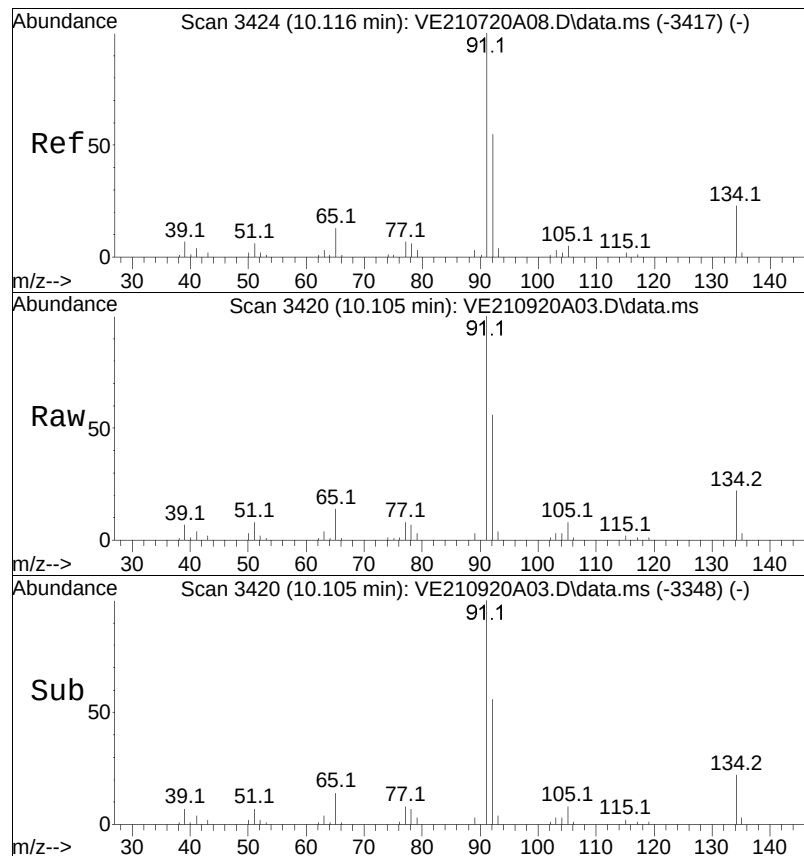




#102
 p-Diethylbenzene
 Concen: 9.16 ug/L
 RT: 10.072 min Scan# 3408
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

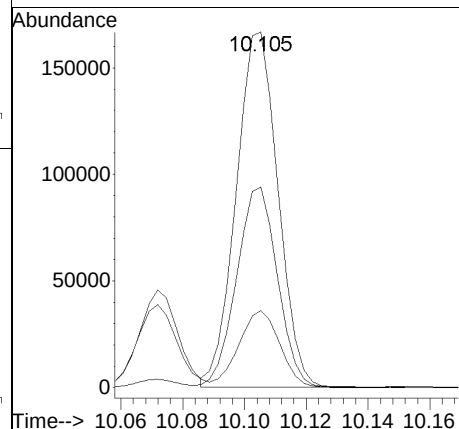
Tgt Ion:	119	Resp:	93746
Ion Ratio	Lower	Upper	
119	100		
105	86.6	59.5	123.7
134	43.0	30.2	62.6

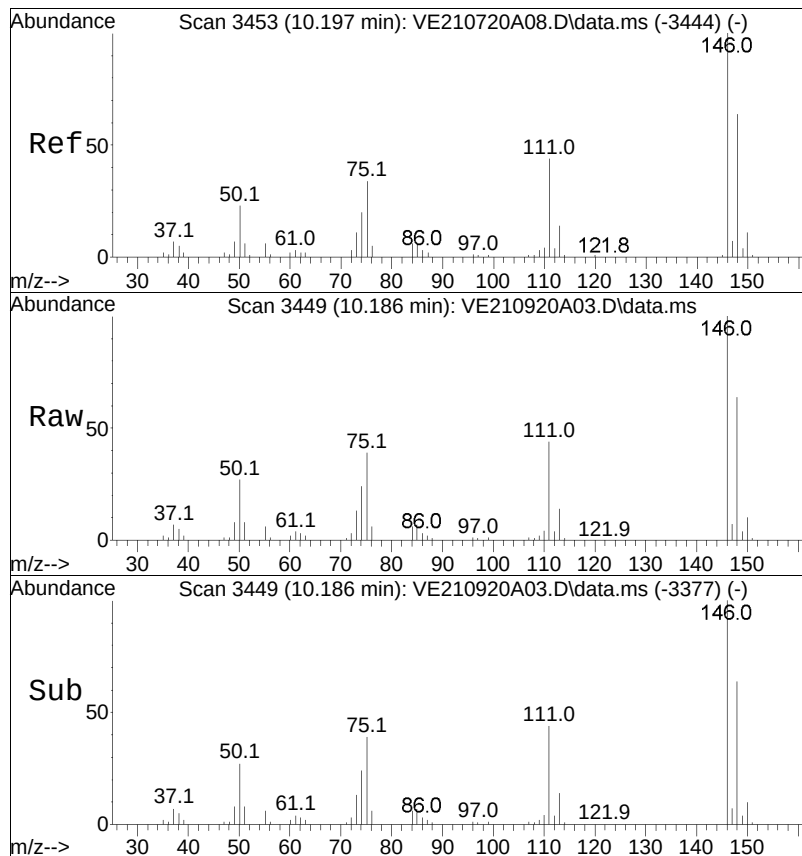




#103
 n-Butylbenzene
 Concen: 9.58 ug/L
 RT: 10.105 min Scan# 3420
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

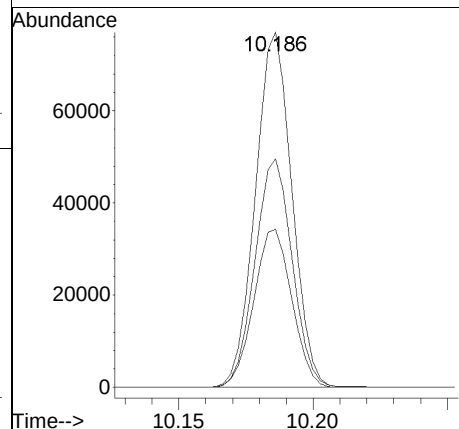
Tgt Ion:	91	Resp:	156681
Ion Ratio	Lower	Upper	
91	100		
92	55.1	43.0	64.4
134	21.2	19.6	29.4

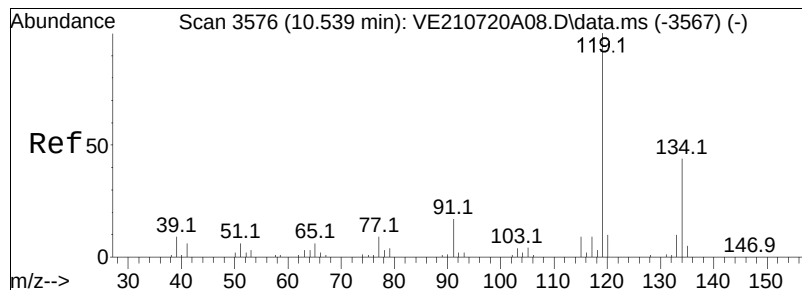




#104
 1,2-Dichlorobenzene
 Concen: 8.78 ug/L
 RT: 10.186 min Scan# 3449
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

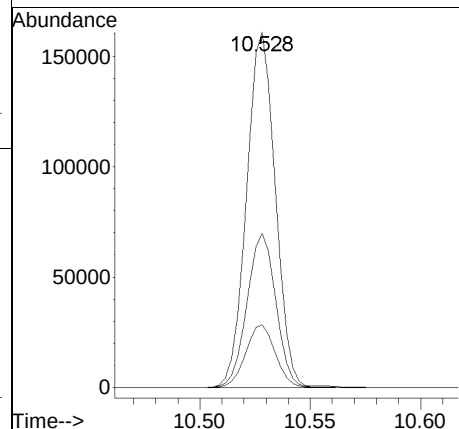
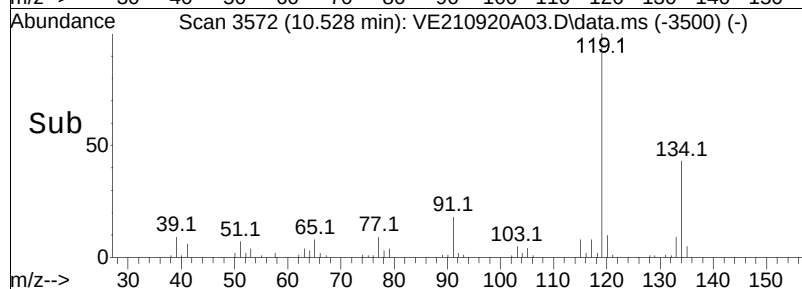
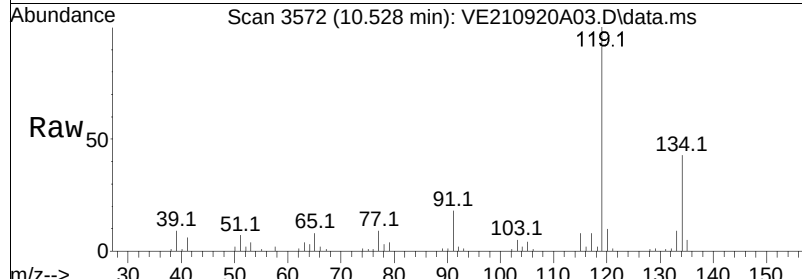
Tgt Ion:	146	Resp:	73070
Ion Ratio	Lower	Upper	
146	100		
111	46.2	28.3	58.7
148	65.6	42.3	87.8

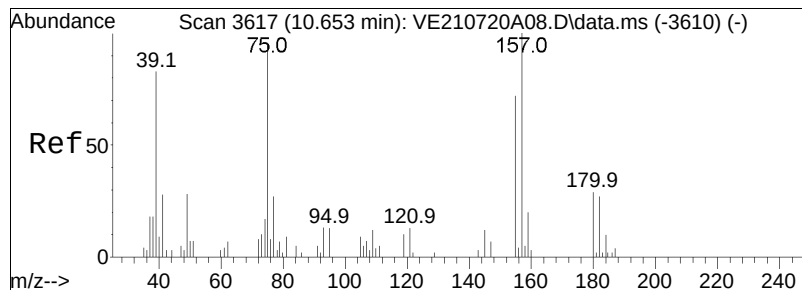




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 9.04 ug/L
 RT: 10.528 min Scan# 3572
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

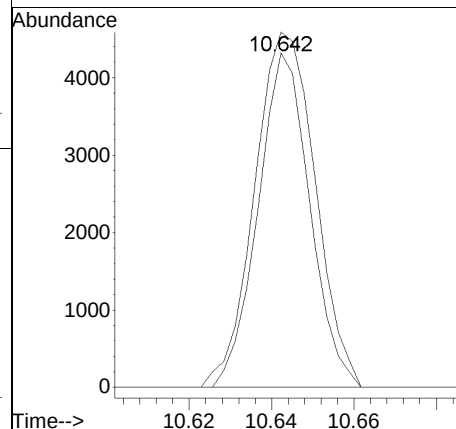
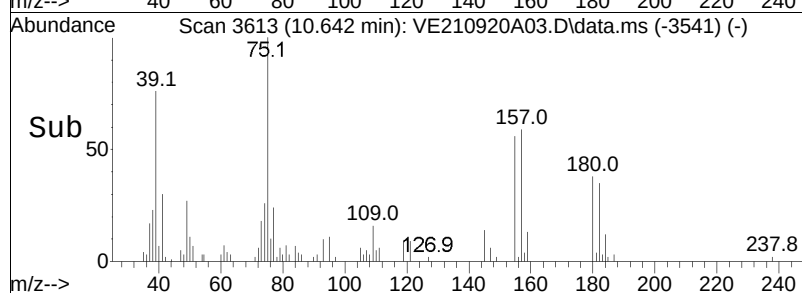
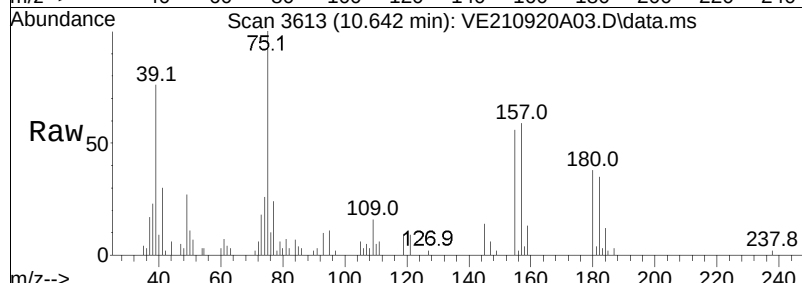
Tgt Ion:	119	Resp:	145971
Ion Ratio	Lower	Upper	
119	100		
134	43.4	30.5	63.3
91	18.0	12.4	25.7

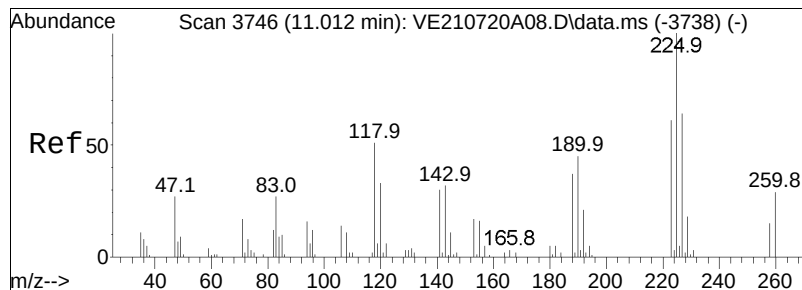




#106
 1,2-Dibromo-3-chloropropane
 Concen: 6.02 ug/L
 RT: 10.642 min Scan# 3613
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

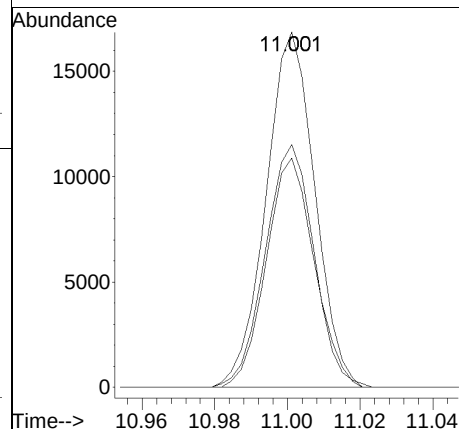
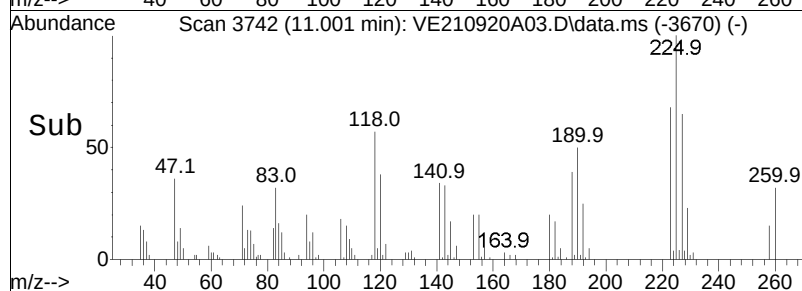
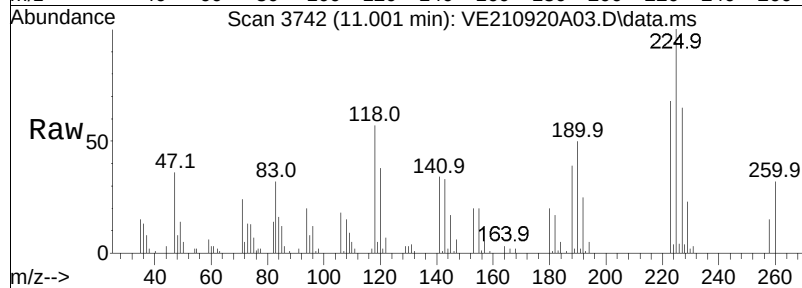
Tgt Ion	Ratio	Lower	Upper
155	100		
157	124.5	94.8	142.2

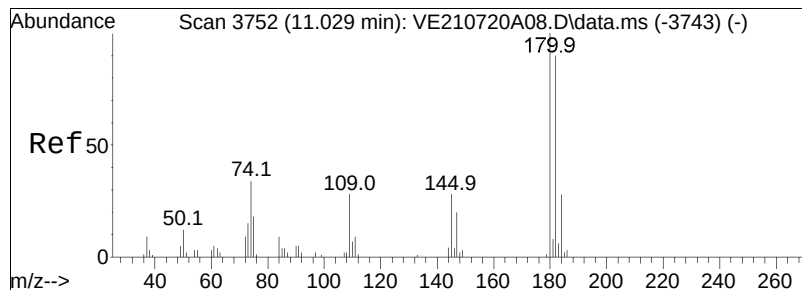




#108
 Hexachlorobutadiene
 Concen: 8.27 ug/L
 RT: 11.001 min Scan# 3742
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

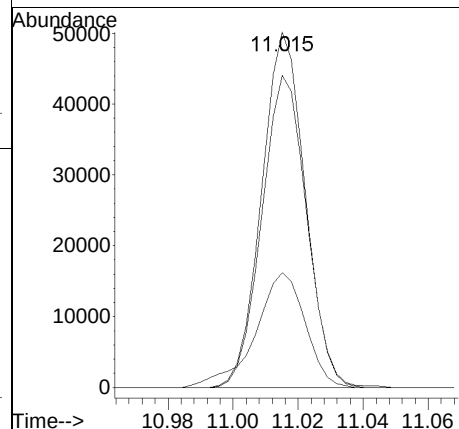
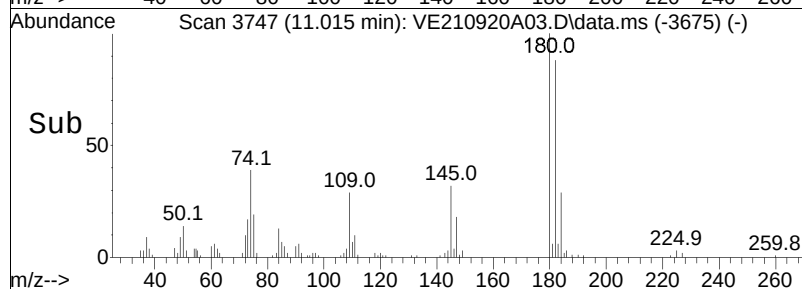
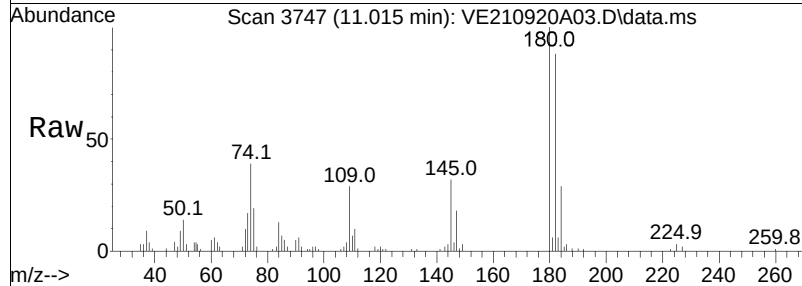
Tgt Ion	Ratio	Lower	Upper
225	100		
223	68.2	54.3	81.5
227	63.6	52.4	78.6

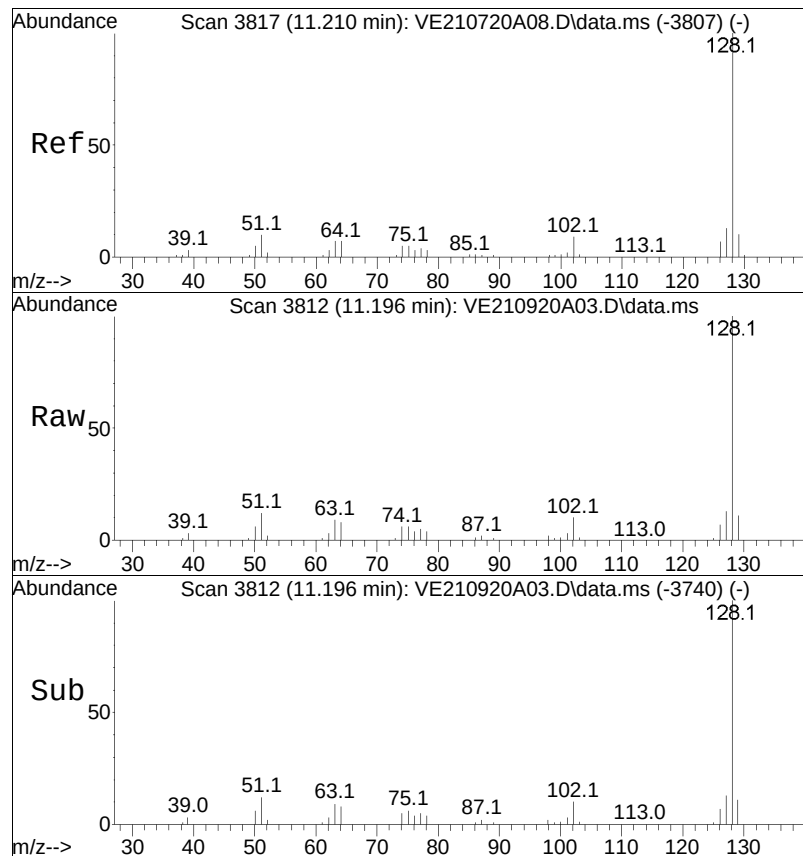




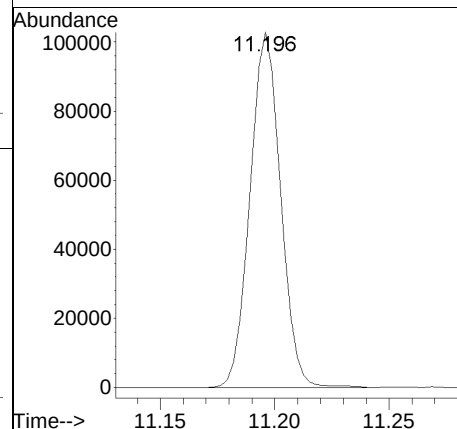
#109
 1,2,4-Trichlorobenzene
 Concen: 8.71 ug/L
 RT: 11.015 min Scan# 3747
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

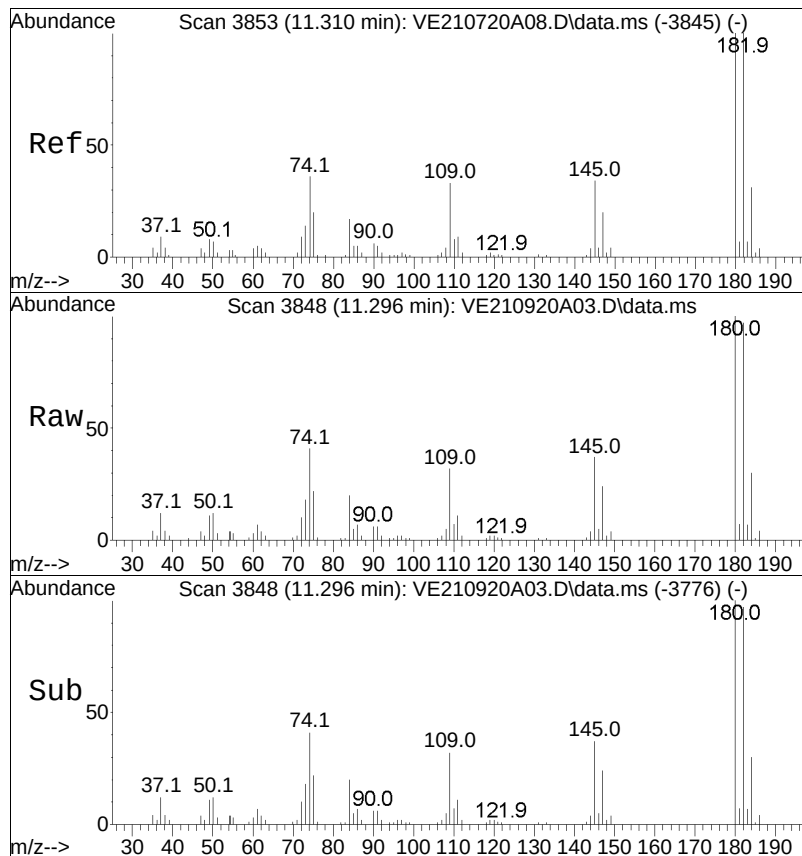
Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.7	77.3	115.9
145	36.9	28.1	42.1





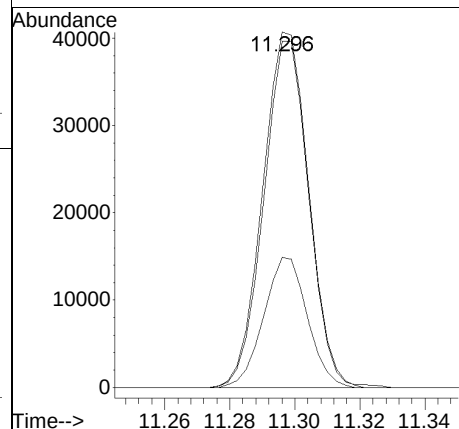
#110
 Naphthalene
 Concen: 7.25 ug/L
 RT: 11.196 min Scan# 3812
 Delta R.T. -0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am
 Tgt Ion:128 Resp: 95565





#111
 1,2,3-Trichlorobenzene
 Concen: 8.21 ug/L
 RT: 11.296 min Scan# 3848
 Delta R.T. 0.000 min
 Lab File: VE210920A03.D
 Acq: 20 Sep 2021 8:01 am

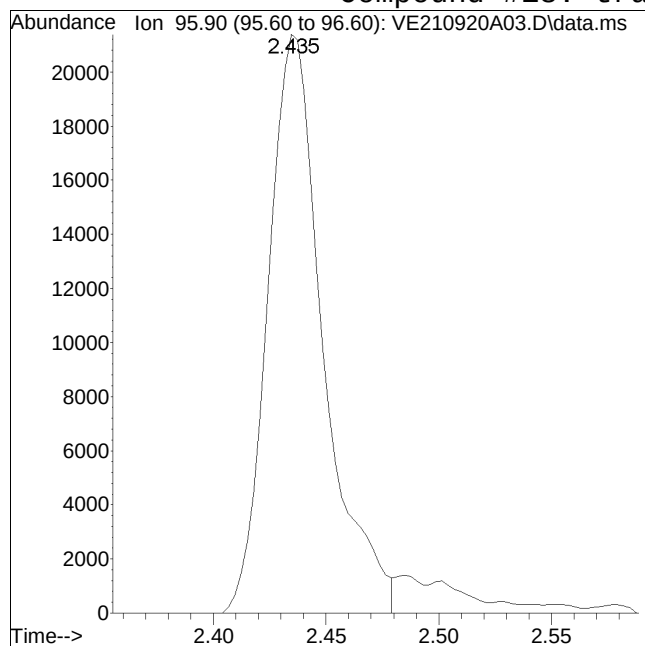
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.4	114.6
145	34.7	26.4	39.6



Manual Integration Report

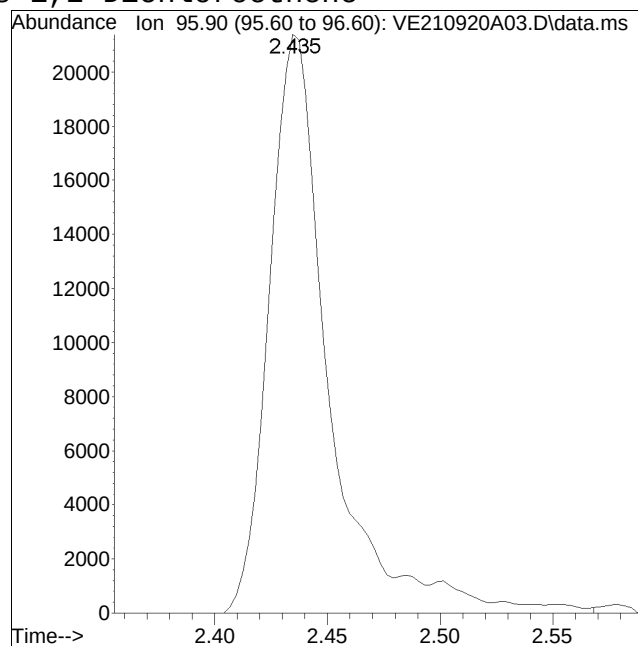
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A03.D Operator : ELAINE:NLK
Date Inj'd : 9/20/2021 8:01 am Instrument : Elaine
Sample : WG1548873-4,31,10,10 Quant Date : 9/20/2021 8:21 am

Compound #18: trans-1,2-Dichloroethene



Original Peak Response = 36460

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

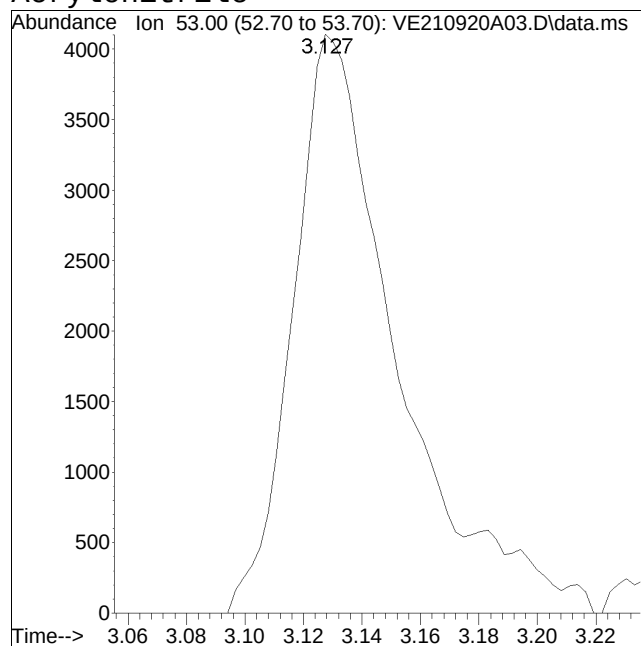
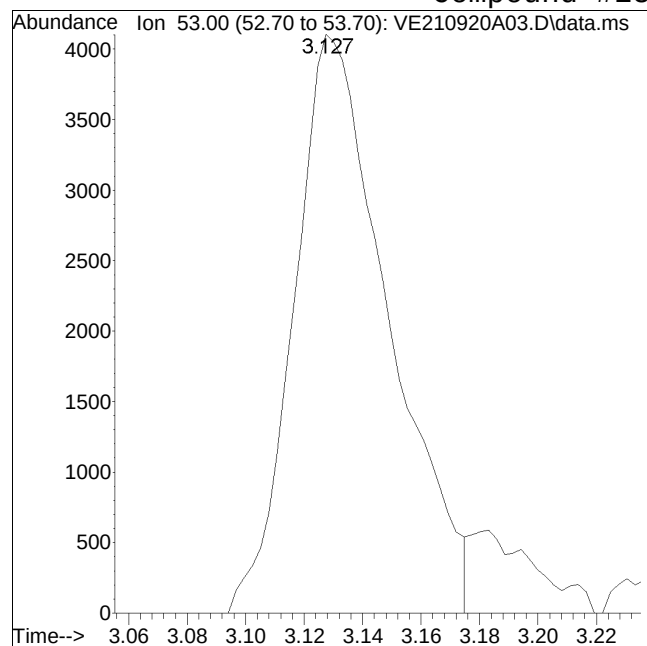


Manual Peak Response = 39752 M1

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A03.D Operator : ELAINE:NLK
Date Inj'd : 9/20/2021 8:01 am Instrument : Elaine
Sample : WG1548873-4,31,10,10 Quant Date : 9/20/2021 8:21 am

Compound #25: Acrylonitrile



Original Peak Response = 9196

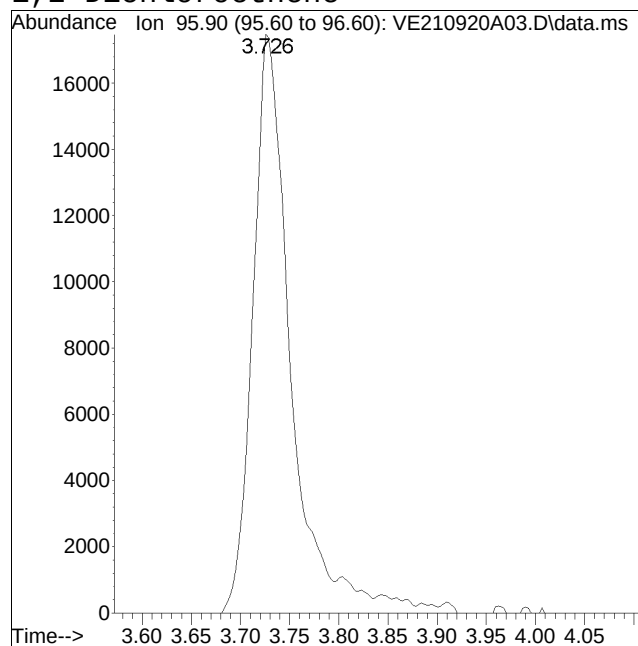
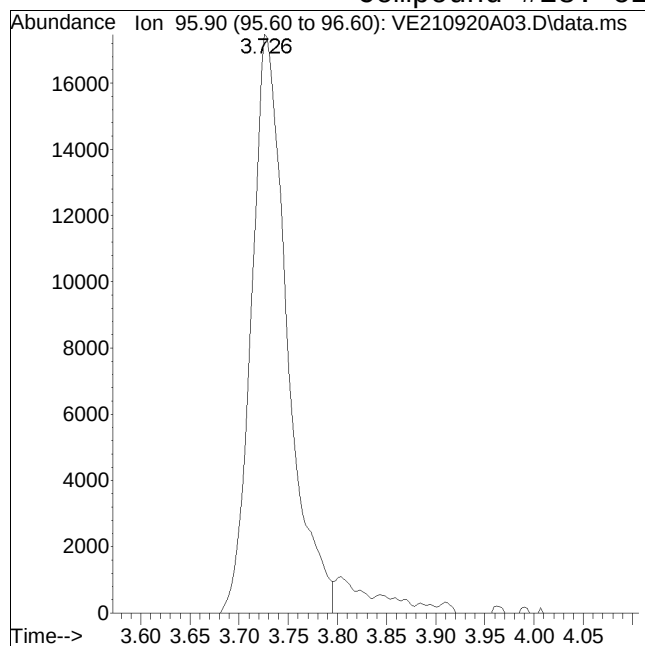
Manual Peak Response = 10097 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A03.D Operator : ELAINE:NLK
Date Inj'd : 9/20/2021 8:01 am Instrument : Elaine
Sample : WG1548873-4,31,10,10 Quant Date : 9/20/2021 8:21 am

Compound #28: cis-1,2-Dichloroethene



Original Peak Response = 43871

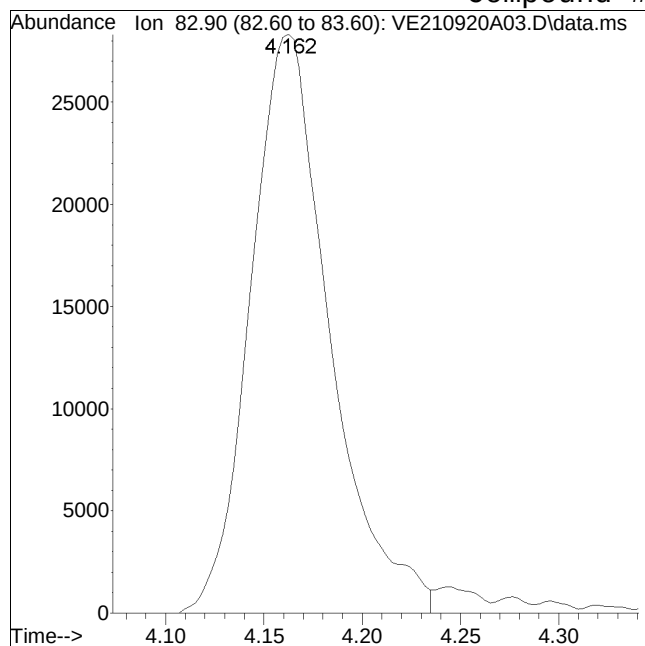
Manual Peak Response = 47649 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

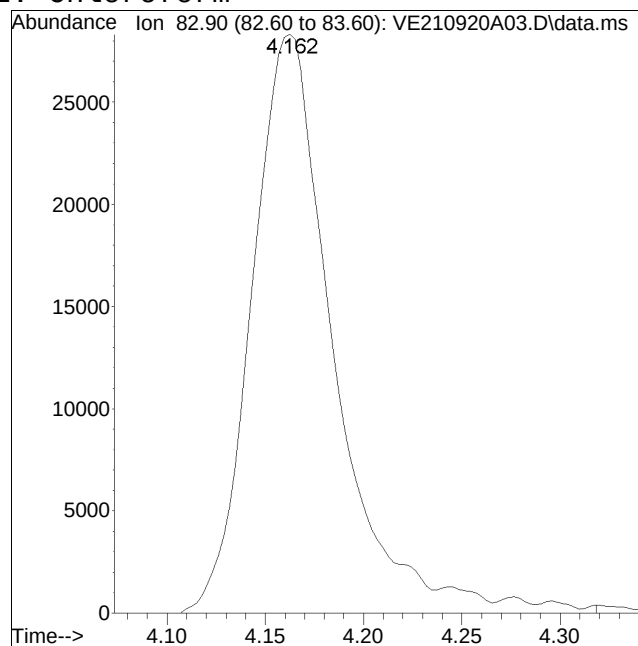
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A03.D Operator : ELAINE:NLK
Date Inj'd : 9/20/2021 8:01 am Instrument : Elaine
Sample : WG1548873-4,31,10,10 Quant Date : 9/20/2021 8:21 am

Compound #32: Chloroform



Original Peak Response = 79072

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

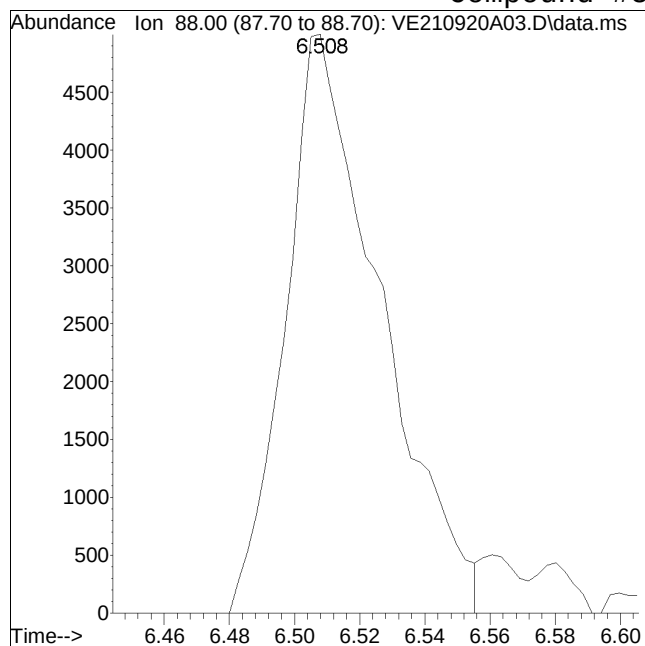


Manual Peak Response = 82505 M1

Manual Integration Report

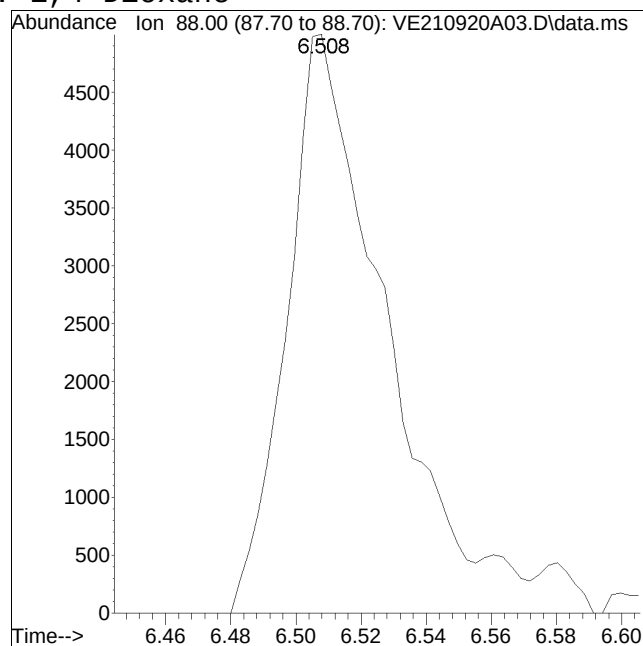
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A03.D Operator : ELAINE:NLK
Date Inj'd : 9/20/2021 8:01 am Instrument : Elaine
Sample : WG1548873-4,31,10,10 Quant Date : 9/20/2021 8:21 am

Compound #57: 1,4-Dioxane



Original Peak Response = 10072

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 10806 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A25.D
 Acq On : 20 Sep 2021 3:26 pm
 Operator : ELAINE:MKS
 Sample : WG1548873-6,31,10,10,,A1,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:34:21 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.406	96	252542	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery =	97.03%		
59) Chlorobenzene-d5	8.439	117	170524	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery =	97.92%		
79) 1,4-Dichlorobenzene-d4	9.935	152	83763	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery =	99.43%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.407	113	54181	9.418	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.18%		
43) 1,2-Dichloroethane-d4	5.058	65	78312	9.263	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.63%		
60) Toluene-d8	7.120	98	235100	10.026	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.26%		
83) 4-Bromofluorobenzene	9.265	95	96236	9.685	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.85%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.921	85	26950	6.147	ug/L	94
3) Chloromethane	1.038	50	45969	7.938	ug/L	100
4) Vinyl chloride	1.088	62	56876	10.540	ug/L #	31
5) Bromomethane	1.288	94	8610	3.059	ug/L	96
6) Chloroethane	1.369	64	41442	12.020	ug/L	93
7) Trichlorofluoromethane	1.461	101	58414	8.833	ug/L	94
8) Ethyl ether	1.689	74	22459M1	8.291	ug/L	
10) 1,1-Dichloroethene	1.817	96	33747	8.692	ug/L	97
11) Carbon disulfide	1.823	76	101728	9.627	ug/L	100
15) Methylene chloride	2.295	84	43654	8.604	ug/L	84
17) Acetone	2.348	43	9328	6.029	ug/L	97
18) trans-1,2-Dichloroethene	2.435	96	36340	8.541	ug/L	97
20) Methyl tert-butyl ether	2.551	73	101209	7.181	ug/L	96
23) 1,1-Dichloroethane	3.058	63	93433	9.268	ug/L	98
25) Acrylonitrile	3.133	53	9921M1	6.661	ug/L	
27) Vinyl acetate	3.417	43	94904	9.177	ug/L	99
28) cis-1,2-Dichloroethene	3.728	96	42918M1	8.601	ug/L	
29) 2,2-Dichloropropane	3.862	77	67779M1	8.912	ug/L	
30) Bromochloromethane	4.001	128	15164M1	7.957	ug/L	
32) Chloroform	4.160	83	73416	8.290	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A25.D
 Acq On : 20 Sep 2021 3:26 pm
 Operator : ELAINE:MKS
 Sample : WG1548873-6,31,10,10,,A1,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:34:21 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
34)	Carbon tetrachloride	4.279	117	45825	7.667	ug/L		96
37)	1,1,1-Trichloroethane	4.379	97	64501	8.360	ug/L	#	95
39)	2-Butanone	4.602	43	13851M1	6.908	ug/L		
40)	1,1-Dichloropropene	4.560	75	58693	9.347	ug/L		98
41)	Benzene	4.872	78	171548	8.824	ug/L		97
44)	1,2-Dichloroethane	5.142	62	61139	7.687	ug/L		100
48)	Trichloroethene	5.598	95	41576	8.755	ug/L		87
50)	Dibromomethane	6.057	93	19196	7.033	ug/L		93
51)	1,2-Dichloropropane	6.168	63	50192	9.007	ug/L	#	93
54)	Bromodichloromethane	6.282	83	49205	7.039	ug/L		99
57)	1,4-Dioxane	6.511	88	11146	325.543	ug/L		97
58)	cis-1,3-Dichloropropene	6.945	75	59406	7.558	ug/L		96
61)	Toluene	7.170	92	104679	8.670	ug/L		94
62)	4-Methyl-2-pentanone	7.587	58	14219	8.397	ug/L		96
63)	Tetrachloroethene	7.529	166	34278	8.493	ug/L		97
65)	trans-1,3-Dichloropropene	7.607	75	49995	7.139	ug/L		92
68)	1,1,2-Trichloroethane	7.740	83	24809	7.837	ug/L		99
69)	Chlorodibromomethane	7.877	129	25479	6.426	ug/L		98
70)	1,3-Dichloropropane	7.955	76	54633	7.629	ug/L		98
71)	1,2-Dibromoethane	8.035	107	25361	7.182	ug/L		99
72)	2-Hexanone	8.283	43	20277	6.387	ug/L		97
73)	Chlorobenzene	8.450	112	98642	8.267	ug/L		97
74)	Ethylbenzene	8.492	91	197879	8.796	ug/L		97
75)	1,1,1,2-Tetrachloroethane	8.511	131	27988	6.721	ug/L		93
76)	p/m Xylene	8.600	106	140148	17.546	ug/L		91
77)	o Xylene	8.884	106	132991	17.409	ug/L		97
78)	Styrene	8.923	104	227769	16.946	ug/L		94
80)	Bromoform	8.928	173	13325	5.762	ug/L		97
82)	Isopropylbenzene	9.095	105	180198	8.579	ug/L		100
84)	Bromobenzene	9.318	156	35498	7.708	ug/L		96
85)	n-Propylbenzene	9.357	91	225938	8.969	ug/L		98
87)	1,1,2,2-Tetrachloroethane	9.412	83	32800	7.689	ug/L		98
88)	4-Ethyltoluene	9.426	105	168589	8.512	ug/L		99
89)	2-Chlorotoluene	9.440	91	154286	8.424	ug/L		94
90)	1,3,5-Trimethylbenzene	9.482	105	141170	8.051	ug/L		96
91)	1,2,3-Trichloropropane	9.482	75	28638	7.411	ug/L		92
92)	trans-1,4-Dichloro-2-b...	9.515	53	8751	5.407	ug/L	#	86
93)	4-Chlorotoluene	9.543	91	140062	8.375	ug/L		95
94)	tert-Butylbenzene	9.666	119	117422	8.302	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A25.D
 Acq On : 20 Sep 2021 3:26 pm
 Operator : ELAINE:MKS
 Sample : WG1548873-6,31,10,10,,A1,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:34:21 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	9.710	105	142193	8.200	ug/L	98
98)	sec-Butylbenzene	9.771	105	179208	8.374	ug/L	98
99)	p-Isopropyltoluene	9.860	119	140882	8.004	ug/L	98
100)	1,3-Dichlorobenzene	9.891	146	69255	8.004	ug/L	97
101)	1,4-Dichlorobenzene	9.944	146	68616	7.886	ug/L	94
102)	p-Diethylbenzene	10.072	119	80811	7.969	ug/L	96
103)	n-Butylbenzene	10.105	91	134433	8.291	ug/L	97
104)	1,2-Dichlorobenzene	10.183	146	64448	7.819	ug/L	96
105)	1,2,4,5-Tetramethylben...	10.528	119	119648	7.479	ug/L	98
106)	1,2-Dibromo-3-chloropr...	10.642	155	3579	5.760	ug/L	89
108)	Hexachlorobutadiene	11.001	225	12906	6.843	ug/L	97
109)	1,2,4-Trichlorobenzene	11.015	180	38191	7.217	ug/L	96
110)	Naphthalene	11.196	128	93751	7.175	ug/L	100
111)	1,2,3-Trichlorobenzene	11.296	180	33712	6.982	ug/L	97

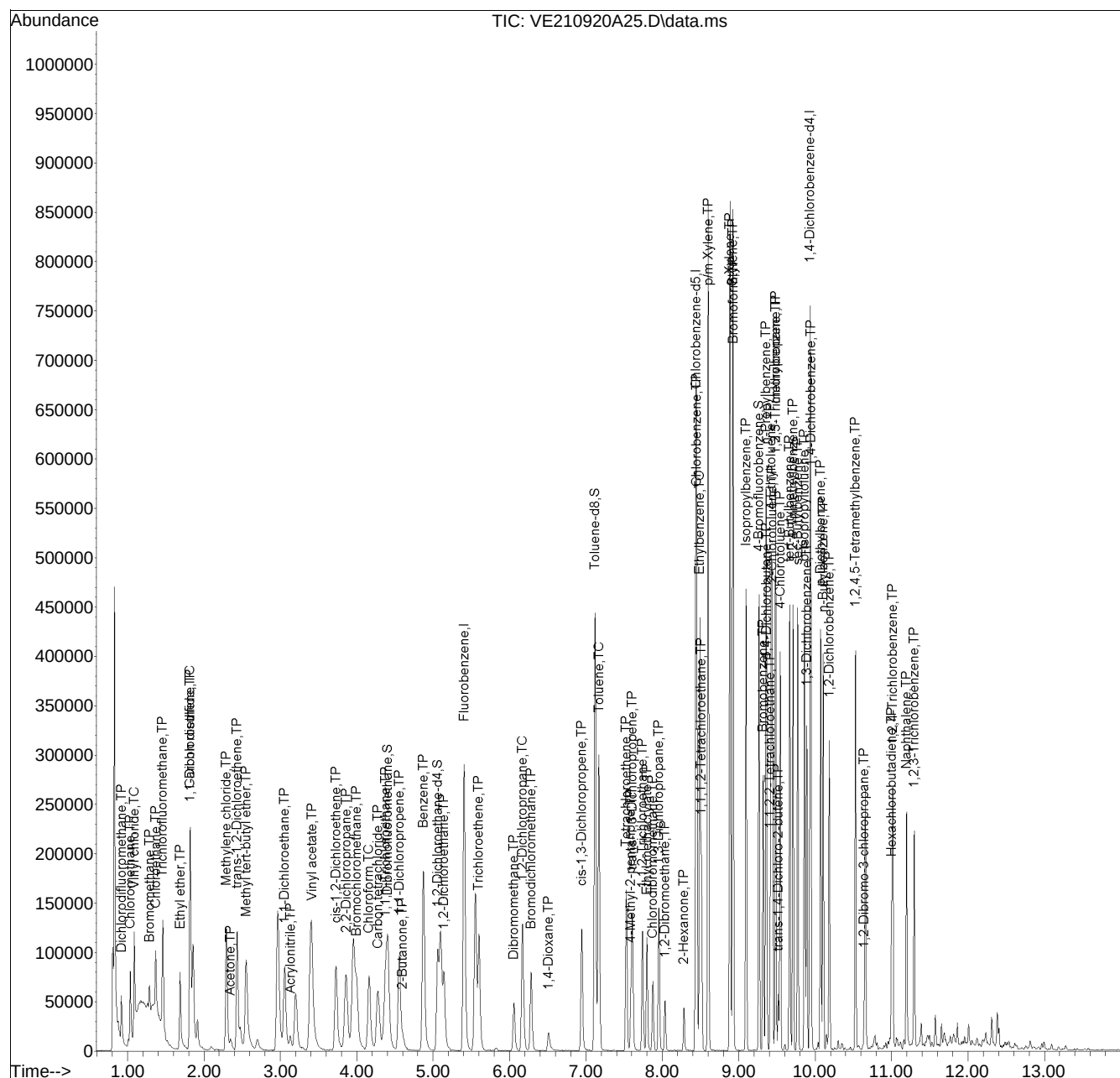
(#) = qualifier out of range (m) = manual integration (+) = signals summed

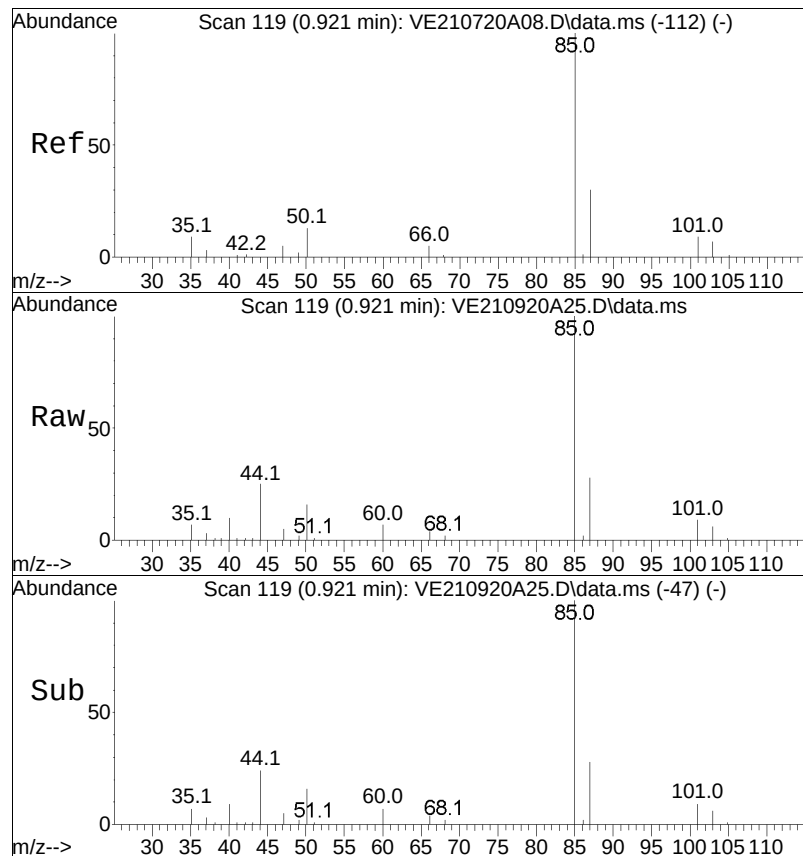
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A25.D
 Acq On : 20 Sep 2021 3:26 pm
 Operator : ELAINE:MKS
 Sample : WG1548873-6, 31, 10, 10, , A1, PRI
 Misc : WG1548873, ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:34:21 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

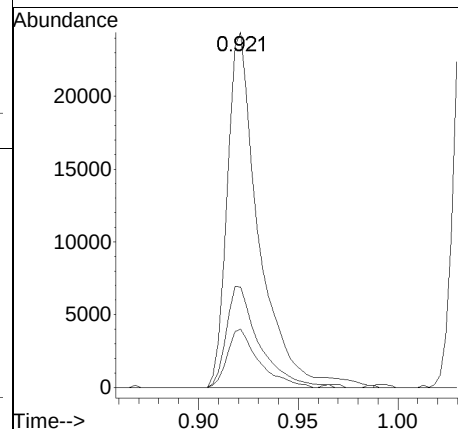
Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•

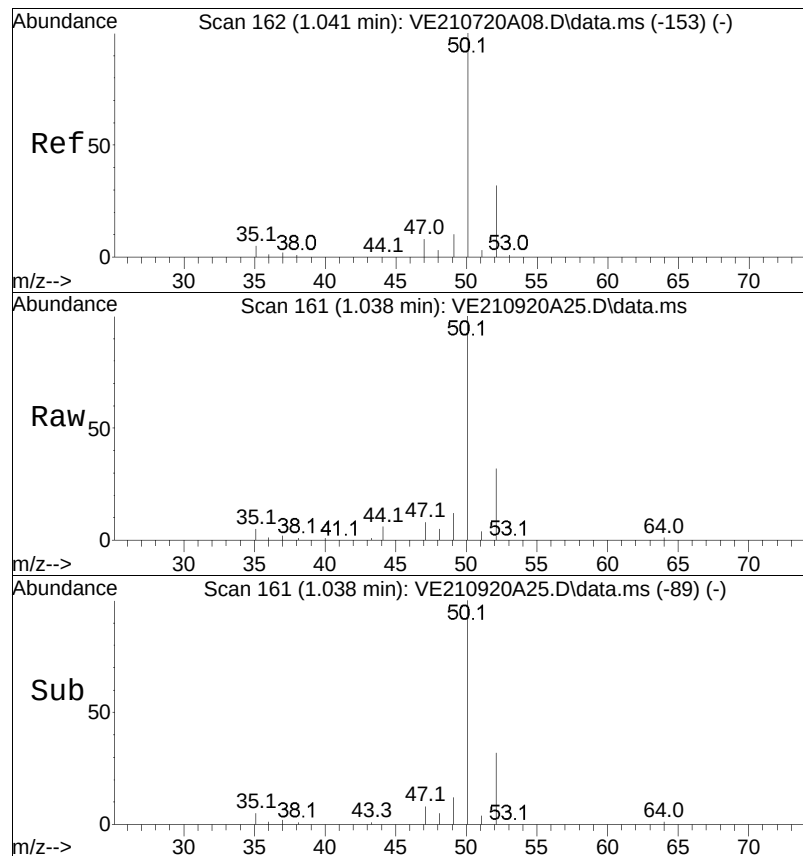




#2
 Dichlorodifluoromethane
 Concen: 6.15 ug/L
 RT: 0.921 min Scan# 119
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

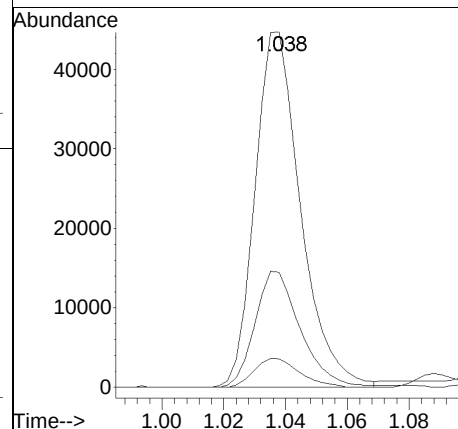
Tgt Ion	Ratio	Lower	Upper
85	100		
87	29.4	21.0	43.6
50	16.4	8.9	18.5

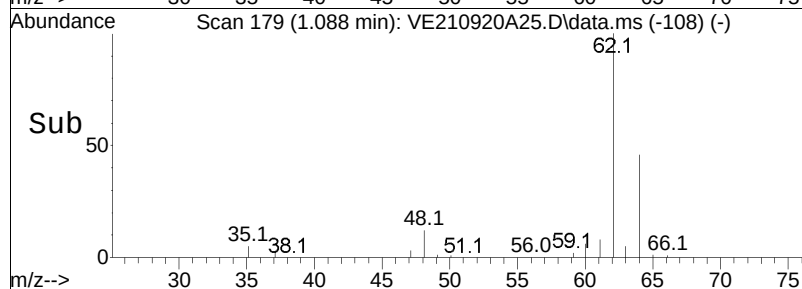
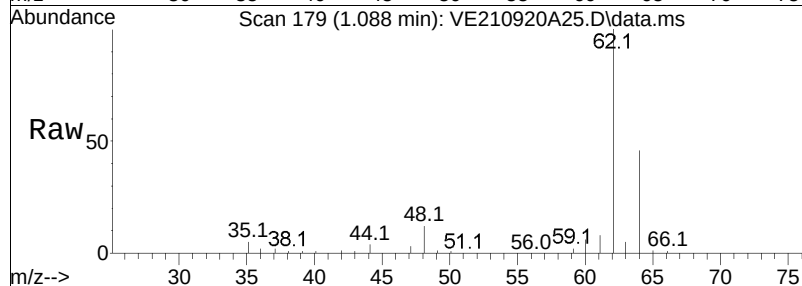
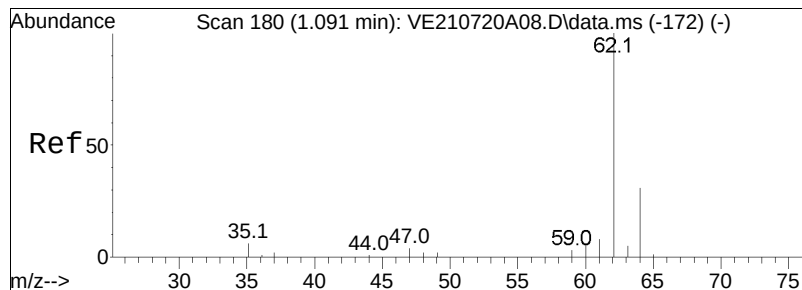




#3
 Chloromethane
 Concen: 7.94 ug/L
 RT: 1.038 min Scan# 161
 Delta R.T. -0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

Tgt	Ion: 50	Resp:	45969
Ion	Ratio	Lower	Upper
50	100		
52	33.0	12.9	52.9
47	8.2	0.0	28.3





#4

Vinyl chloride

Concen: 10.54 ug/L

RT: 1.088 min Scan# 179

Delta R.T. -0.003 min

Lab File: VE210920A25.D

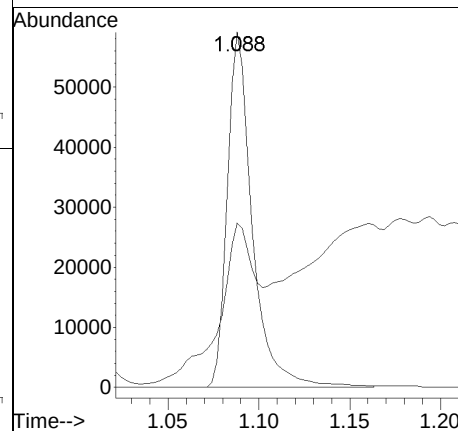
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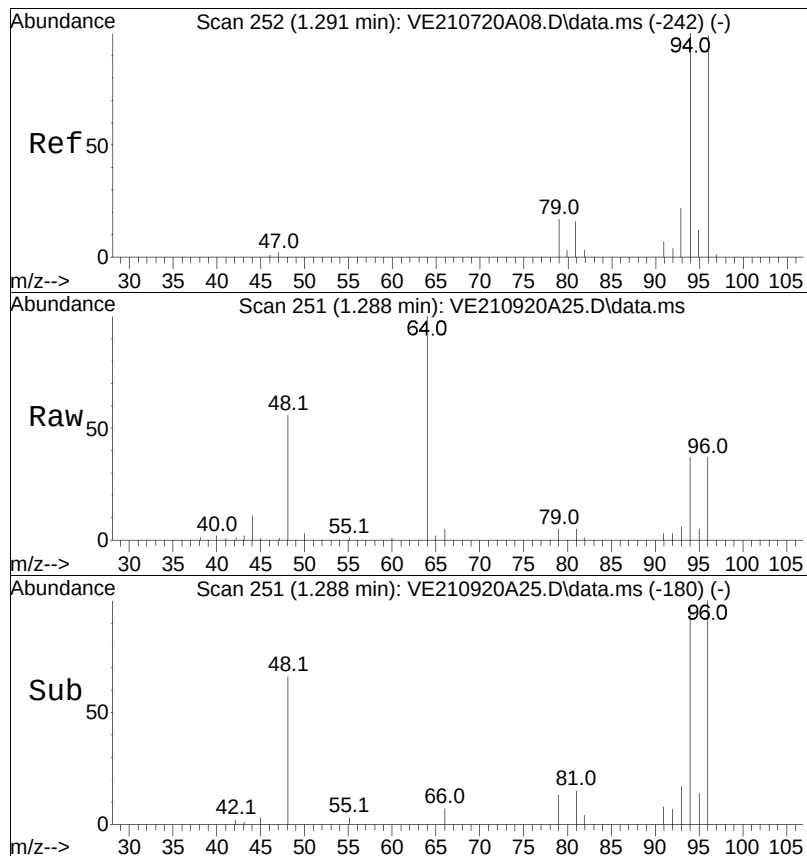
Tgt Ion: 62 Resp: 56876

Ion Ratio Lower Upper

62 100

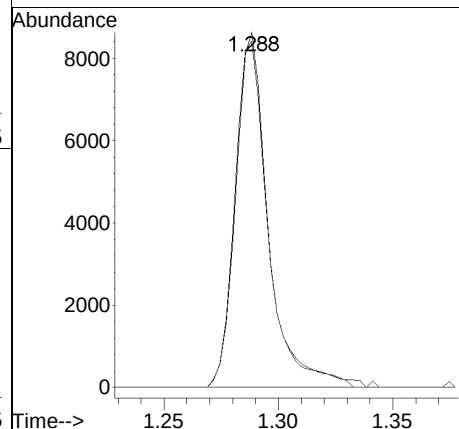
64 66.1 9.1 49.1#

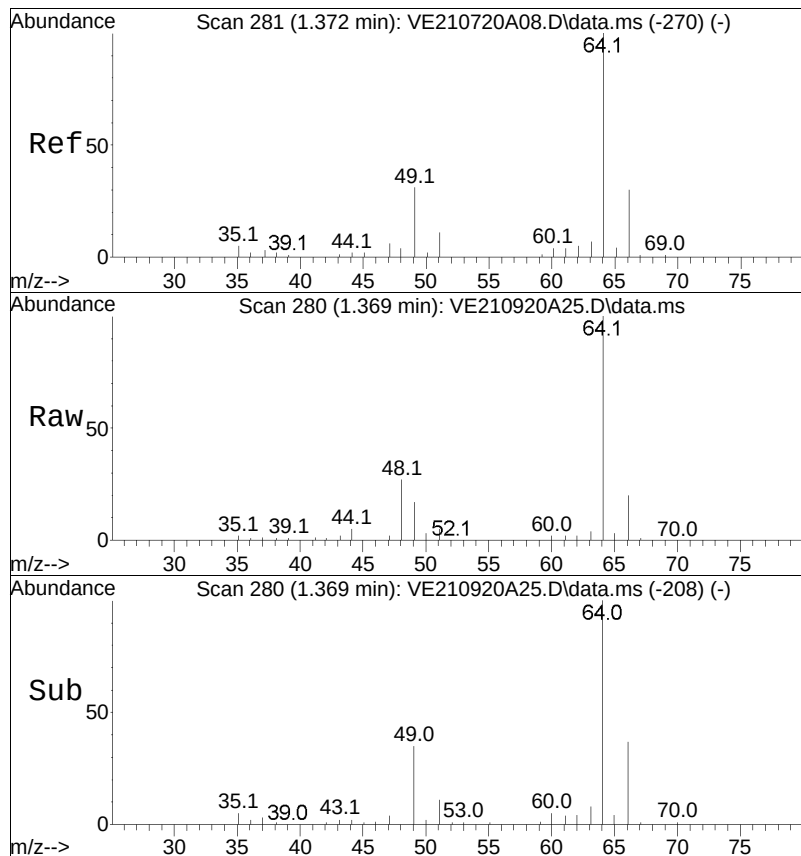




#5
 Bromomethane
 Concen: 3.06 ug/L
 RT: 1.288 min Scan# 251
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

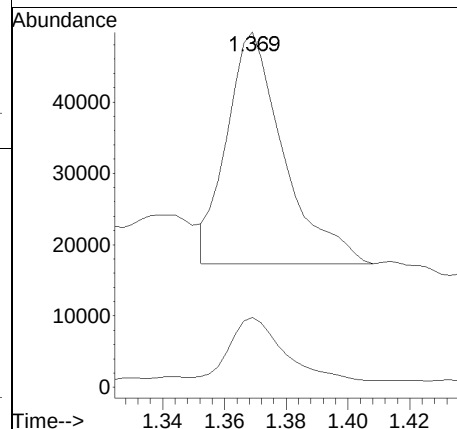
Tgt Ion	Ratio	Lower	Upper
94	100		
96	99.6	75.6	115.6

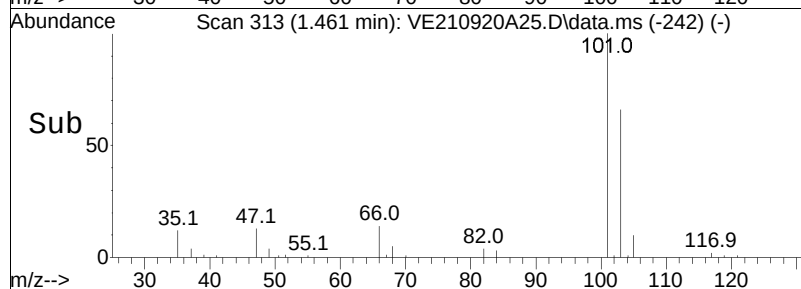
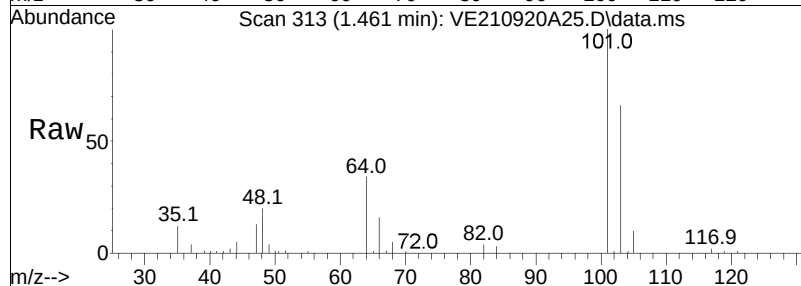
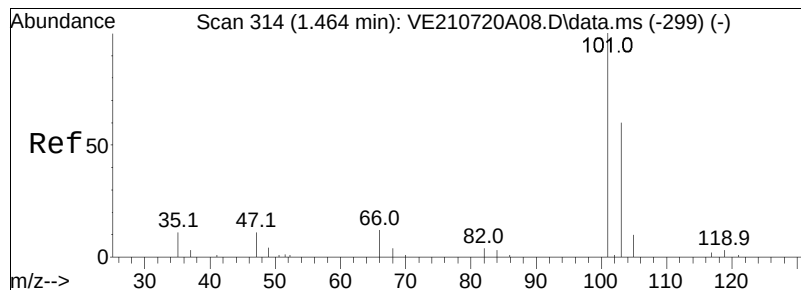




#6
 Chloroethane
 Concen: 12.02 ug/L
 RT: 1.369 min Scan# 280
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

Tgt	Ion	Ratio	Lower	Upper
64	100			
66	26.0	9.8	49.8	





#7

Trichlorofluoromethane

Concen: 8.83 ug/L

RT: 1.461 min Scan# 313

Delta R.T. -0.003 min

Lab File: VE210920A25.D

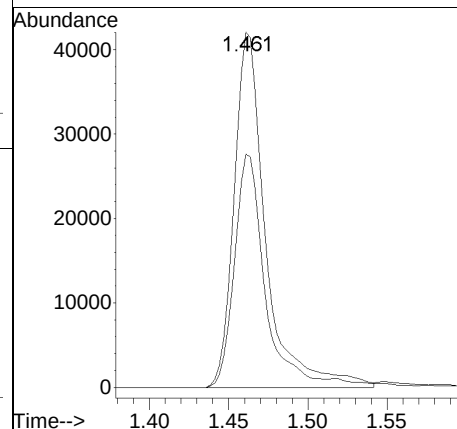
Acq: 20 Sep 2021 3:26 pm

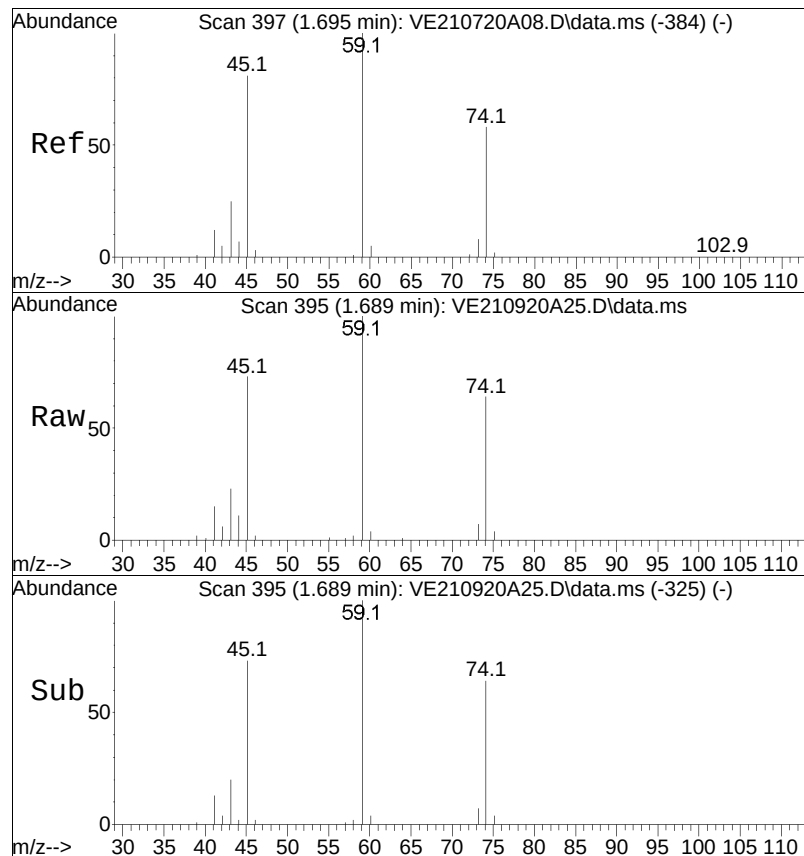
Tgt Ion:101 Resp: 58414

Ion Ratio Lower Upper

101 100

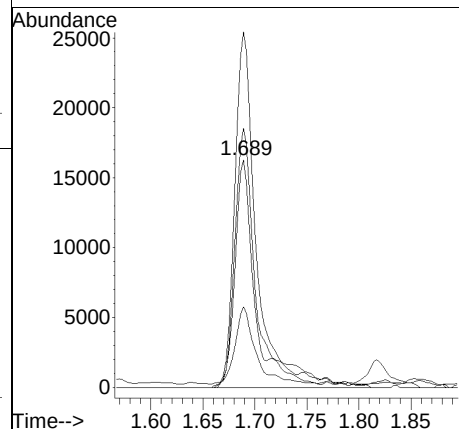
103 62.5 53.8 80.6

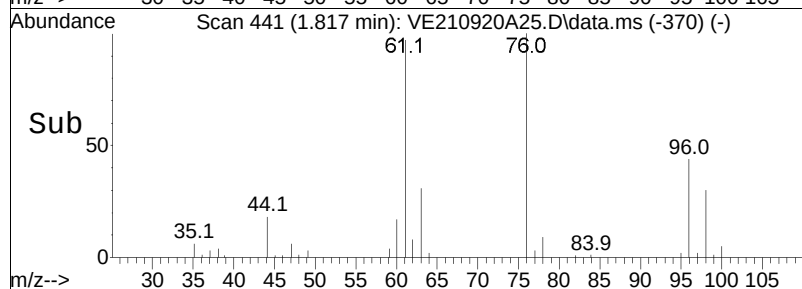
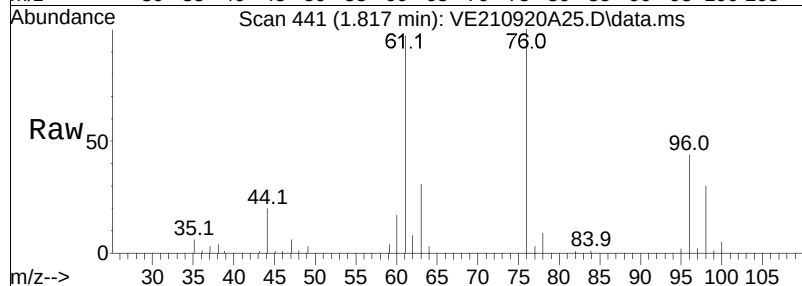
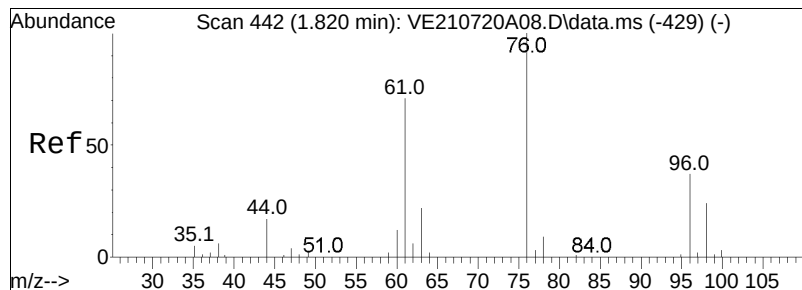




#8
 Ethyl ether
 Concen: 8.29 ug/L M1
 RT: 1.689 min Scan# 395
 Delta R.T. -0.006 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

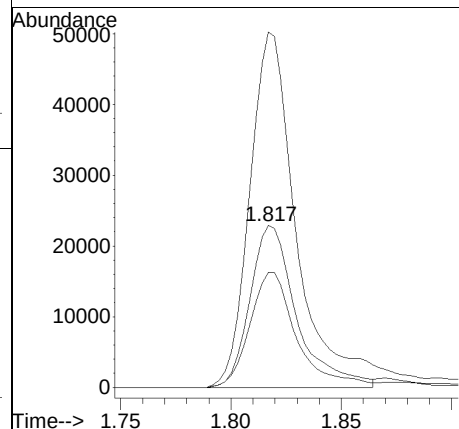
Tgt Ion:	74	Resp:	22459
Ion Ratio	Lower	Upper	
74	100		
59	164.0	122.2	253.8
45	113.3	91.9	190.9
43	34.7	25.2	52.2

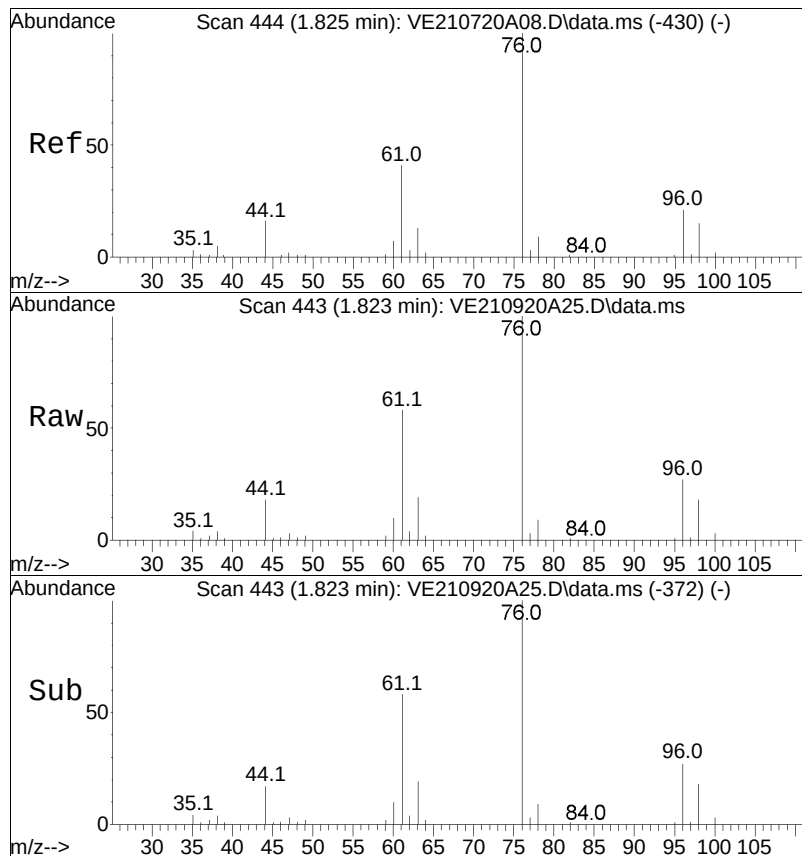




#10
 1,1-Dichloroethene
 Concen: 8.69 ug/L
 RT: 1.817 min Scan# 441
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

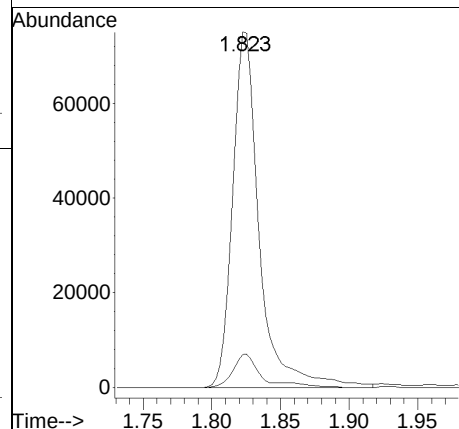
Tgt Ion:	96	Resp:	33747
Ion Ratio	Lower	Upper	
96	100		
61	226.6	186.1	279.1
63	70.9	57.6	86.4

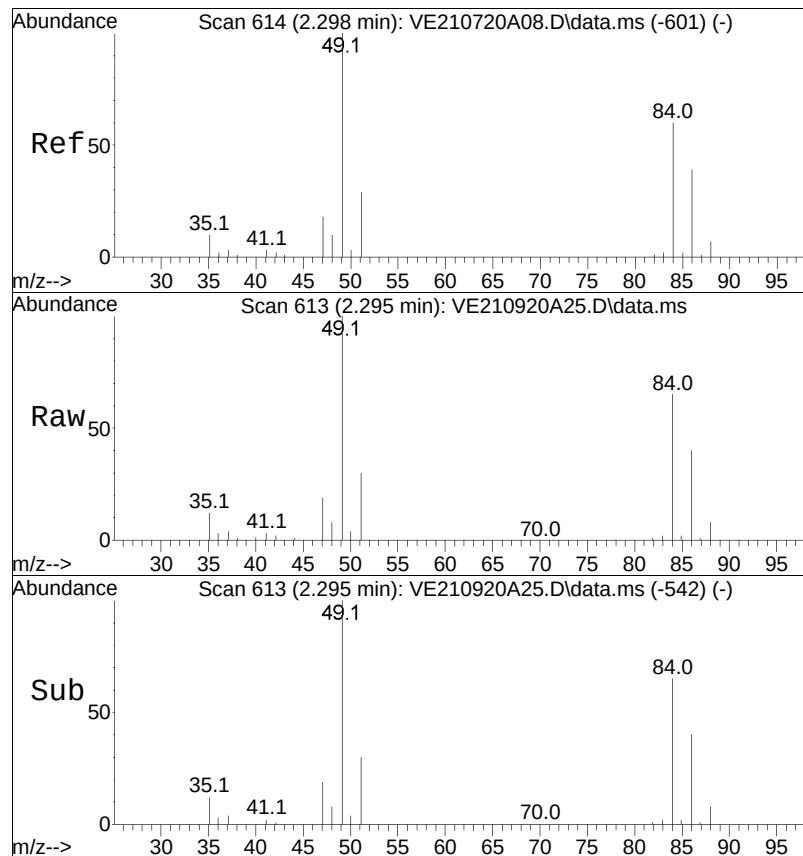




#11
 Carbon disulfide
 Concen: 9.63 ug/L
 RT: 1.823 min Scan# 443
 Delta R.T. -0.002 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

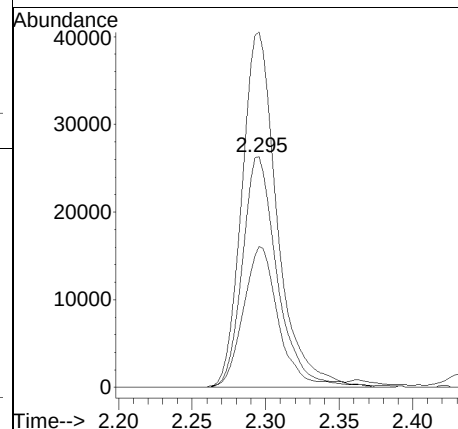
Tgt Ion	Ratio	Lower	Upper
76	100		
78	8.7	5.7	11.7

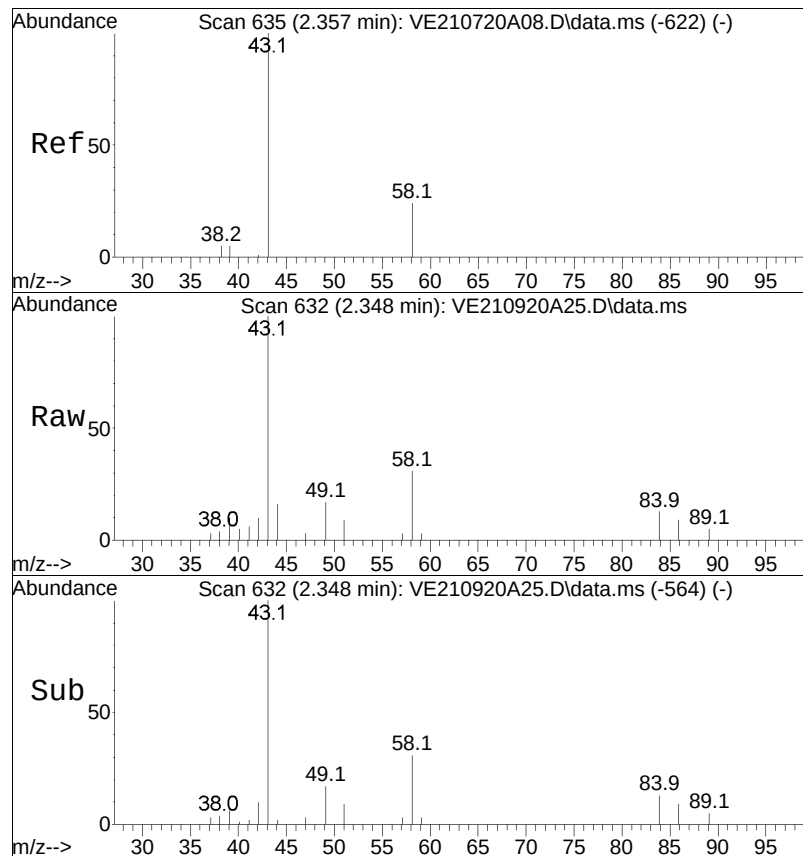




#15
Methylene chloride
Concen: 8.60 ug/L
RT: 2.295 min Scan# 613
Delta R.T. -0.003 min
Lab File: VE210920A25.D
Acq: 20 Sep 2021 3:26 pm

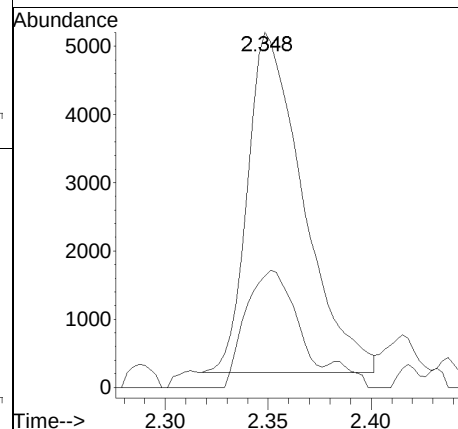
Tgt Ion:	84	Resp:	43654
Ion Ratio	Lower	Upper	
84	100		
86	61.4	40.4	83.8
49	154.8	120.0	249.2

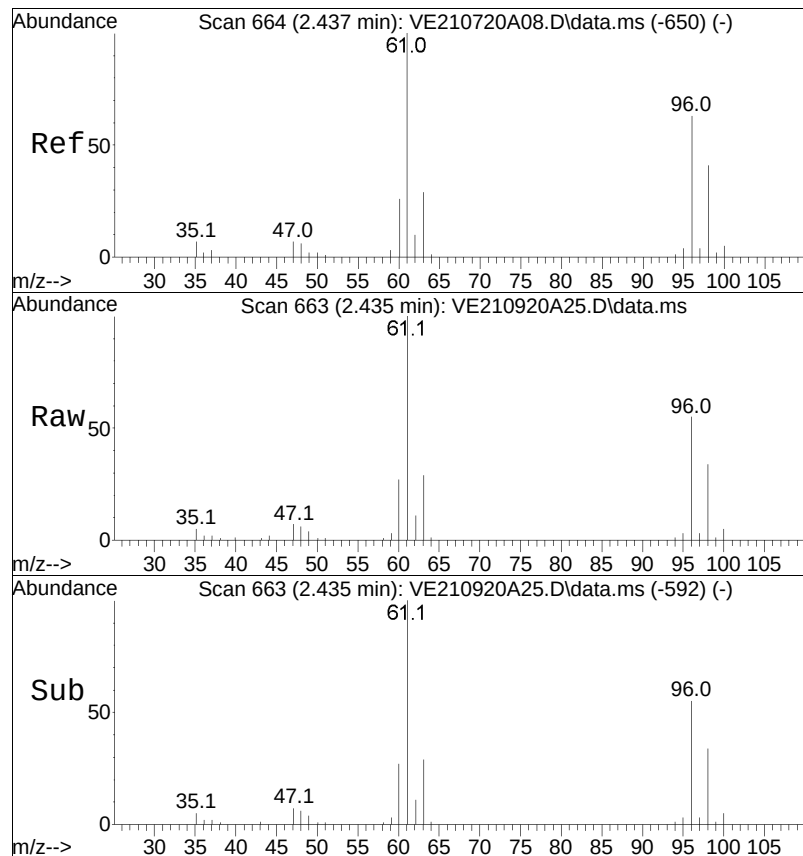




#17
 Acetone
 Concen: 6.03 ug/L
 RT: 2.348 min Scan# 632
 Delta R.T. -0.012 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

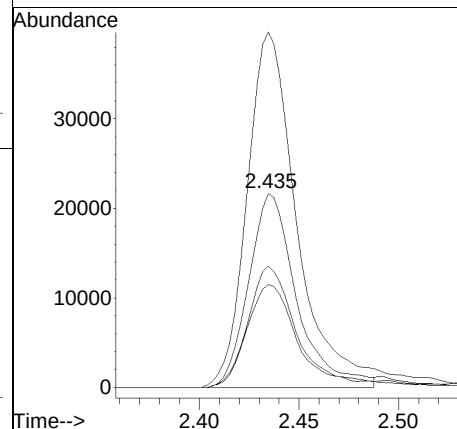
Tgt Ion:	43	58	Ratio	Lower	Upper
Resp:	9328				
Ion Ratio	100	31.7			
			24.2	36.4	

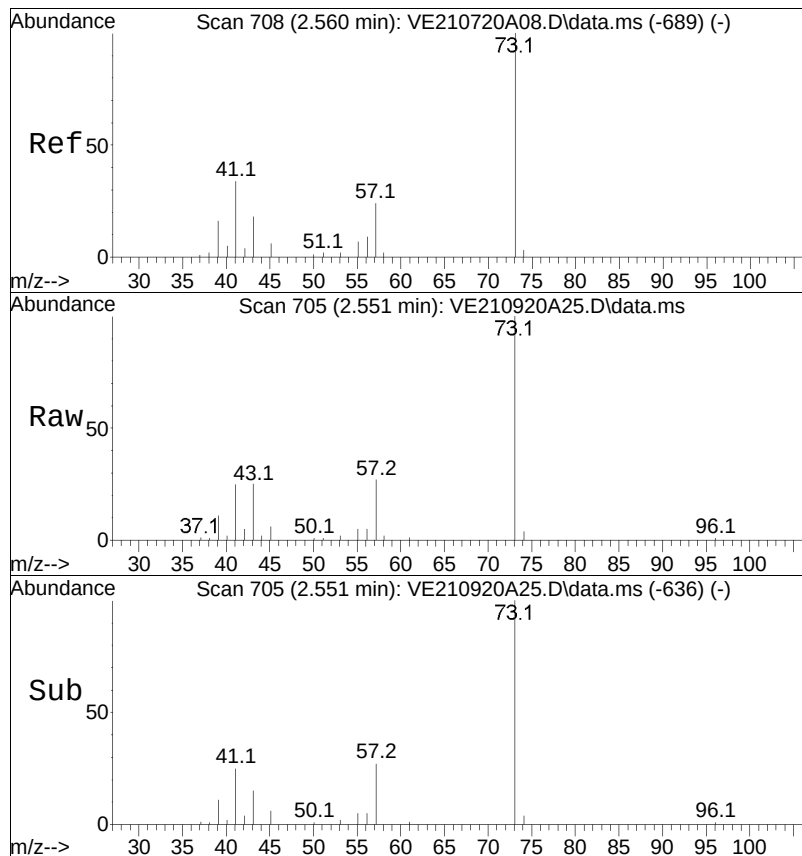




#18
 trans-1,2-Dichloroethene
 Concen: 8.54 ug/L
 RT: 2.435 min Scan# 663
 Delta R.T. -0.002 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

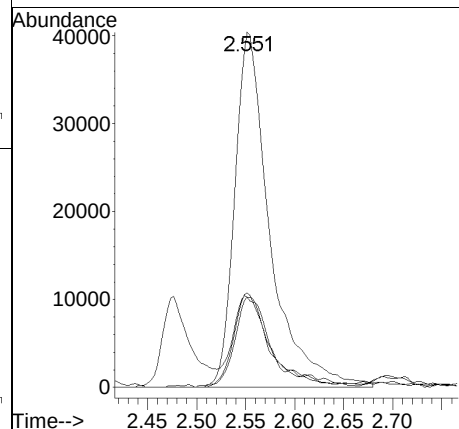
Tgt Ion:	96	Resp:	36340
Ion Ratio	Lower	Upper	
96	100		
61	196.7	124.0	257.6
98	63.5	41.2	85.6
63	54.9	38.4	79.7

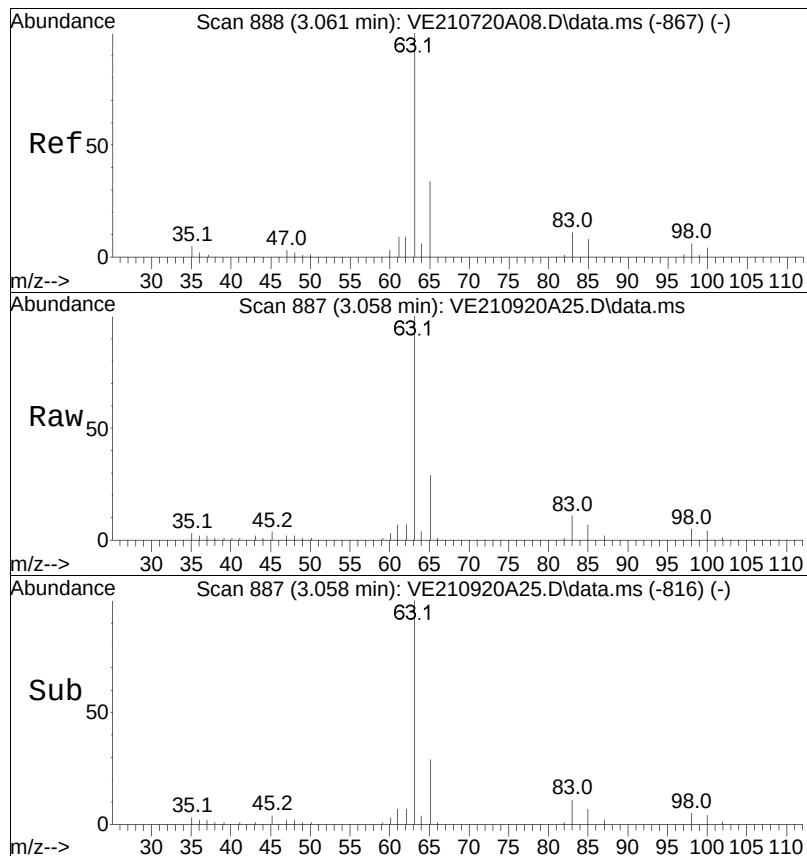




#20
Methyl tert-butyl ether
Concen: 7.18 ug/L
RT: 2.551 min Scan# 705
Delta R.T. -0.009 min
Lab File: VE210920A25.D
Acq: 20 Sep 2021 3:26 pm

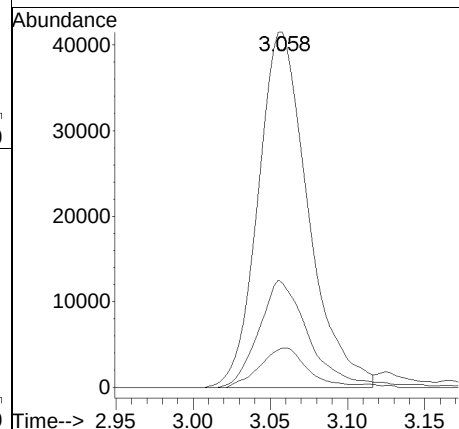
Tgt Ion:	73	Resp:	101209
Ion Ratio	Lower	Upper	
73	100		
57	23.9	17.5	36.3
43	21.6	15.3	31.9
41	24.2	15.3	31.7

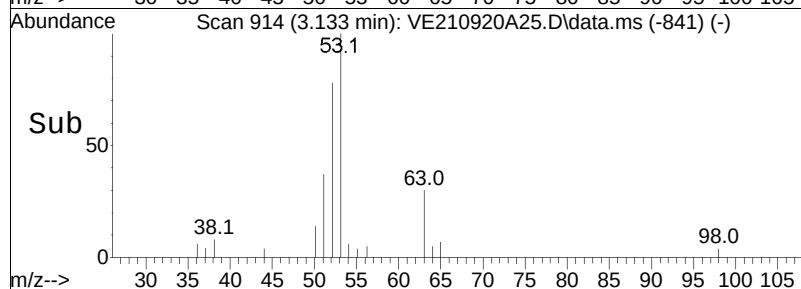
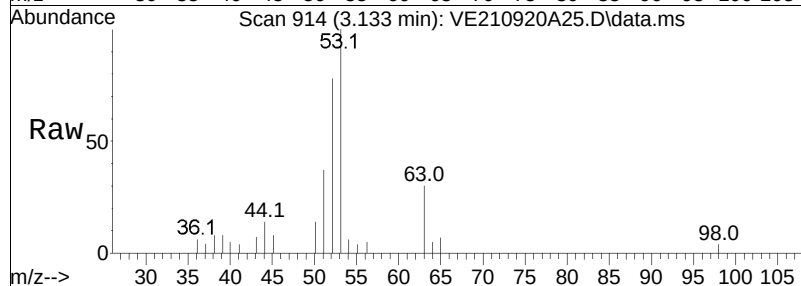
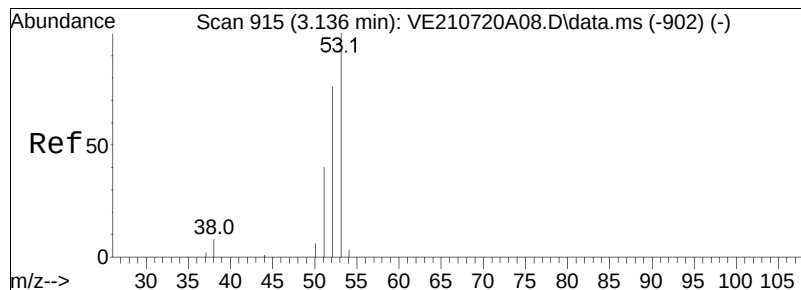




#23
 1,1-Dichloroethane
 Concen: 9.27 ug/L
 RT: 3.058 min Scan# 887
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

Tgt Ion:	63	Resp:	93433
Ion Ratio	Lower	Upper	
63	100		
65	30.3	11.0	51.0
83	10.5	0.0	31.8





#25

Acrylonitrile

Concen: 6.66 ug/L M1

RT: 3.133 min Scan# 914

Delta R.T. 0.003 min

Lab File: VE210920A25.D

Acq: 20 Sep 2021 3:26 pm

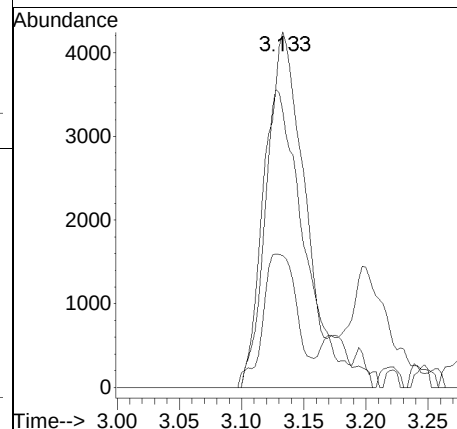
Tgt Ion: 53 Resp: 9921

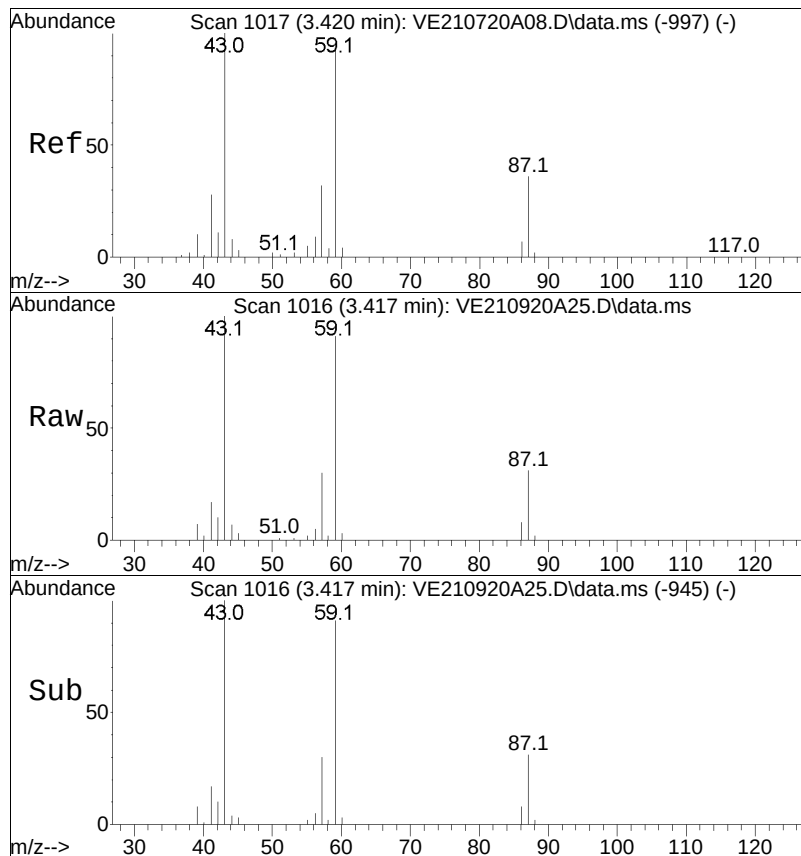
Ion Ratio Lower Upper

53 100

52 79.8 66.7 100.1

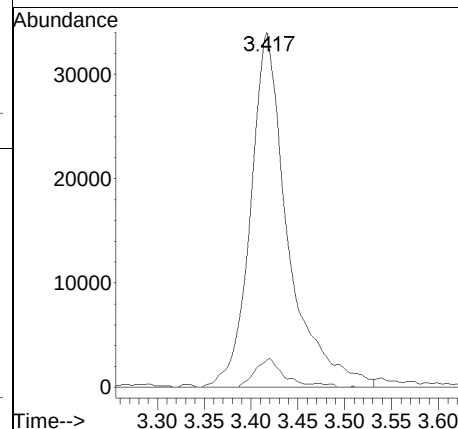
51 31.2 30.6 46.0

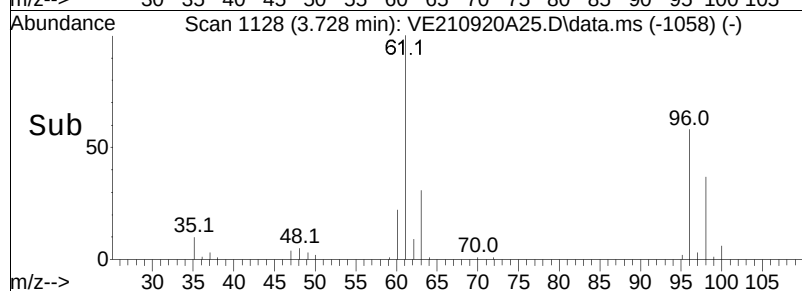
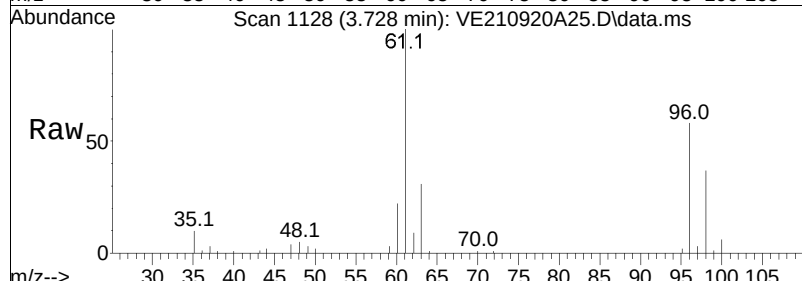
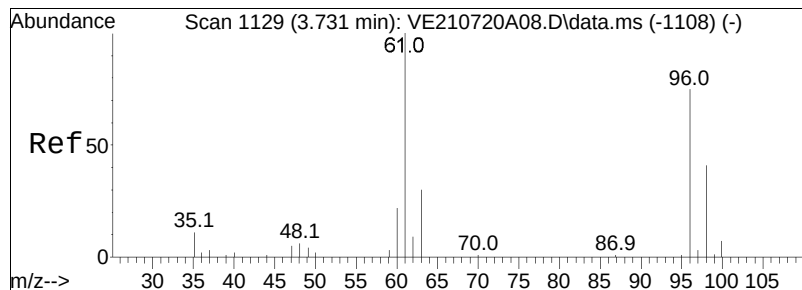




#27
 Vinyl acetate
 Concen: 9.18 ug/L
 RT: 3.417 min Scan# 1016
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

Tgt Ion:	43	86	Ratio	100	6.0	Resp:	94904	Lower	5.2	Upper	7.8





#28

cis-1,2-Dichloroethene

Concen: 8.60 ug/L M1

RT: 3.728 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VE210920A25.D

Acq: 20 Sep 2021 3:26 pm

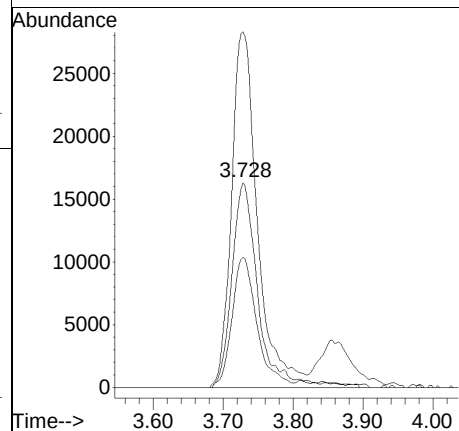
Tgt Ion: 96 Resp: 42918

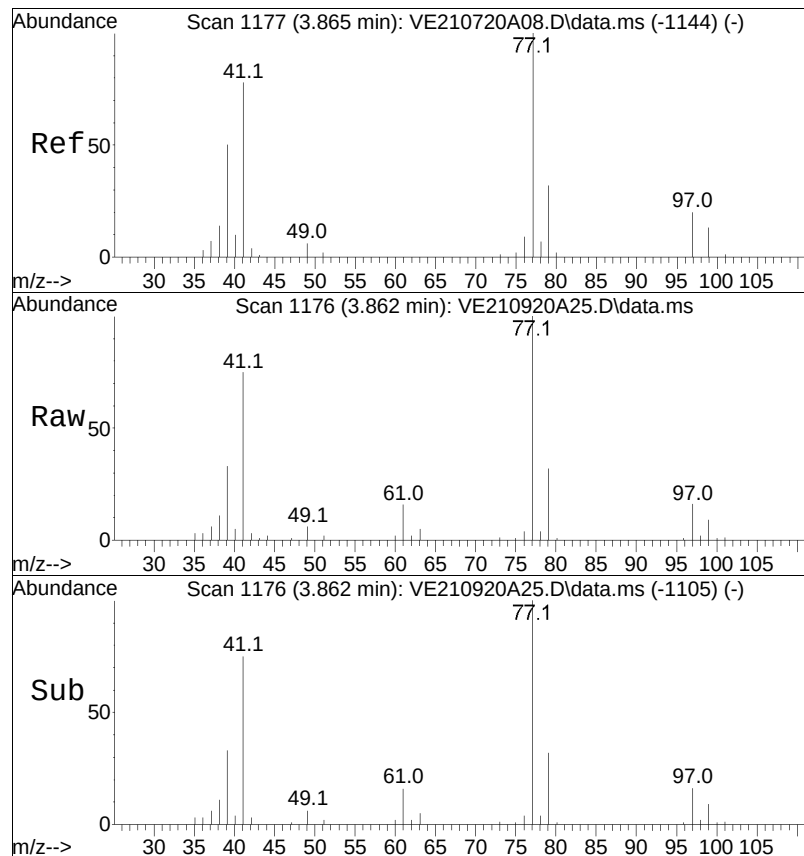
Ion Ratio Lower Upper

96 100

61 169.7 149.4 224.2

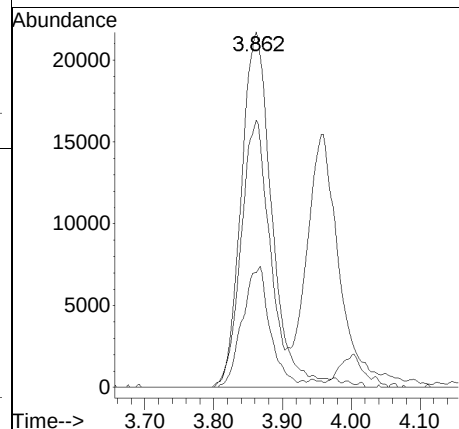
98 60.1 53.4 80.2

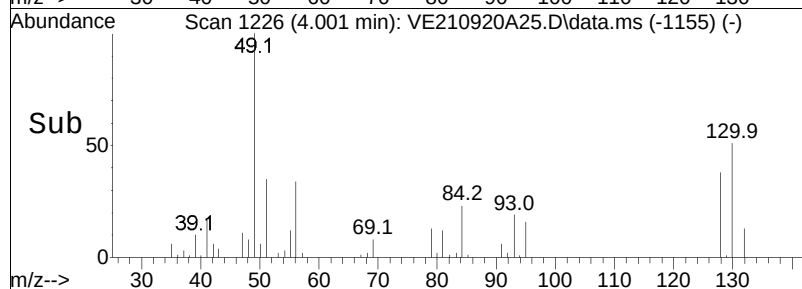
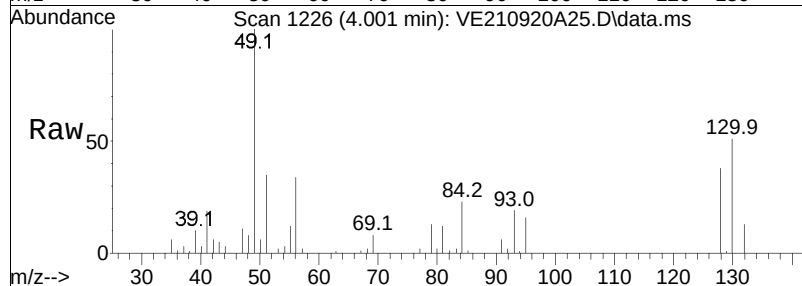
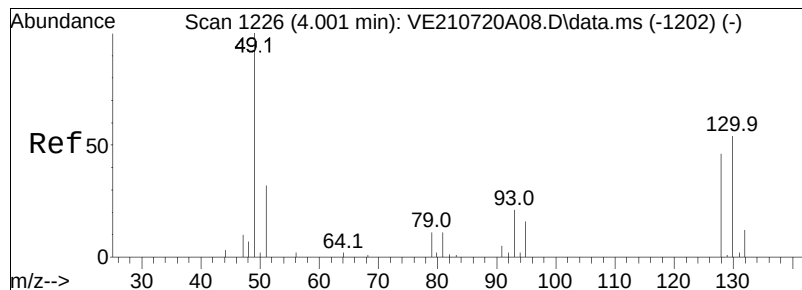




#29
 2,2-Dichloropropane
 Concen: 8.91 ug/L M1
 RT: 3.862 min Scan# 1176
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

Tgt Ion:	77	Ion Ratio	100	Resp:	67779
Ion	77	Ratio	100	Lower	Upper
	41	68.6		38.0	78.8
	79	30.6		20.5	42.5





#30

Bromochloromethane

Concen: 7.96 ug/L M1

RT: 4.001 min Scan# 1226

Delta R.T. -0.003 min

Lab File: VE210920A25.D

Acq: 20 Sep 2021 3:26 pm

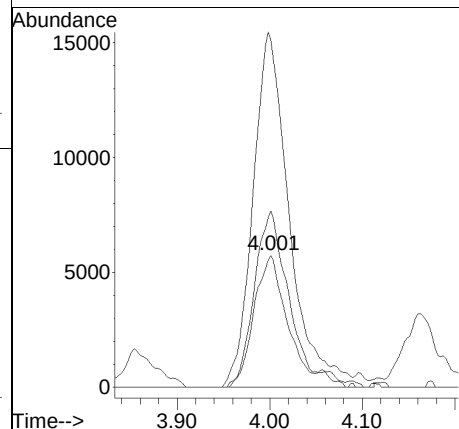
Tgt Ion:128 Resp: 15164

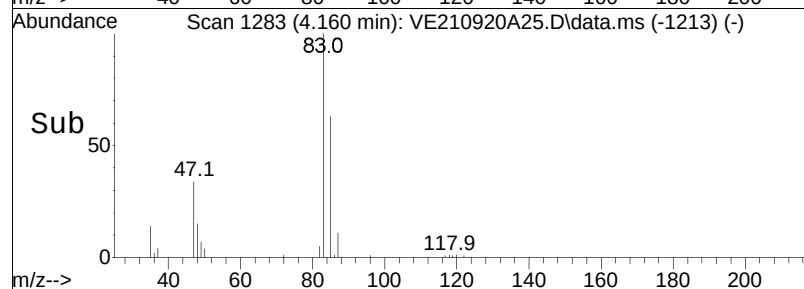
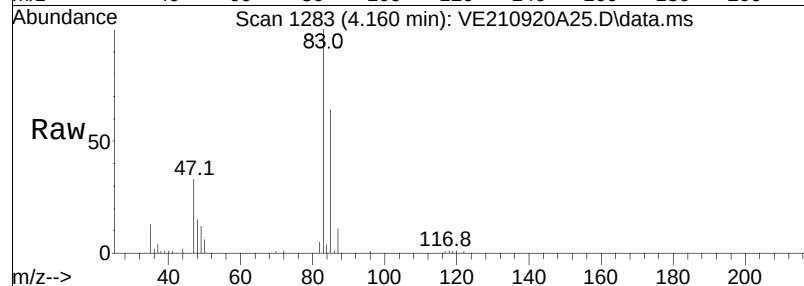
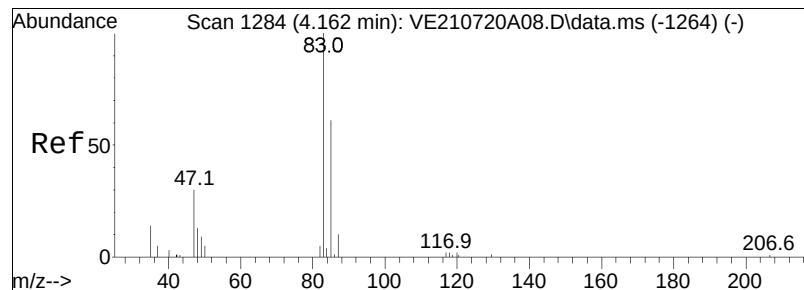
Ion Ratio Lower Upper

128 100

49 277.0 223.0 334.4

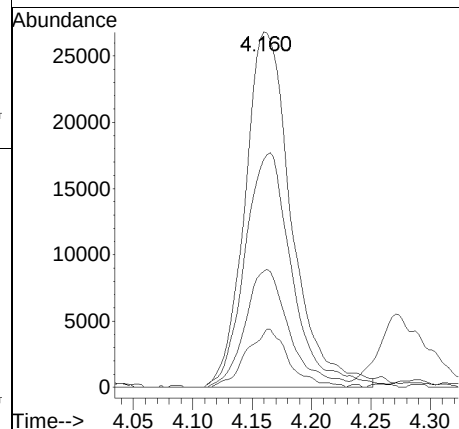
130 128.8 111.4 167.0

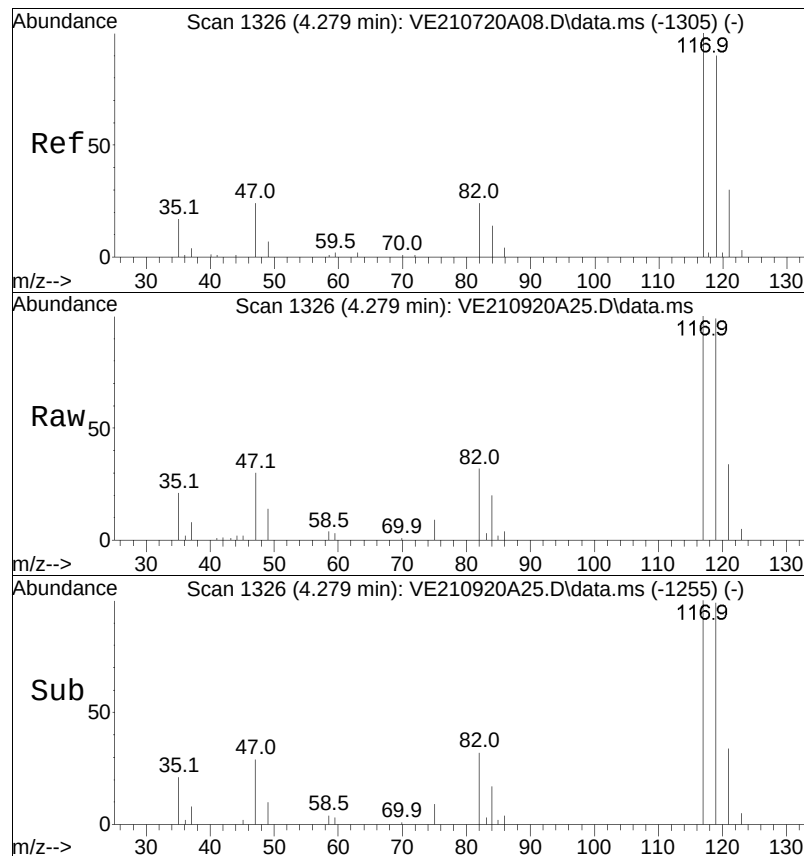




#32
 Chloroform
 Concen: 8.29 ug/L
 RT: 4.160 min Scan# 1283
 Delta R.T. -0.005 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

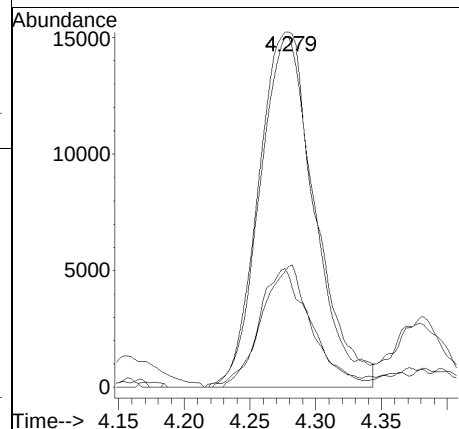
Tgt	Ion: 83	Resp:	73416
Ion	Ratio	Lower	Upper
83	100		
85	67.1	41.5	86.1
47	31.8	19.0	39.4
48	15.1	9.9	20.5

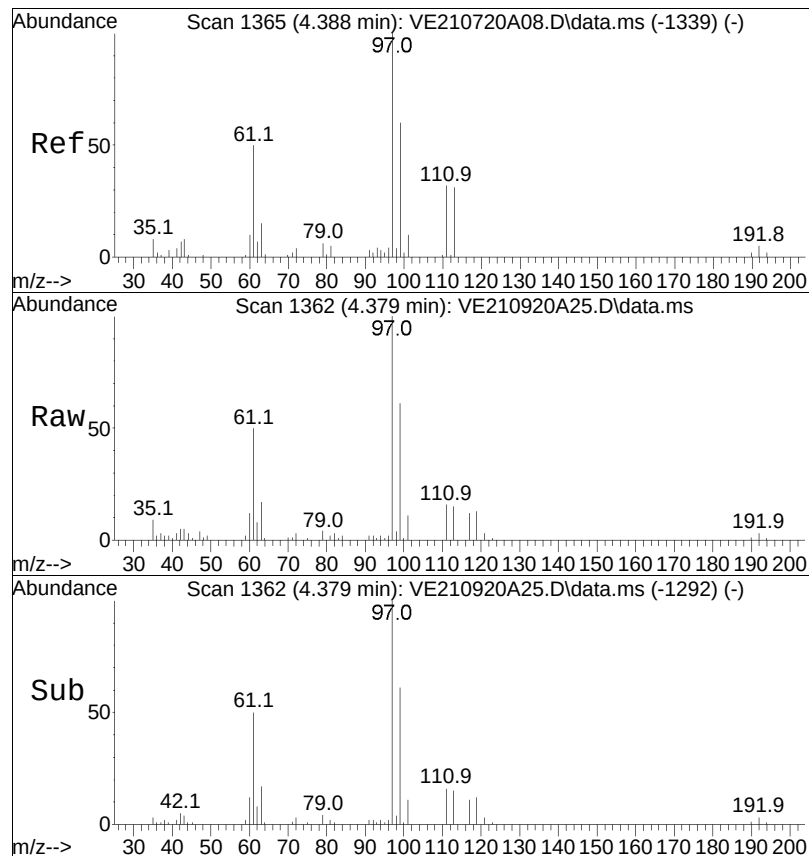




#34
 Carbon tetrachloride
 Concen: 7.67 ug/L
 RT: 4.279 min Scan# 1326
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

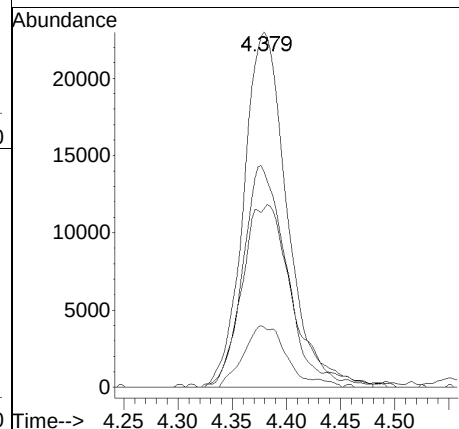
Tgt Ion:	117	Resp:	45825
Ion Ratio	Lower	Upper	
117	100		
119	92.5	62.4	129.6
121	30.8	19.5	40.5
82	30.9	17.0	35.4

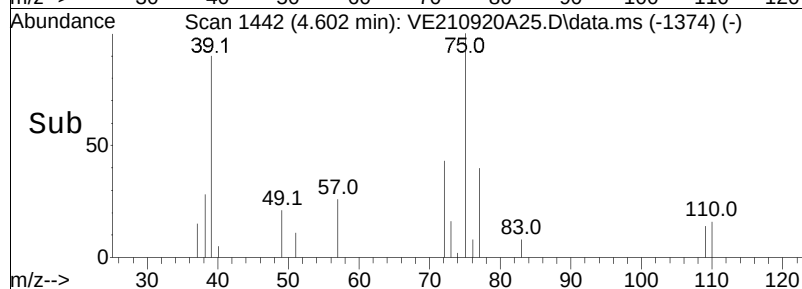
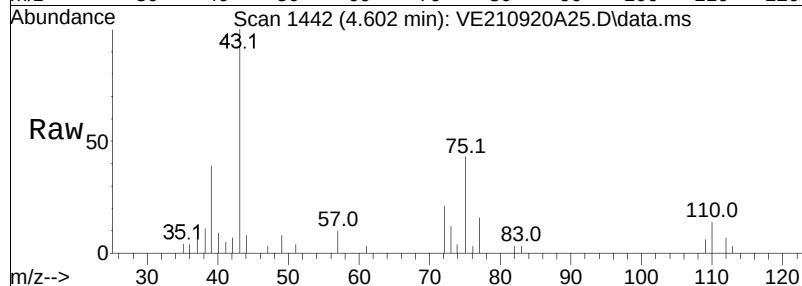
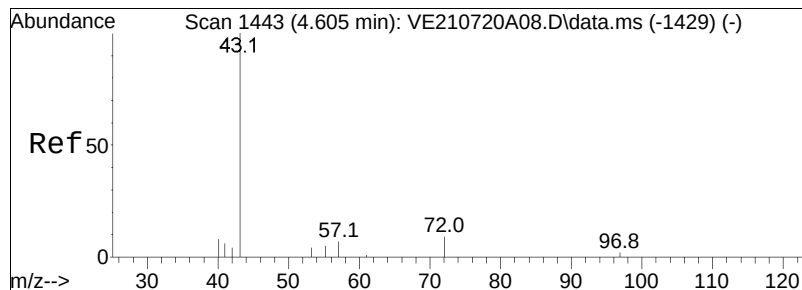




#37
 1,1,1-Trichloroethane
 Concen: 8.36 ug/L
 RT: 4.379 min Scan# 1362
 Delta R.T. -0.006 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

Tgt Ion:	97	Resp:	64501
Ion Ratio	Lower	Upper	
97	100		
99	61.9	40.7	84.5
61	60.0	35.4	73.4
63	16.6	5.0	10.4#





#39

2-Butanone

Concen: 6.91 ug/L M1

RT: 4.602 min Scan# 1442

Delta R.T. -0.011 min

Lab File: VE210920A25.D

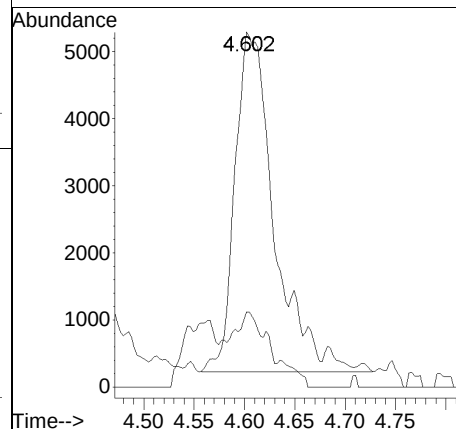
Acq: 20 Sep 2021 3:26 pm

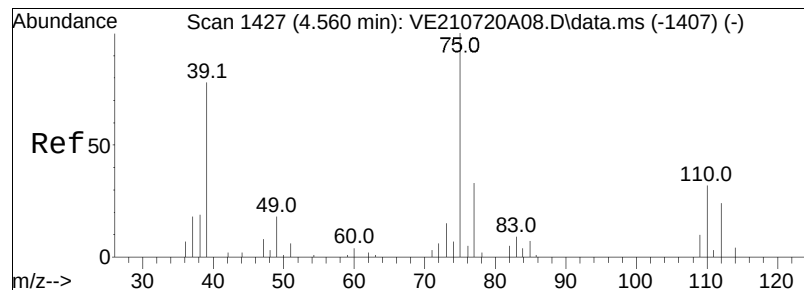
Tgt Ion: 43 Resp: 13851

Ion Ratio Lower Upper

43 100

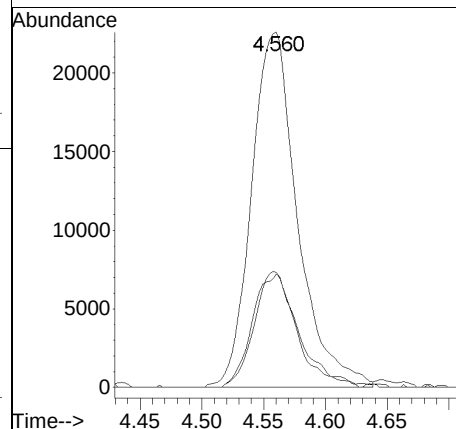
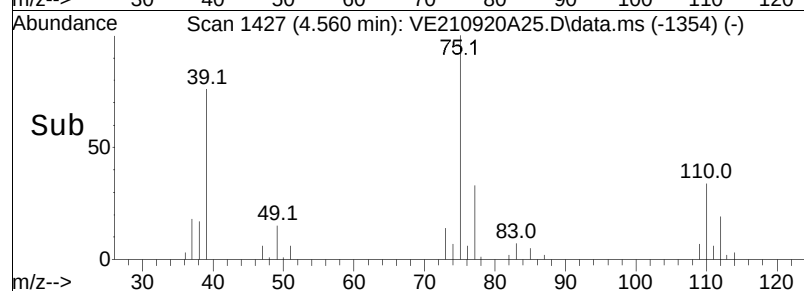
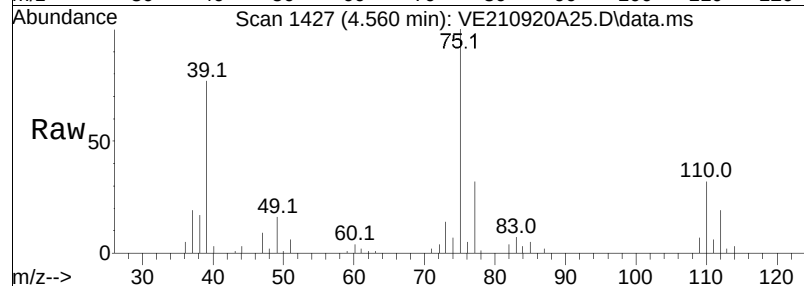
72 9.5 10.9 16.3#

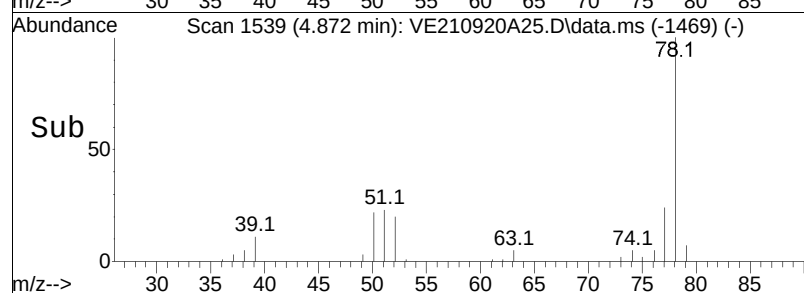
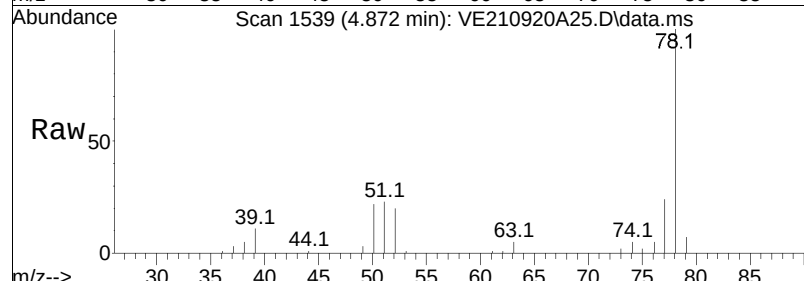
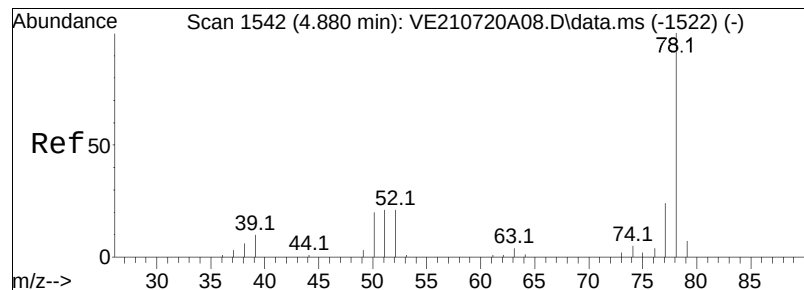




#40
 1,1-Dichloropropene
 Concen: 9.35 ug/L
 RT: 4.560 min Scan# 1427
 Delta R.T. 0.002 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

Tgt	Ion: 75	Resp:	58693
Ion	Ratio	Lower	Upper
75	100		
110	30.1	20.2	41.9
77	32.2	20.1	41.7





#41

Benzene

Concen: 8.82 ug/L

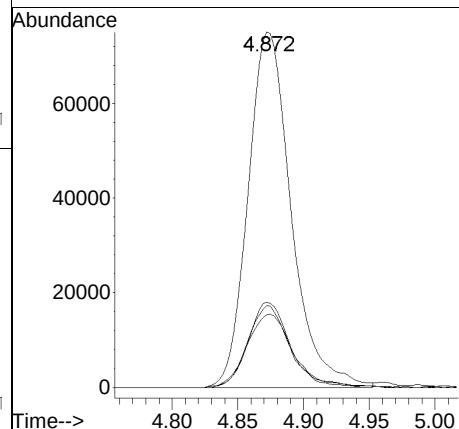
RT: 4.872 min Scan# 1539

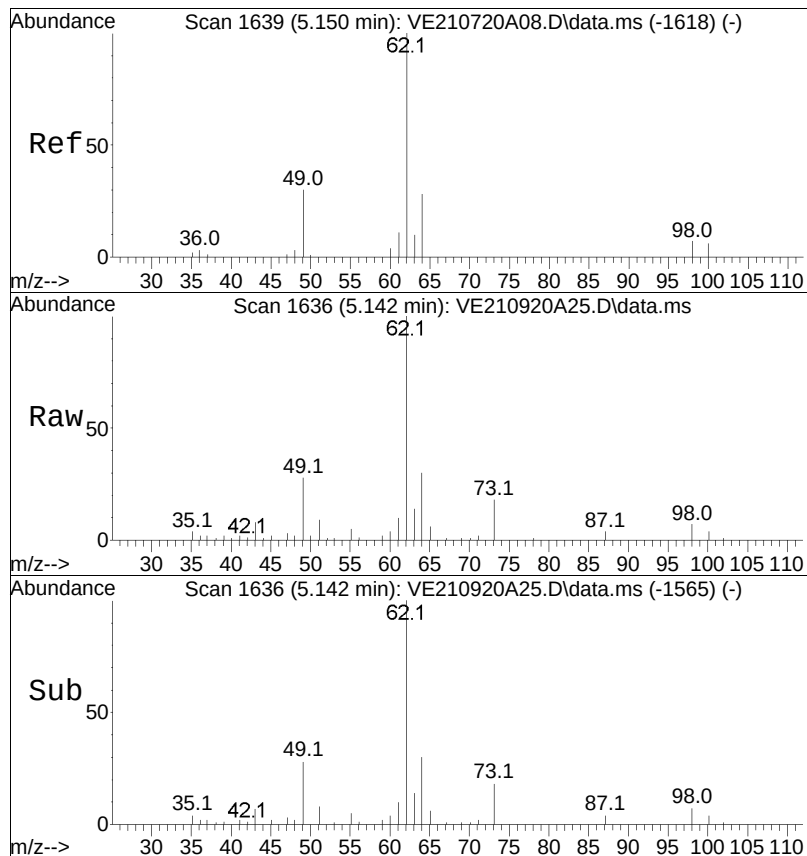
Delta R.T. -0.005 min

Lab File: VE210920A25.D

Acq: 20 Sep 2021 3:26 pm

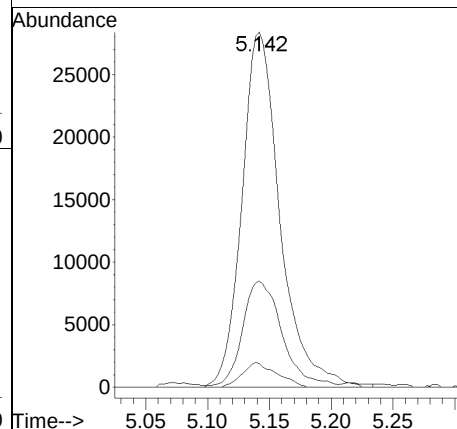
Tgt	Ion: 78	Resp:	171548
Ion	Ratio	Lower	Upper
78	100		
77	23.8	15.7	32.7
51	22.6	16.0	33.2
52	21.1	15.3	31.9

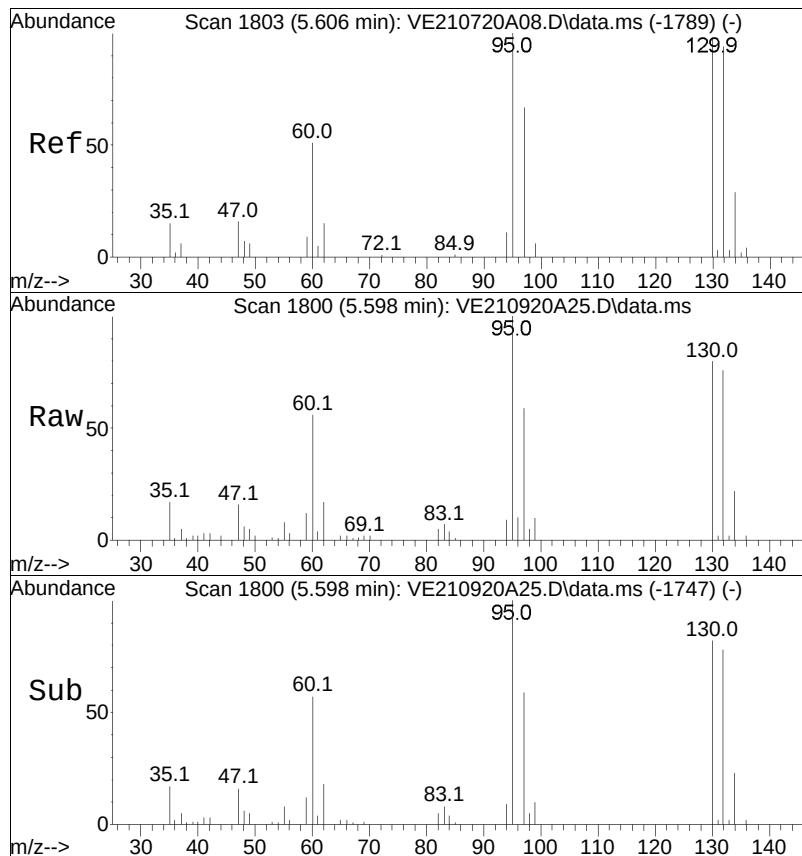




#44
 1,2-Dichloroethane
 Concen: 7.69 ug/L
 RT: 5.142 min Scan# 1636
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

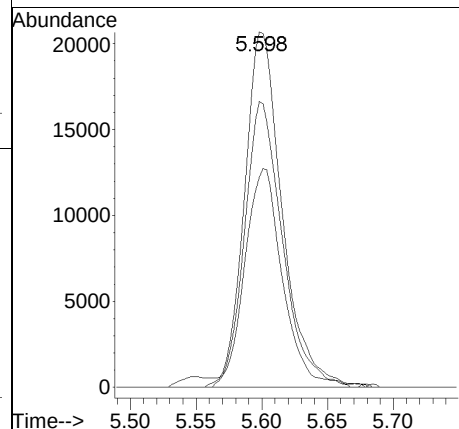
Tgt	Ion: 62	Resp:	61139
Ion	Ratio	Lower	Upper
62	100		
64	31.1	11.2	51.2
98	6.4	0.0	26.1

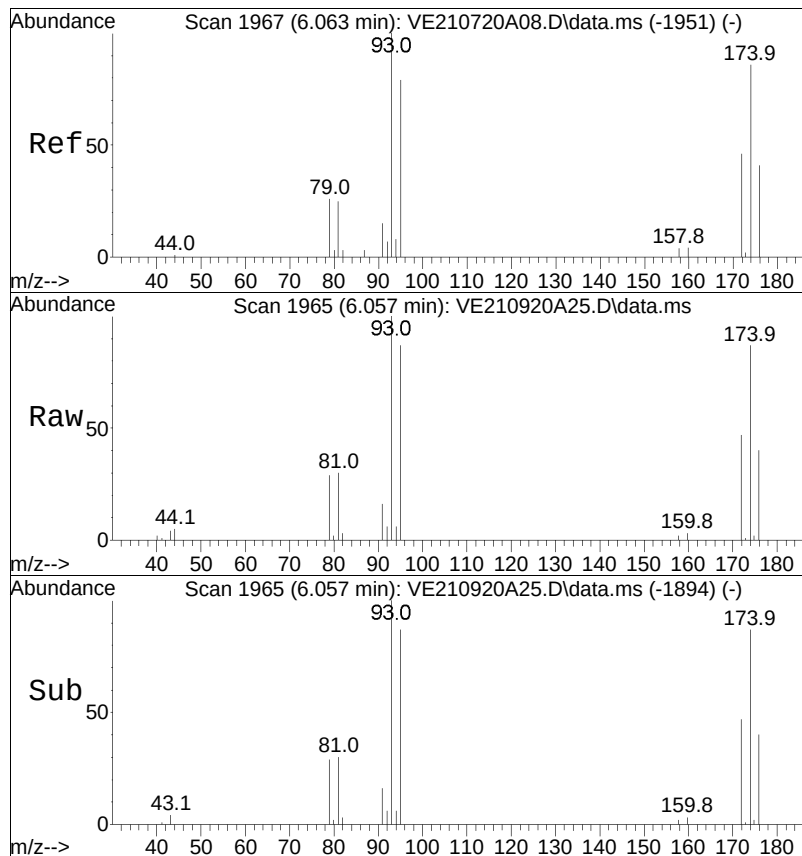




#48
 Trichloroethene
 Concen: 8.75 ug/L
 RT: 5.598 min Scan# 1800
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

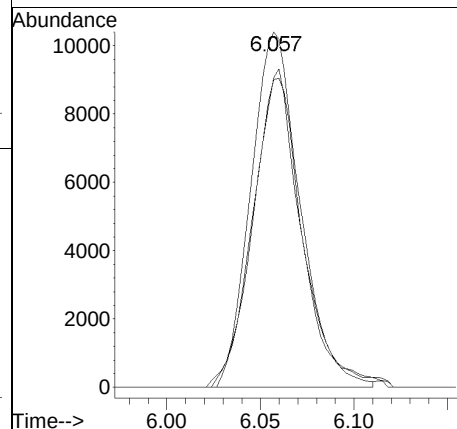
Tgt Ion	Ratio	Lower	Upper
95	100		
97	61.5	55.5	83.3
130	80.4	76.6	115.0

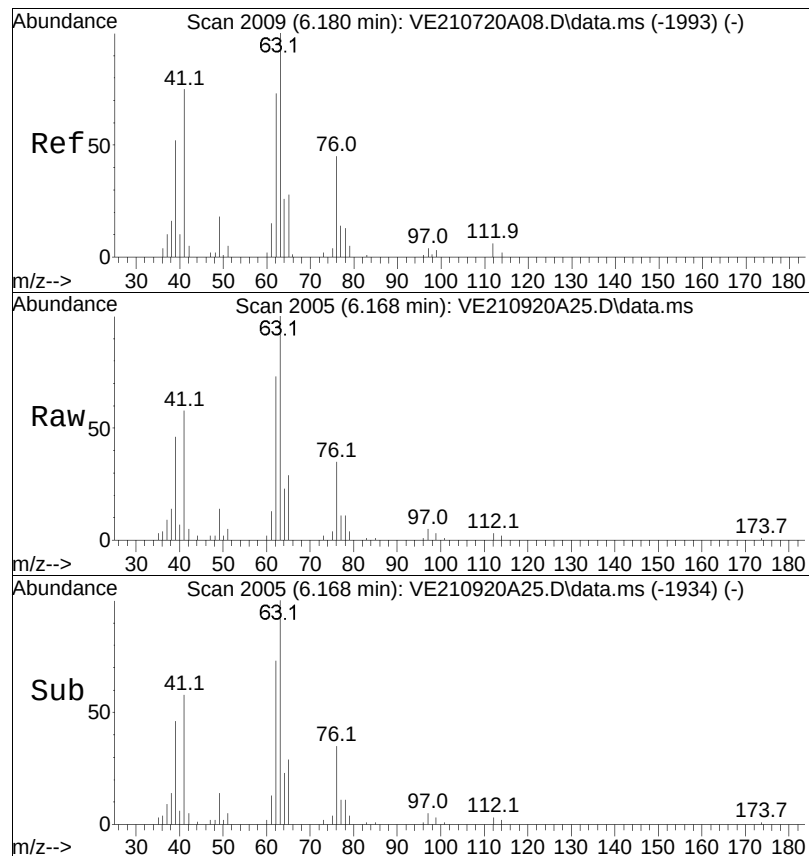




#50
 Dibromomethane
 Concen: 7.03 ug/L
 RT: 6.057 min Scan# 1965
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

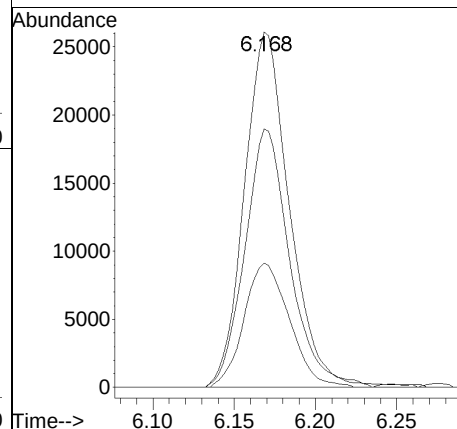
Tgt Ion:	93	Resp:	19196
Ion Ratio	Lower	Upper	
93	100		
95	88.5	67.0	100.4
174	85.6	75.0	112.4

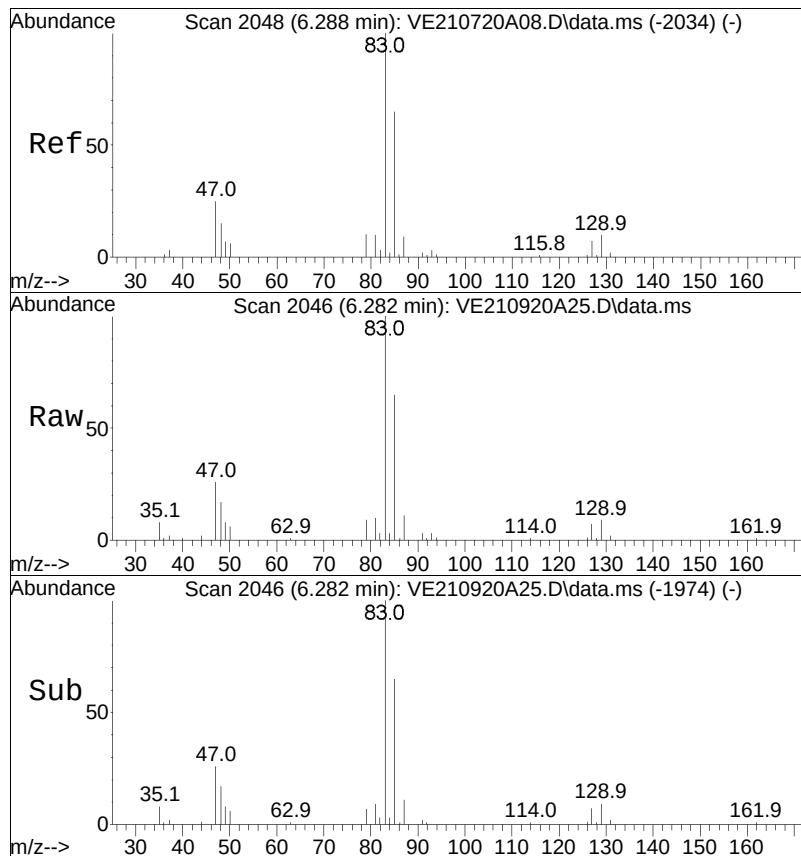




#51
 1,2-Dichloropropane
 Concen: 9.01 ug/L
 RT: 6.168 min Scan# 2005
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

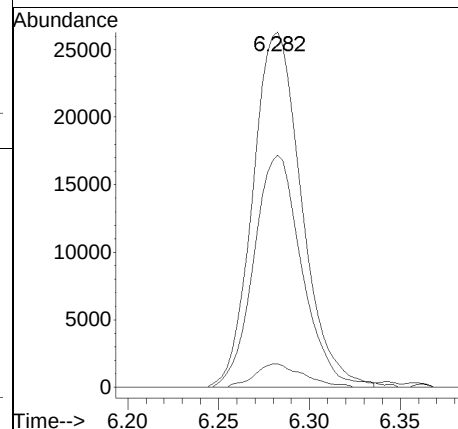
Tgt Ion:	63	Resp:	50192
Ion Ratio	Lower	Upper	
63	100		
62	73.1	58.6	87.8
76	35.4	38.0	57.0#

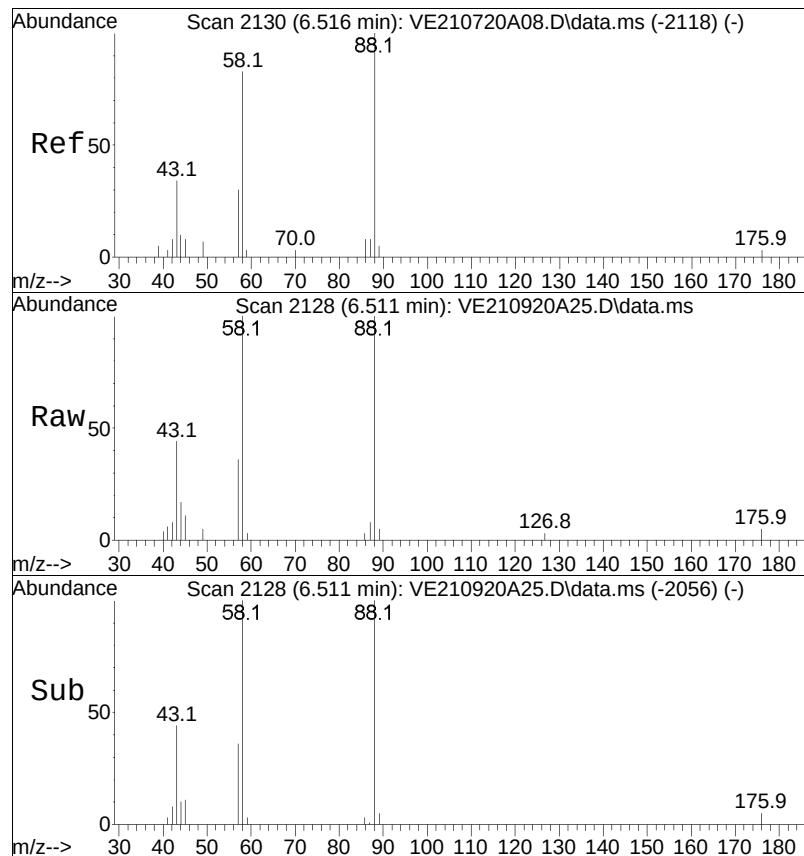




#54
 Bromodichloromethane
 Concen: 7.04 ug/L
 RT: 6.282 min Scan# 2046
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

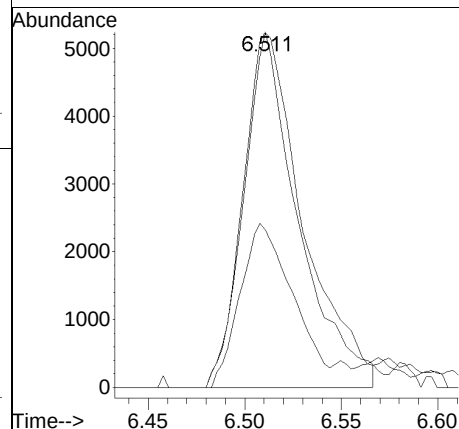
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	52.3	78.5
127	6.7	6.2	9.4

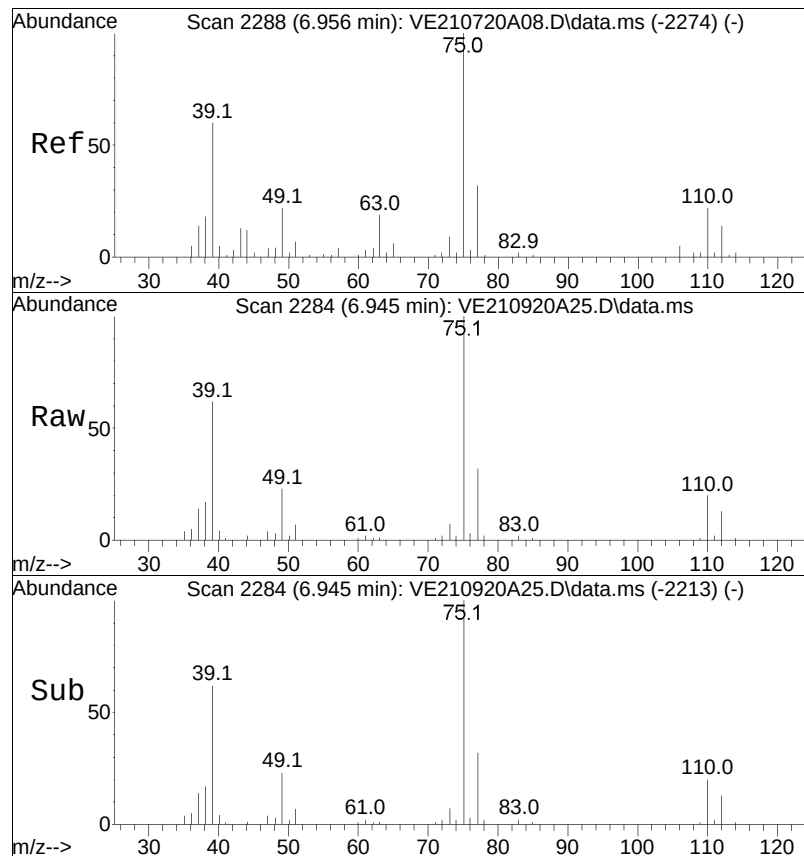




#57
 1,4-Dioxane
 Concen: 325.54 ug/L
 RT: 6.511 min Scan# 2128
 Delta R.T. -0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

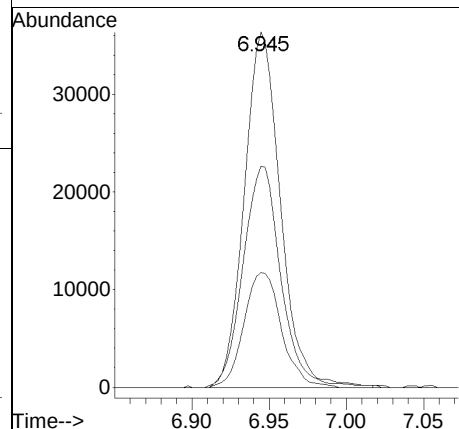
Tgt Ion	Ratio	Lower	Upper
88	100		
58	94.4	76.7	115.1
43	41.4	36.2	54.2

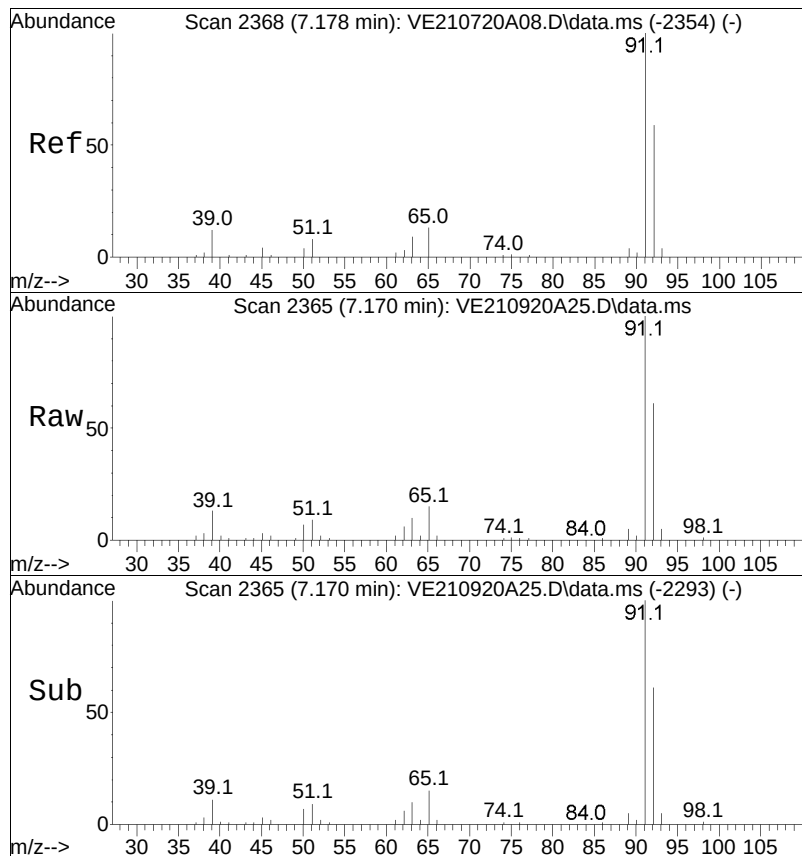




#58
 cis-1,3-Dichloropropene
 Concen: 7.56 ug/L
 RT: 6.945 min Scan# 2284
 Delta R.T. -0.002 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

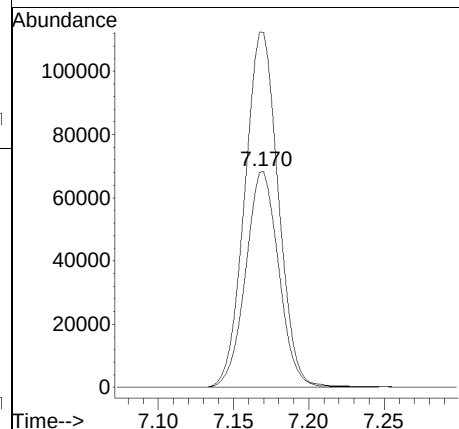
Tgt	Ion: 75	Resp:	59406
Ion	Ratio	Lower	Upper
75	100		
77	33.5	25.0	37.4
39	65.1	50.1	75.1

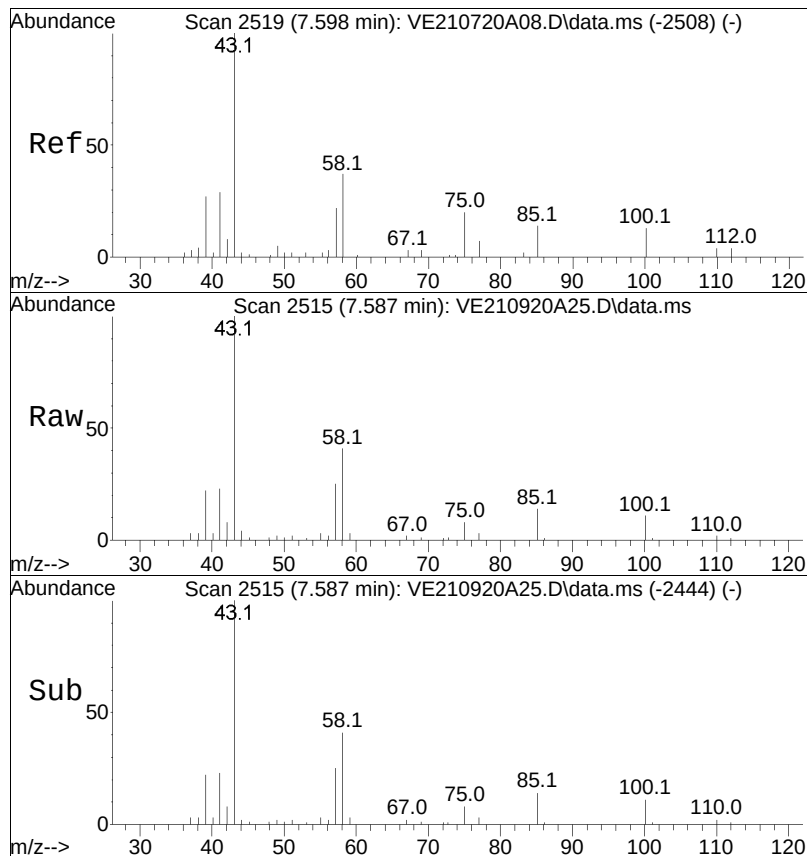




#61
 Toluene
 Concen: 8.67 ug/L
 RT: 7.170 min Scan# 2365
 Delta R.T. -0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

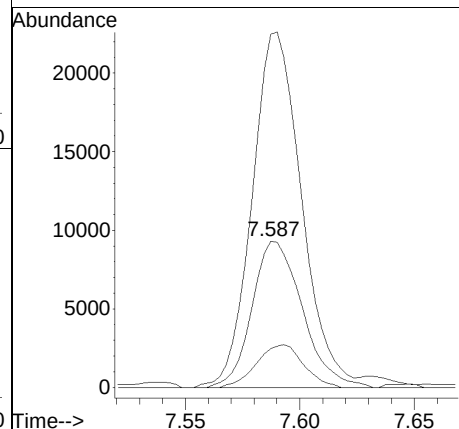
Tgt	Ion	Resp	Lower	Upper
92	100			
91	166.4	139.8	209.6	

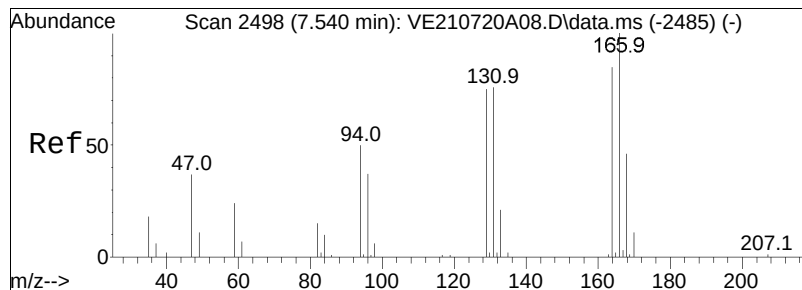




#62
 4-Methyl-2-pentanone
 Concen: 8.40 ug/L
 RT: 7.587 min Scan# 2515
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

Tgt	Ion	Resp	Lower	Upper
58	100	14219		
100	27.3	20.2	30.2	
43	238.6	196.6	295.0	





#63

Tetrachloroethene

Concen: 8.49 ug/L

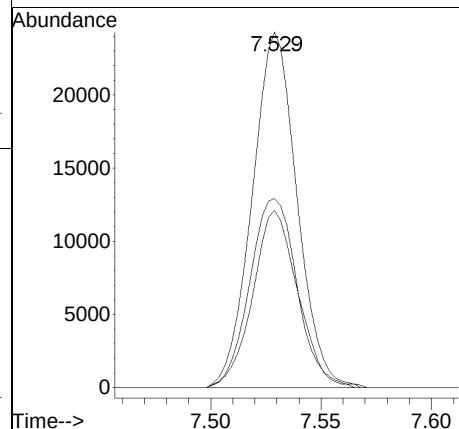
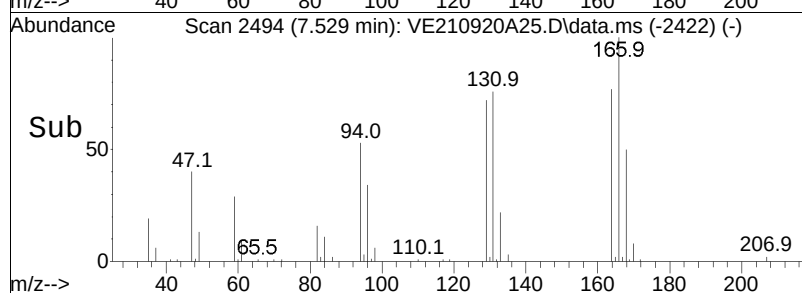
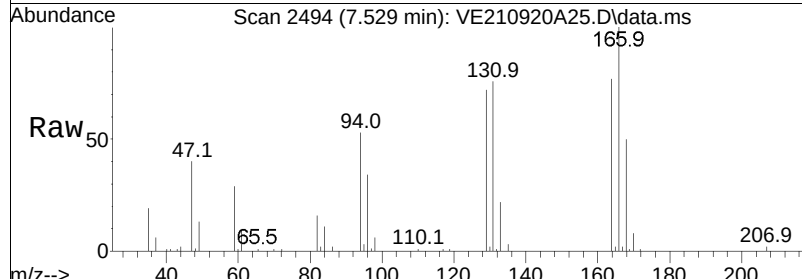
RT: 7.529 min Scan# 2494

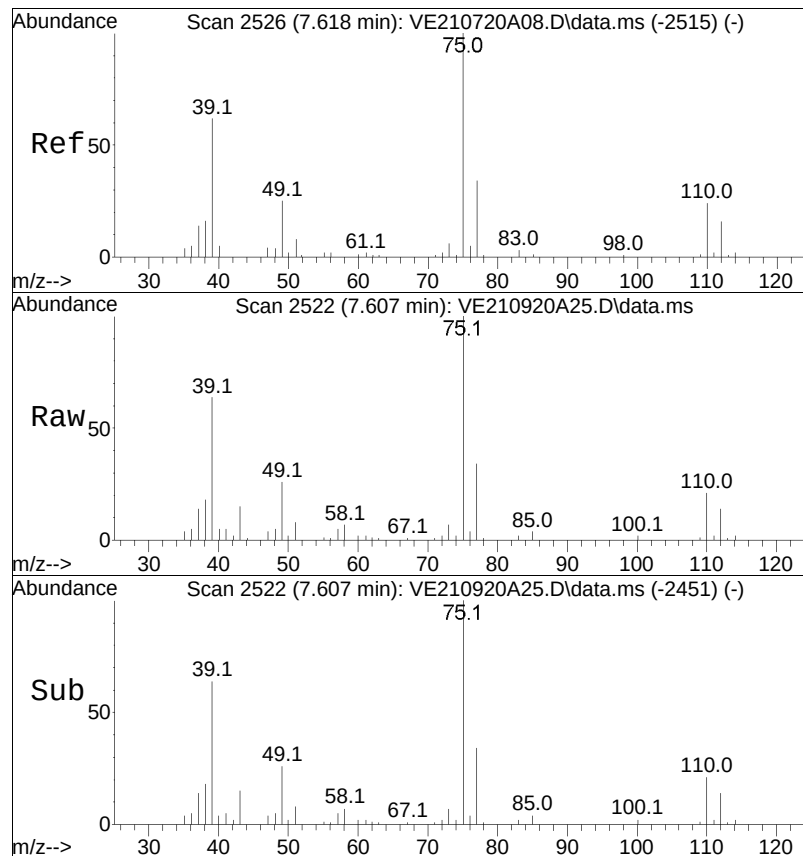
Delta R.T. -0.000 min

Lab File: VE210920A25.D

Acq: 20 Sep 2021 3:26 pm

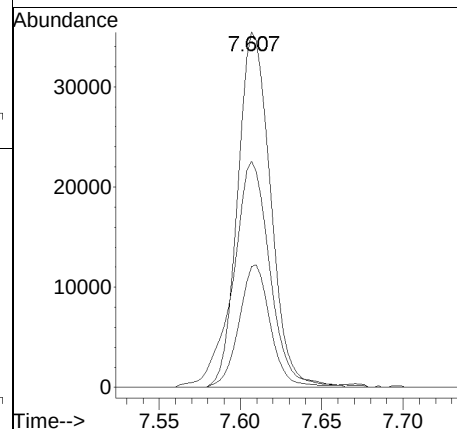
Tgt	Ion:166	Resp:	34278
Ion	Ratio	Lower	Upper
166	100		
168	50.1	28.2	68.2
94	56.1	38.4	78.4

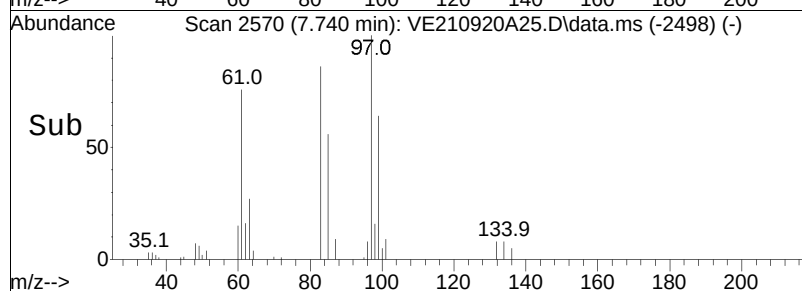
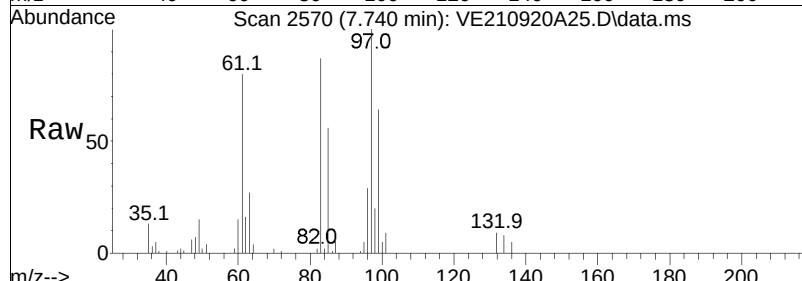
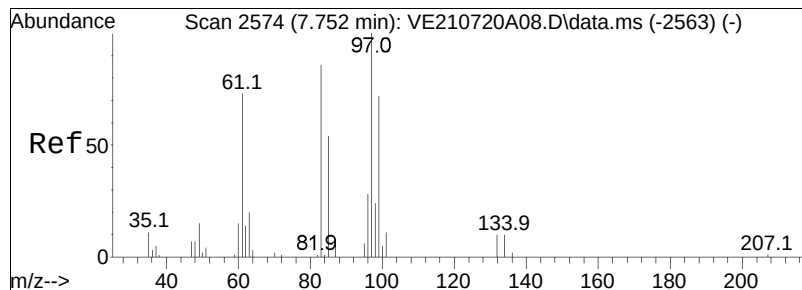




#65
trans-1,3-Dichloropropene
Concen: 7.14 ug/L
RT: 7.607 min Scan# 2522
Delta R.T. -0.003 min
Lab File: VE210920A25.D
Acq: 20 Sep 2021 3:26 pm

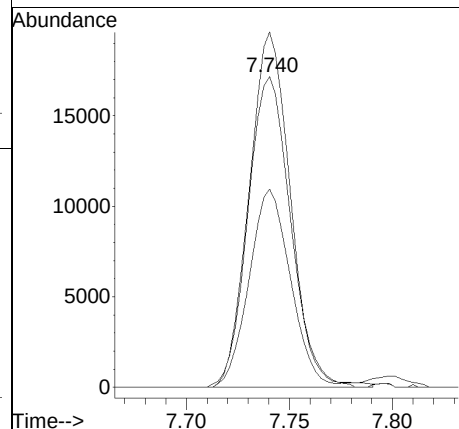
Tgt	Ion: 75	Resp:	49995
Ion	Ratio	Lower	Upper
75	100		
77	32.8	12.4	52.4
39	71.9	42.8	82.8

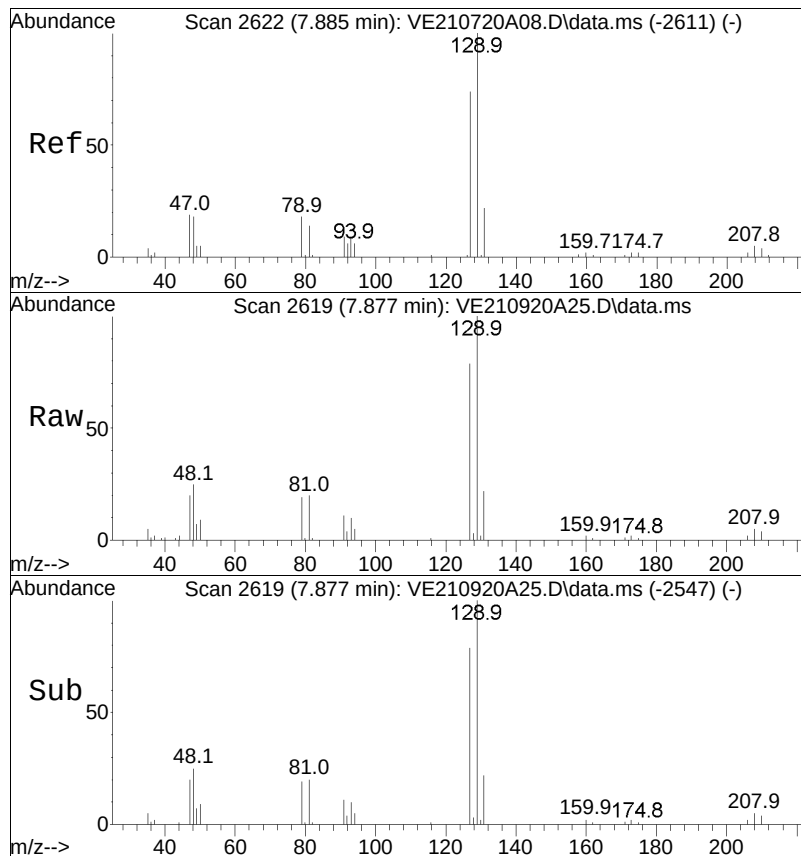




#68
 1,1,2-Trichloroethane
 Concen: 7.84 ug/L
 RT: 7.740 min Scan# 2570
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

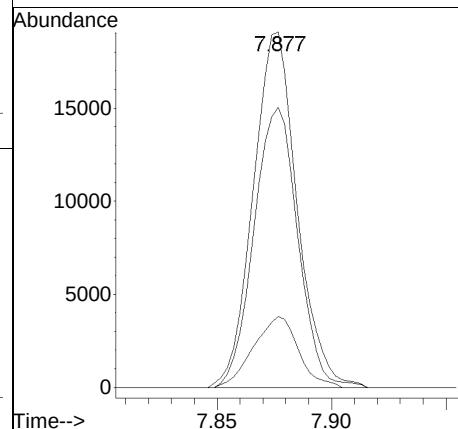
Tgt Ion:	83	Resp:	24809
Ion Ratio	Lower	Upper	
83	100		
97	109.8	89.8	129.8
85	61.9	44.4	84.4

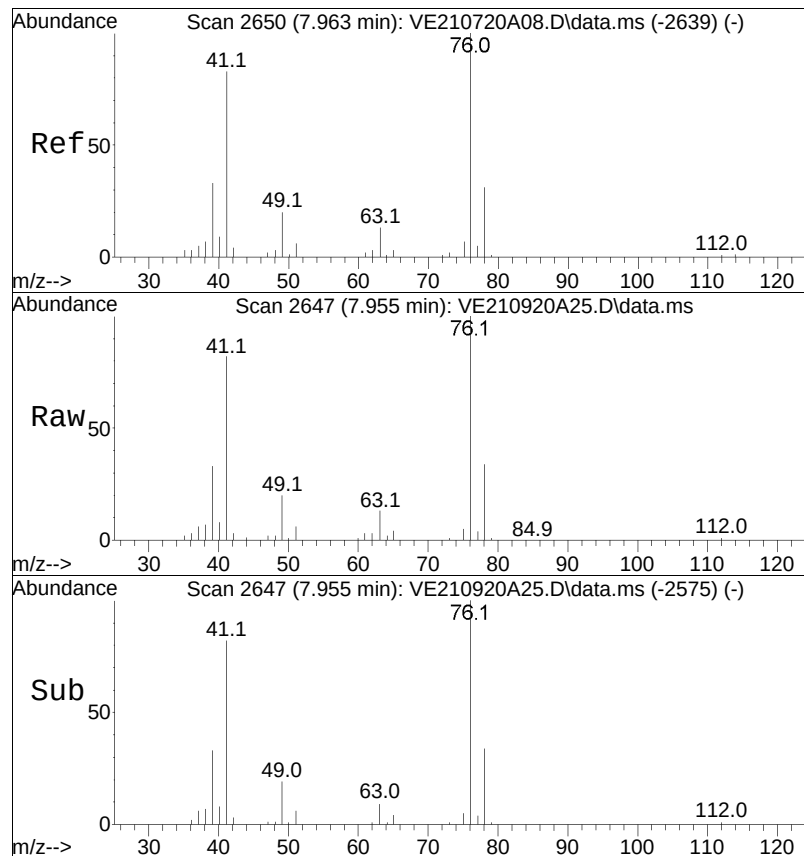




#69
 Chlorodibromomethane
 Concen: 6.43 ug/L
 RT: 7.877 min Scan# 2619
 Delta R.T. -0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

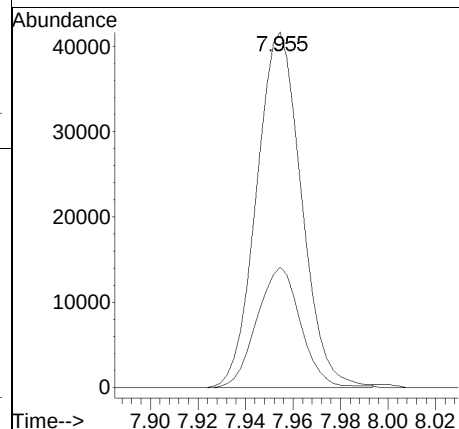
Tgt	Ion	Ratio	Resp	Lower	Upper
129	100		25479		
81	20.4	2.9	42.9		
127	78.7	57.8	97.8		

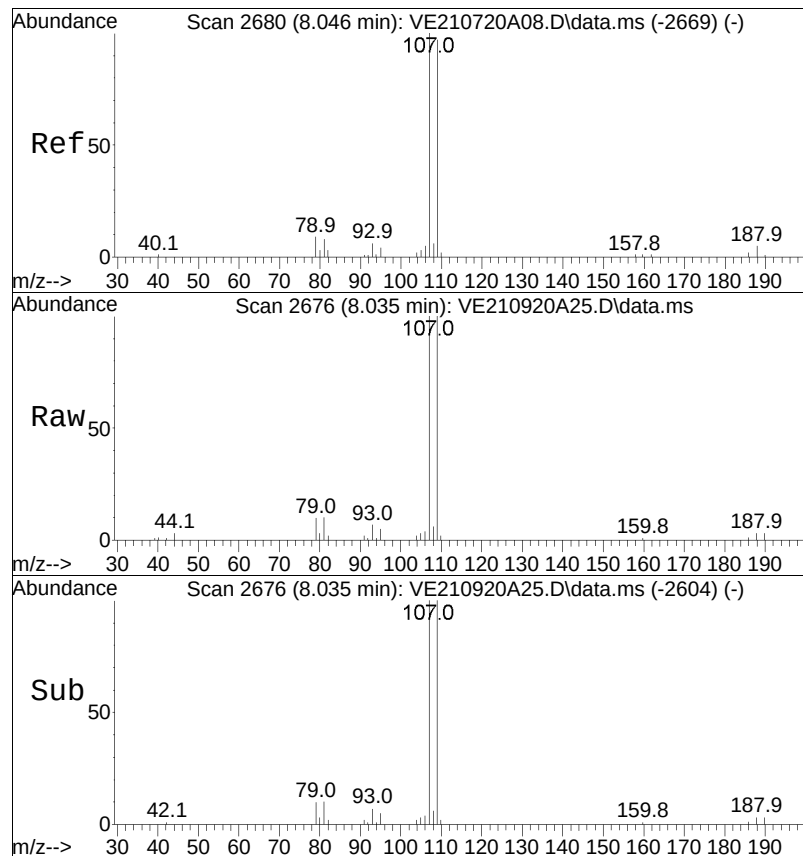




#70
 1,3-Dichloropropane
 Concen: 7.63 ug/L
 RT: 7.955 min Scan# 2647
 Delta R.T. -0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

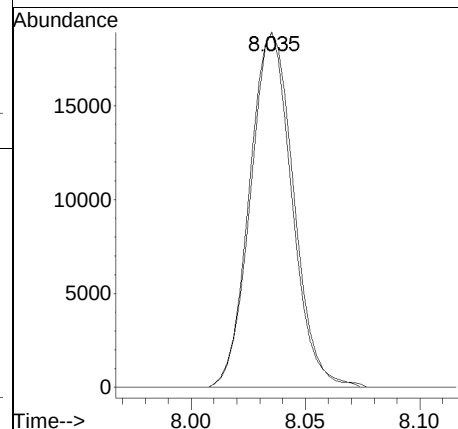
Tgt Ion:	76	78	Ratio	100	32.9	Resp:	54633	Lower	Upper

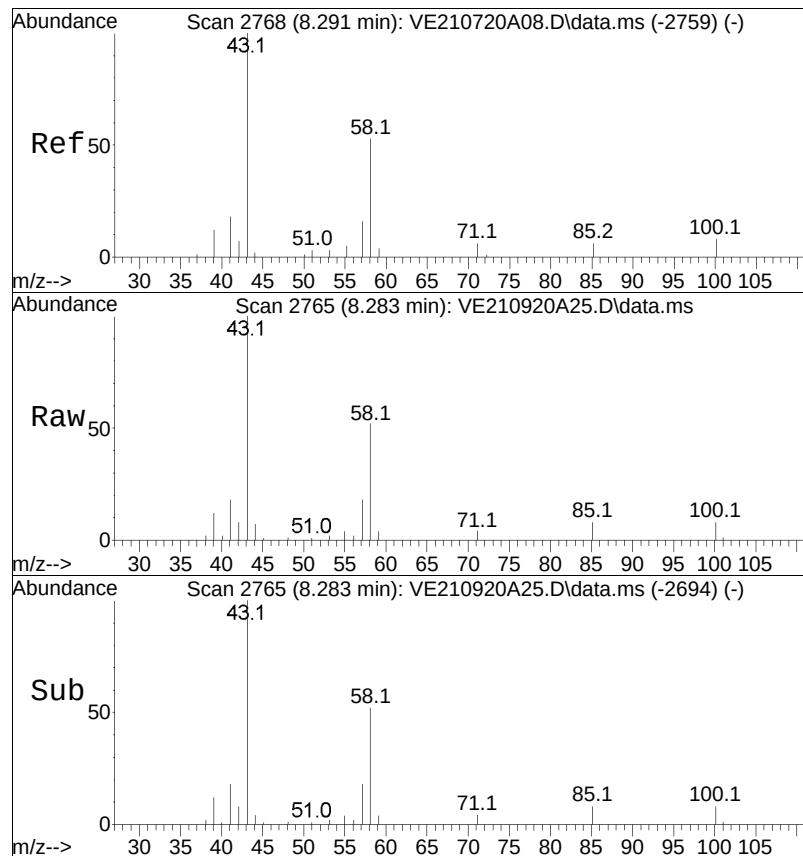




#71
 1,2-Dibromoethane
 Concen: 7.18 ug/L
 RT: 8.035 min Scan# 2676
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

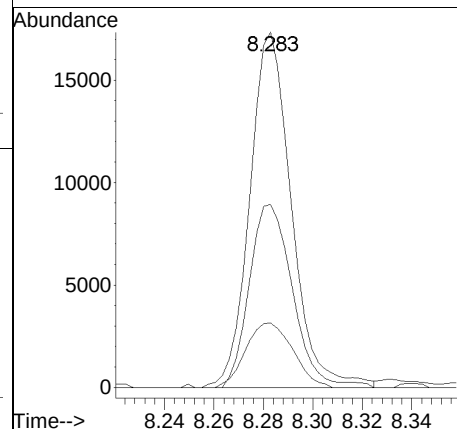
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.6	74.3	111.5

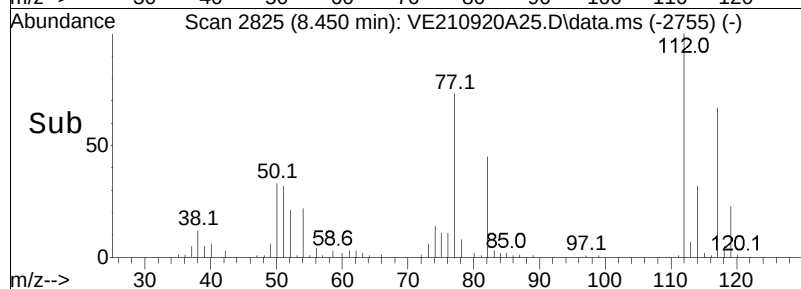
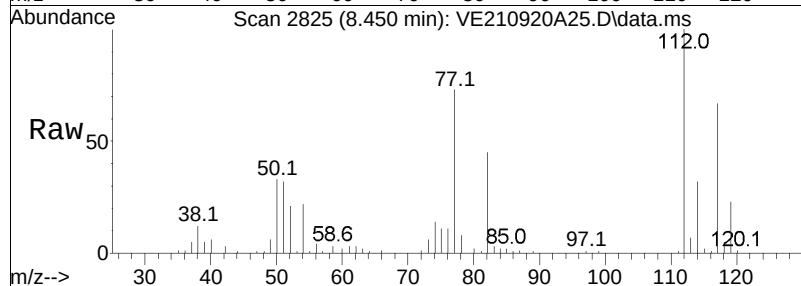
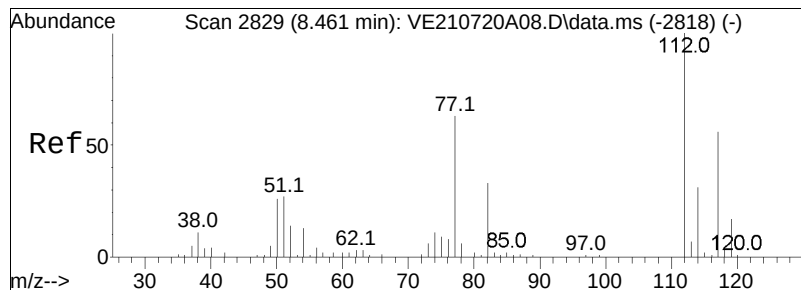




#72
 2-Hexanone
 Concen: 6.39 ug/L
 RT: 8.283 min Scan# 2765
 Delta R.T. -0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

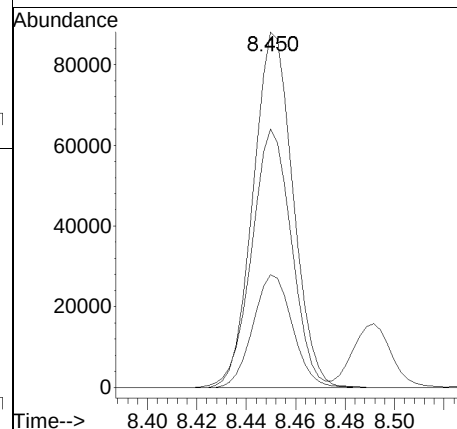
Tgt Ion:	43	58	57	Ratio	100	53.5	20.5	Resp:	20277	Lower	Upper
43	100										
58		53.5			41.2	61.8					
57		20.5			17.2	25.8					

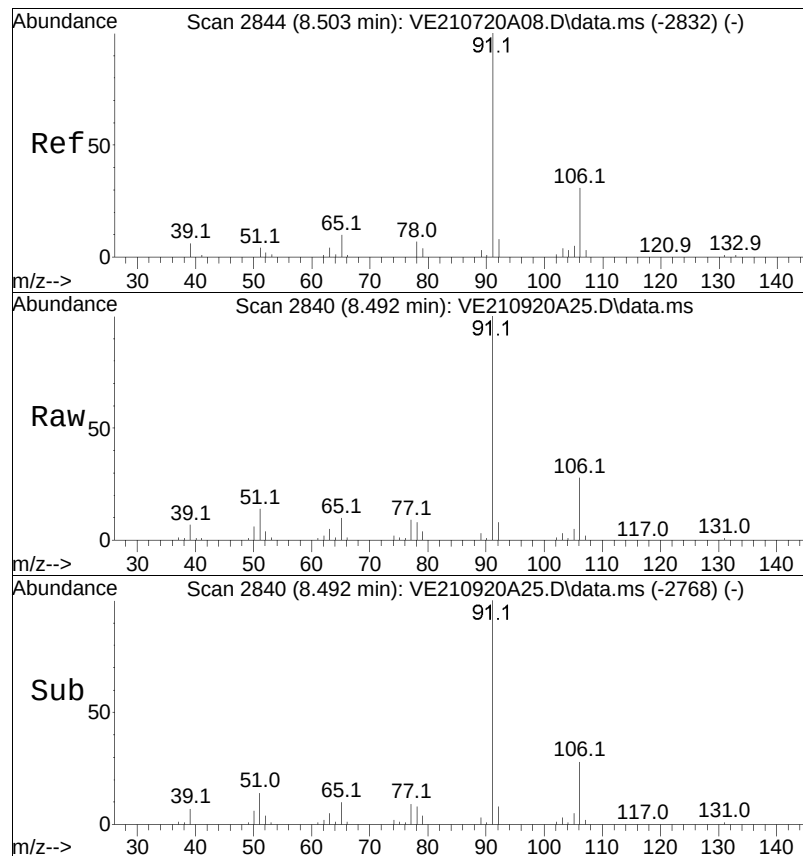




#73
 Chlorobenzene
 Concen: 8.27 ug/L
 RT: 8.450 min Scan# 2825
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

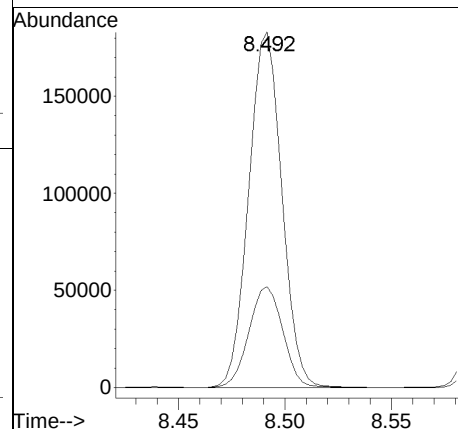
Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		98642		
77	72.8	55.4		83.0	
114	31.4	25.4		38.2	

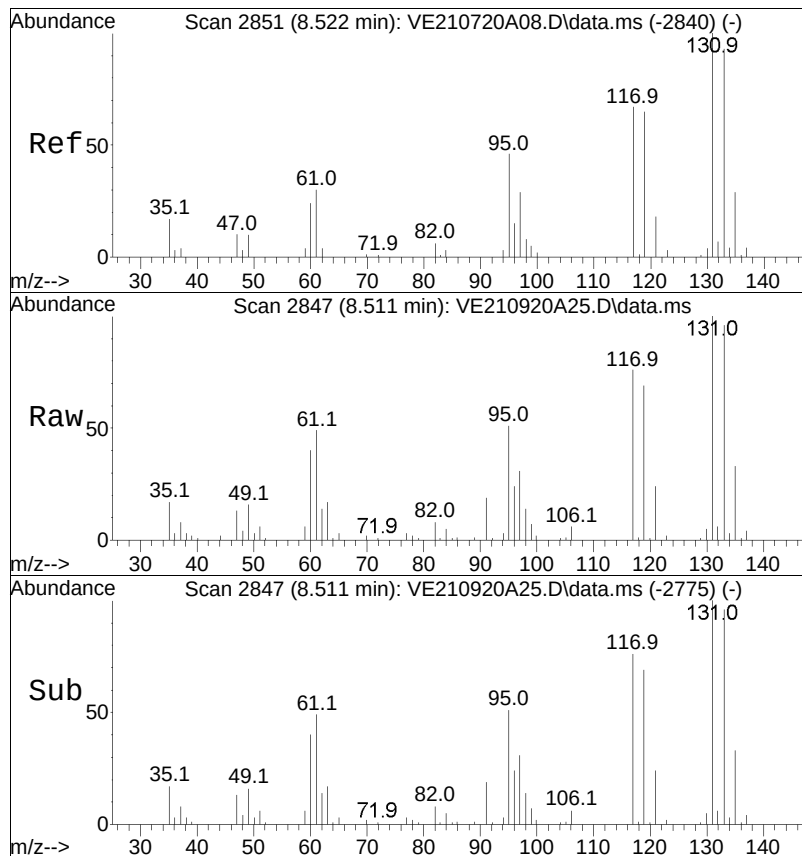




#74
 Ethylbenzene
 Concen: 8.80 ug/L
 RT: 8.492 min Scan# 2840
 Delta R.T. -0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

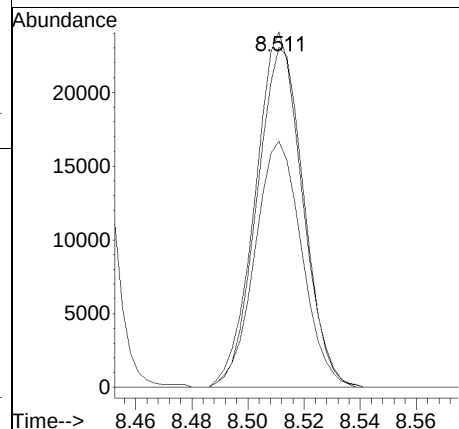
Tgt Ion:	91	106	Ratio	Lower	Upper
Resp:	197879				
Ion Ratio	100	29.0			
			24.3	36.5	

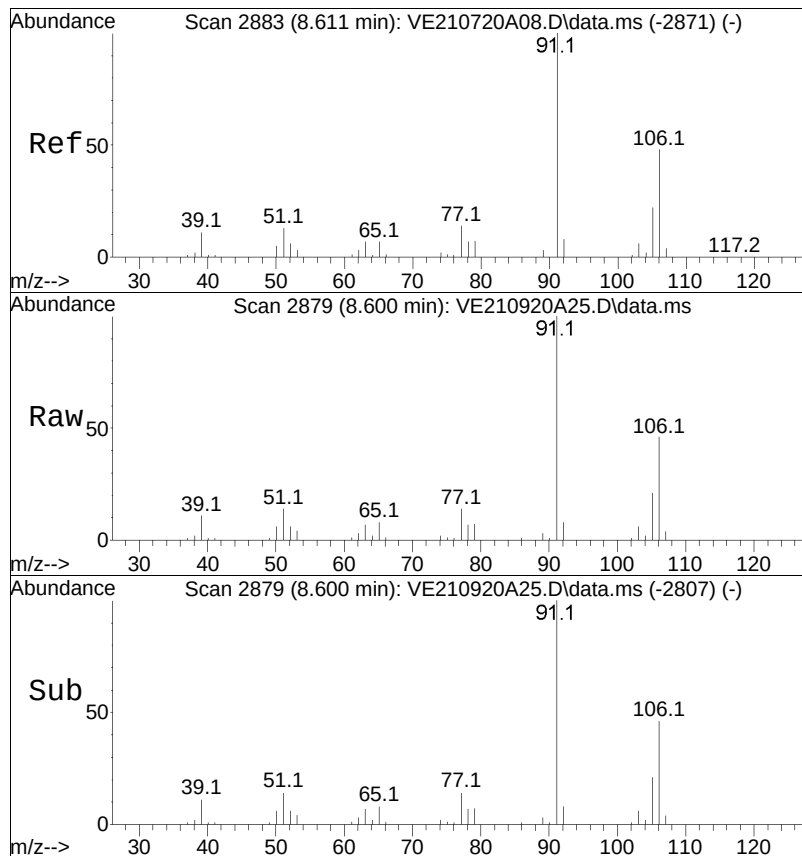




#75
 1,1,1,2-Tetrachloroethane
 Concen: 6.72 ug/L
 RT: 8.511 min Scan# 2847
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

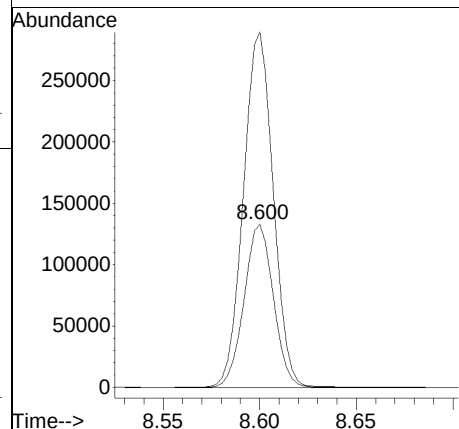
Tgt Ion:	131	Resp:	27988
Ion Ratio	Lower	Upper	
131	100		
133	95.8	81.0	121.0
119	69.4	41.3	81.3

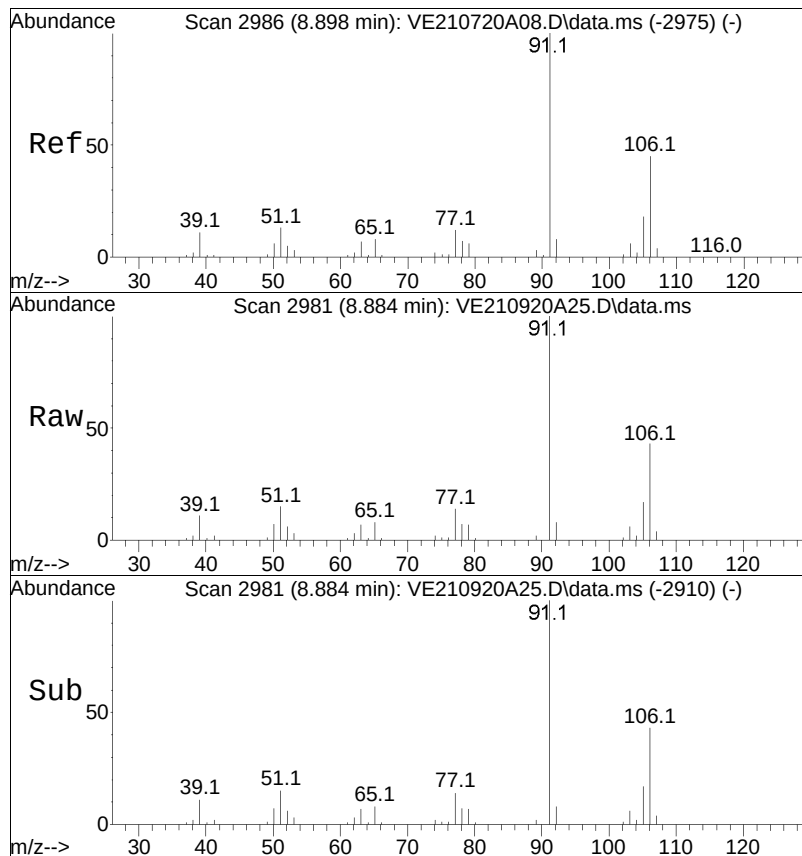




#76
 p/m Xylene
 Concen: 17.55 ug/L
 RT: 8.600 min Scan# 2879
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

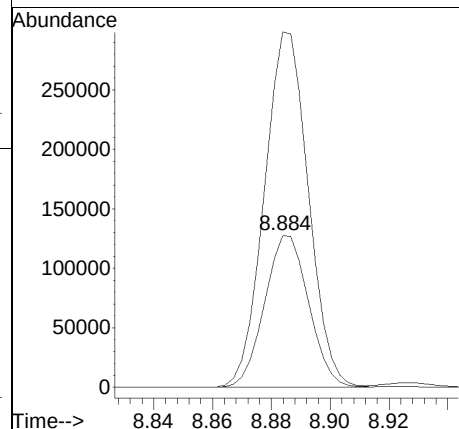
Tgt	Ion	Ratio	Lower	Upper
106	106	100		
91	221.4	166.4	249.6	

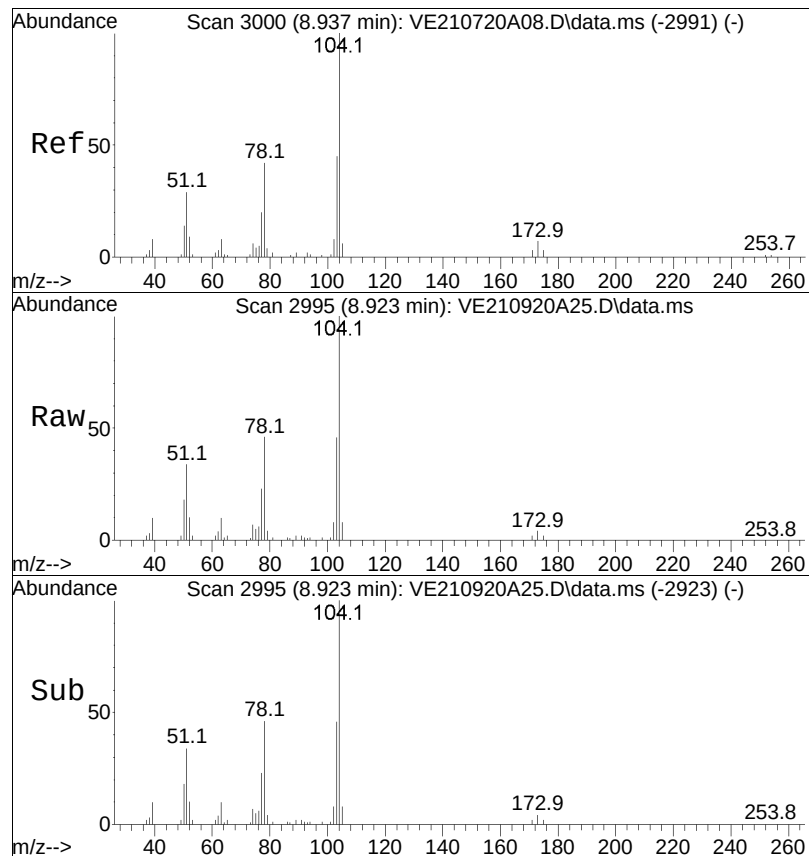




#77
 o Xylene
 Concen: 17.41 ug/L
 RT: 8.884 min Scan# 2981
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

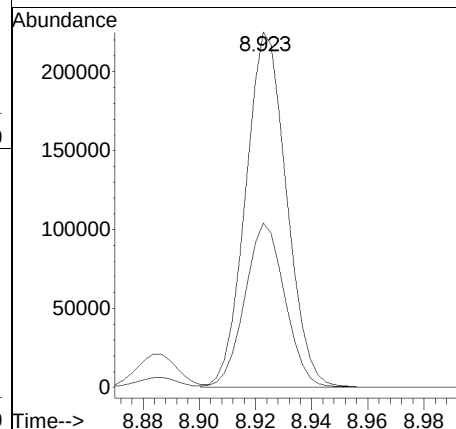
Tgt Ion	Ratio	Lower	Upper
106	100		
91	233.3	182.6	273.8

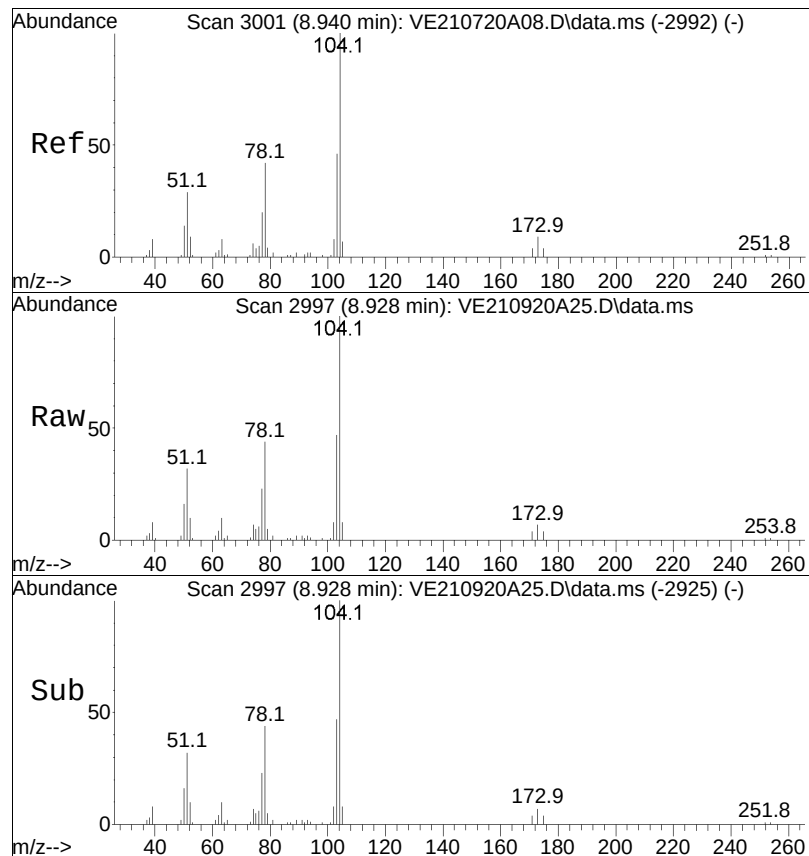




#78
 Styrene
 Concen: 16.95 ug/L
 RT: 8.923 min Scan# 2995
 Delta R.T. -0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

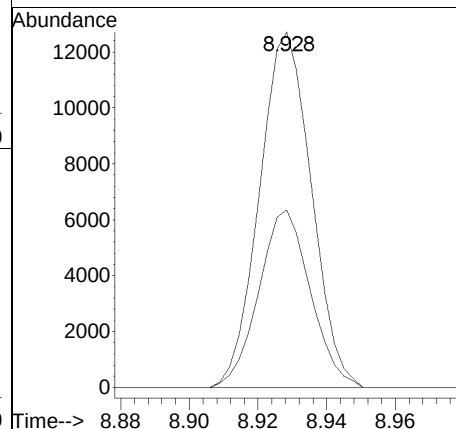
Tgt Ion	Ratio	Lower	Upper
104	100		
78	45.4	39.8	59.6

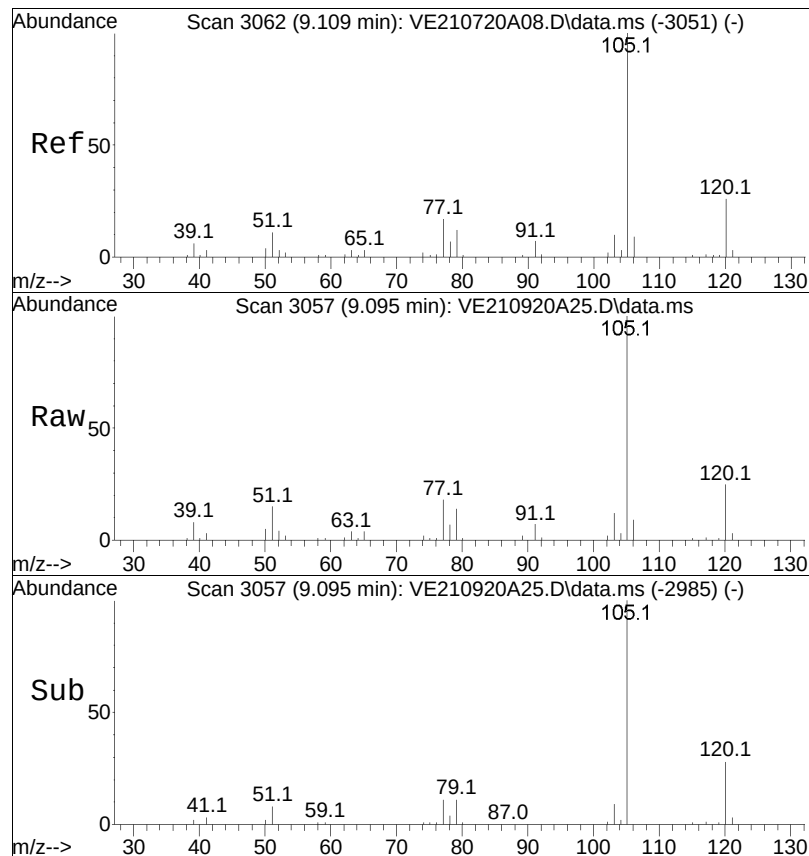




#80
 Bromoform
 Concen: 5.76 ug/L
 RT: 8.928 min Scan# 2997
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

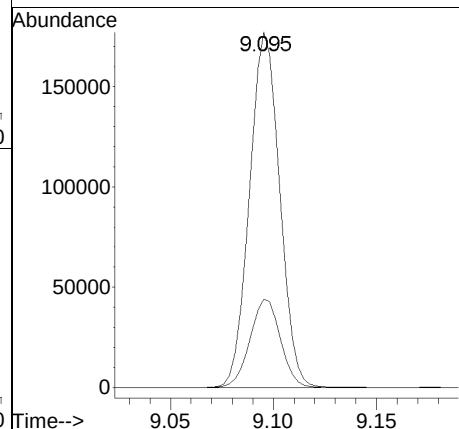
Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.6	31.5	71.5

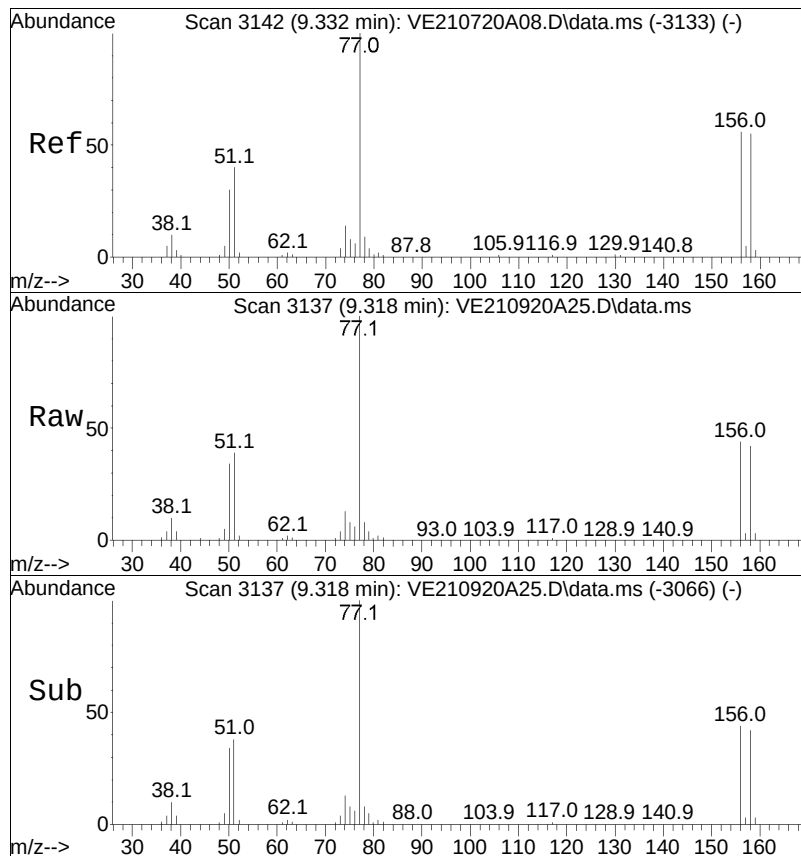




#82
Isopropylbenzene
Concen: 8.58 ug/L
RT: 9.095 min Scan# 3057
Delta R.T. 0.000 min
Lab File: VE210920A25.D
Acq: 20 Sep 2021 3:26 pm

Tgt	Ion	Ratio	Lower	Upper
105	100			
120	25.0	4.8	44.8	





#84

Bromobenzene

Concen: 7.71 ug/L

RT: 9.318 min Scan# 3137

Delta R.T. -0.003 min

Lab File: VE210920A25.D

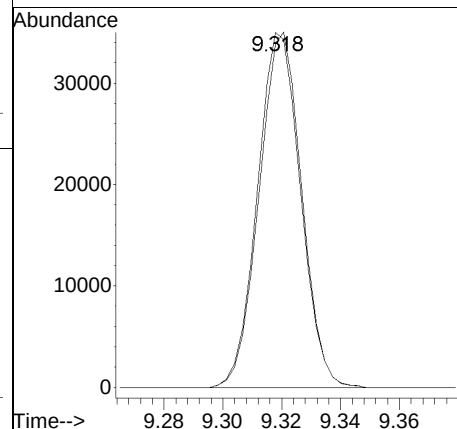
Acq: 20 Sep 2021 3:26 pm

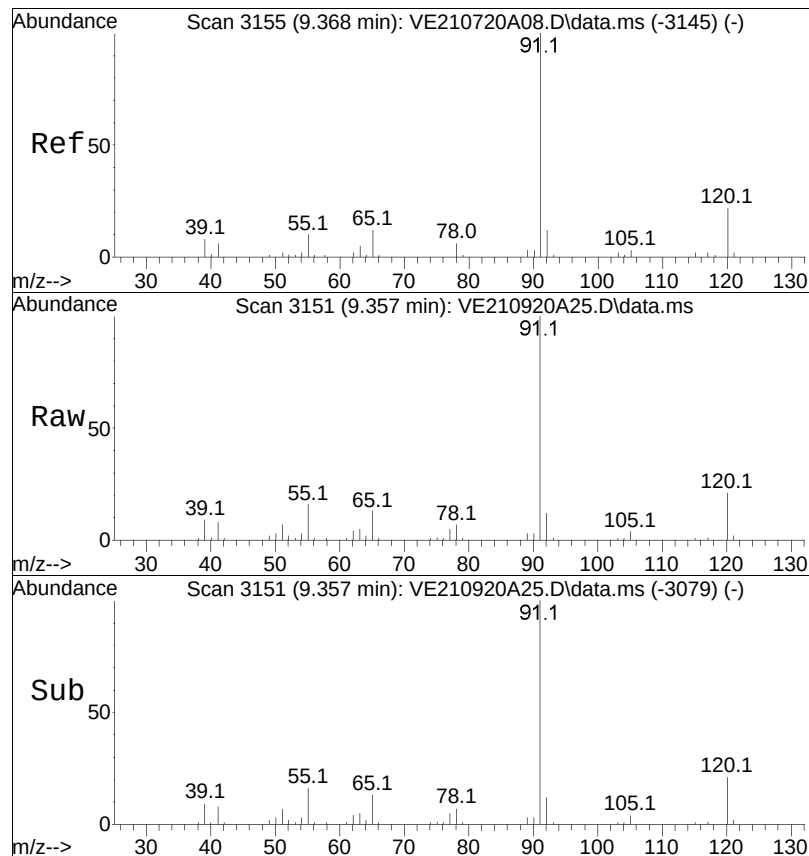
Tgt Ion:156 Resp: 35498

Ion Ratio Lower Upper

156 100

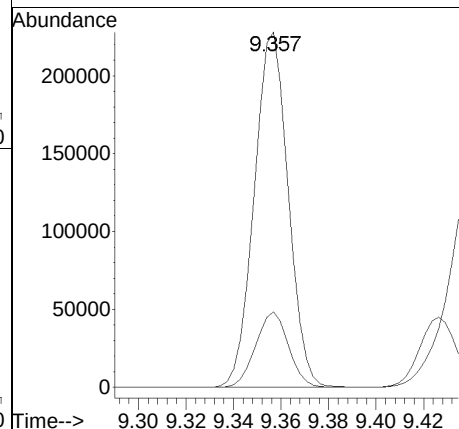
158 98.7 75.9 113.9

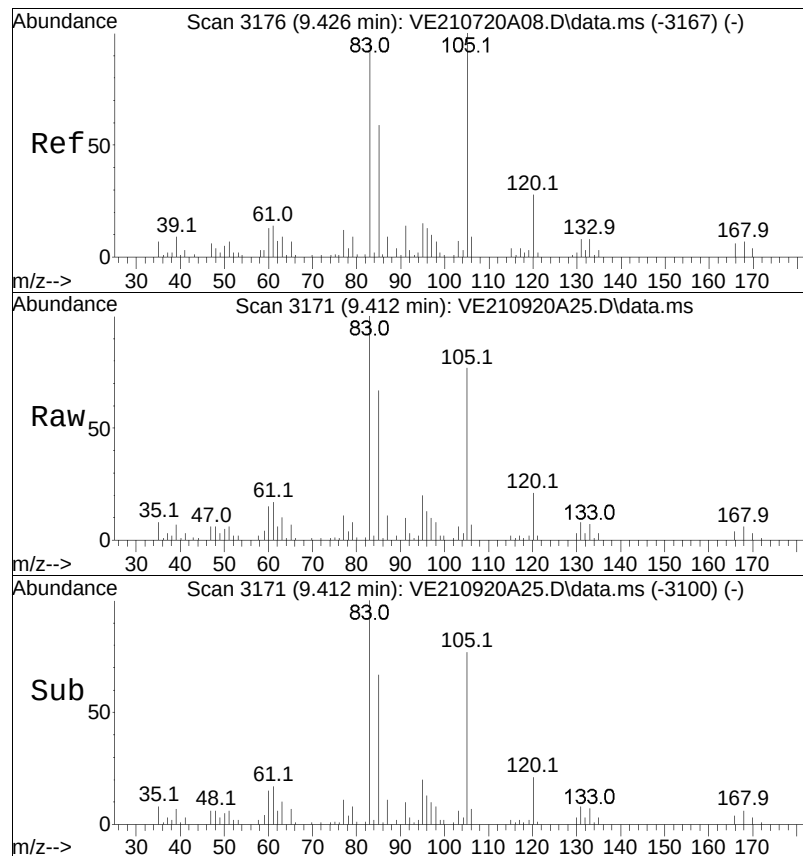




#85
 n-Propylbenzene
 Concen: 8.97 ug/L
 RT: 9.357 min Scan# 3151
 Delta R.T. -0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

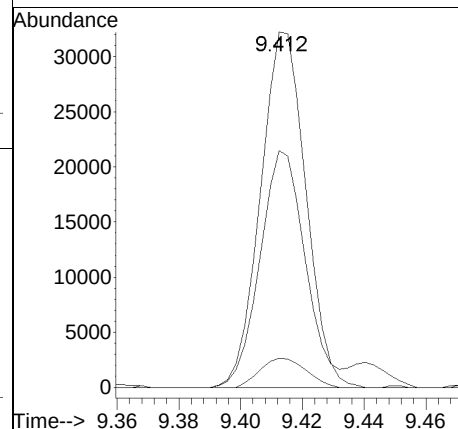
Tgt	Ion	Resp	Lower	Upper
91	100	225938		
120	20.5	17.0	25.6	

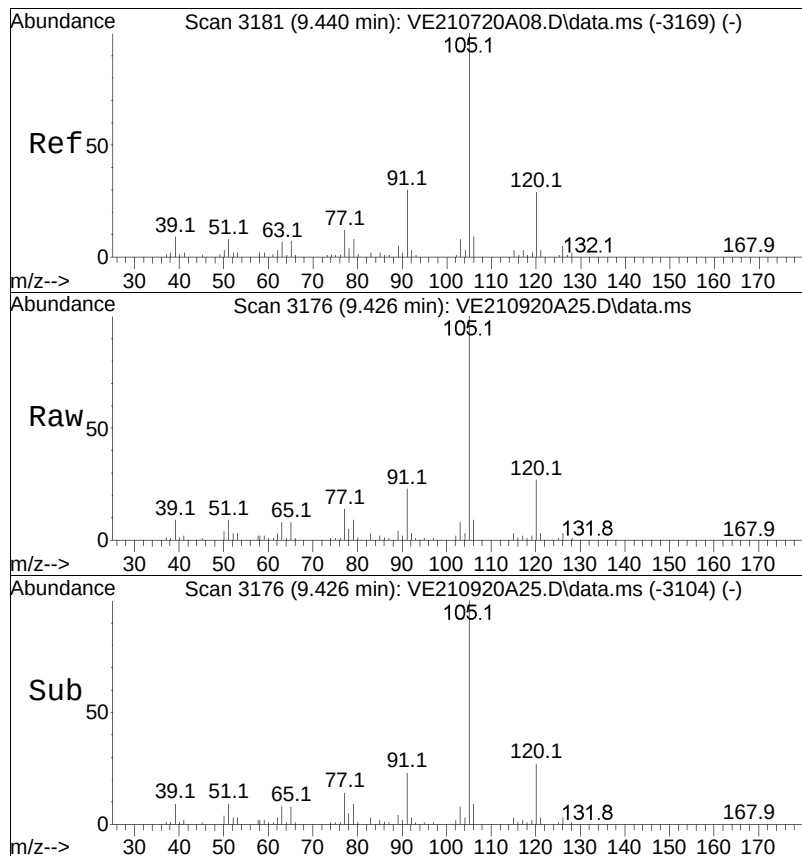




#87
 1,1,2,2-Tetrachloroethane
 Concen: 7.69 ug/L
 RT: 9.412 min Scan# 3171
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

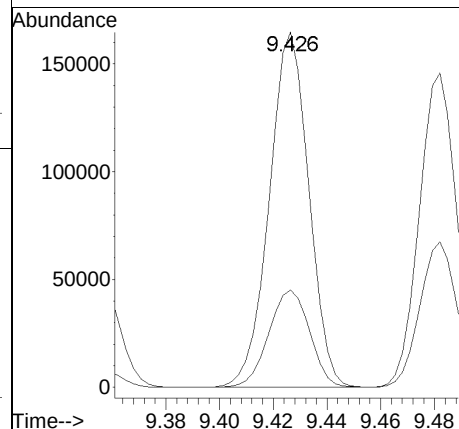
Tgt Ion:	83	Resp:	32800
Ion Ratio	Lower	Upper	
83	100		
131	8.3	0.0	30.4
85	66.8	45.4	85.4

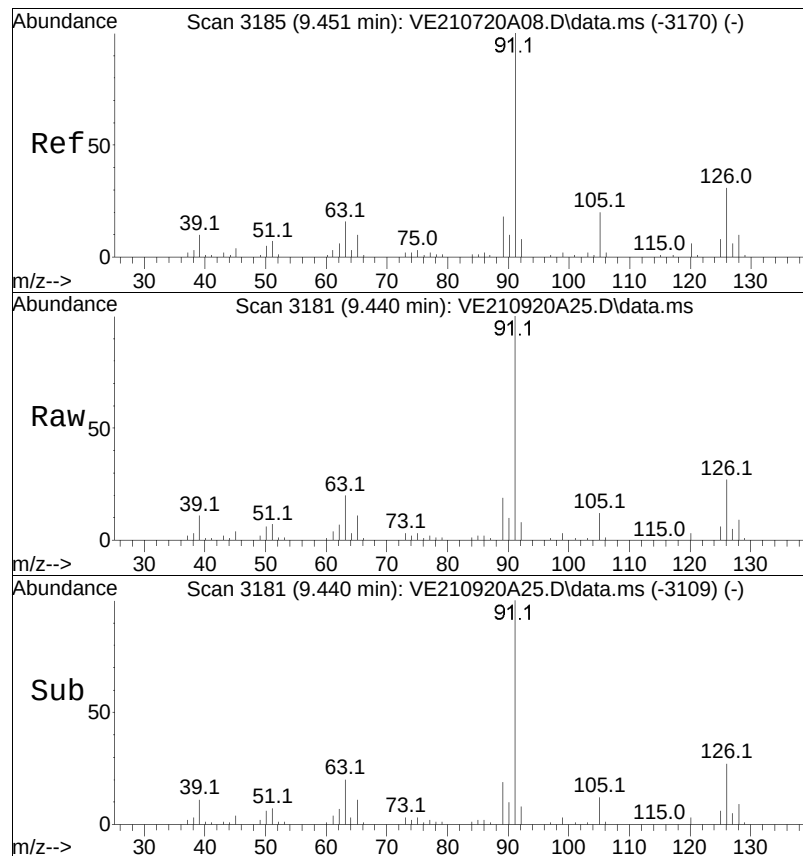




#88
 4-Ethyltoluene
 Concen: 8.51 ug/L
 RT: 9.426 min Scan# 3176
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

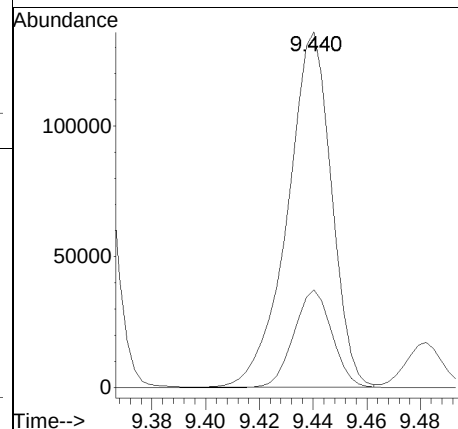
Tgt Ion	105	120	Ratio	Lower	Upper
105	100				
120	28.4		18.1	37.7	

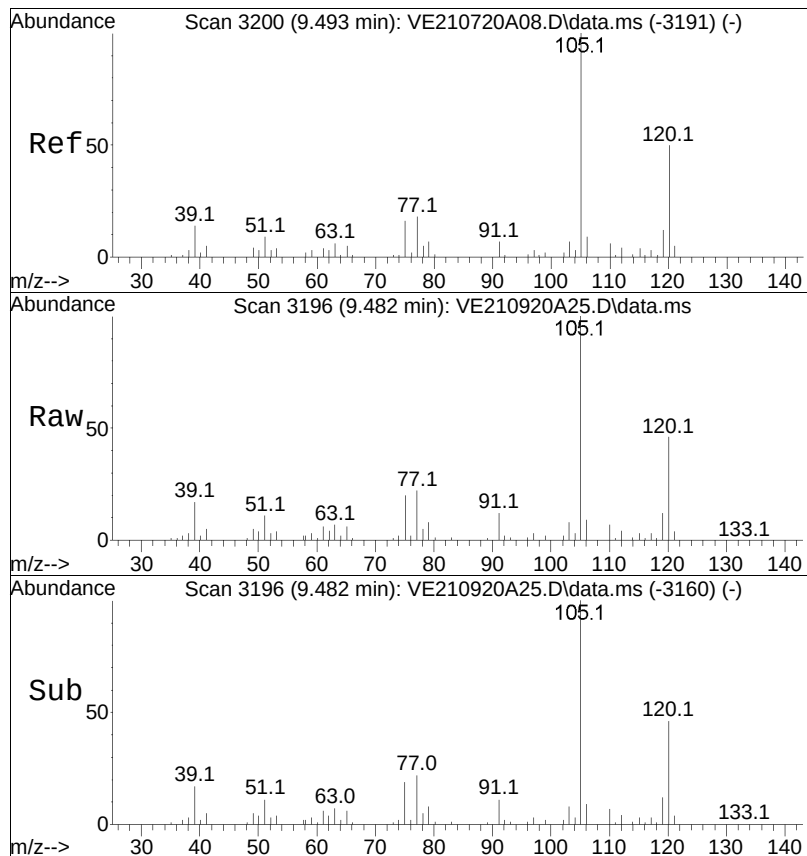




#89
 2-Chlorotoluene
 Concen: 8.42 ug/L
 RT: 9.440 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

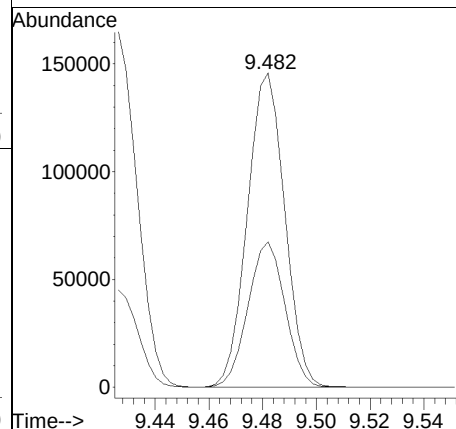
Tgt Ion	Ratio	Lower	Upper
91	100		
126	23.8	21.5	32.3

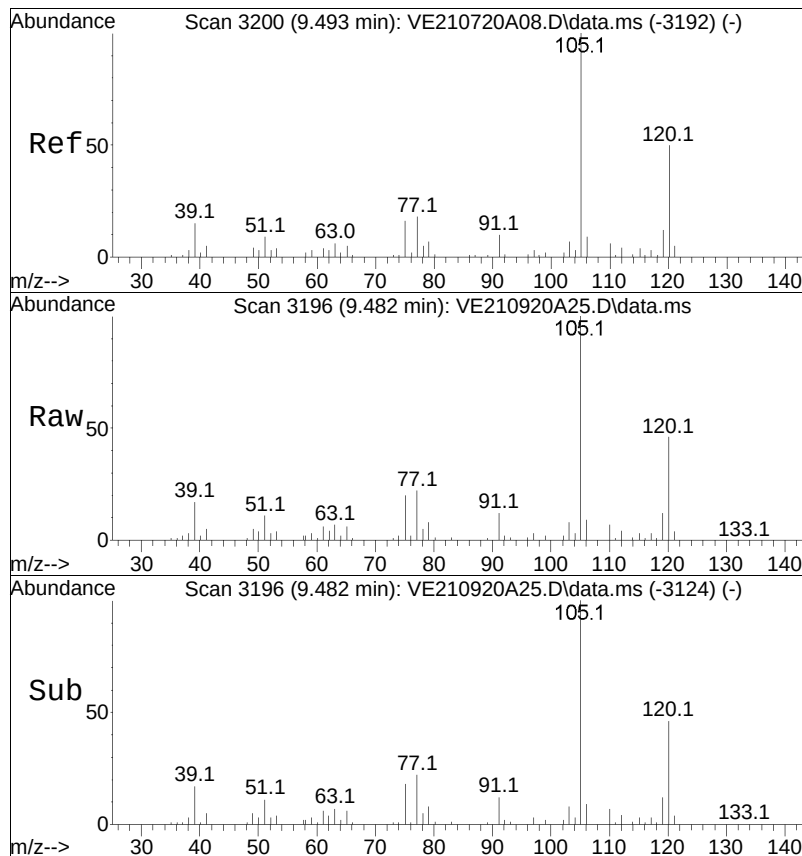




#90
 1,3,5-Trimethylbenzene
 Concen: 8.05 ug/L
 RT: 9.482 min Scan# 3196
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

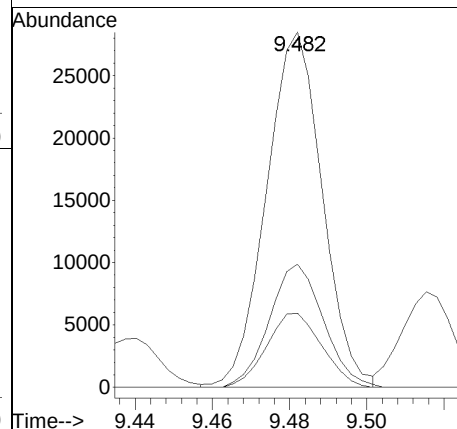
Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	34.8	52.2

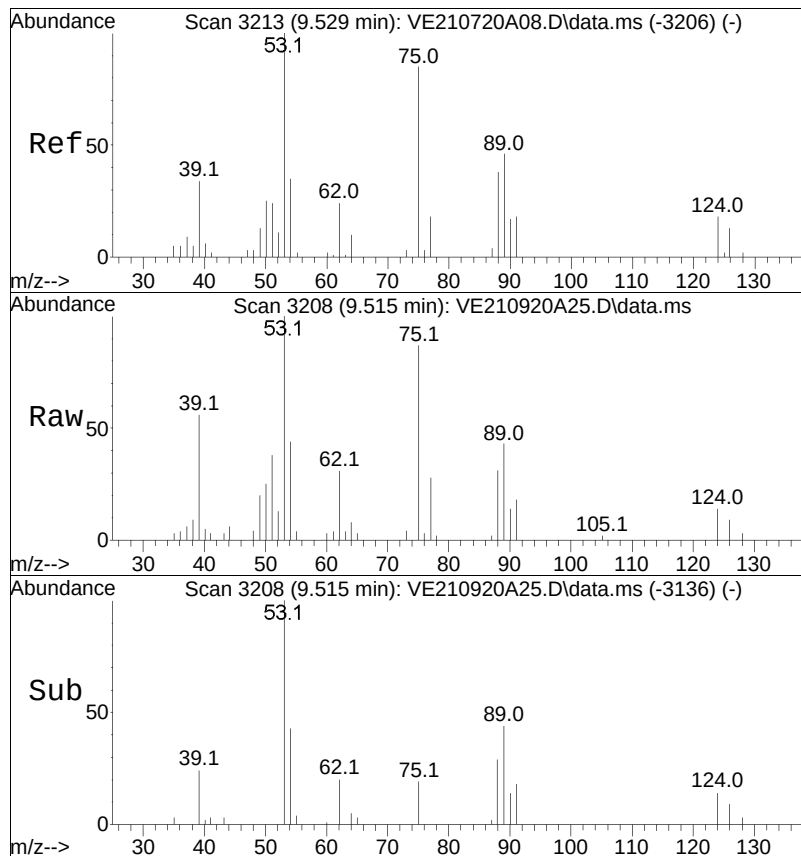




#91
 1,2,3-Trichloropropane
 Concen: 7.41 ug/L
 RT: 9.482 min Scan# 3196
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

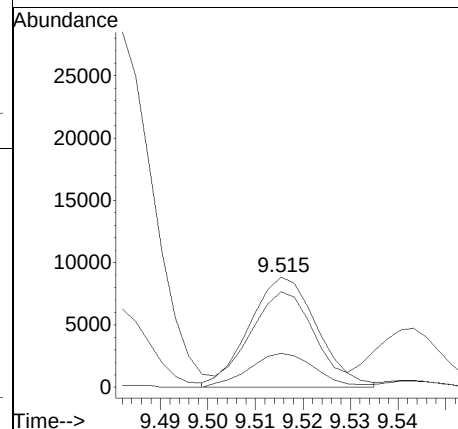
Tgt	Ion: 75	Resp:	28638
Ion	Ratio	Lower	Upper
75	100		
110	33.5	25.4	52.8
112	20.7	15.6	32.4

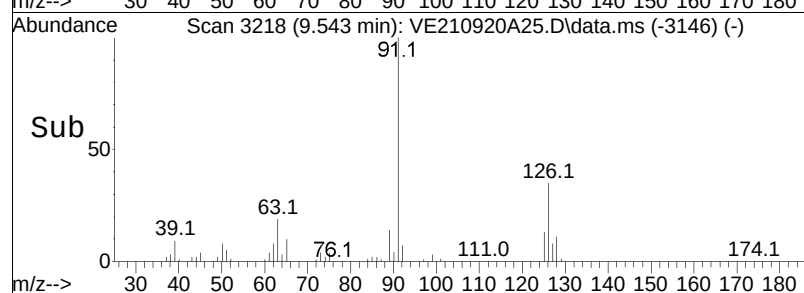
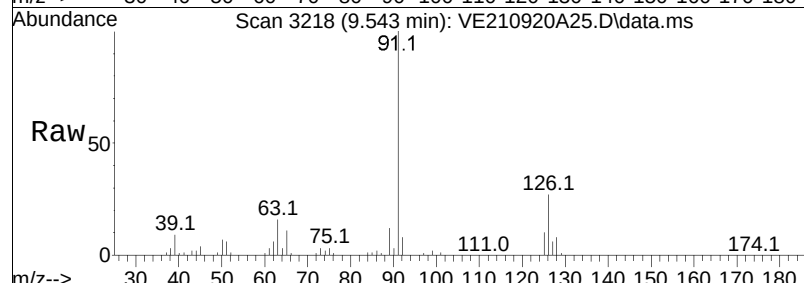
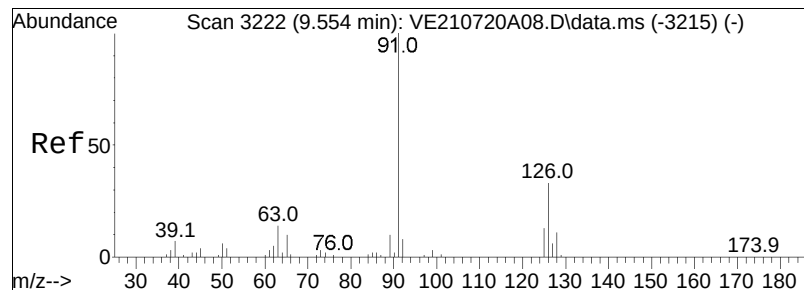




#92
 trans-1,4-Dichloro-2-butene
 Concen: 5.41 ug/L
 RT: 9.515 min Scan# 3208
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

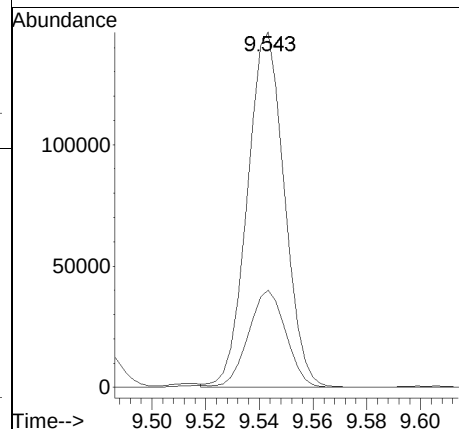
Tgt	Ion	Ratio	Lower	Upper
53	100			
88	30.4	39.6	59.4#	
75	81.8	70.2	105.4	

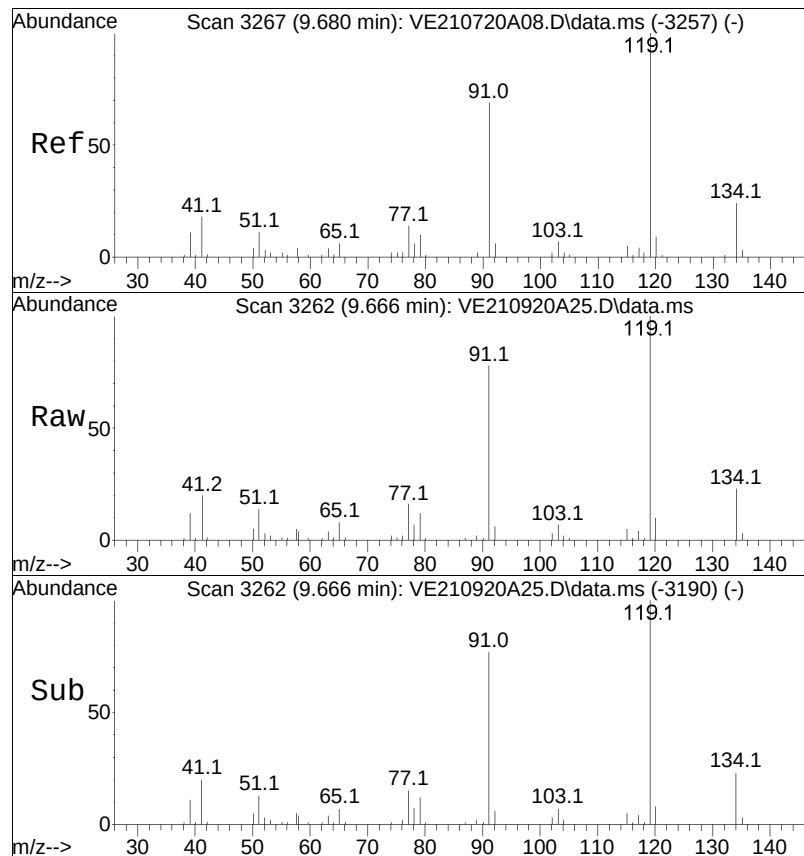




#93
 4-Chlorotoluene
 Concen: 8.38 ug/L
 RT: 9.543 min Scan# 3218
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

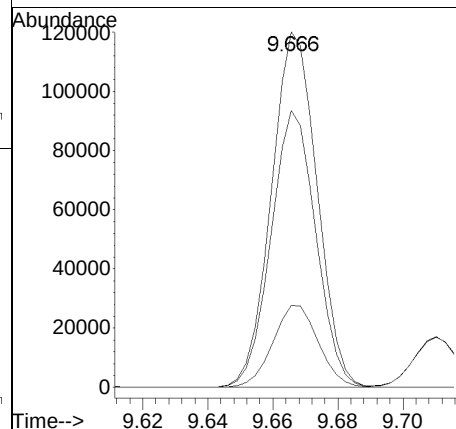
Tgt	Ion	Resp	Lower	Upper
91	100			
126	28.1	24.6	36.8	

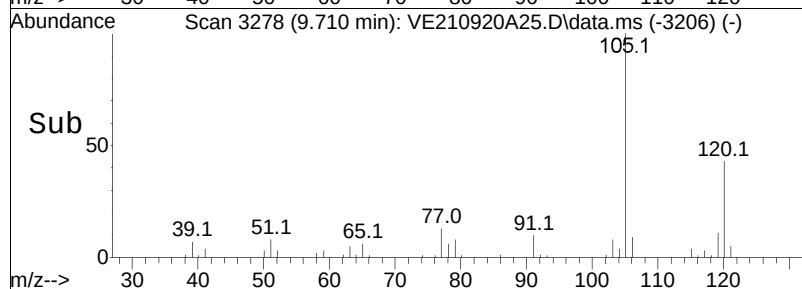
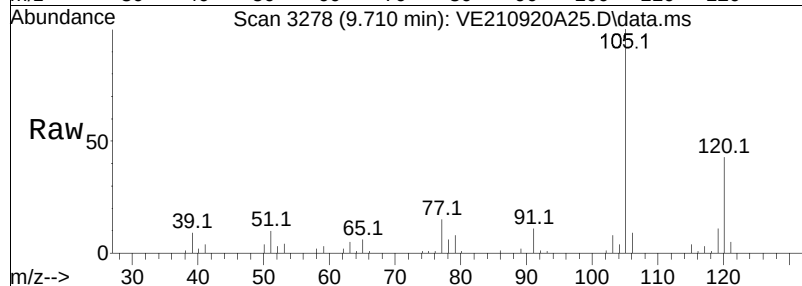
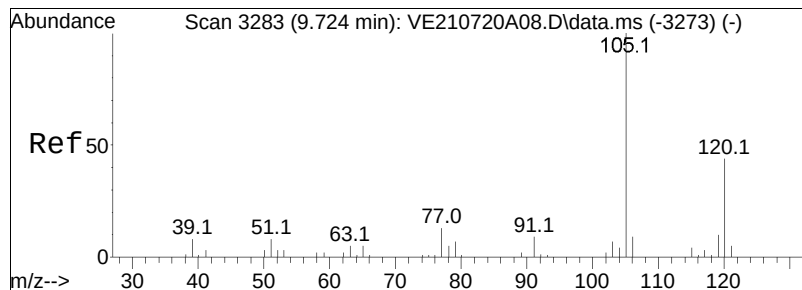




#94
 tert-Butylbenzene
 Concen: 8.30 ug/L
 RT: 9.666 min Scan# 3262
 Delta R.T. -0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

Tgt	Ion:119	Resp:	117422
Ion	Ratio	Lower	Upper
119	100		
91	76.5	51.4	77.2
134	23.1	18.3	27.5





#97

1,2,4-Trimethylbenzene

Concen: 8.20 ug/L

RT: 9.710 min Scan# 3278

Delta R.T. 0.000 min

Lab File: VE210920A25.D

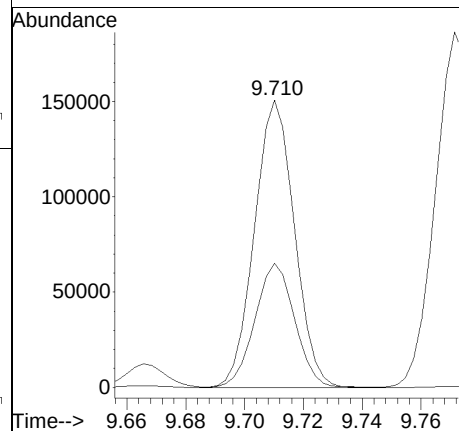
Acq: 20 Sep 2021 3:26 pm

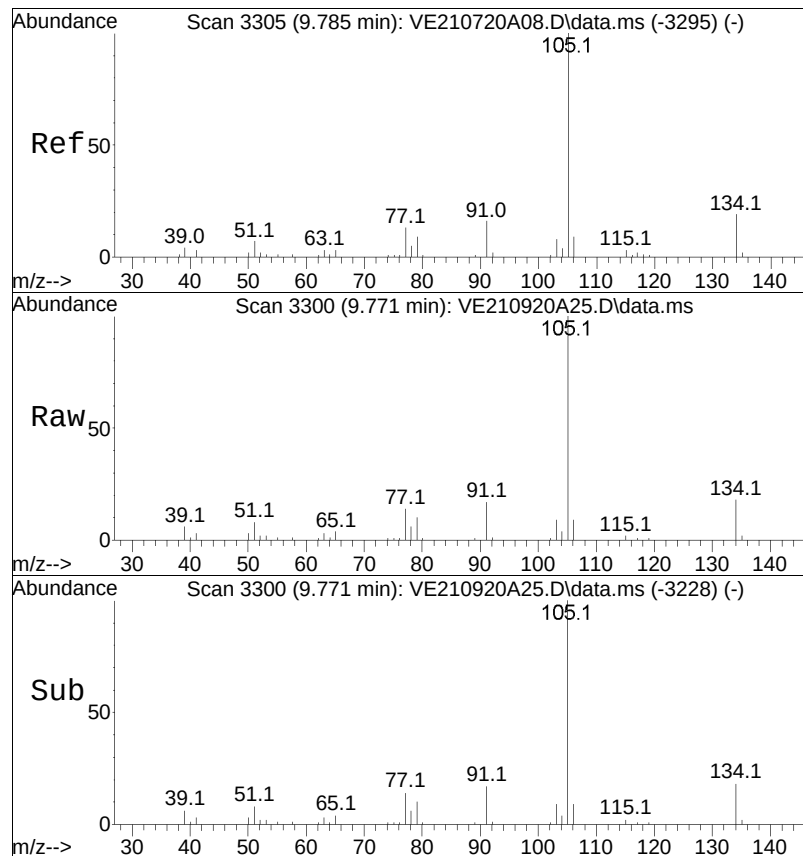
Tgt Ion:105 Resp: 142193

Ion Ratio Lower Upper

105 100

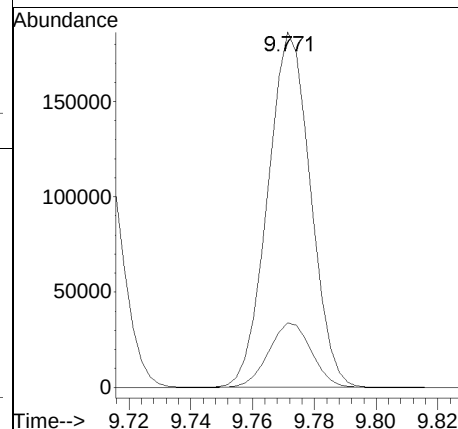
120 42.9 33.4 50.0

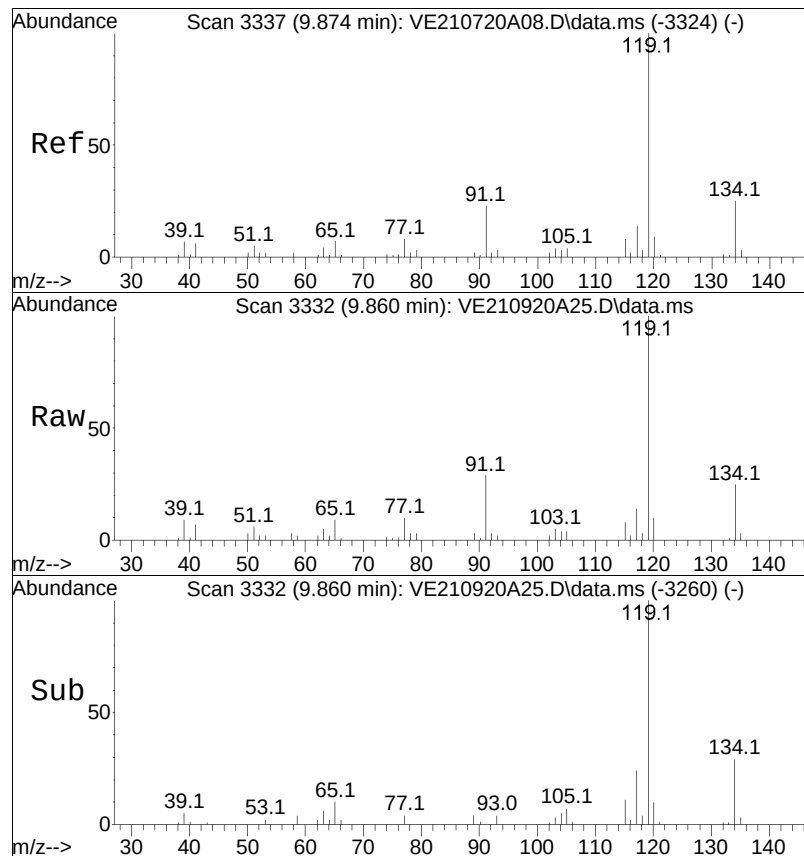




#98
 sec-Butylbenzene
 Concen: 8.37 ug/L
 RT: 9.771 min Scan# 3300
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

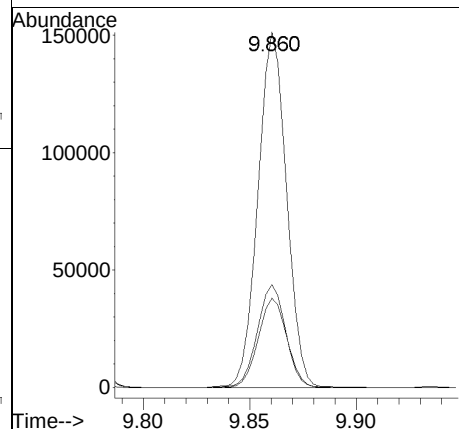
Tgt	Ion	Ratio	Lower	Upper
105	100			
134	18.2	12.5	26.1	

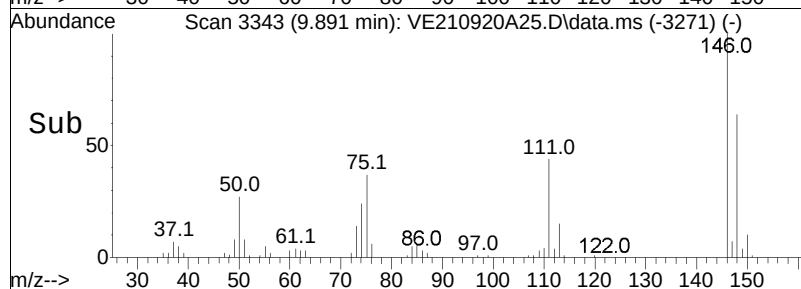
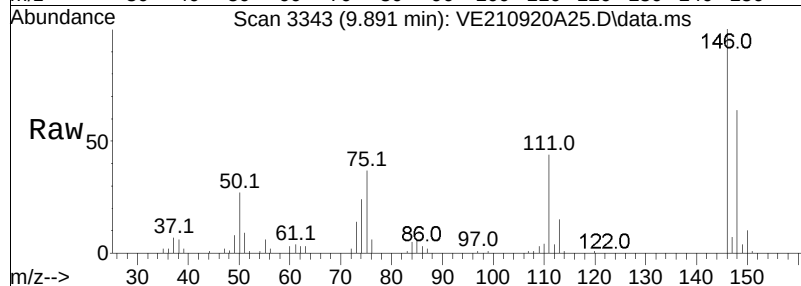
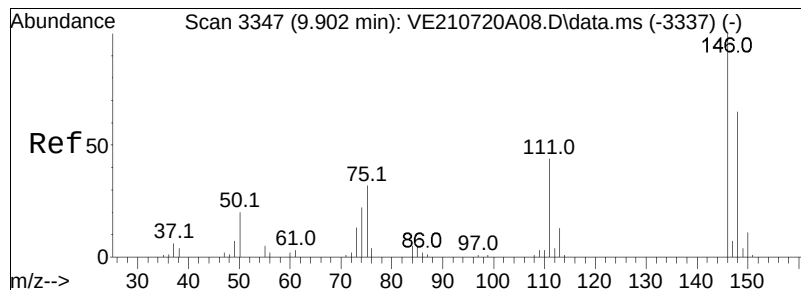




#99
 p-Isopropyltoluene
 Concen: 8.00 ug/L
 RT: 9.860 min Scan# 3332
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

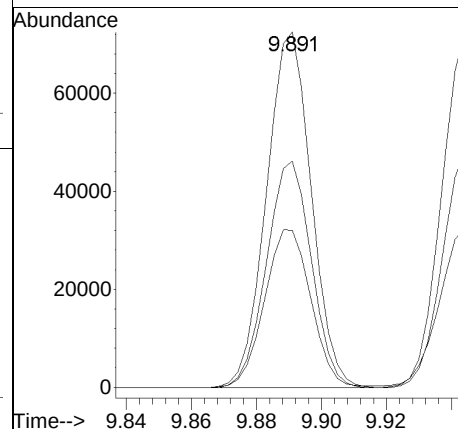
Tgt Ion:	119	Resp:	140882
Ion Ratio	Lower	Upper	
119	100		
134	25.1	16.1	33.3
91	28.5	17.3	35.9

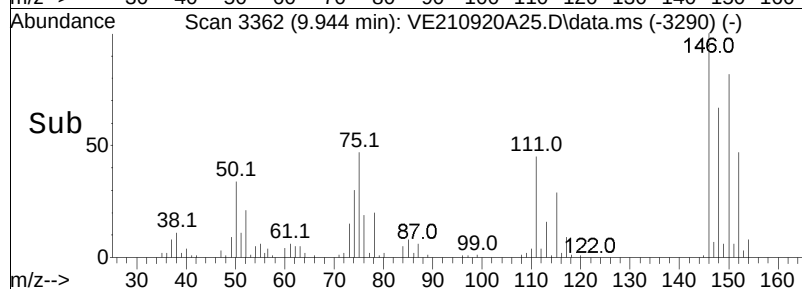
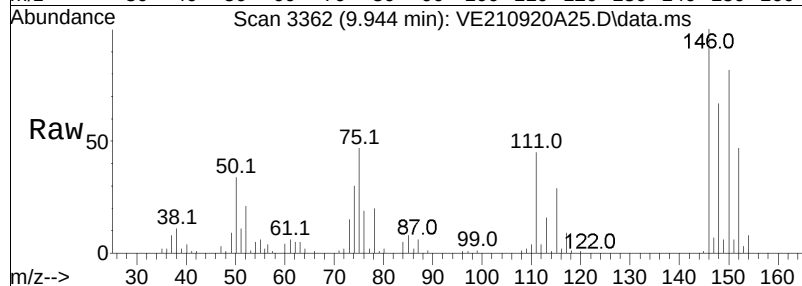
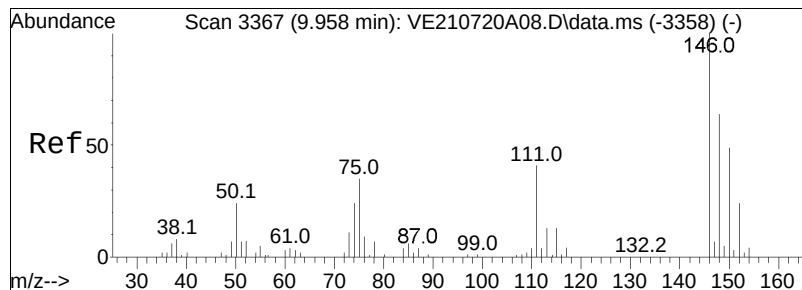




#100
 1,3-Dichlorobenzene
 Concen: 8.00 ug/L
 RT: 9.891 min Scan# 3343
 Delta R.T. -0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

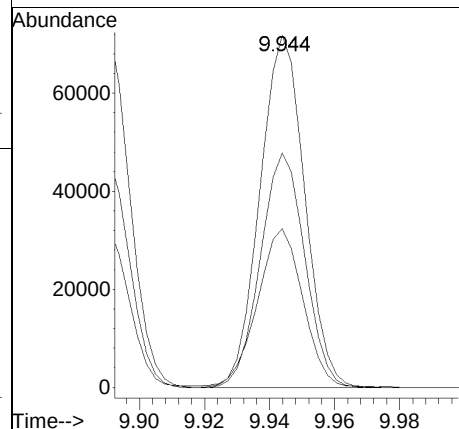
Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.1	27.5	57.1
148	63.8	41.9	86.9

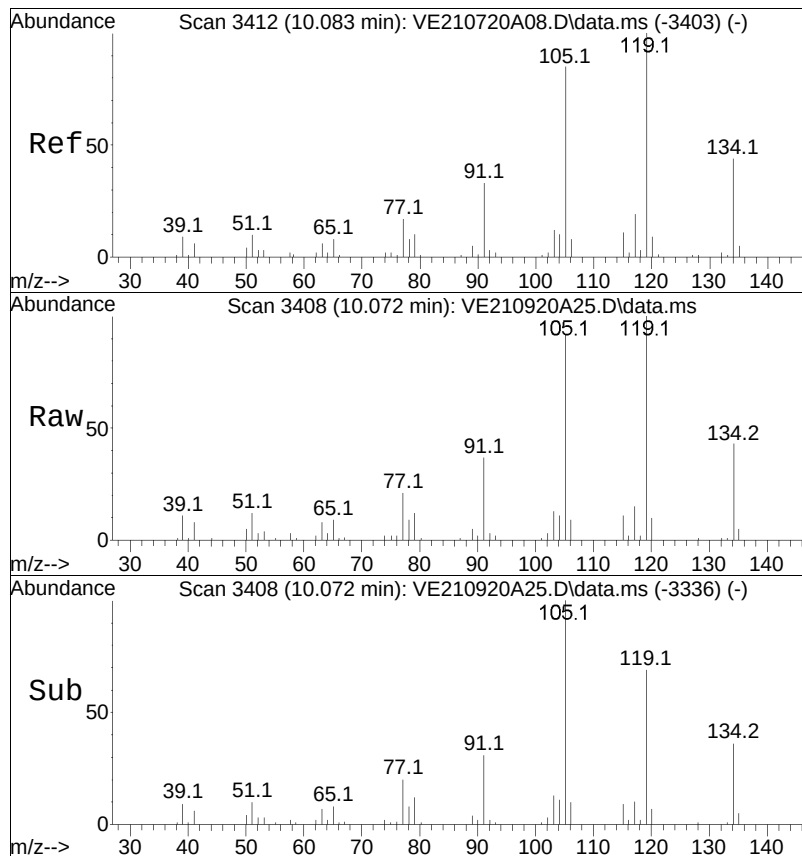




#101
 1,4-Dichlorobenzene
 Concen: 7.89 ug/L
 RT: 9.944 min Scan# 3362
 Delta R.T. -0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

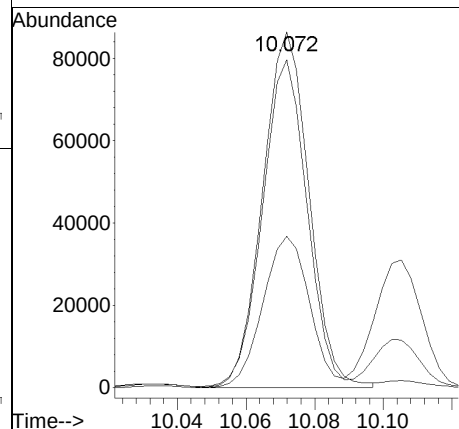
Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.1	32.3	48.5
148	65.9	49.9	74.9

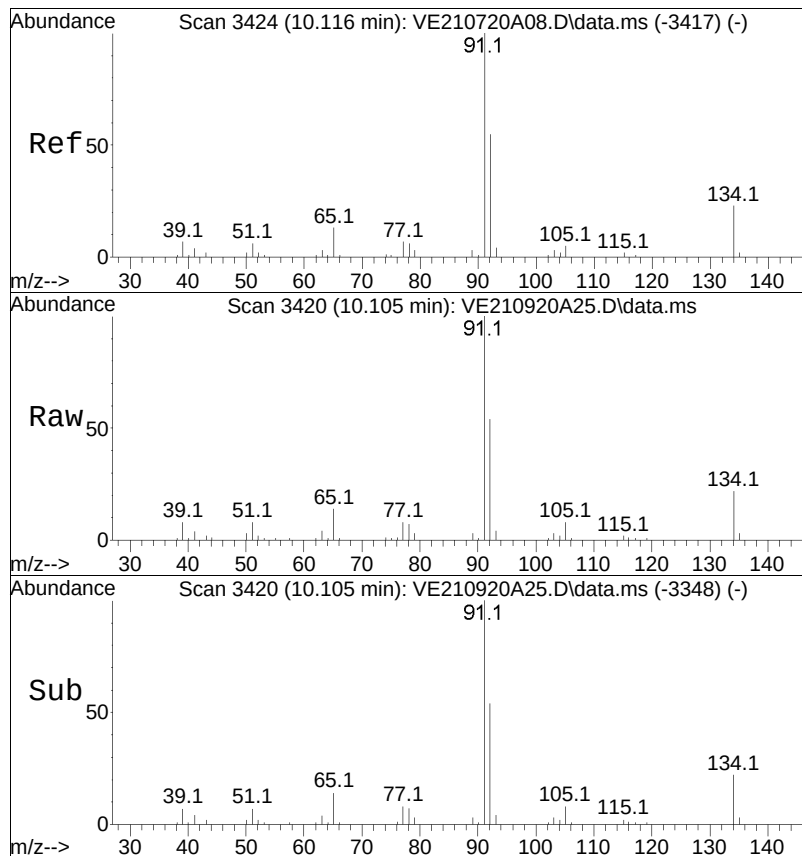




#102
 p-Diethylbenzene
 Concen: 7.97 ug/L
 RT: 10.072 min Scan# 3408
 Delta R.T. -0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

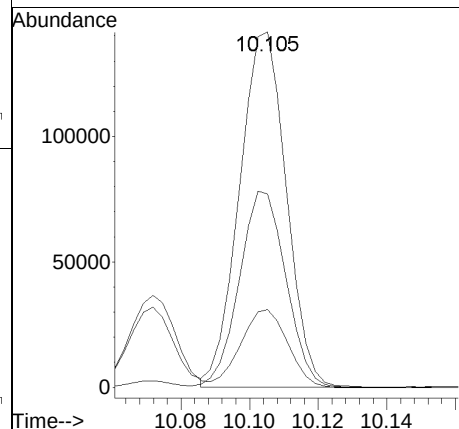
Tgt Ion:	119	Resp:	80811
Ion Ratio	Lower	Upper	
119	100		
105	88.3	59.5	123.7
134	42.8	30.2	62.6

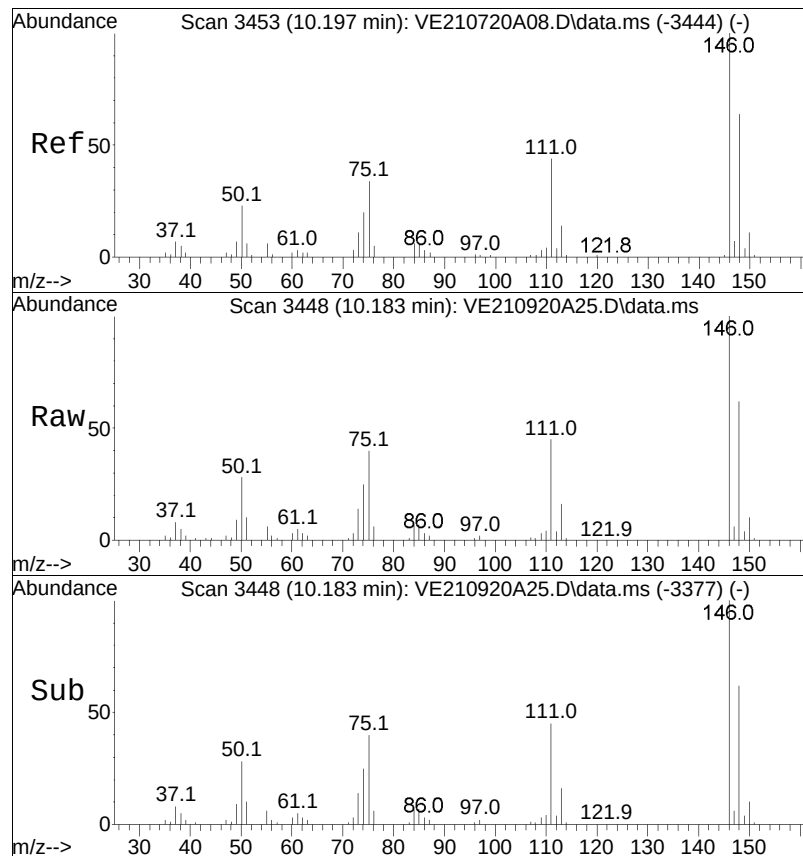




#103
 n-Butylbenzene
 Concen: 8.29 ug/L
 RT: 10.105 min Scan# 3420
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

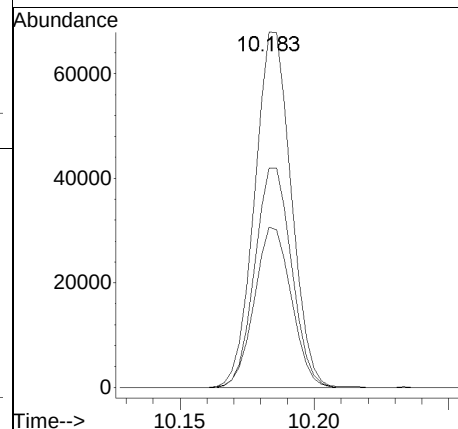
Tgt Ion:	91	Resp:	134433
Ion Ratio	Lower	Upper	
91	100		
92	55.0	43.0	64.4
134	21.9	19.6	29.4

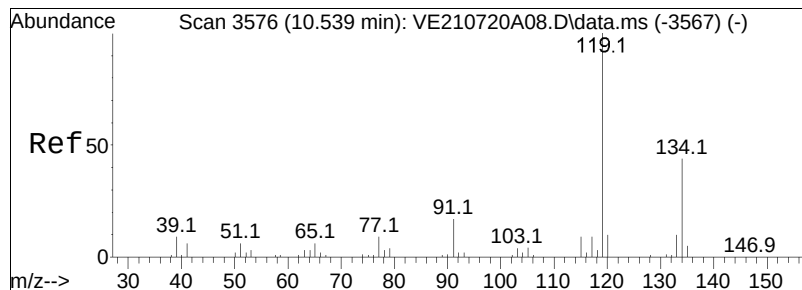




#104
 1,2-Dichlorobenzene
 Concen: 7.82 ug/L
 RT: 10.183 min Scan# 3448
 Delta R.T. -0.003 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.5	28.3	58.7
148	61.9	42.3	87.8





#105

1,2,4,5-Tetramethylbenzene

Concen: 7.48 ug/L

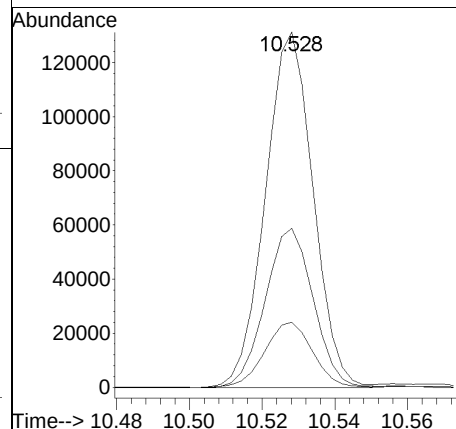
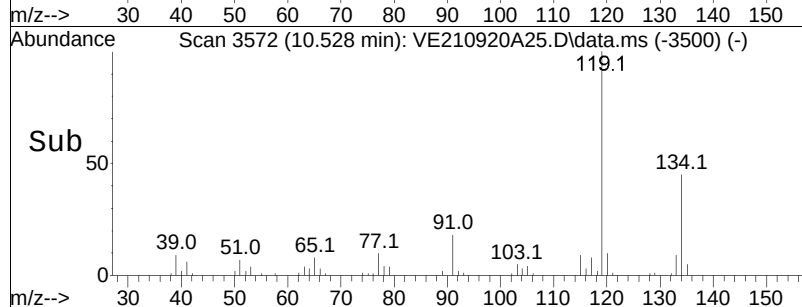
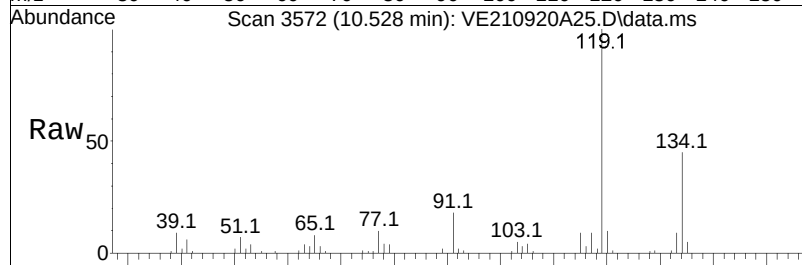
RT: 10.528 min Scan# 3572

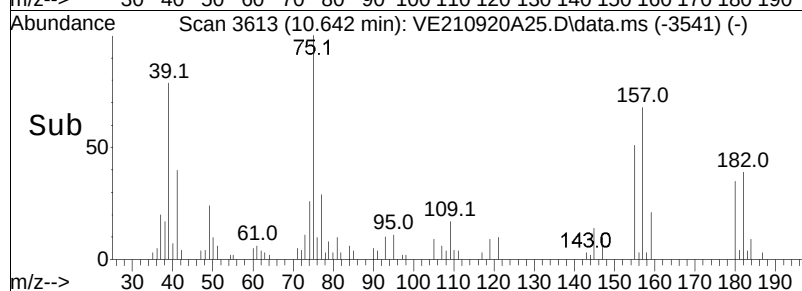
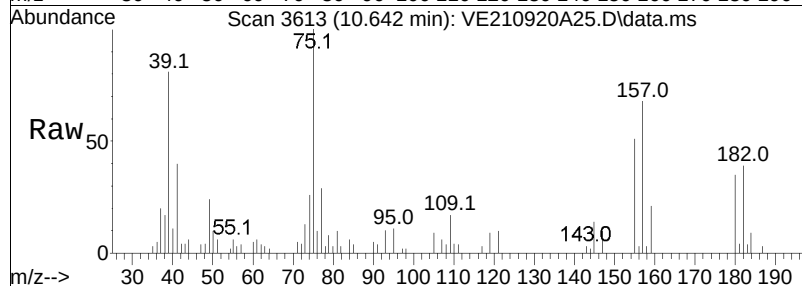
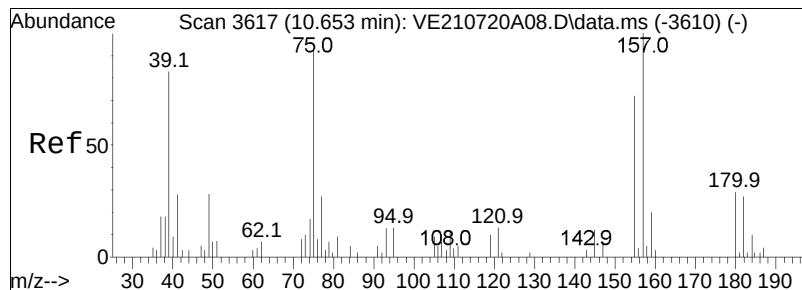
Delta R.T. 0.000 min

Lab File: VE210920A25.D

Acq: 20 Sep 2021 3:26 pm

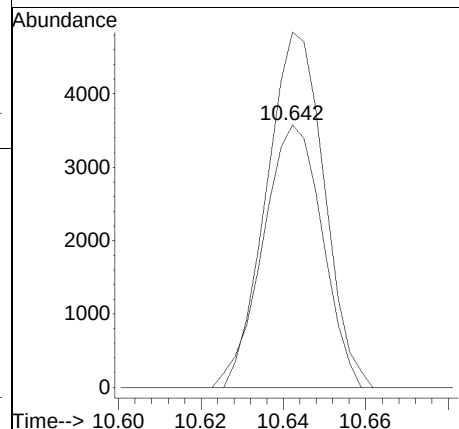
Tgt	Ion:119	Resp:	119648
Ion	Ratio	Lower	Upper
119	100		
134	45.1	30.5	63.3
91	18.5	12.4	25.7

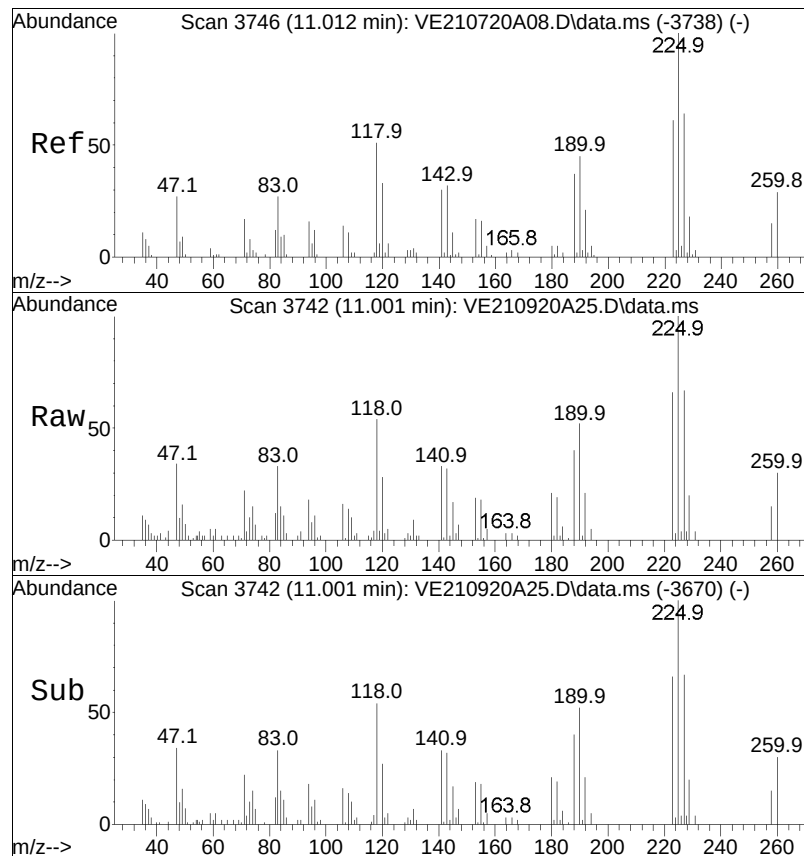




#106
 1,2-Dibromo-3-chloropropane
 Concen: 5.76 ug/L
 RT: 10.642 min Scan# 3613
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

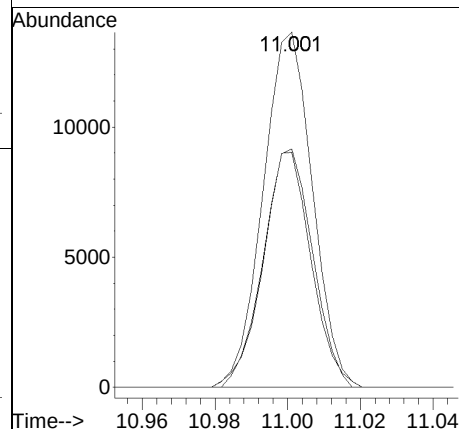
Tgt Ion	Ratio	Lower	Upper
155	100		
157	131.1	94.8	142.2

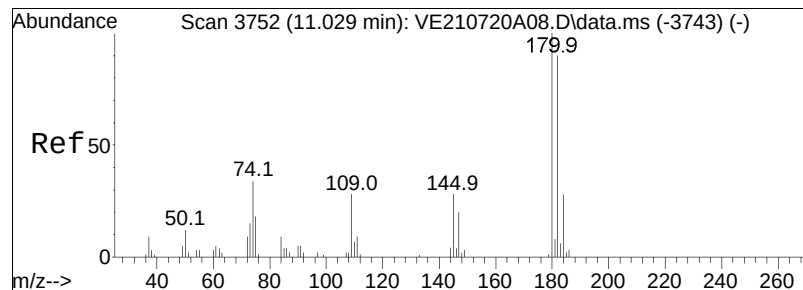




#108
 Hexachlorobutadiene
 Concen: 6.84 ug/L
 RT: 11.001 min Scan# 3742
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

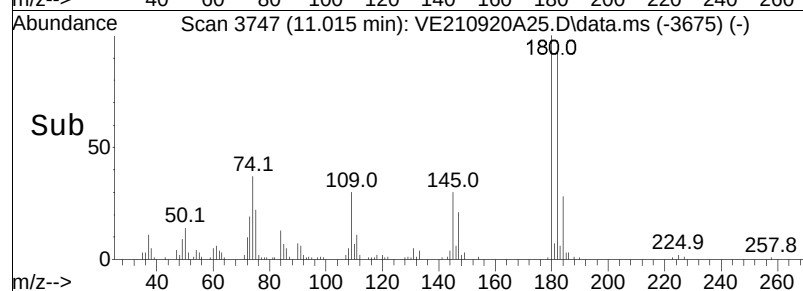
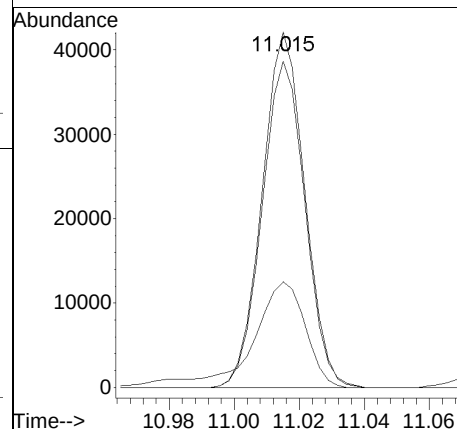
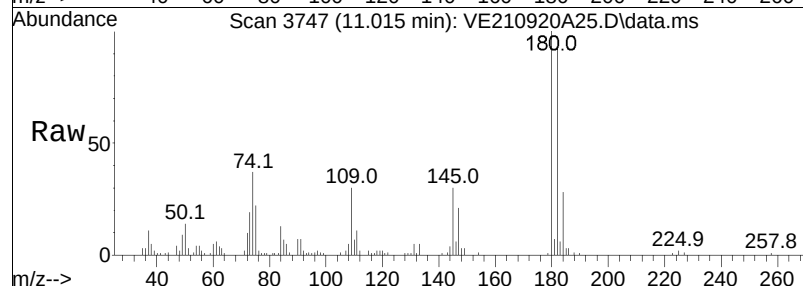
Tgt	Ion:225	Resp:	12906
Ion	Ratio	Lower	Upper
225	100		
223	64.8	54.3	81.5
227	67.0	52.4	78.6

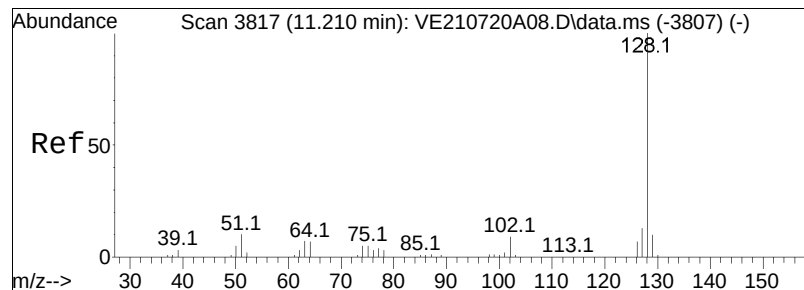




#109
 1,2,4-Trichlorobenzene
 Concen: 7.22 ug/L
 RT: 11.015 min Scan# 3747
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

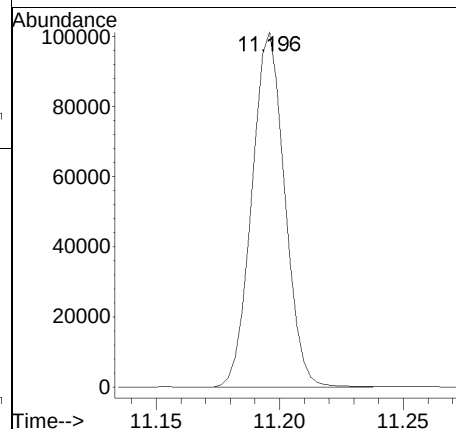
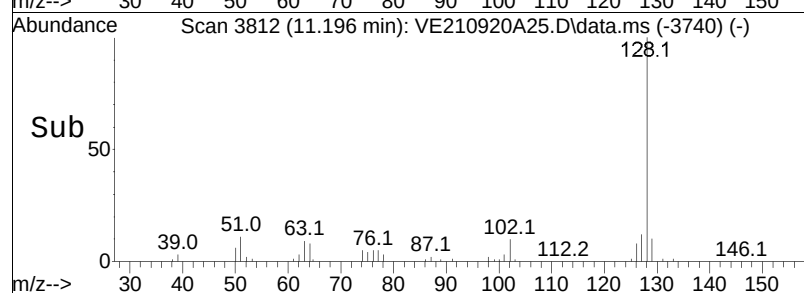
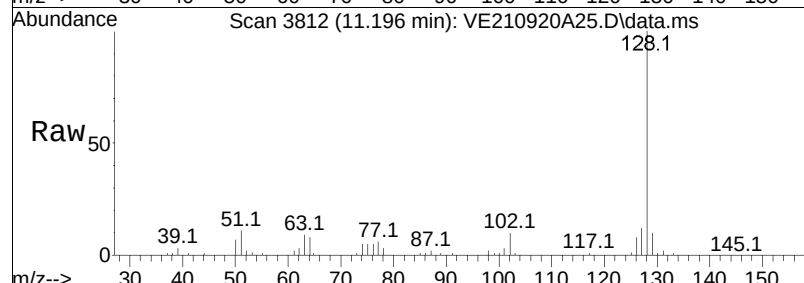
Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.7	77.3	115.9
145	37.7	28.1	42.1

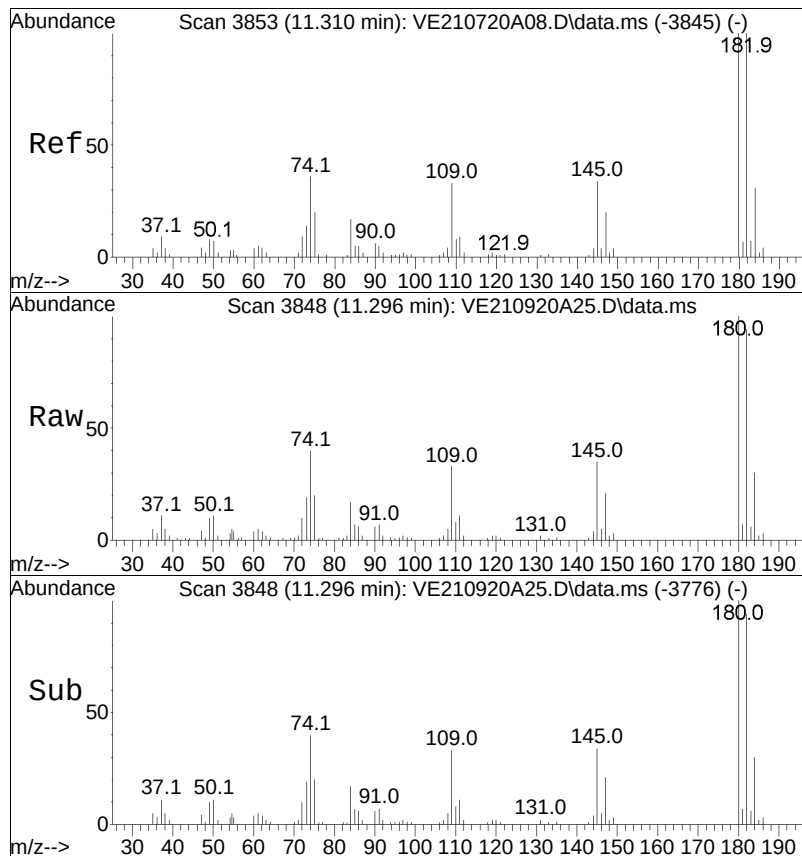




#110
Naphthalene
Concen: 7.17 ug/L
RT: 11.196 min Scan# 3812
Delta R.T. -0.000 min
Lab File: VE210920A25.D
Acq: 20 Sep 2021 3:26 pm

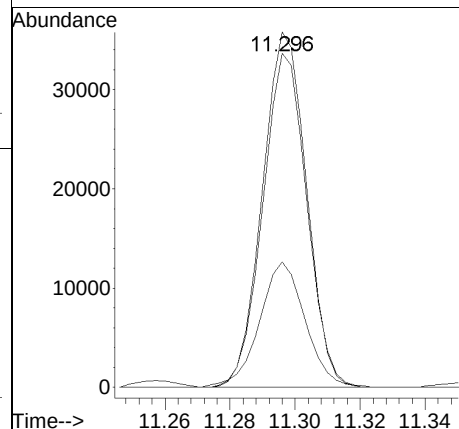
Tgt Ion:128 Resp: 93751





#111
 1,2,3-Trichlorobenzene
 Concen: 6.98 ug/L
 RT: 11.296 min Scan# 3848
 Delta R.T. 0.000 min
 Lab File: VE210920A25.D
 Acq: 20 Sep 2021 3:26 pm

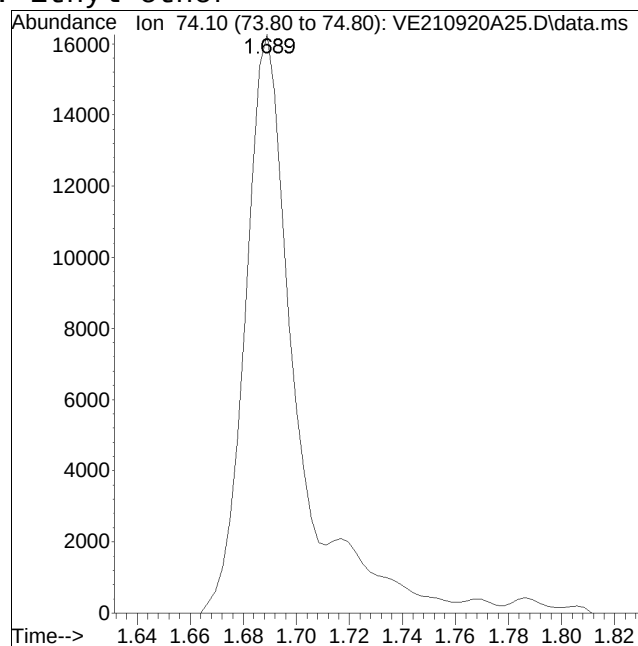
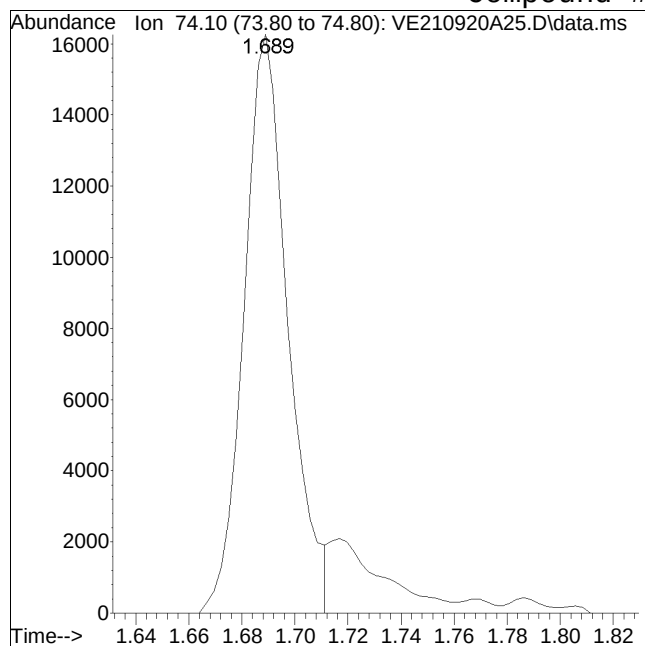
Tgt	Ion:180	Resp:	33712
Ion	Ratio	Lower	Upper
180	100		
182	94.0	76.4	114.6
145	36.6	26.4	39.6



Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A25.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 3:26 pm Instrument : Elaine
Sample : WG1548873-6,31,10,10,,A1,PQuant Date : 9/21/2021 10:49 am

Compound #8: Ethyl ether



Original Peak Response = 18725

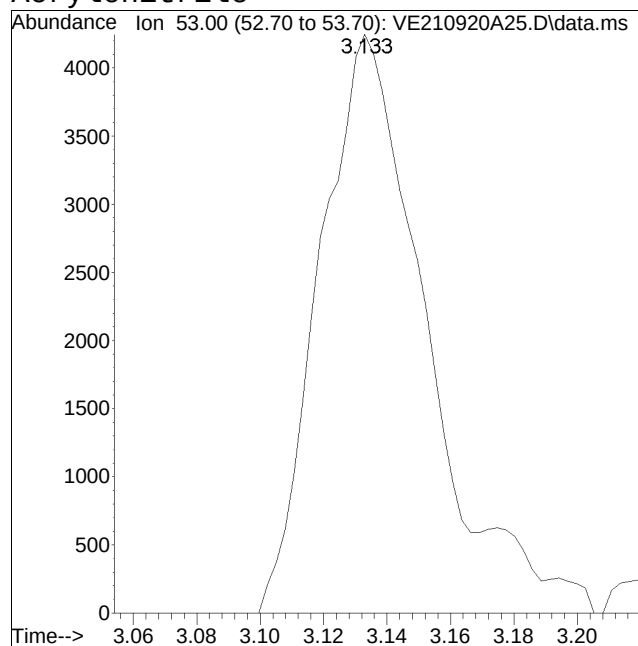
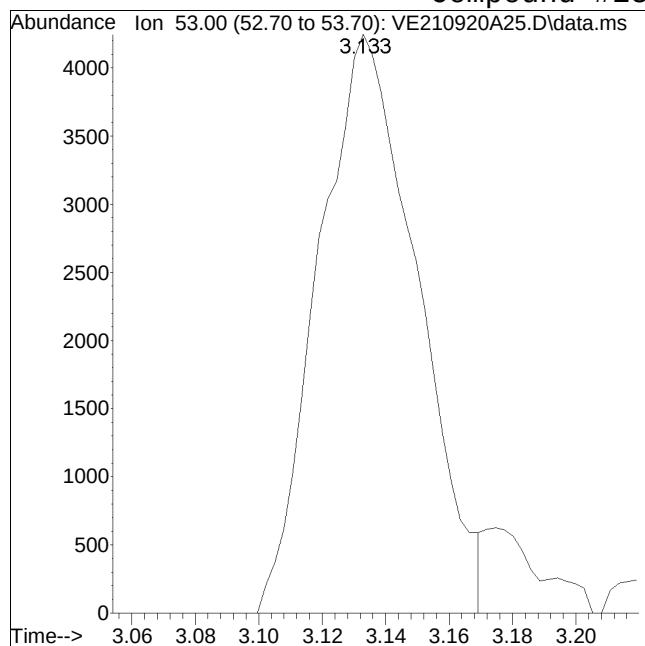
Manual Peak Response = 22459 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A25.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 3:26 pm Instrument : Elaine
Sample : WG1548873-6,31,10,10,,A1,PQuant Date : 9/21/2021 10:49 am

Compound #25: Acrylonitrile



Original Peak Response = 9159

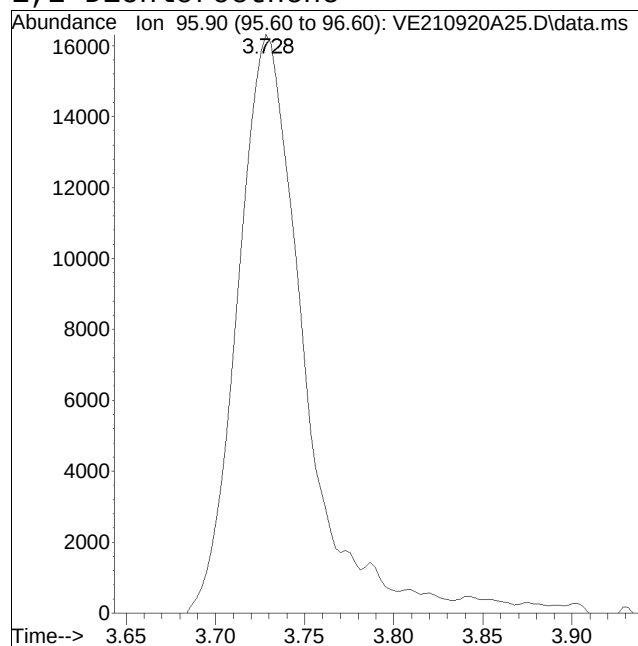
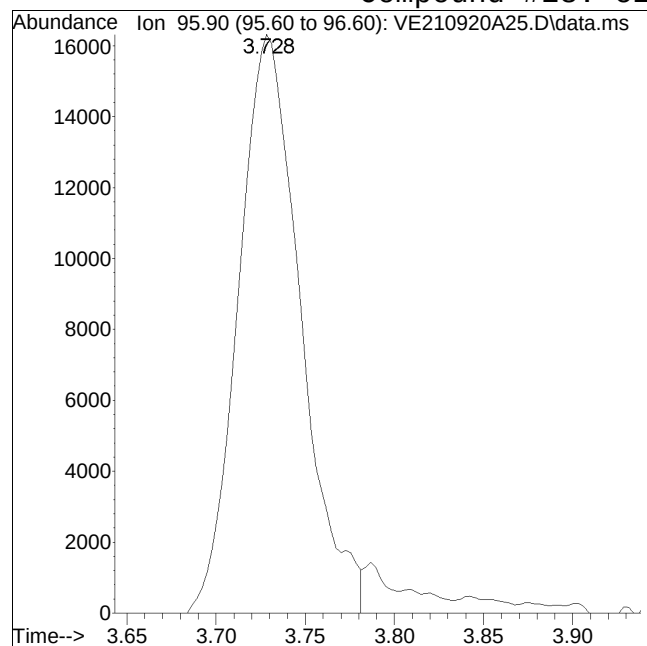
Manual Peak Response = 9921 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A25.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 3:26 pm Instrument : Elaine
Sample : WG1548873-6,31,10,10,,A1,PQuant Date : 9/21/2021 10:49 am

Compound #28: cis-1,2-Dichloroethene



Original Peak Response = 39395

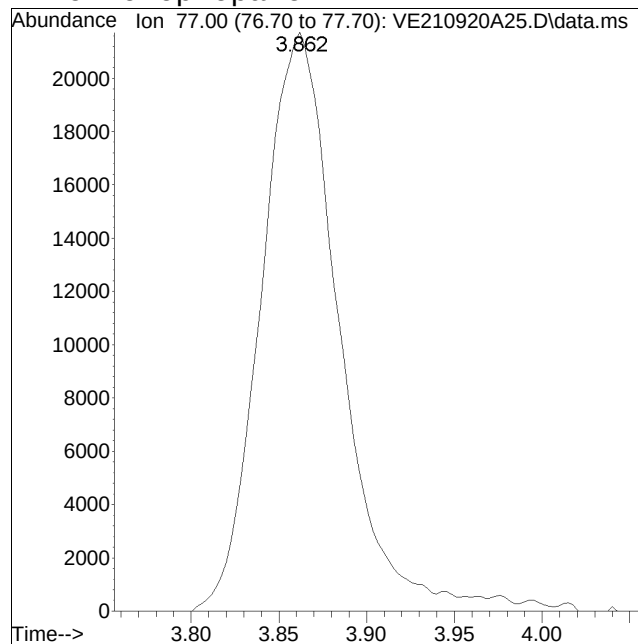
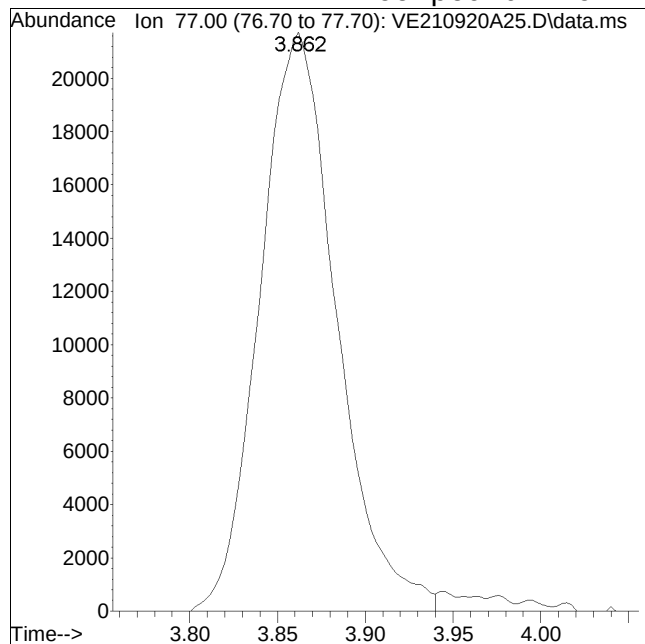
Manual Peak Response = 42918 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A25.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 3:26 pm Instrument : Elaine
Sample : WG1548873-6,31,10,10,,A1,PQuant Date : 9/21/2021 10:49 am

Compound #29: 2,2-Dichloropropane



Original Peak Response = 65778

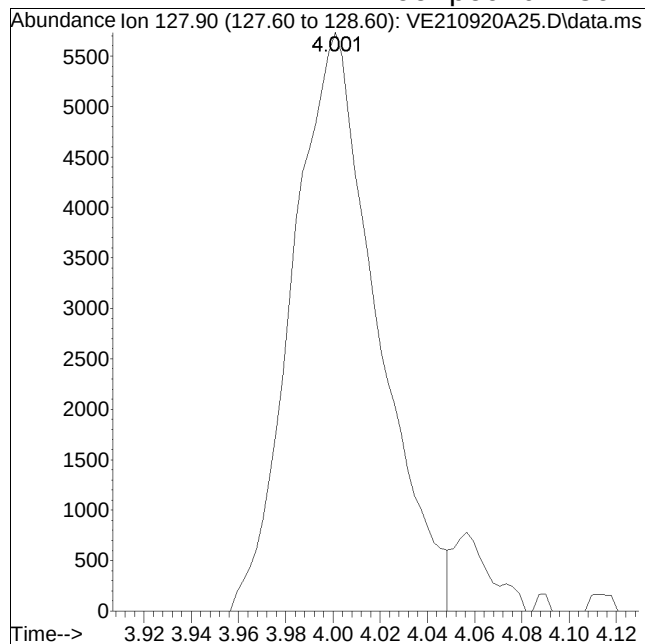
Manual Peak Response = 67779 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

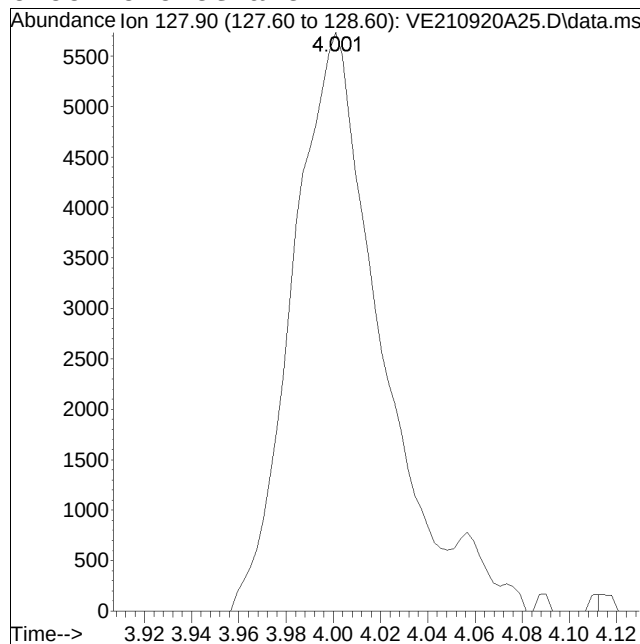
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A25.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 3:26 pm Instrument : Elaine
Sample : WG1548873-6,31,10,10,,A1,PQuant Date : 9/21/2021 10:49 am

Compound #30: Bromochloromethane



Original Peak Response = 14223

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

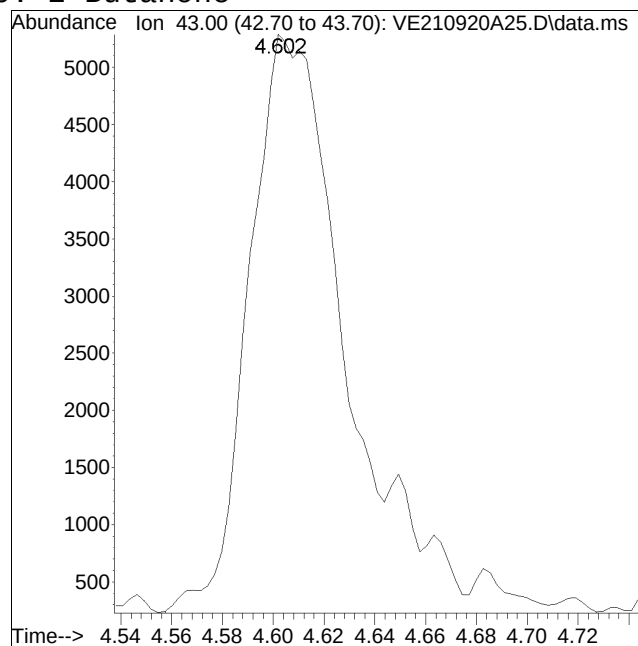
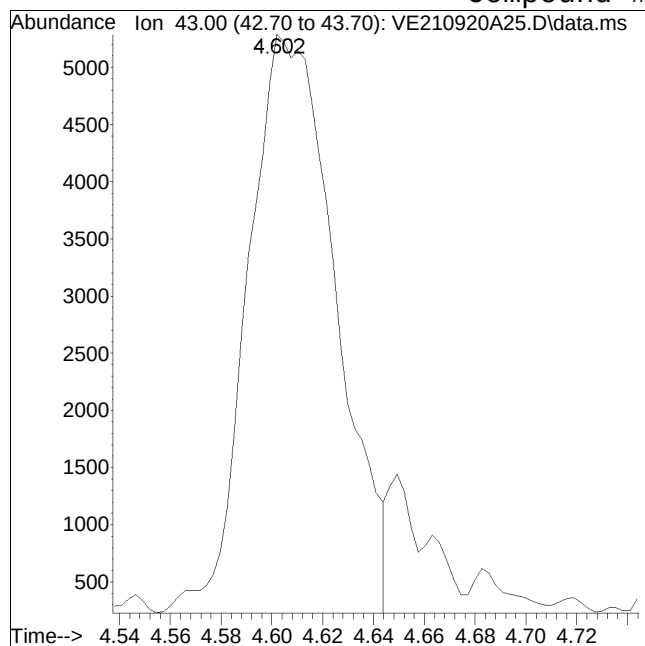


Manual Peak Response = 15164 M1

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A25.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 3:26 pm Instrument : Elaine
Sample : WG1548873-6,31,10,10,,A1,PQuant Date : 9/21/2021 10:49 am

Compound #39: 2-Butanone



Original Peak Response = 12120

Manual Peak Response = 13851 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A26.D
 Acq On : 20 Sep 2021 3:47 pm
 Operator : ELAINE:MKS
 Sample : WG1548873-7,31,10,10,,A2,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:35:15 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.406	96	253786	10.000	ug/L	0.00
Standard Area 1 = 260268			Recovery =	97.51%		
59) Chlorobenzene-d5	8.442	117	173452	10.000	ug/L	0.00
Standard Area 1 = 174153			Recovery =	99.60%		
79) 1,4-Dichlorobenzene-d4	9.936	152	84134	10.000	ug/L	0.00
Standard Area 1 = 84245			Recovery =	99.87%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.410	113	55000	9.513	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.13%		
43) 1,2-Dichloroethane-d4	5.058	65	81068	9.542	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.42%		
60) Toluene-d8	7.120	98	236598	9.920	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.20%		
83) 4-Bromofluorobenzene	9.265	95	96941	9.712	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.12%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.921	85	35553	8.069	ug/L	98
3) Chloromethane	1.038	50	56572	9.721	ug/L	98
4) Vinyl chloride	1.088	62	70339	12.971	ug/L	95
5) Bromomethane	1.288	94	10914	3.858	ug/L	99
6) Chloroethane	1.369	64	52639	15.192	ug/L	97
7) Trichlorofluoromethane	1.464	101	77266M1	11.626	ug/L	
8) Ethyl ether	1.689	74	29245M1	10.743	ug/L	
10) 1,1-Dichloroethene	1.817	96	46645	11.956	ug/L	87
11) Carbon disulfide	1.825	76	125544	11.822	ug/L	97
15) Methylene chloride	2.296	84	54097	10.610	ug/L	87
17) Acetone	2.354	43	13679	9.385	ug/L	98
18) trans-1,2-Dichloroethene	2.435	96	45189	10.568	ug/L	97
20) Methyl tert-butyl ether	2.554	73	126871	8.957	ug/L	98
23) 1,1-Dichloroethane	3.058	63	115302	11.381	ug/L	99
25) Acrylonitrile	3.130	53	10820	7.229	ug/L	96
27) Vinyl acetate	3.417	43	117679	11.323	ug/L	100
28) cis-1,2-Dichloroethene	3.728	96	54051M1	10.779	ug/L	
29) 2,2-Dichloropropane	3.862	77	82906	10.847	ug/L	88
30) Bromochloromethane	4.001	128	18664M1	9.745	ug/L	
32) Chloroform	4.160	83	92869	10.435	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A26.D
 Acq On : 20 Sep 2021 3:47 pm
 Operator : ELAINE:MKS
 Sample : WG1548873-7,31,10,10,,A2,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:35:15 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	4.274	117	59078	9.836	ug/L	98
37) 1,1,1-Trichloroethane	4.379	97	79784	10.291	ug/L #	92
39) 2-Butanone	4.605	43	16175M1	8.028	ug/L	
40) 1,1-Dichloropropene	4.558	75	73166	11.594	ug/L	99
41) Benzene	4.875	78	217172	11.116	ug/L	97
44) 1,2-Dichloroethane	5.145	62	74612	9.335	ug/L	99
48) Trichloroethene	5.601	95	52462	10.993	ug/L	86
50) Dibromomethane	6.057	93	25095	9.149	ug/L	92
51) 1,2-Dichloropropane	6.168	63	61487	10.980	ug/L #	93
54) Bromodichloromethane	6.282	83	65414	9.311	ug/L	97
57) 1,4-Dioxane	6.511	88	15058M1	437.645	ug/L	
58) cis-1,3-Dichloropropene	6.945	75	75199	9.520	ug/L	96
61) Toluene	7.170	92	131678	10.722	ug/L	94
62) 4-Methyl-2-pentanone	7.587	58	17168	9.967	ug/L	97
63) Tetrachloroethene	7.529	166	43841	10.679	ug/L	97
65) trans-1,3-Dichloropropene	7.610	75	64604	9.070	ug/L	91
68) 1,1,2-Trichloroethane	7.740	83	31151	9.675	ug/L	98
69) Chlorodibromomethane	7.877	129	33101	8.208	ug/L	98
70) 1,3-Dichloropropane	7.955	76	68995	9.472	ug/L	99
71) 1,2-Dibromoethane	8.035	107	32681	9.099	ug/L	100
72) 2-Hexanone	8.283	43	27210	8.427	ug/L	98
73) Chlorobenzene	8.453	112	126215	10.399	ug/L	97
74) Ethylbenzene	8.492	91	251772	11.003	ug/L	96
75) 1,1,1,2-Tetrachloroethane	8.511	131	36868	8.704	ug/L	95
76) p/m Xylene	8.600	106	176534	21.729	ug/L	91
77) o Xylene	8.887	106	167199	21.517	ug/L	95
78) Styrene	8.926	104	285577	20.888	ug/L	96
80) Bromoform	8.928	173	17875	7.695	ug/L	94
82) Isopropylbenzene	9.095	105	225832	10.704	ug/L	99
84) Bromobenzene	9.321	156	44812	9.688	ug/L	98
85) n-Propylbenzene	9.357	91	279378	11.041	ug/L	96
87) 1,1,2,2-Tetrachloroethane	9.413	83	42478	9.913	ug/L	97
88) 4-Ethyltoluene	9.426	105	211887	10.651	ug/L	99
89) 2-Chlorotoluene	9.440	91	196372	10.674	ug/L	93
90) 1,3,5-Trimethylbenzene	9.482	105	181856	10.326	ug/L	96
91) 1,2,3-Trichloropropane	9.482	75	36830	9.489	ug/L	91
92) trans-1,4-Dichloro-2-b...	9.515	53	10616	6.531	ug/L	95
93) 4-Chlorotoluene	9.543	91	173342	10.319	ug/L	94
94) tert-Butylbenzene	9.666	119	145563	10.246	ug/L #	87

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
 Data File : VE210920A26.D
 Acq On : 20 Sep 2021 3:47 pm
 Operator : ELAINE:MKS
 Sample : WG1548873-7,31,10,10,,A2,PRI
 Misc : WG1548873,ICAL18296
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:35:15 2021
 Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Mon Sep 13 11:35:38 2021
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Elaine\2021\210920A\VE210920A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

97)	1,2,4-Trimethylbenzene	9.710	105	179938	10.331	ug/L	97
98)	sec-Butylbenzene	9.771	105	222976	10.373	ug/L	99
99)	p-Isopropyltoluene	9.860	119	181401	10.261	ug/L	98
100)	1,3-Dichlorobenzene	9.891	146	88004	10.127	ug/L	97
101)	1,4-Dichlorobenzene	9.944	146	85600	9.795	ug/L	95
102)	p-Diethylbenzene	10.072	119	99650	9.783	ug/L	98
103)	n-Butylbenzene	10.105	91	172482	10.590	ug/L	98
104)	1,2-Dichlorobenzene	10.186	146	79283	9.576	ug/L	95
105)	1,2,4,5-Tetramethylben...	10.528	119	152651	9.500	ug/L	98
106)	1,2-Dibromo-3-chloropr...	10.642	155	4472	7.166	ug/L	82
108)	Hexachlorobutadiene	11.001	225	17143	9.049	ug/L	92
109)	1,2,4-Trichlorobenzene	11.015	180	46575	8.762	ug/L	95
110)	Naphthalene	11.196	128	117296	8.937	ug/L	100
111)	1,2,3-Trichlorobenzene	11.296	180	42675	8.800	ug/L	98

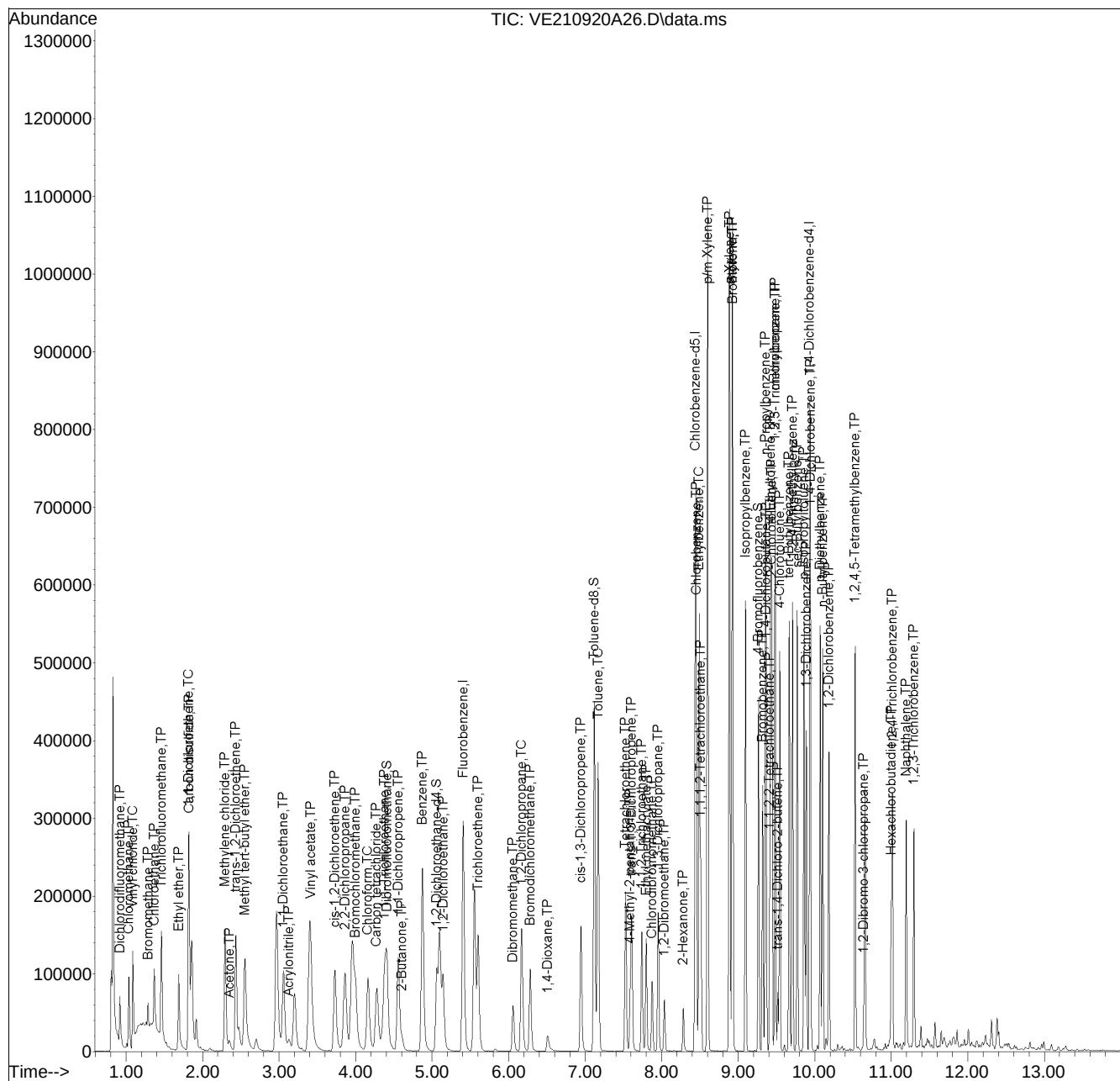
(#) = qualifier out of range (m) = manual integration (+) = signals summed

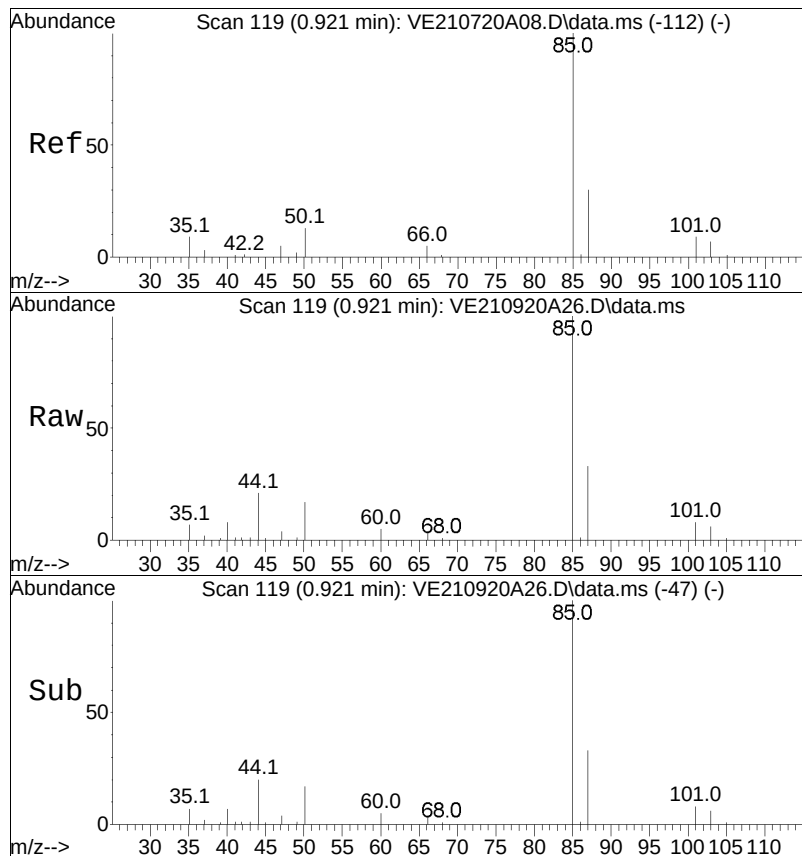
(QT Reviewed)

Data Path : I:\VOLATILES\Elaine\2021\210920A\
Data File : VE210920A26.D
Acq On : 20 Sep 2021 3:47 pm
Operator : ELAINE:MKS
Sample : WG1548873-7,31,10,10,,A2,PRI
Misc : WG1548873,ICAL18296
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:35:15 2021
Quant Method : I:\VOLATILES\Elaine\2021\210920A\Elaine_210909A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Sep 13 11:35:38 2021
Response via : Initial Calibration

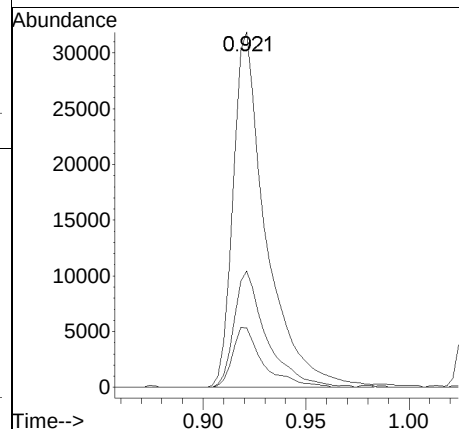
Sub List : 8260-NYTCL - Megamix plus Diox10920A\VE210920A02.D•

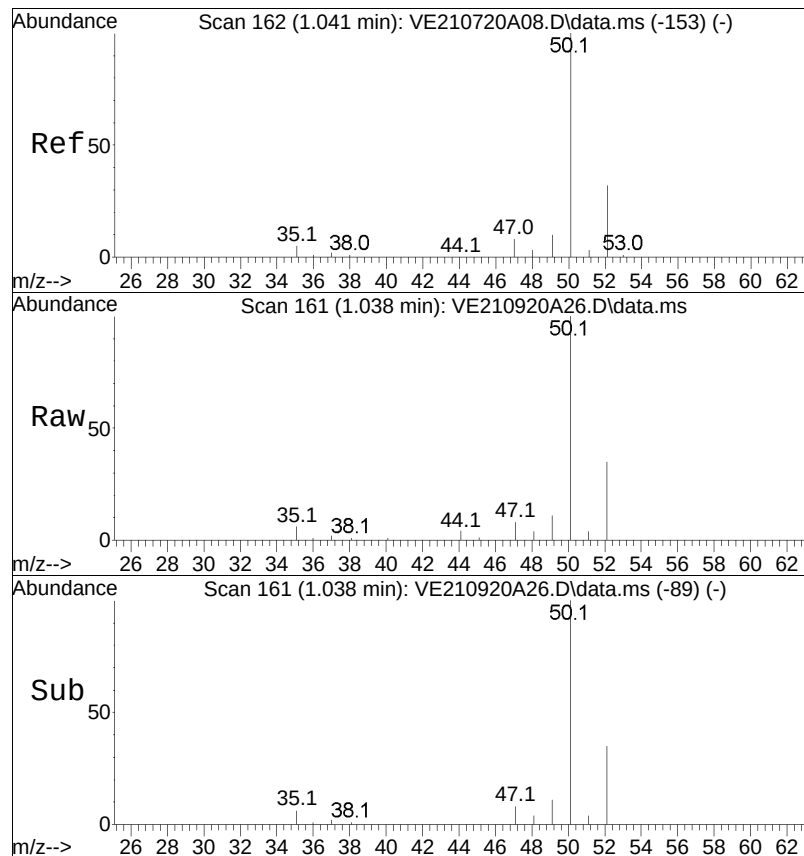




#2
 Dichlorodifluoromethane
 Concen: 8.07 ug/L
 RT: 0.921 min Scan# 119
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

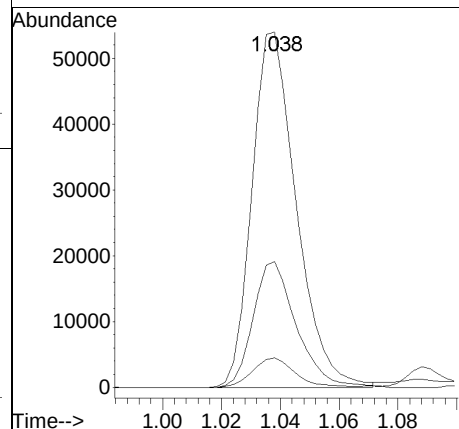
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.3	21.0	43.6
50	15.8	8.9	18.5

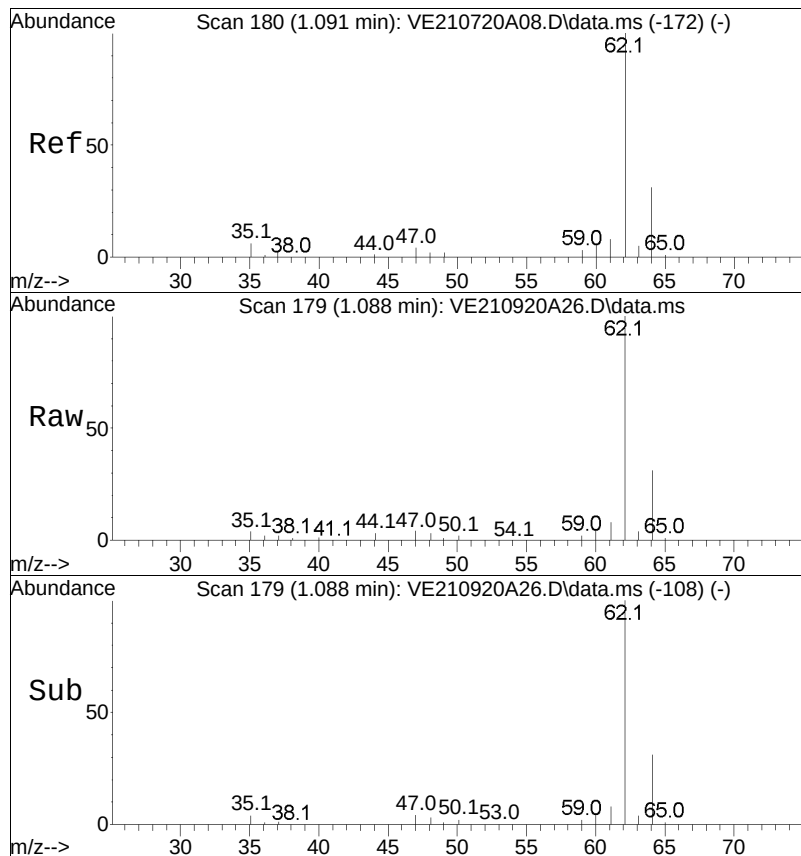




#3
 Chloromethane
 Concen: 9.72 ug/L
 RT: 1.038 min Scan# 161
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

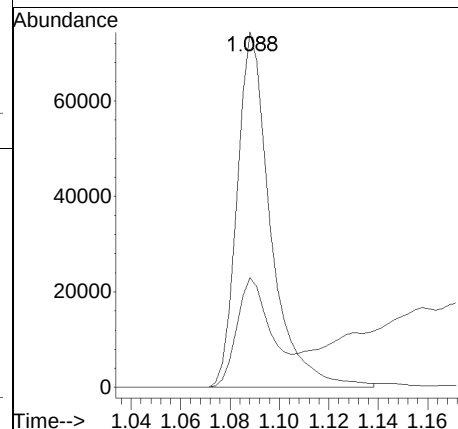
Tgt	Ion: 50	Resp:	56572
Ion	Ratio	Lower	Upper
50	100		
52	34.4	12.9	52.9
47	8.0	0.0	28.3

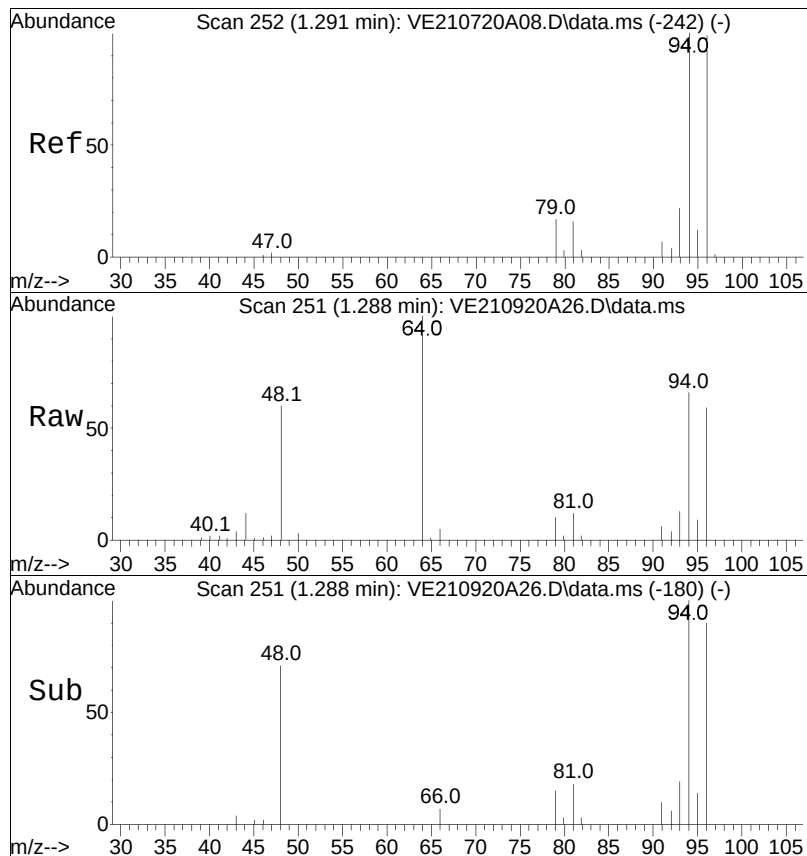




#4
 Vinyl chloride
 Concen: 12.97 ug/L
 RT: 1.088 min Scan# 179
 Delta R.T. -0.003 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

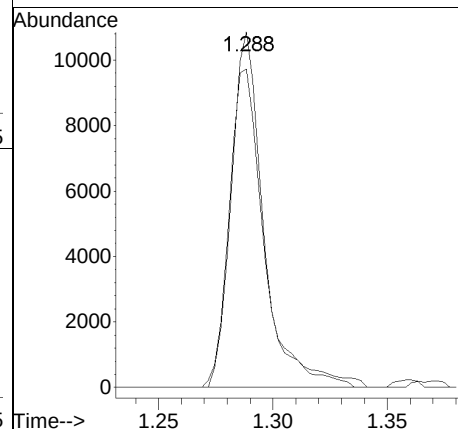
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.7	9.1	49.1

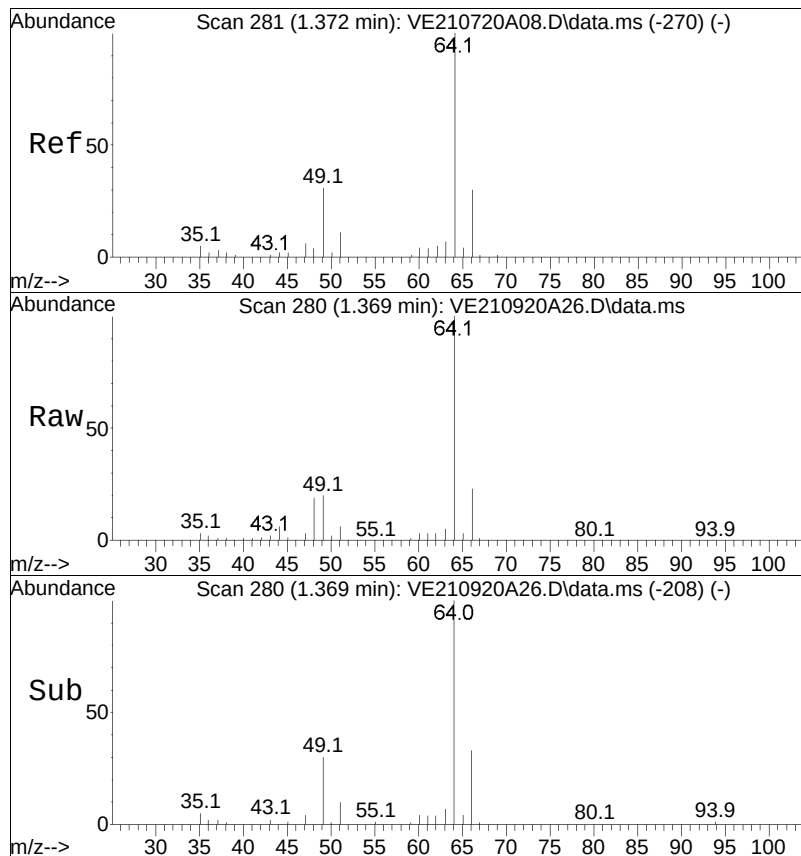




#5
 Bromomethane
 Concen: 3.86 ug/L
 RT: 1.288 min Scan# 251
 Delta R.T. -0.003 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

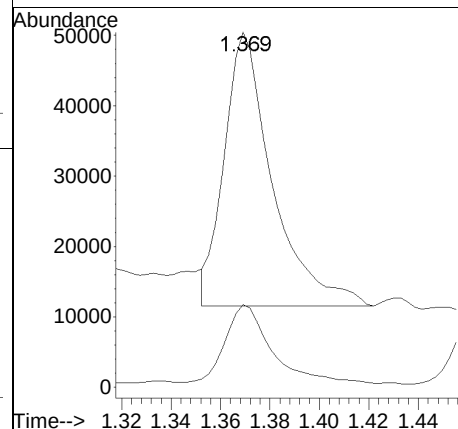
Tgt Ion	Ratio	Lower	Upper
94	100		
96	94.2	75.6	115.6

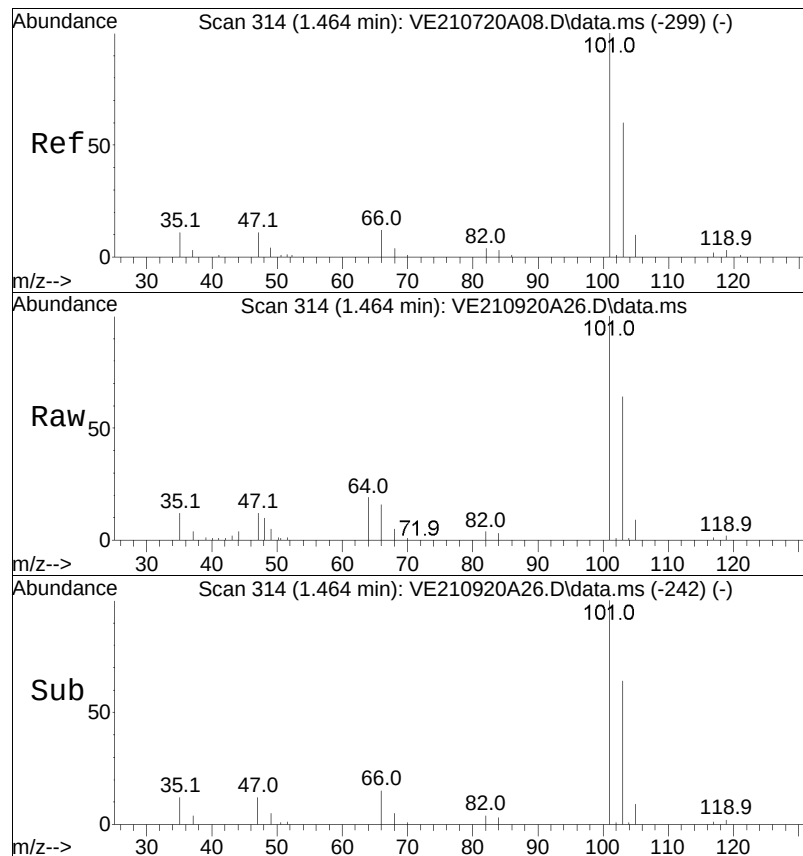




#6
 Chloroethane
 Concen: 15.19 ug/L
 RT: 1.369 min Scan# 280
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

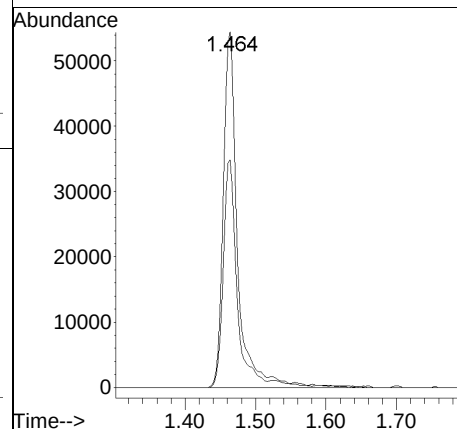
Tgt Ion	Ratio	Lower	Upper
64	100		
66	28.4	9.8	49.8

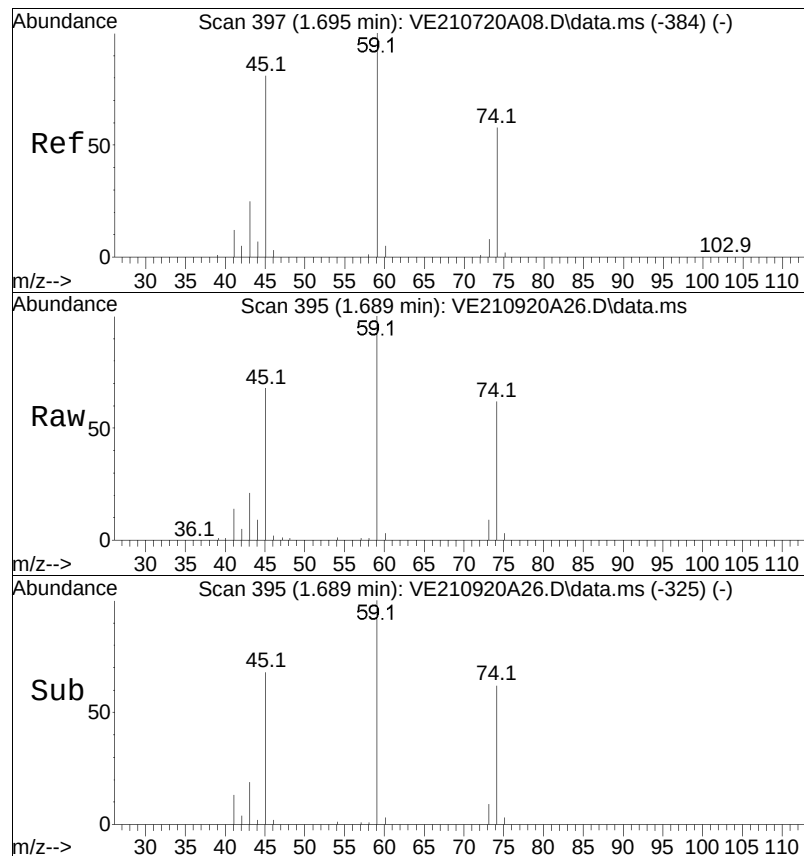




#7
 Trichlorofluoromethane
 Concen: 11.63 ug/L M1
 RT: 1.464 min Scan# 314
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

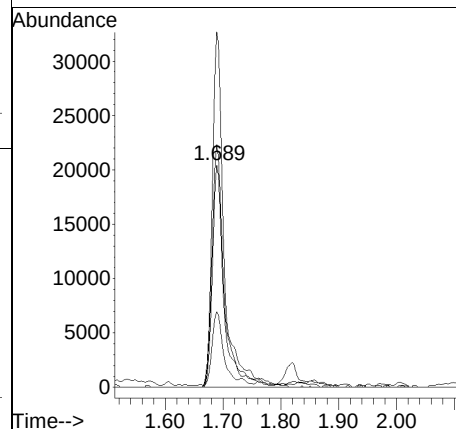
Tgt Ion	101	103	Ratio	Lower	Upper
Resp	77266				
101	100				
103	60.5		53.8	80.6	

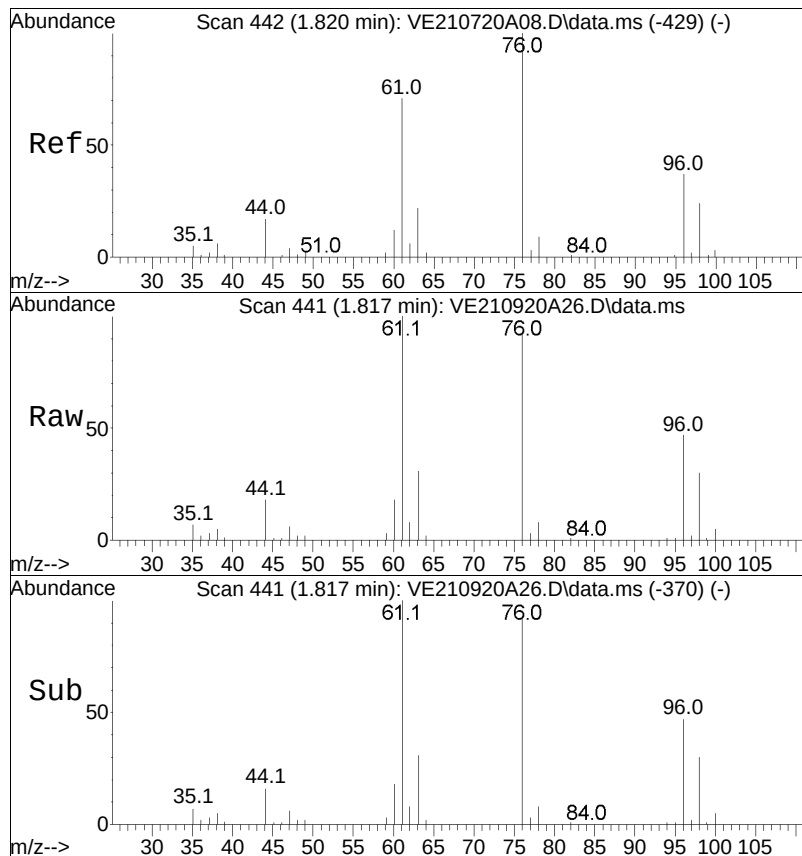




#8
 Ethyl ether
 Concen: 10.74 ug/L M1
 RT: 1.689 min Scan# 395
 Delta R.T. -0.006 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

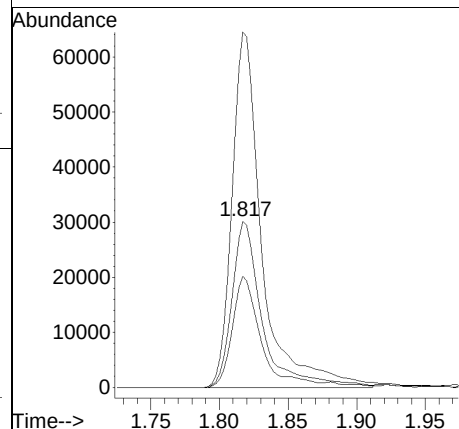
Tgt Ion:	74	Resp:	29245
Ion Ratio	Lower	Upper	
74	100		
59	160.7	122.2	253.8
45	111.4	91.9	190.9
43	31.4	25.2	52.2

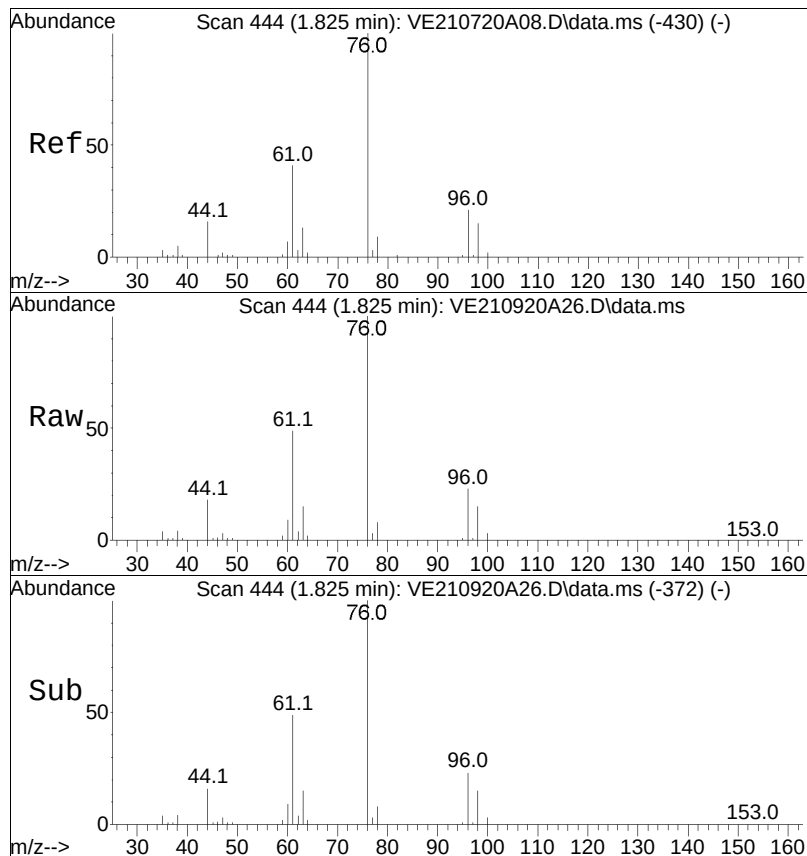




#10
 1,1-Dichloroethene
 Concen: 11.96 ug/L
 RT: 1.817 min Scan# 441
 Delta R.T. -0.003 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

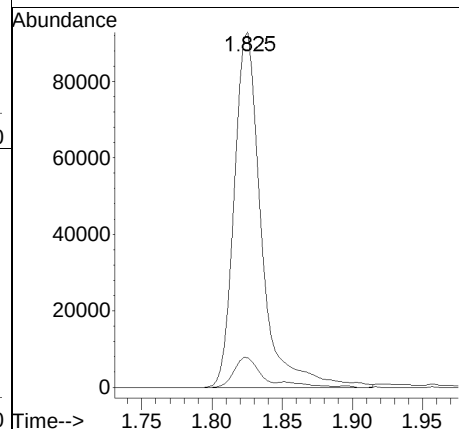
Tgt Ion:	96	Resp:	46645
Ion Ratio	Lower	Upper	
96	100		
61	210.6	186.1	279.1
63	62.2	57.6	86.4

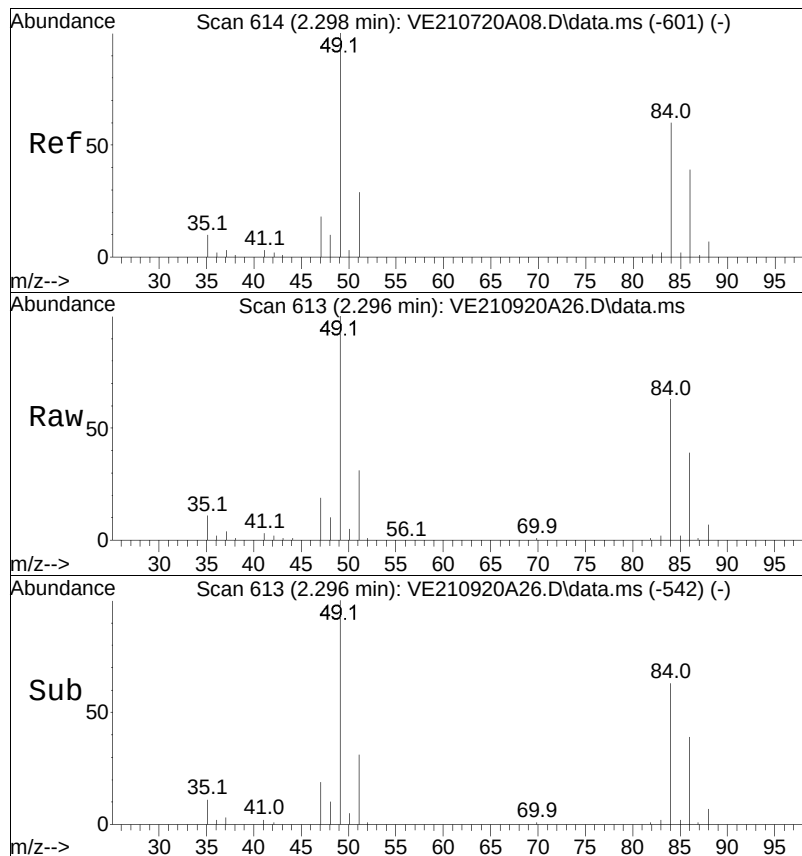




#11
 Carbon disulfide
 Concen: 11.82 ug/L
 RT: 1.825 min Scan# 444
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

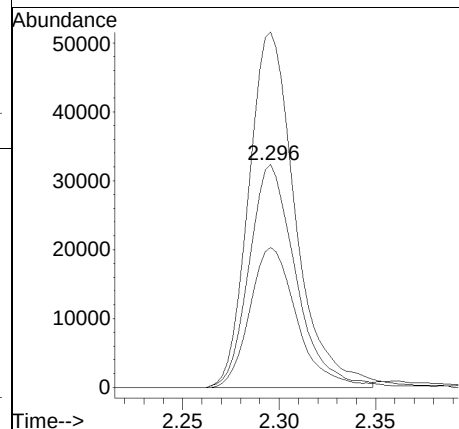
Tgt Ion:	76	78	Ratio	100	7.7	Resp:	125544	Lower	Upper

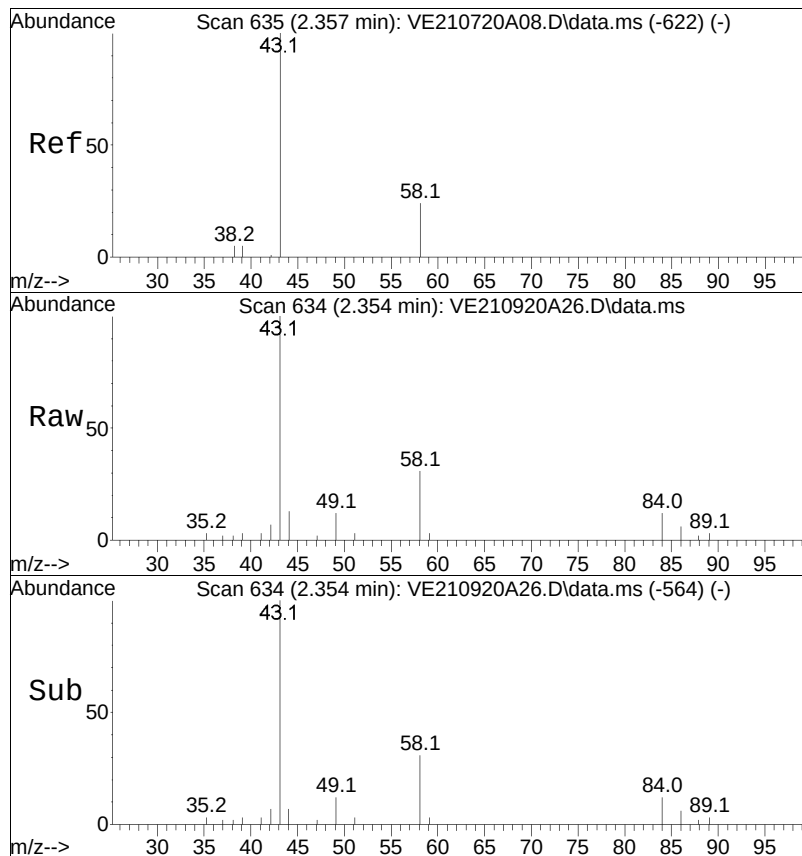




#15
Methylene chloride
Concen: 10.61 ug/L
RT: 2.296 min Scan# 613
Delta R.T. -0.002 min
Lab File: VE210920A26.D
Acq: 20 Sep 2021 3:47 pm

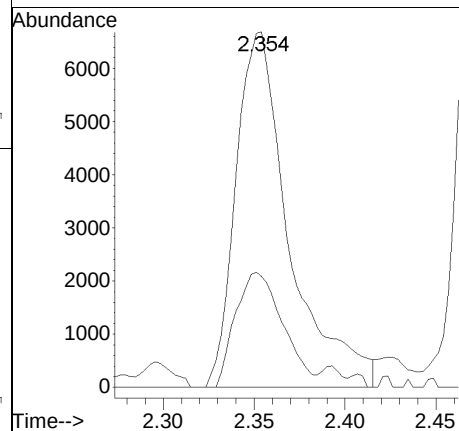
Tgt Ion:	84	Resp:	54097
Ion Ratio	Lower	Upper	
84	100		
86	64.5	40.4	83.8
49	160.6	120.0	249.2

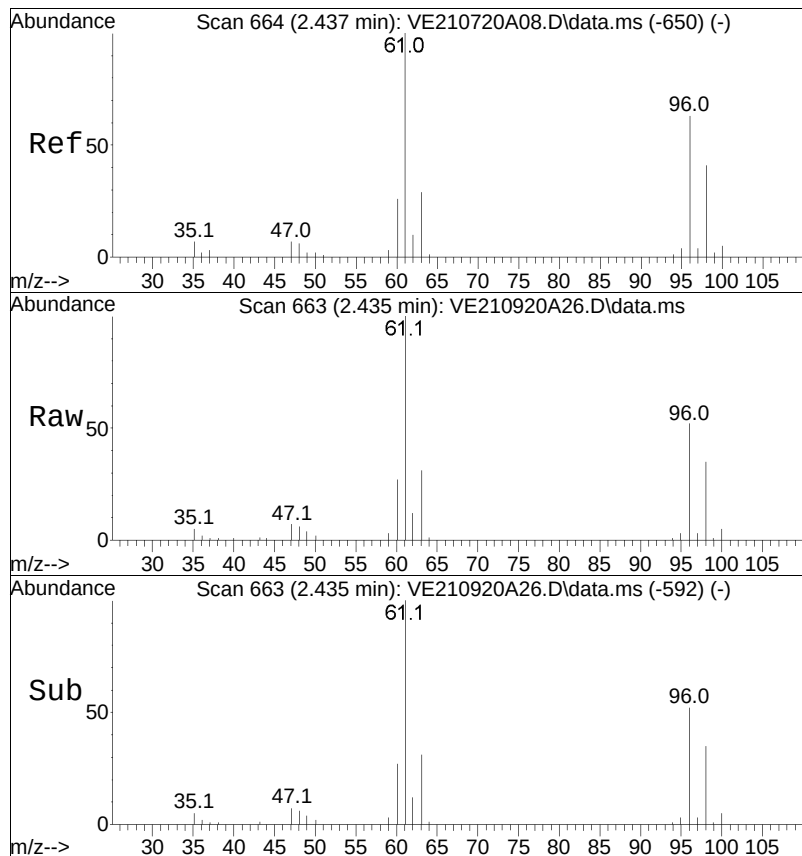




#17
 Acetone
 Concen: 9.39 ug/L
 RT: 2.354 min Scan# 634
 Delta R.T. -0.006 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

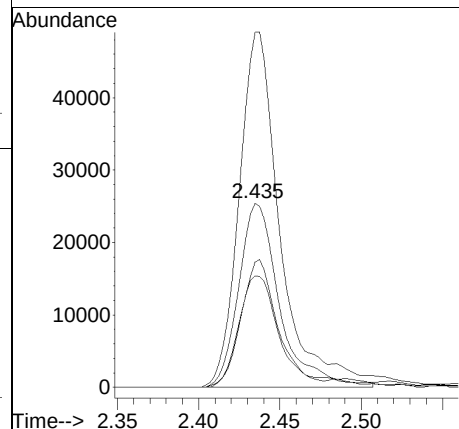
Tgt Ion:	43	58	Ratio	100	28.9	Resp:	13679	Lower	Upper
								24.2	36.4

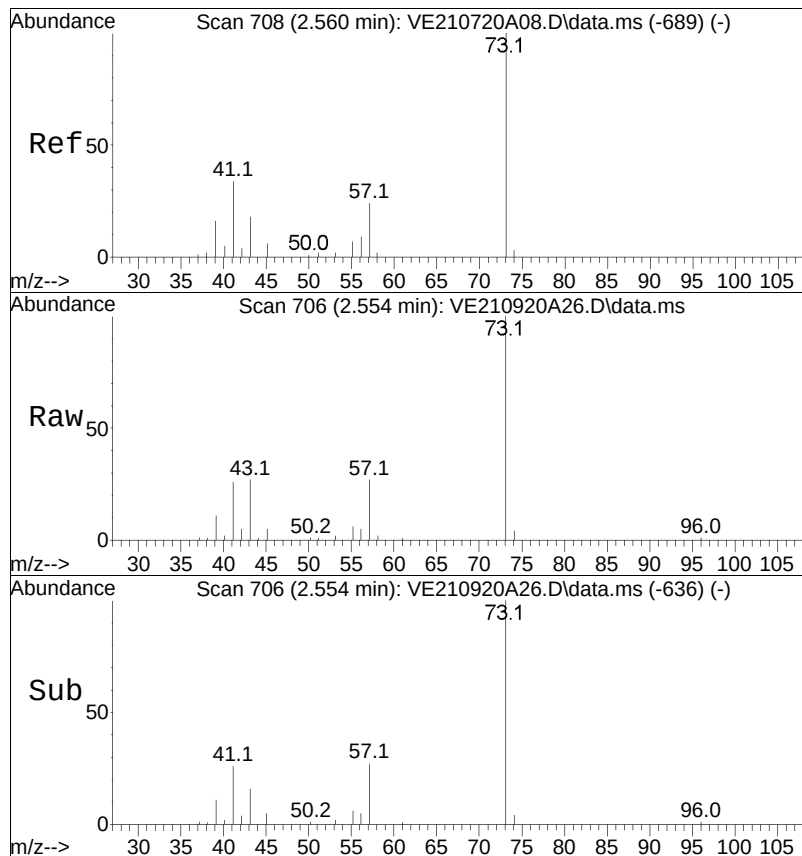




#18
 trans-1,2-Dichloroethene
 Concen: 10.57 ug/L
 RT: 2.435 min Scan# 663
 Delta R.T. -0.002 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

Tgt Ion:	96	Resp:	45189
Ion Ratio	Lower	Upper	
96	100		
61	195.8	124.0	257.6
98	66.7	41.2	85.6
63	57.7	38.4	79.7





#20

Methyl tert-butyl ether

Concen: 8.96 ug/L

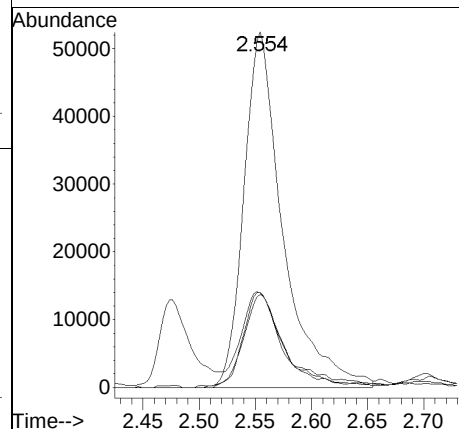
RT: 2.554 min Scan# 706

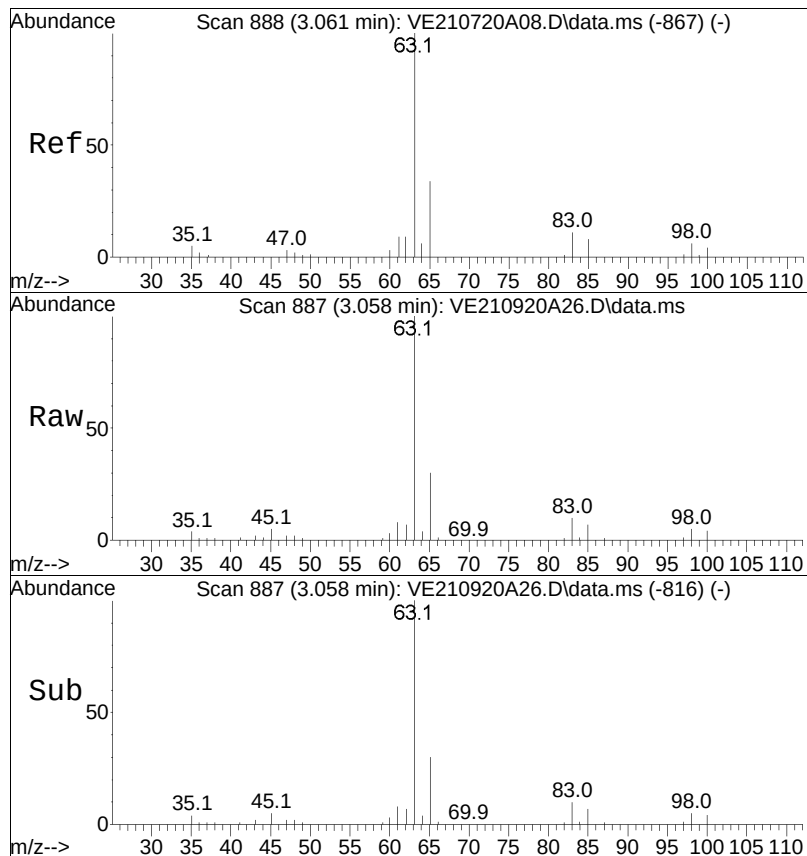
Delta R.T. -0.006 min

Lab File: VE210920A26.D

Acq: 20 Sep 2021 3:47 pm

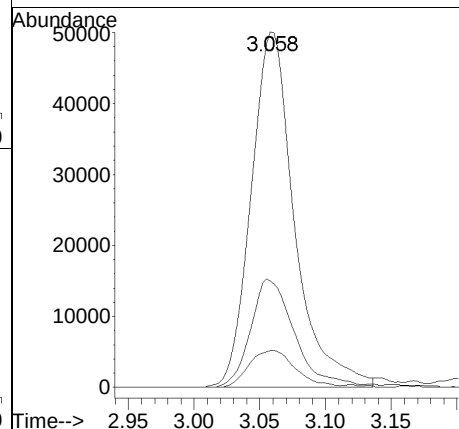
Tgt Ion: 73	Resp: 126871
Ion Ratio	Lower Upper
73 100	
57 25.8	17.5 36.3
43 24.6	15.3 31.9
41 24.8	15.3 31.7

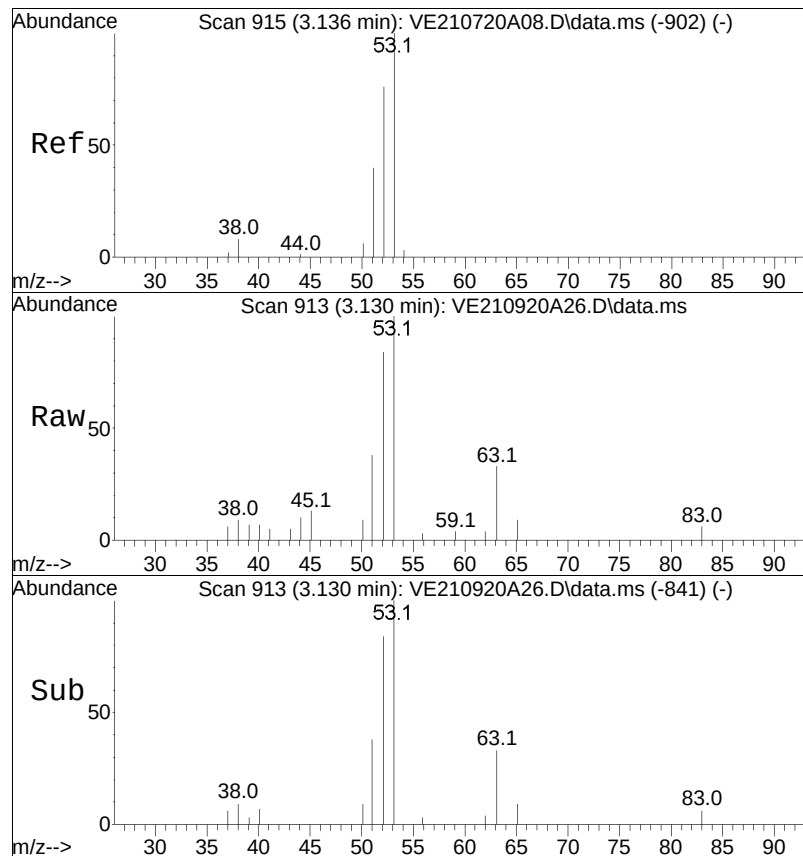




#23
 1,1-Dichloroethane
 Concen: 11.38 ug/L
 RT: 3.058 min Scan# 887
 Delta R.T. -0.003 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

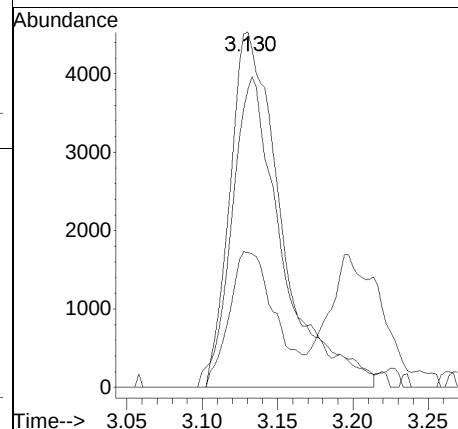
Tgt Ion:	63	Resp:	115302
Ion Ratio	Lower	Upper	
63	100		
65	30.8	11.0	51.0
83	11.2	0.0	31.8

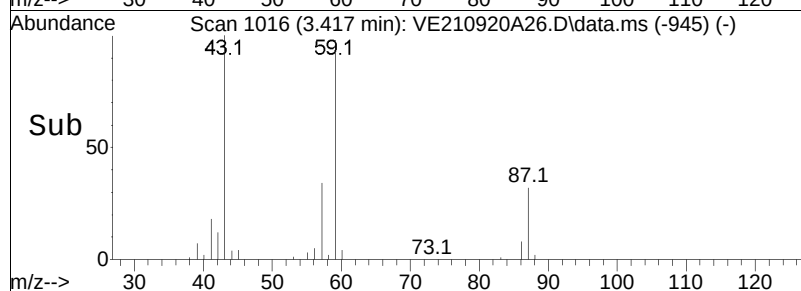
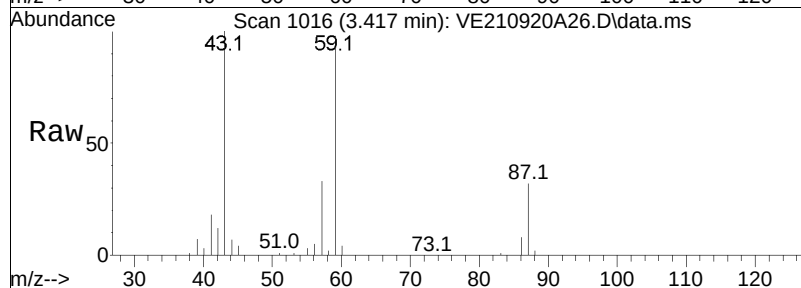
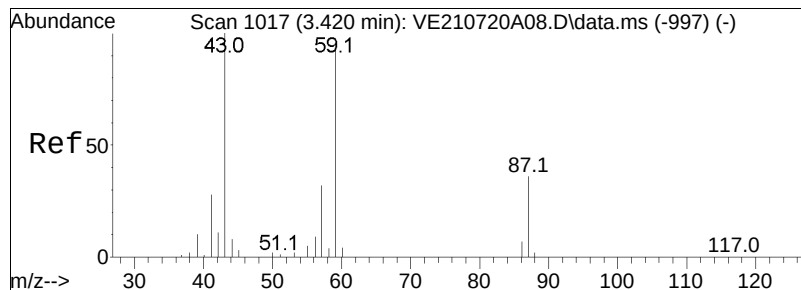




#25
 Acrylonitrile
 Concen: 7.23 ug/L
 RT: 3.130 min Scan# 913
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

Tgt Ion:	53	Resp:	10820
Ion Ratio	Lower	Upper	
53	100		
52	80.9	66.7	100.1
51	34.0	30.6	46.0





#27

Vinyl acetate

Concen: 11.32 ug/L

RT: 3.417 min Scan# 1016

Delta R.T. -0.003 min

Lab File: VE210920A26.D

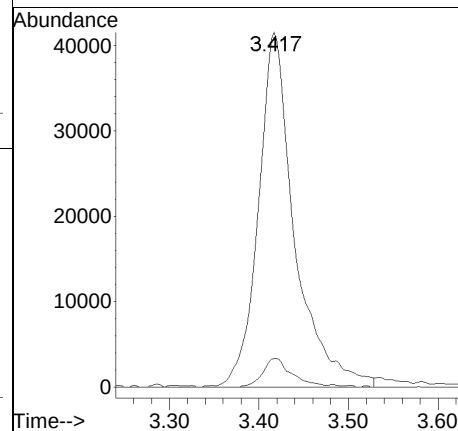
Acq: 20 Sep 2021 3:47 pm

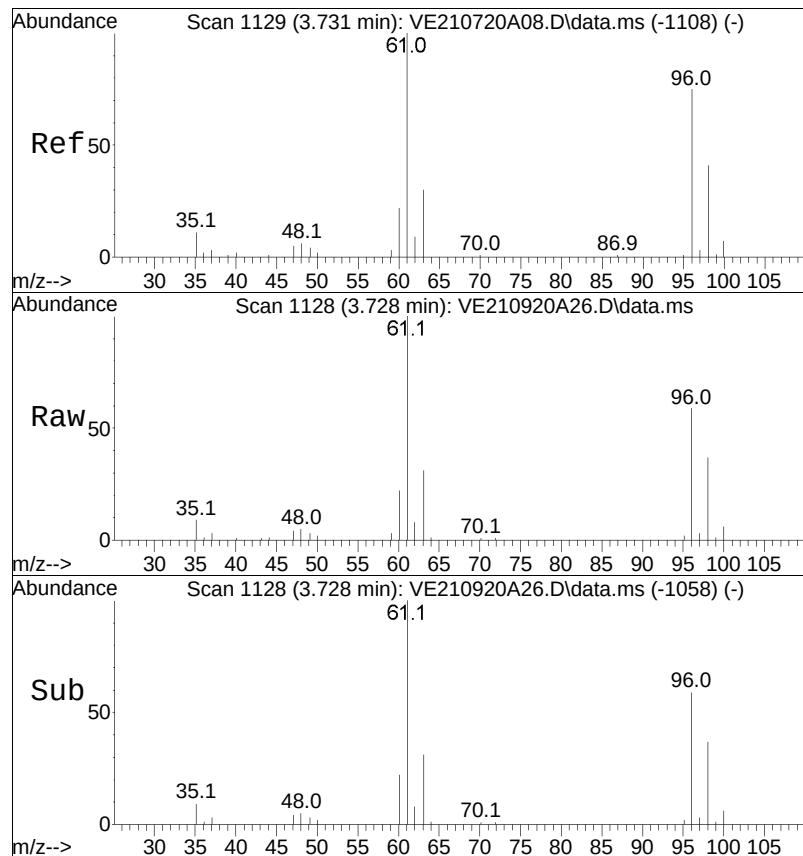
Tgt Ion: 43 Resp: 117679

Ion Ratio Lower Upper

43 100

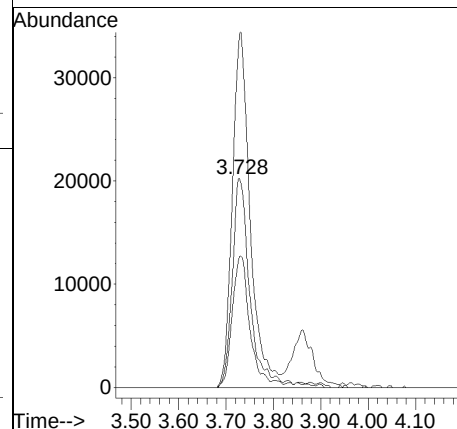
86 6.6 5.2 7.8

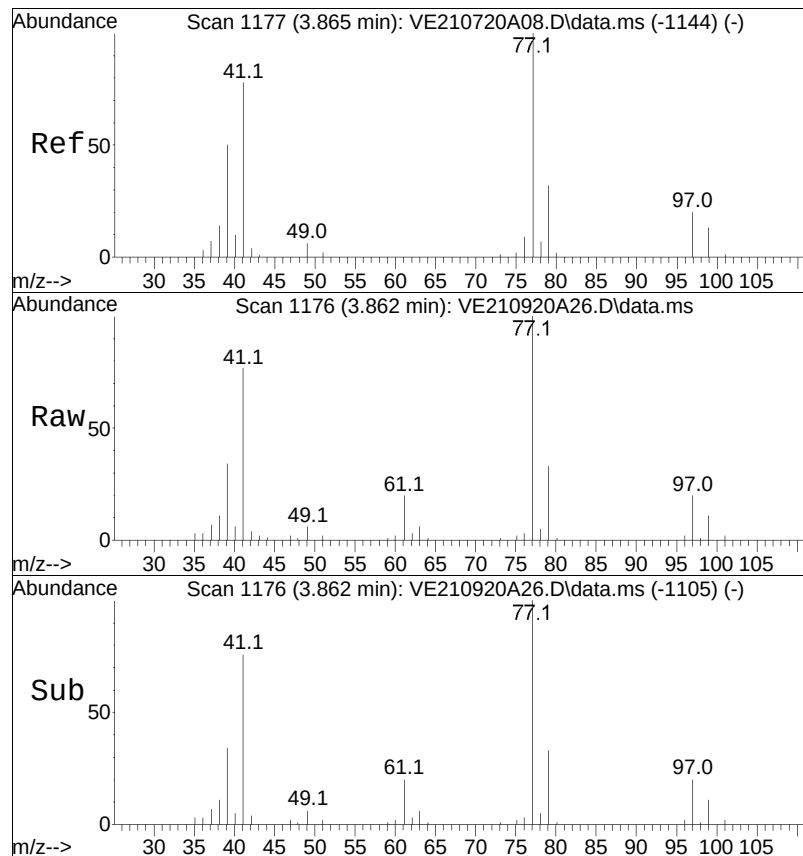




#28
 cis-1,2-Dichloroethene
 Concen: 10.78 ug/L M1
 RT: 3.728 min Scan# 1128
 Delta R.T. -0.006 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

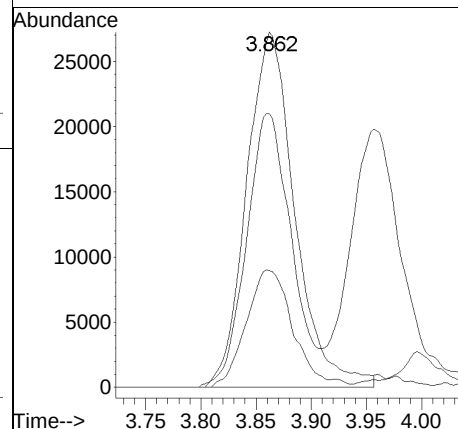
Tgt Ion:	96	Resp:	54051
Ion Ratio	Lower	Upper	
96	100		
61	165.0	149.4	224.2
98	60.0	53.4	80.2

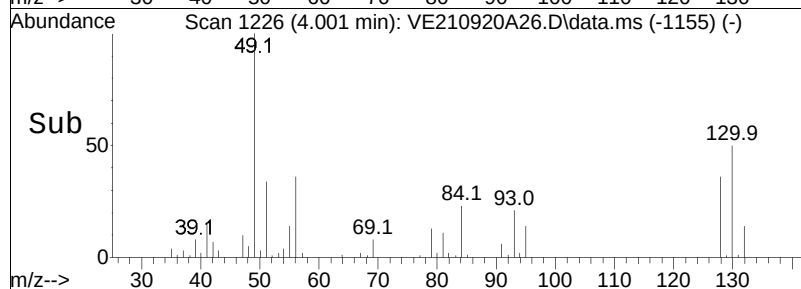
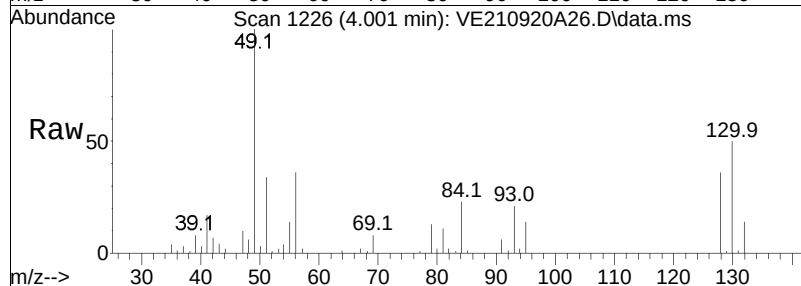
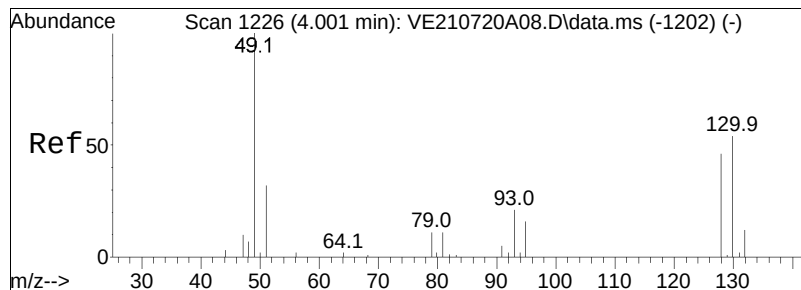




#29
 2,2-Dichloropropane
 Concen: 10.85 ug/L
 RT: 3.862 min Scan# 1176
 Delta R.T. -0.003 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

Tgt Ion	Ratio	Lower	Upper
77	100		
41	71.6	38.0	78.8
79	31.6	20.5	42.5





#30

Bromochloromethane

Concen: 9.75 ug/L M1

RT: 4.001 min Scan# 1226

Delta R.T. -0.003 min

Lab File: VE210920A26.D

Acq: 20 Sep 2021 3:47 pm

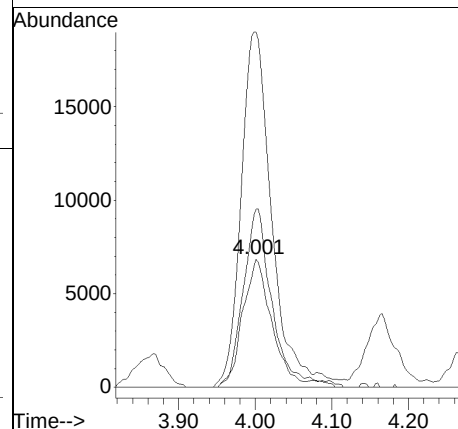
Tgt Ion:128 Resp: 18664

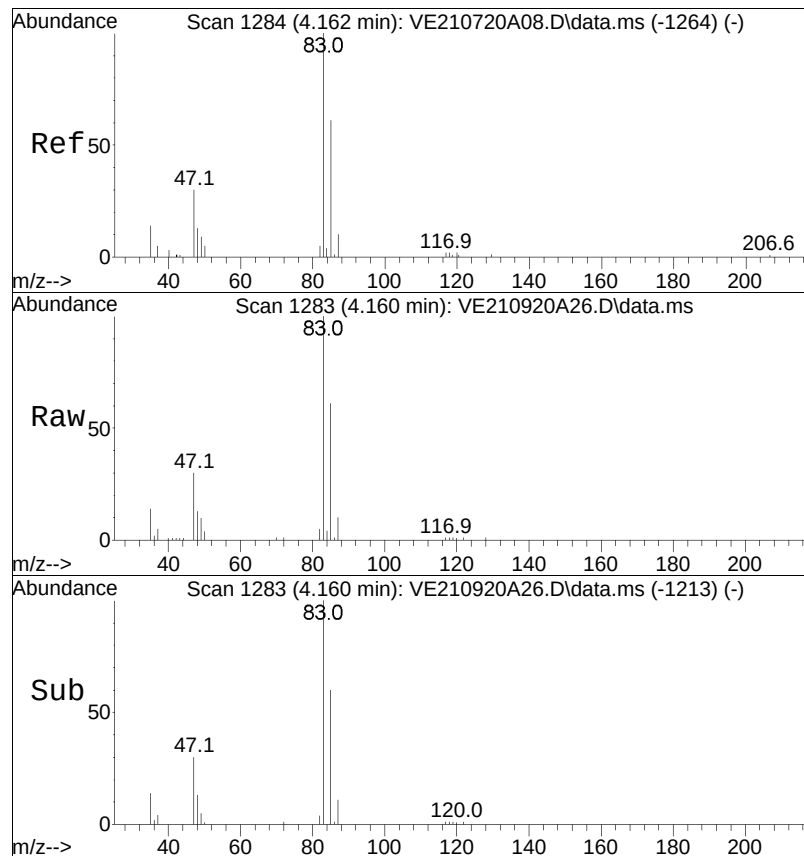
Ion Ratio Lower Upper

128 100

49 278.3 223.0 334.4

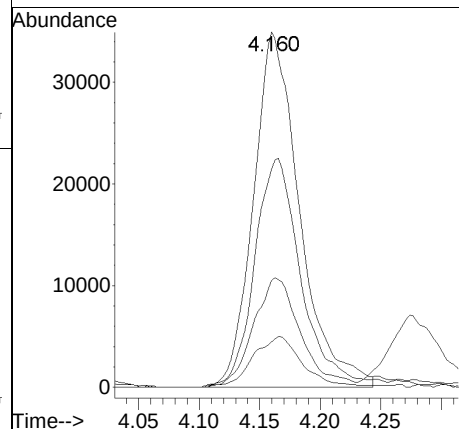
130 129.5 111.4 167.0

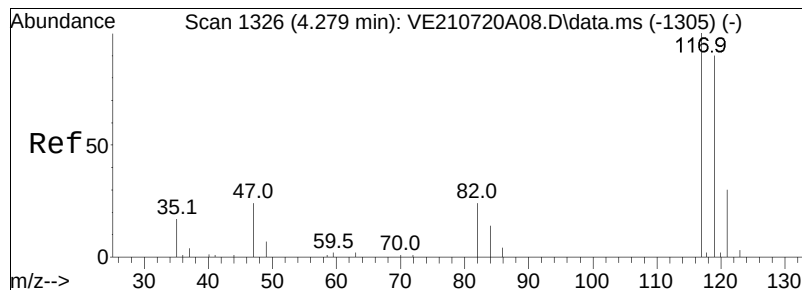




#32
 Chloroform
 Concen: 10.44 ug/L
 RT: 4.160 min Scan# 1283
 Delta R.T. -0.005 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

Tgt	Ion: 83	Resp:	92869
Ion	Ratio	Lower	Upper
83	100		
85	64.3	41.5	86.1
47	31.6	19.0	39.4
48	15.3	9.9	20.5





#34

Carbon tetrachloride

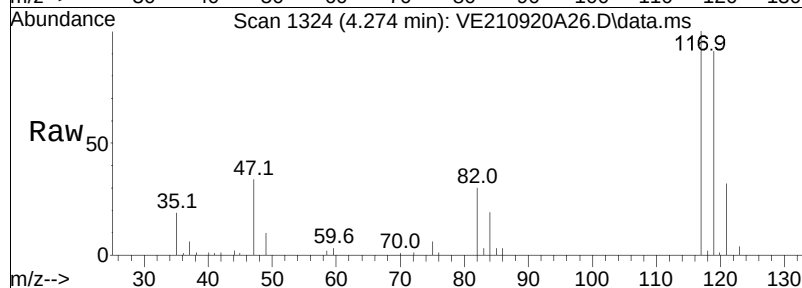
Concen: 9.84 ug/L

RT: 4.274 min Scan# 1324

Delta R.T. -0.008 min

Lab File: VE210920A26.D

Acq: 20 Sep 2021 3:47 pm



Tgt Ion:117 Resp: 59078

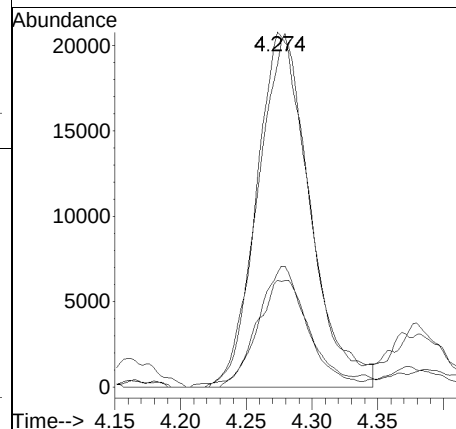
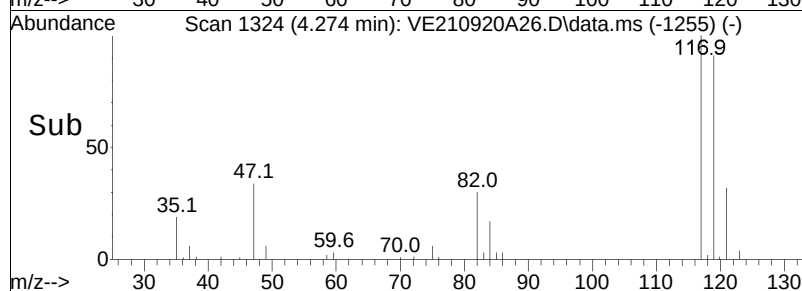
Ion Ratio Lower Upper

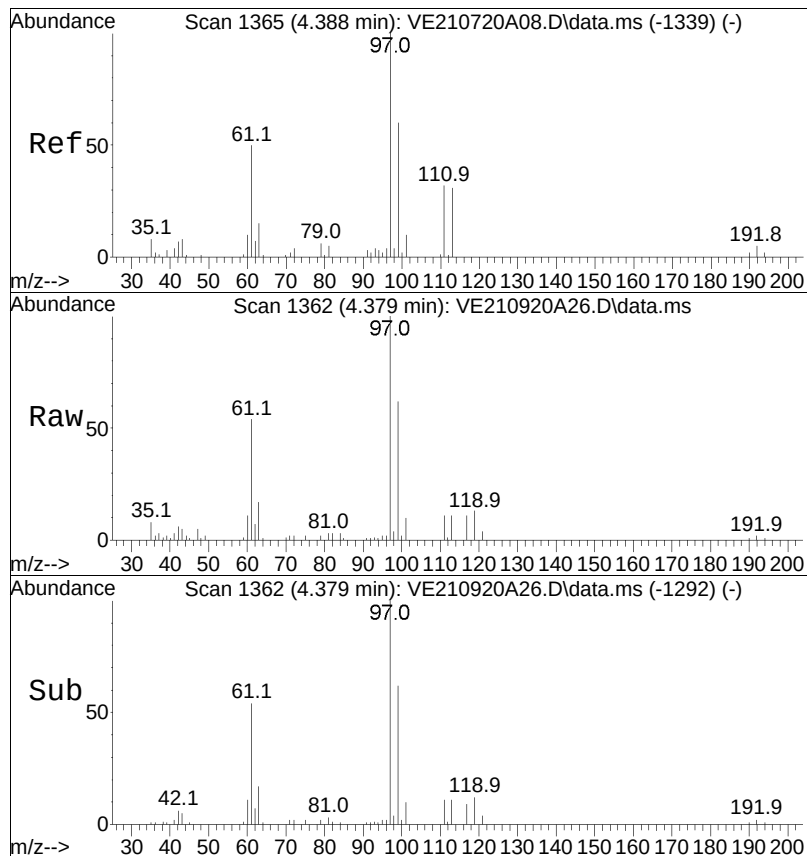
117 100

119 95.2 62.4 129.6

121 31.3 19.5 40.5

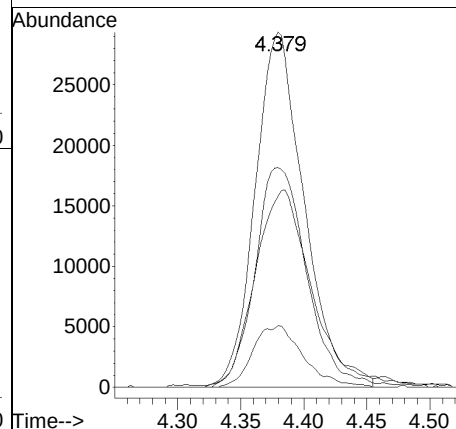
82 30.4 17.0 35.4

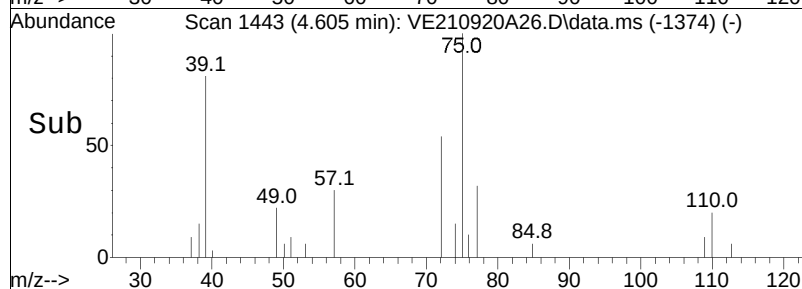
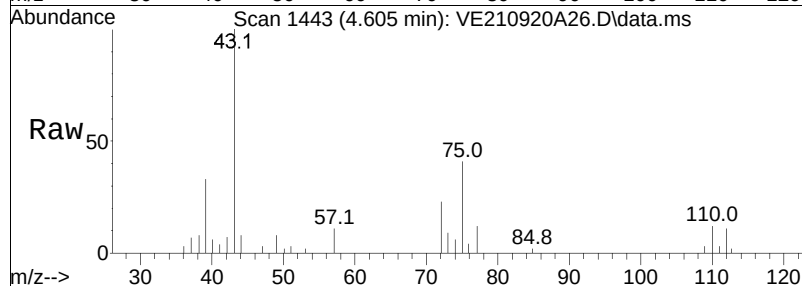
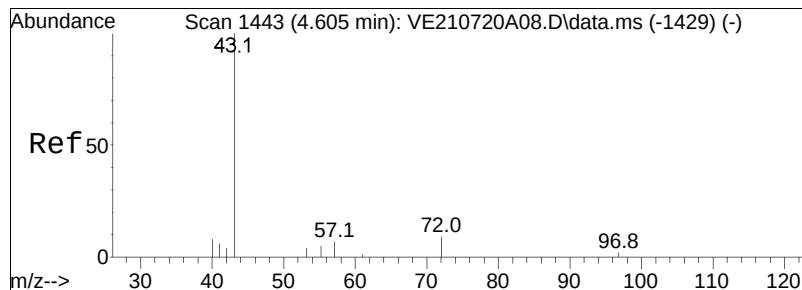




#37
 1,1,1-Trichloroethane
 Concen: 10.29 ug/L
 RT: 4.379 min Scan# 1362
 Delta R.T. -0.006 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

Tgt Ion:	97	Resp:	79784
Ion Ratio	Lower	Upper	
97	100		
99	65.0	40.7	84.5
61	62.2	35.4	73.4
63	18.0	5.0	10.4#





#39

2-Butanone

Concen: 8.03 ug/L M1

RT: 4.605 min Scan# 1443

Delta R.T. -0.008 min

Lab File: VE210920A26.D

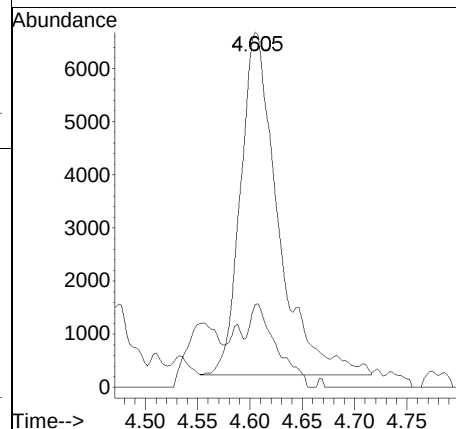
Acq: 20 Sep 2021 3:47 pm

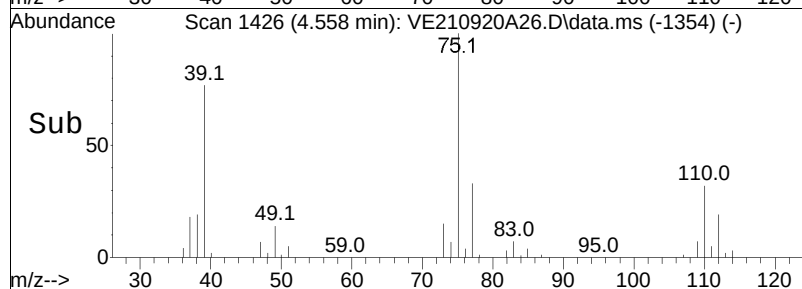
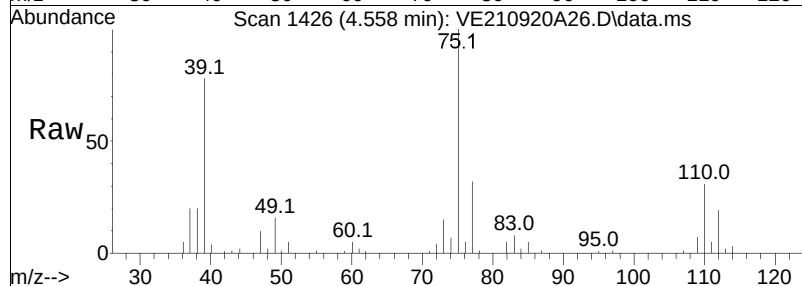
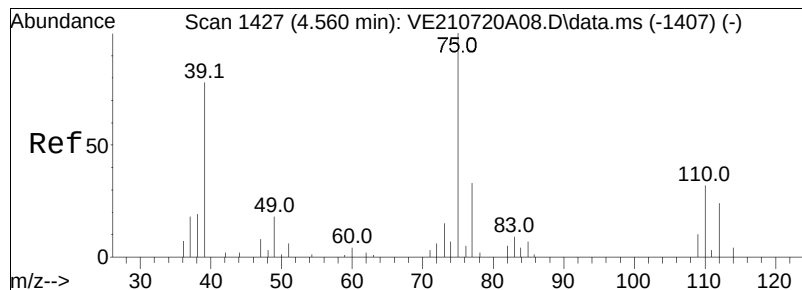
Tgt Ion: 43 Resp: 16175

Ion Ratio Lower Upper

43 100

72 18.2 10.9 16.3#





#40

1,1-Dichloropropene

Concen: 11.59 ug/L

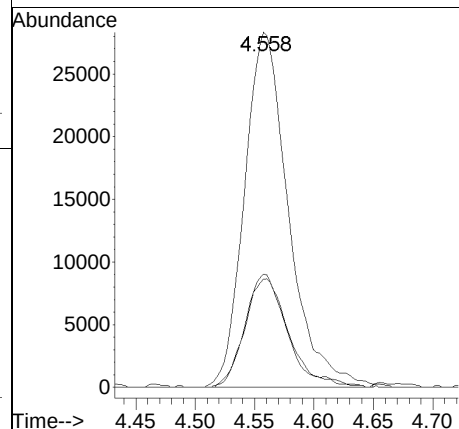
RT: 4.558 min Scan# 1426

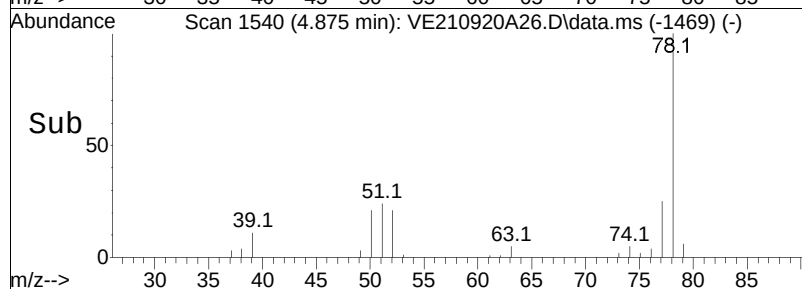
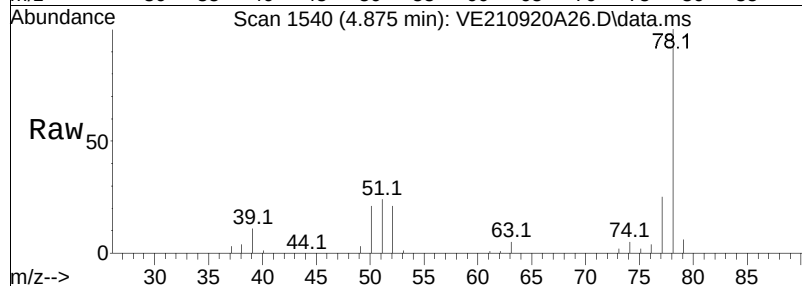
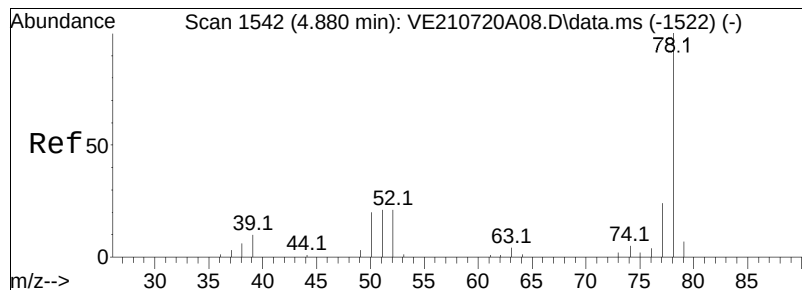
Delta R.T. -0.000 min

Lab File: VE210920A26.D

Acq: 20 Sep 2021 3:47 pm

Tgt	Ion: 75	Resp:	73166
Ion	Ratio	Lower	Upper
75	100		
110	29.8	20.2	41.9
77	31.2	20.1	41.7





#41

Benzene

Concen: 11.12 ug/L

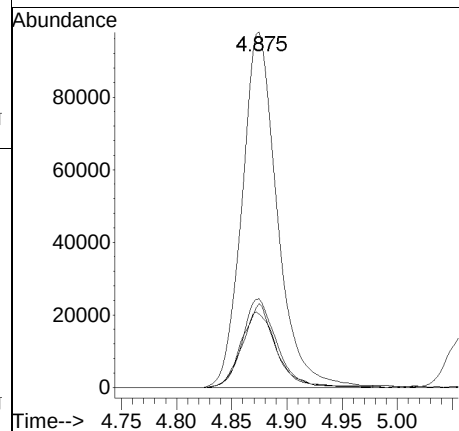
RT: 4.875 min Scan# 1540

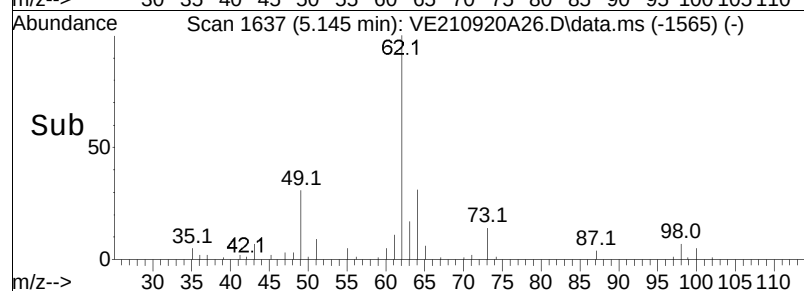
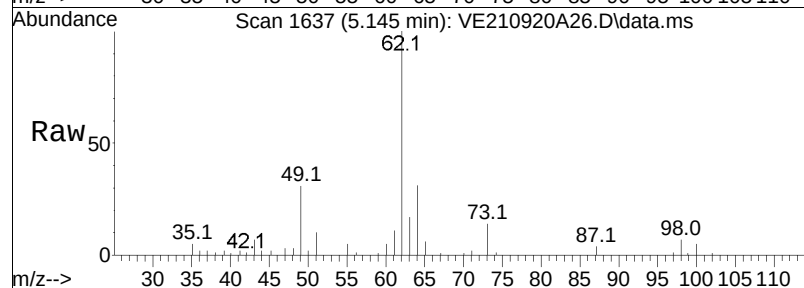
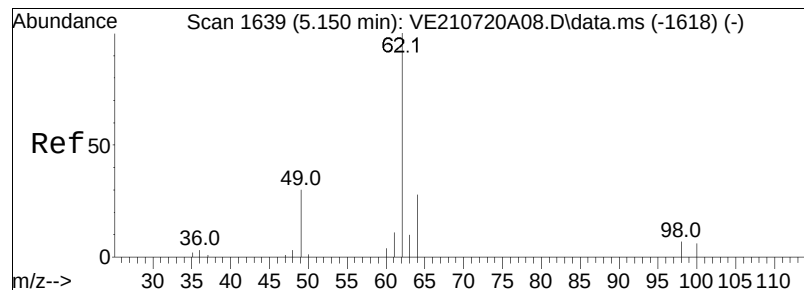
Delta R.T. -0.002 min

Lab File: VE210920A26.D

Acq: 20 Sep 2021 3:47 pm

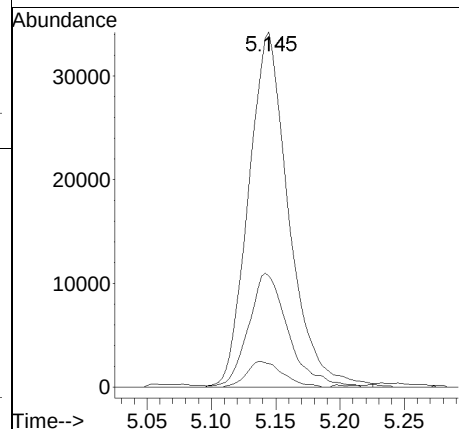
Tgt	Ion: 78	Resp:	217172
Ion	Ratio	Lower	Upper
78	100		
77	24.3	15.7	32.7
51	22.0	16.0	33.2
52	21.4	15.3	31.9

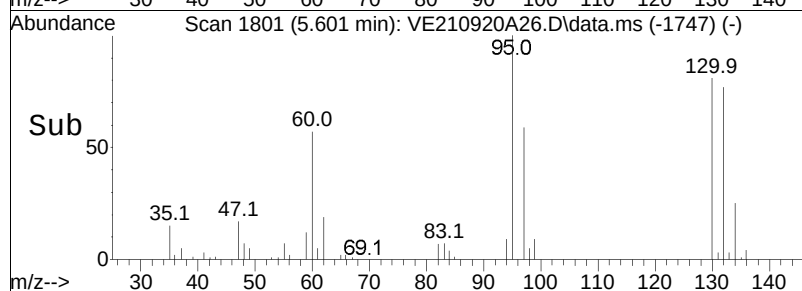
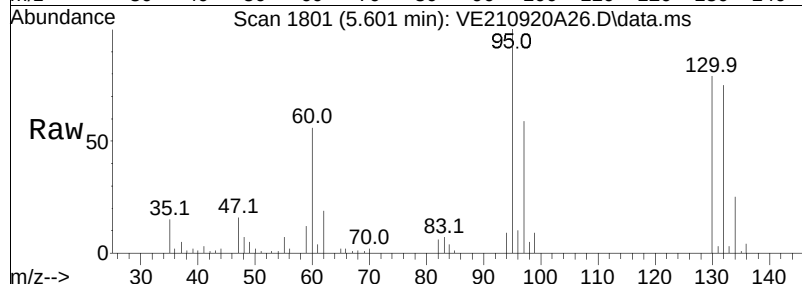
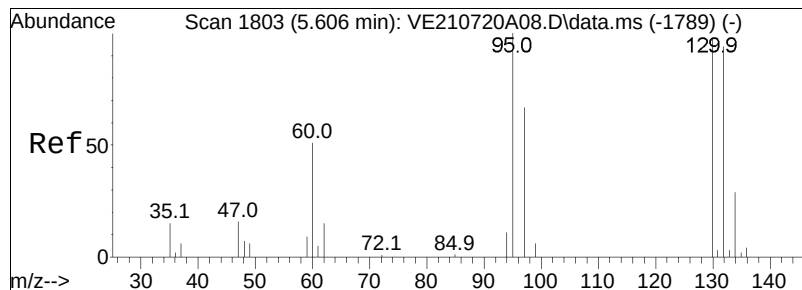




#44
 1,2-Dichloroethane
 Concen: 9.33 ug/L
 RT: 5.145 min Scan# 1637
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

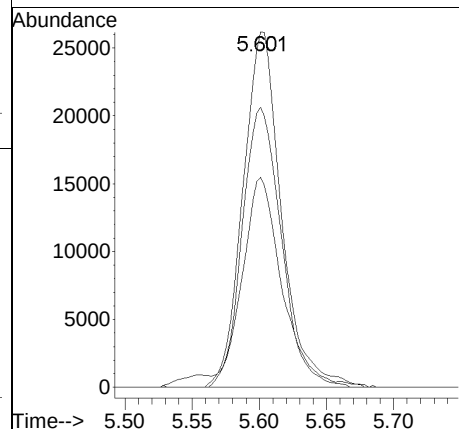
Tgt Ion	Ratio	Lower	Upper
62	100		
64	30.4	11.2	51.2
98	6.7	0.0	26.1

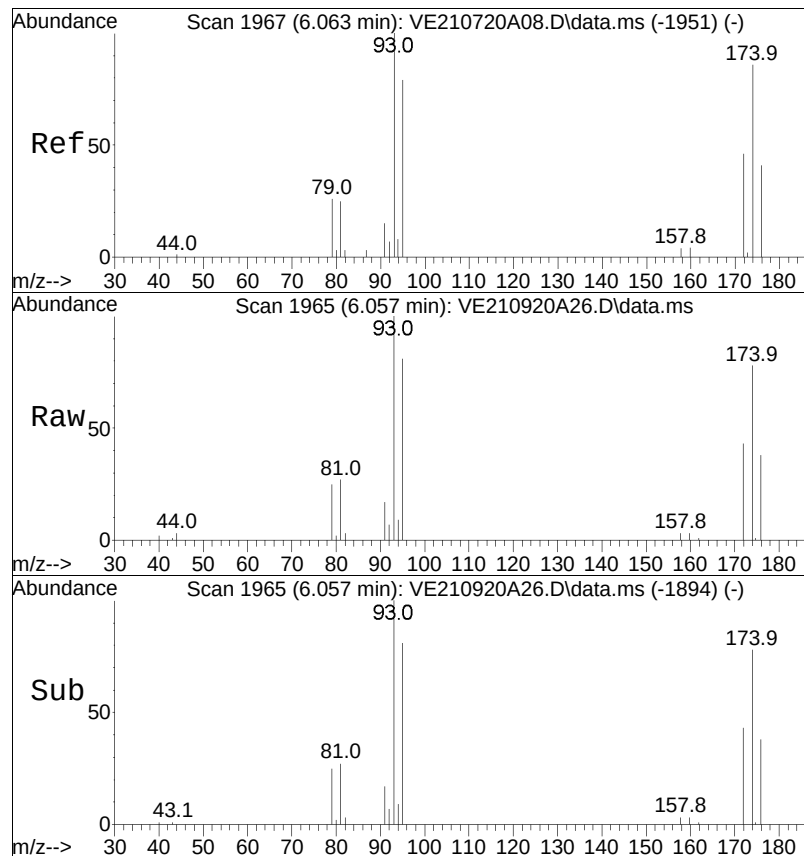




#48
 Trichloroethene
 Concen: 10.99 ug/L
 RT: 5.601 min Scan# 1801
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

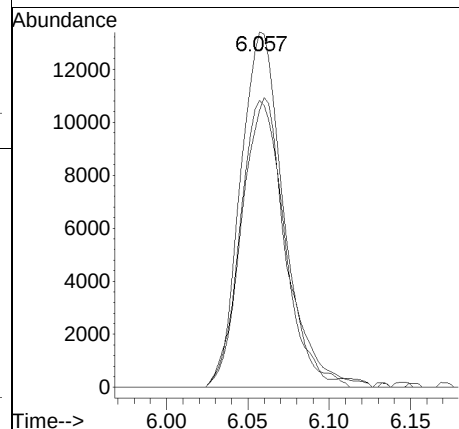
Tgt Ion	Ratio	Lower	Upper
95	100		
97	60.2	55.5	83.3
130	80.8	76.6	115.0

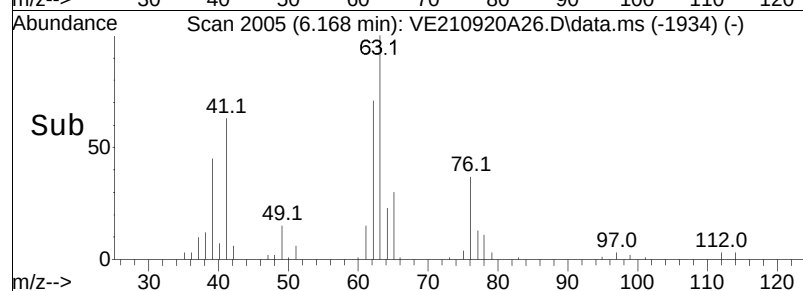
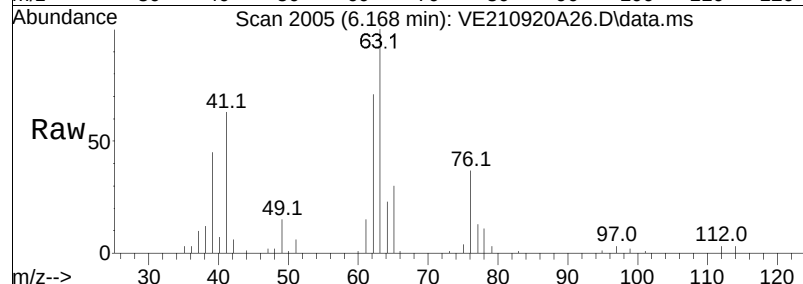
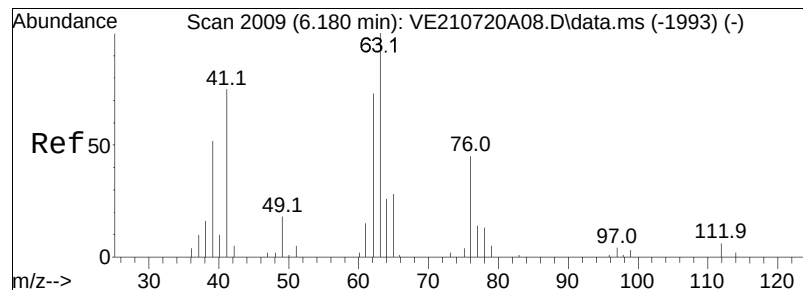




#50
 Dibromomethane
 Concen: 9.15 ug/L
 RT: 6.057 min Scan# 1965
 Delta R.T. -0.003 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

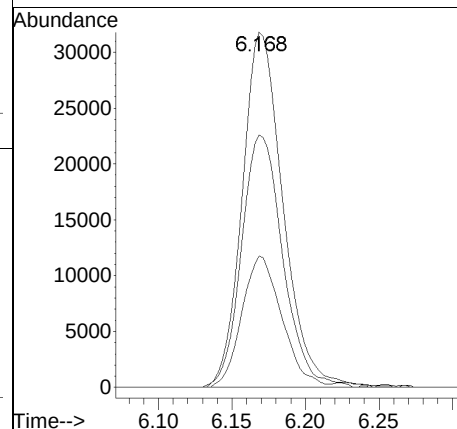
Tgt Ion:	93	Resp:	25095
Ion Ratio	Lower	Upper	
93	100		
95	81.4	67.0	100.4
174	80.4	75.0	112.4

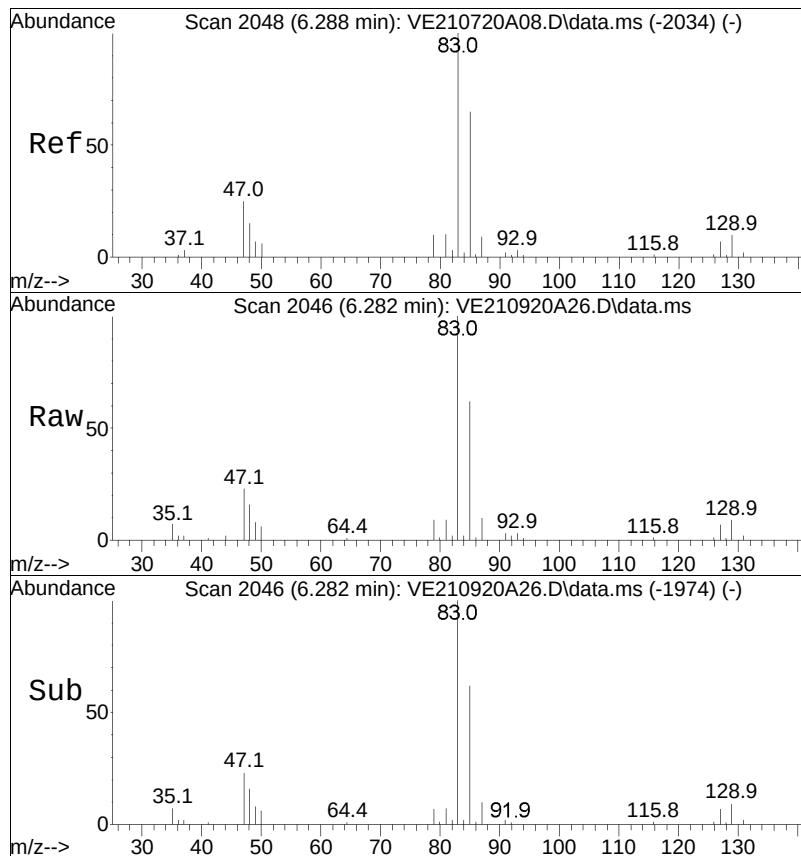




#51
 1,2-Dichloropropane
 Concen: 10.98 ug/L
 RT: 6.168 min Scan# 2005
 Delta R.T. -0.003 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

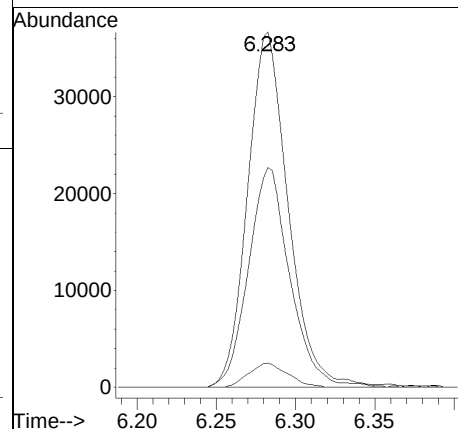
Tgt Ion	Ratio	Lower	Upper
63	100		
62	72.5	58.6	87.8
76	36.3	38.0	57.0#

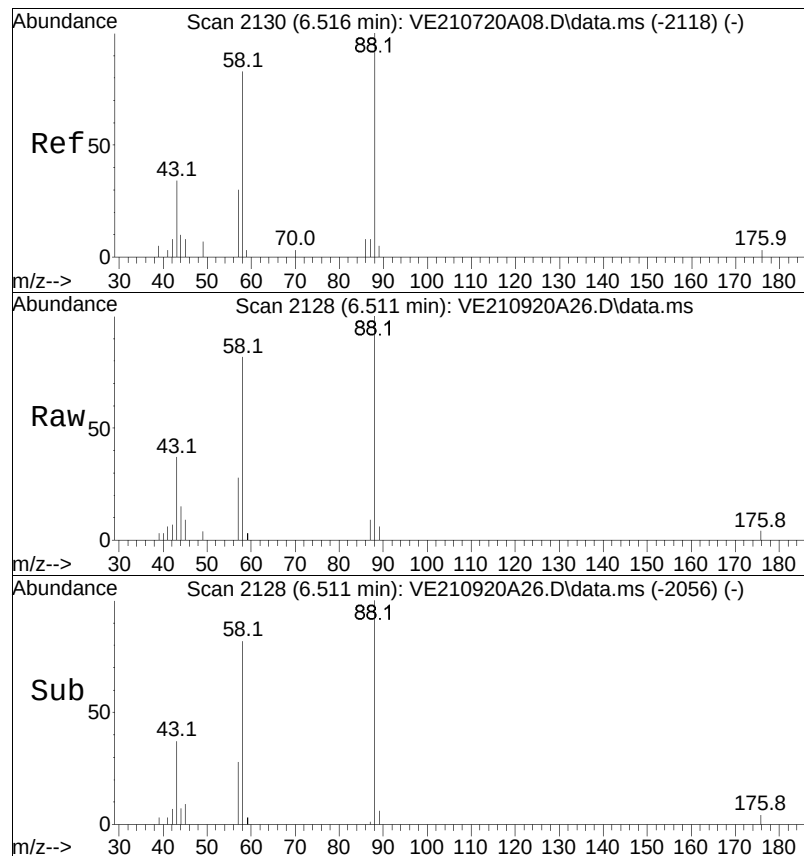




#54
 Bromodichloromethane
 Concen: 9.31 ug/L
 RT: 6.282 min Scan# 2046
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

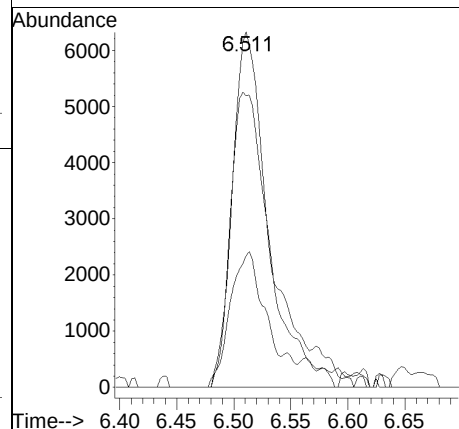
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.3	78.5
127	6.6	6.2	9.4

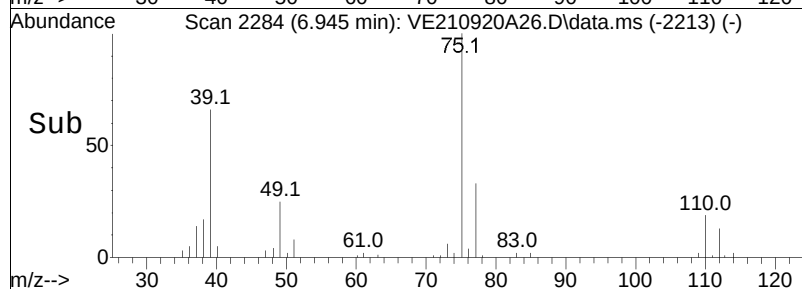
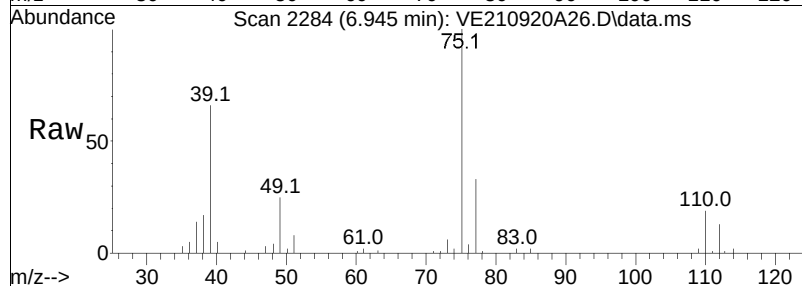
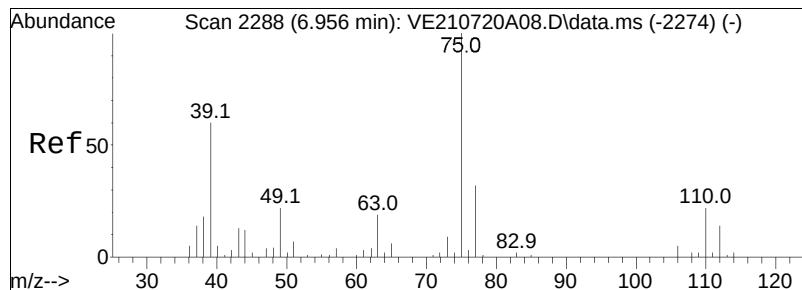




#57
 1,4-Dioxane
 Concen: 437.65 ug/L M1
 RT: 6.511 min Scan# 2128
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

Tgt Ion	Ratio	Lower	Upper
88	100		
58	84.5	76.7	115.1
43	33.5	36.2	54.2#





#58

cis-1,3-Dichloropropene

Concen: 9.52 ug/L

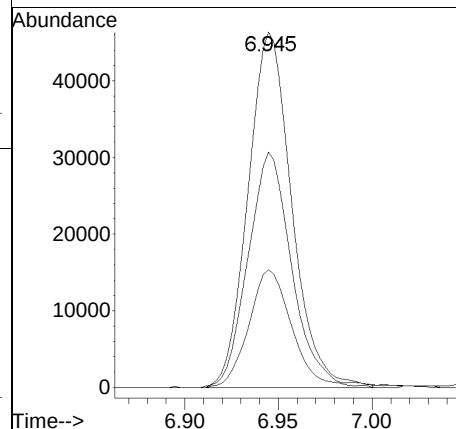
RT: 6.945 min Scan# 2284

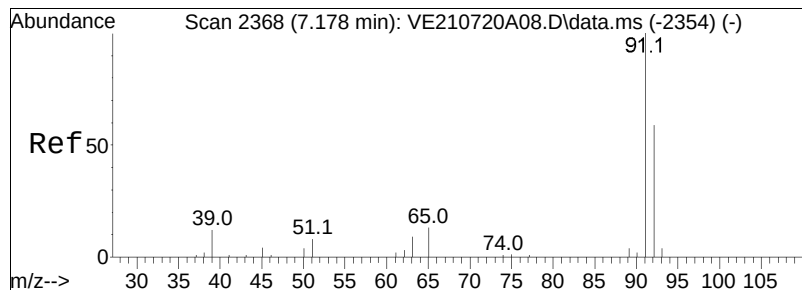
Delta R.T. -0.002 min

Lab File: VE210920A26.D

Acq: 20 Sep 2021 3:47 pm

Tgt Ion:	75	Resp:	75199
Ion Ratio	Lower	Upper	
75	100		
77	32.5	25.0	37.4
39	66.6	50.1	75.1





#61

Toluene

Concen: 10.72 ug/L

RT: 7.170 min Scan# 2365

Delta R.T. 0.000 min

Lab File: VE210920A26.D

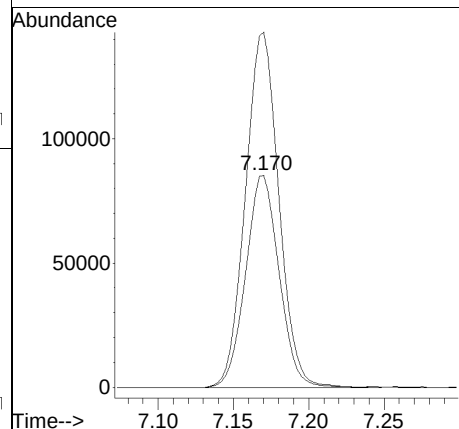
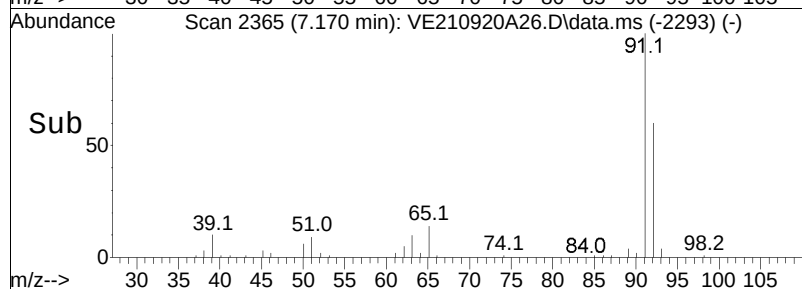
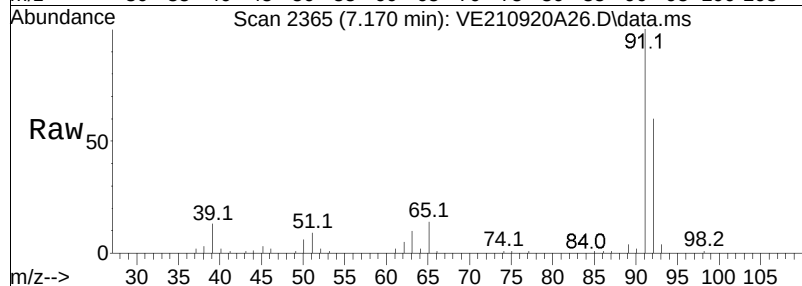
Acq: 20 Sep 2021 3:47 pm

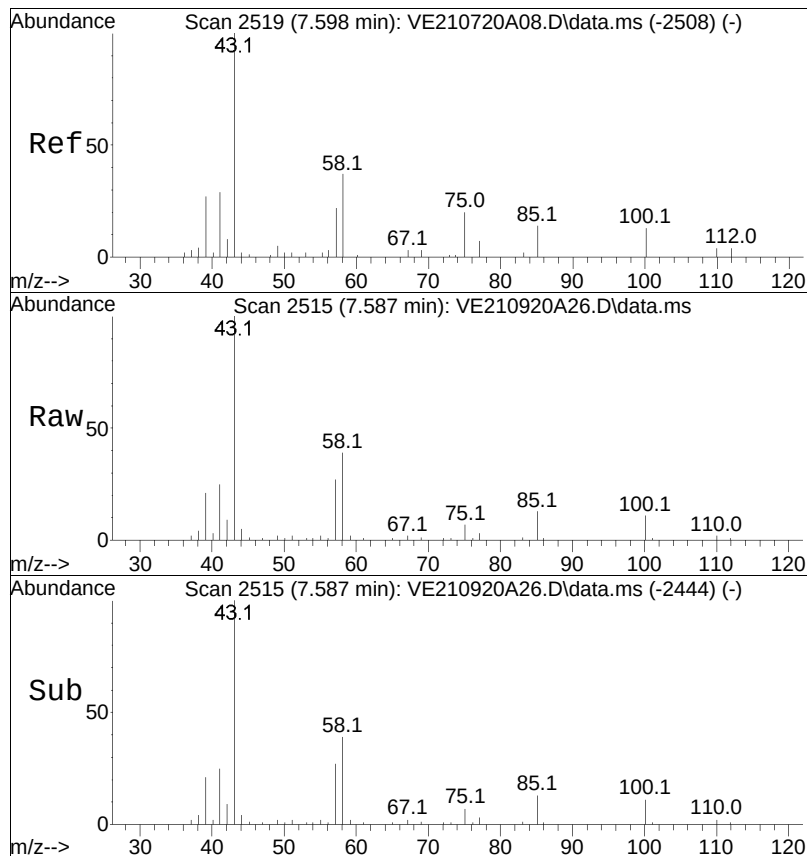
Tgt Ion: 92 Resp: 131678

Ion Ratio Lower Upper

92 100

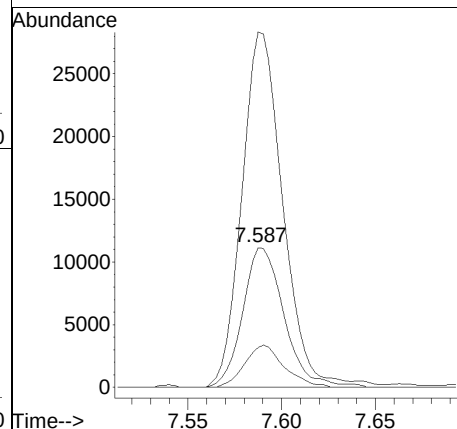
91 166.9 139.8 209.6

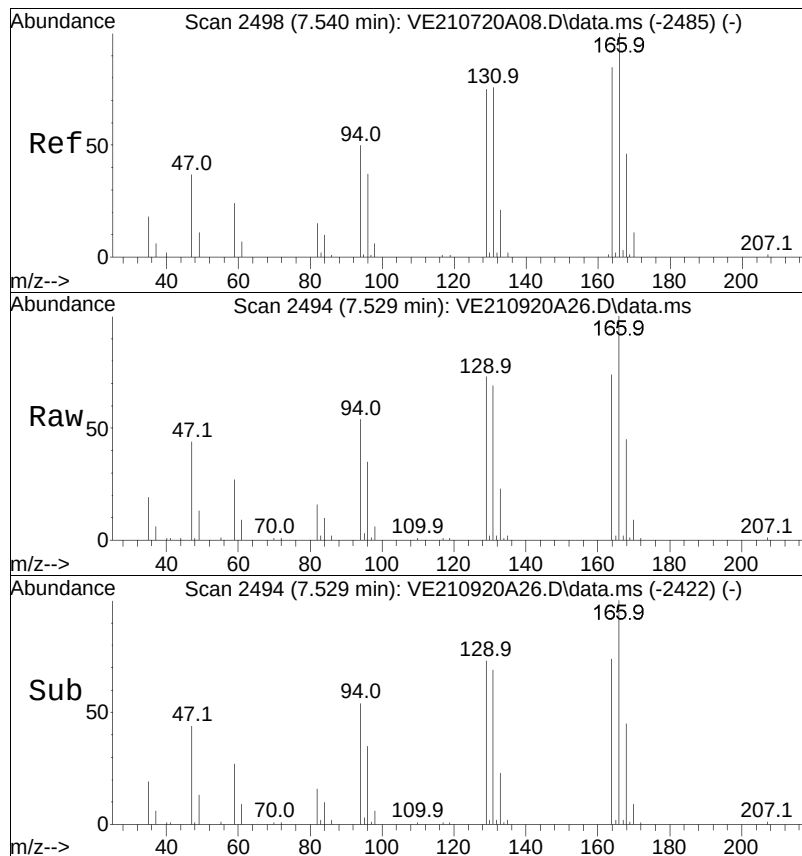




#62
 4-Methyl-2-pentanone
 Concen: 9.97 ug/L
 RT: 7.587 min Scan# 2515
 Delta R.T. -0.003 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

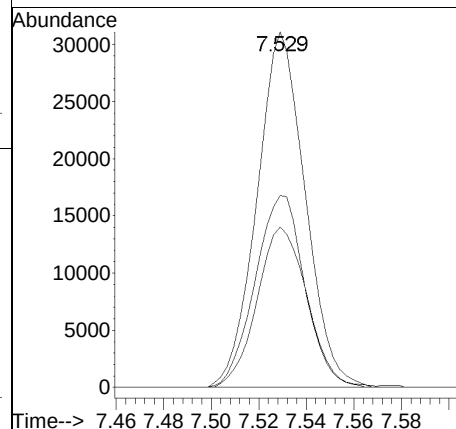
Tgt	Ion	Ratio	Lower	Upper
58	100			
100	29.0	20.2	30.2	
43	249.2	196.6	295.0	

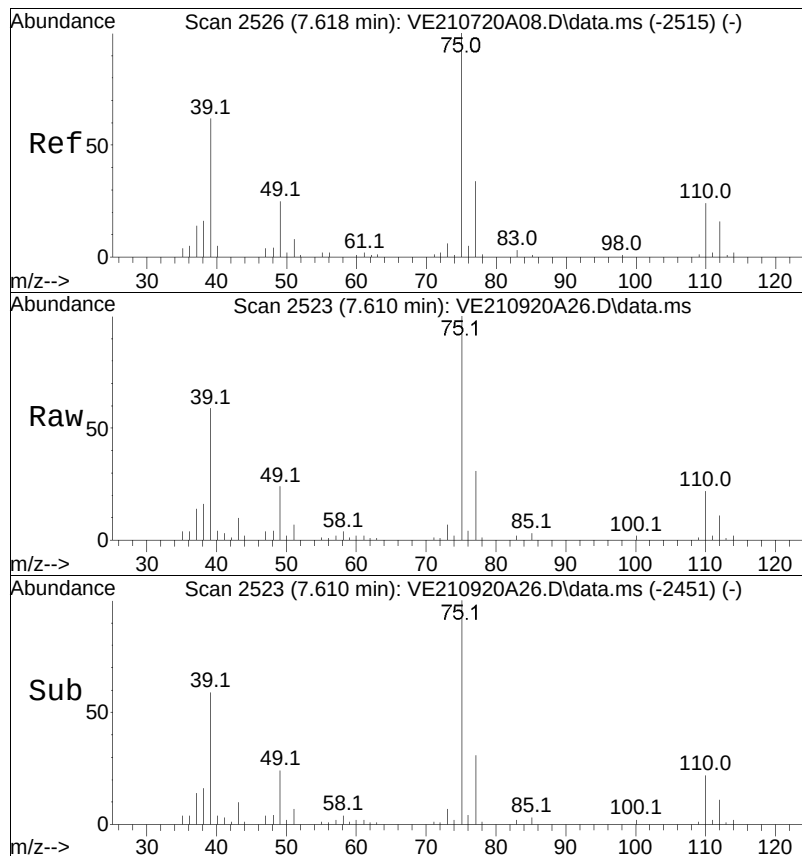




#63
 Tetrachloroethene
 Concen: 10.68 ug/L
 RT: 7.529 min Scan# 2494
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

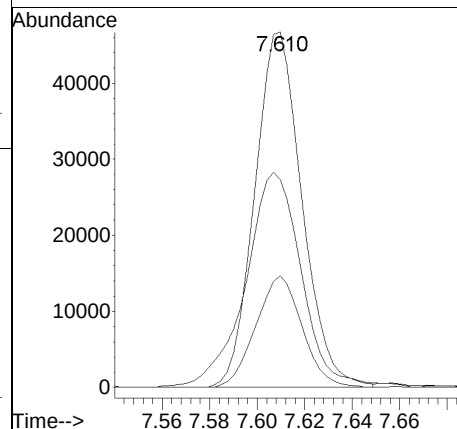
Tgt	Ion:166	Resp:	43841
Ion	Ratio	Lower	Upper
166	100		
168	46.9	28.2	68.2
94	55.6	38.4	78.4

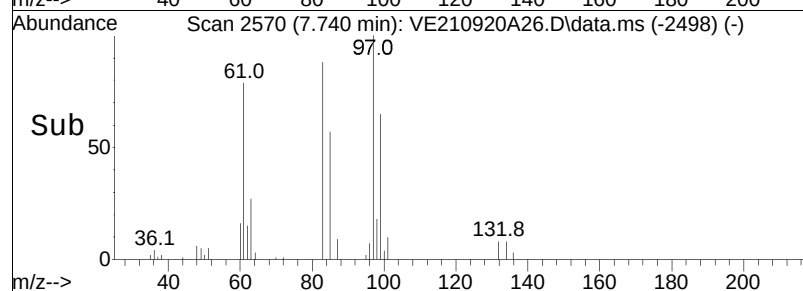
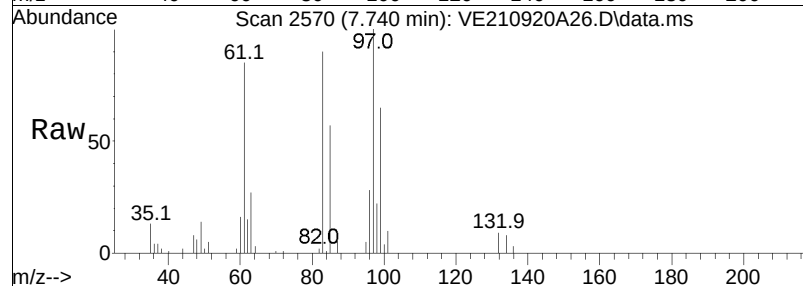
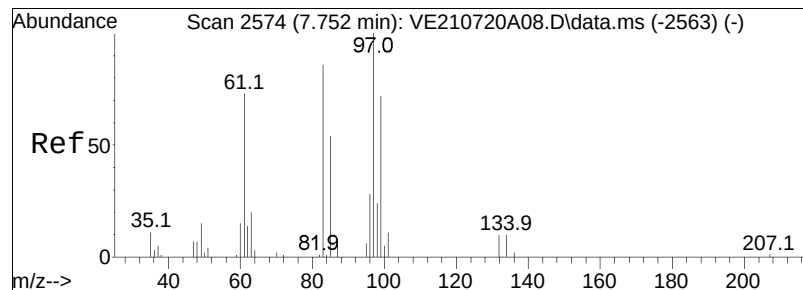




#65
 trans-1,3-Dichloropropene
 Concen: 9.07 ug/L
 RT: 7.610 min Scan# 2523
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

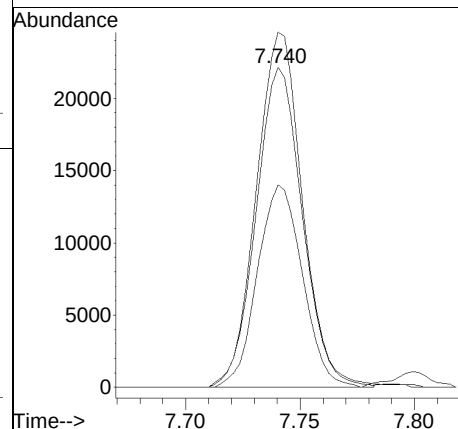
Tgt Ion:	75	Resp:	64604
Ion Ratio	Lower	Upper	
75	100		
77	30.7	12.4	52.4
39	71.9	42.8	82.8

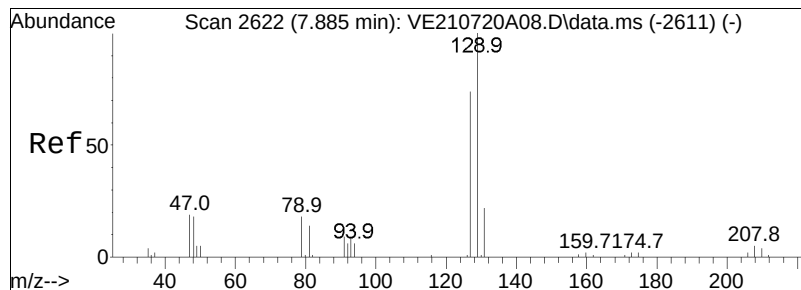




#68
 1,1,2-Trichloroethane
 Concen: 9.67 ug/L
 RT: 7.740 min Scan# 2570
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

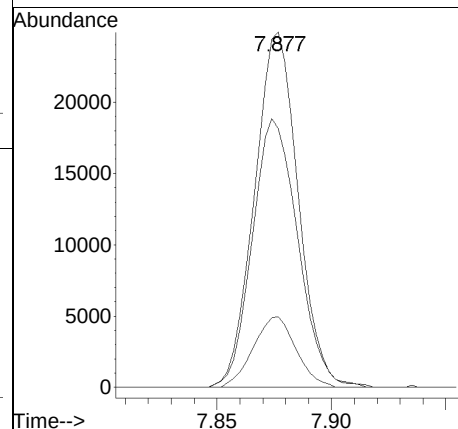
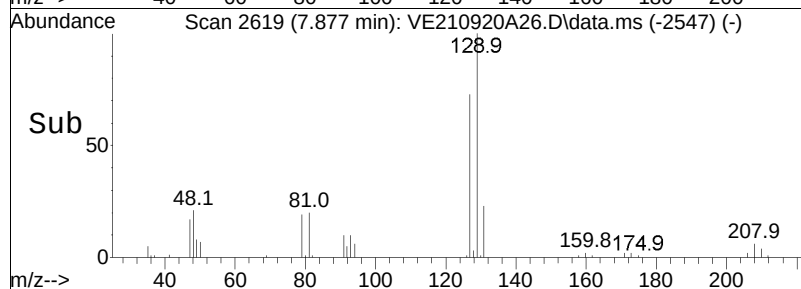
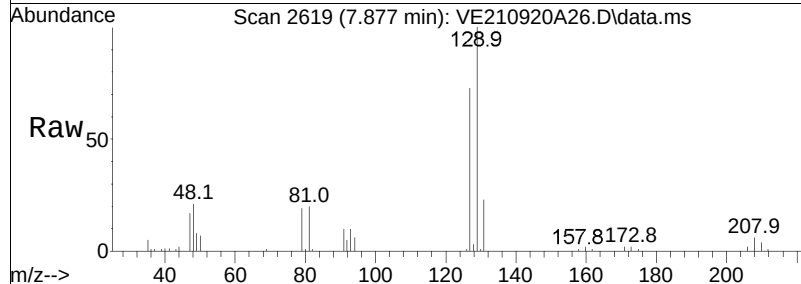
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	31151		
97	111.3		89.8	129.8
85	61.6		44.4	84.4

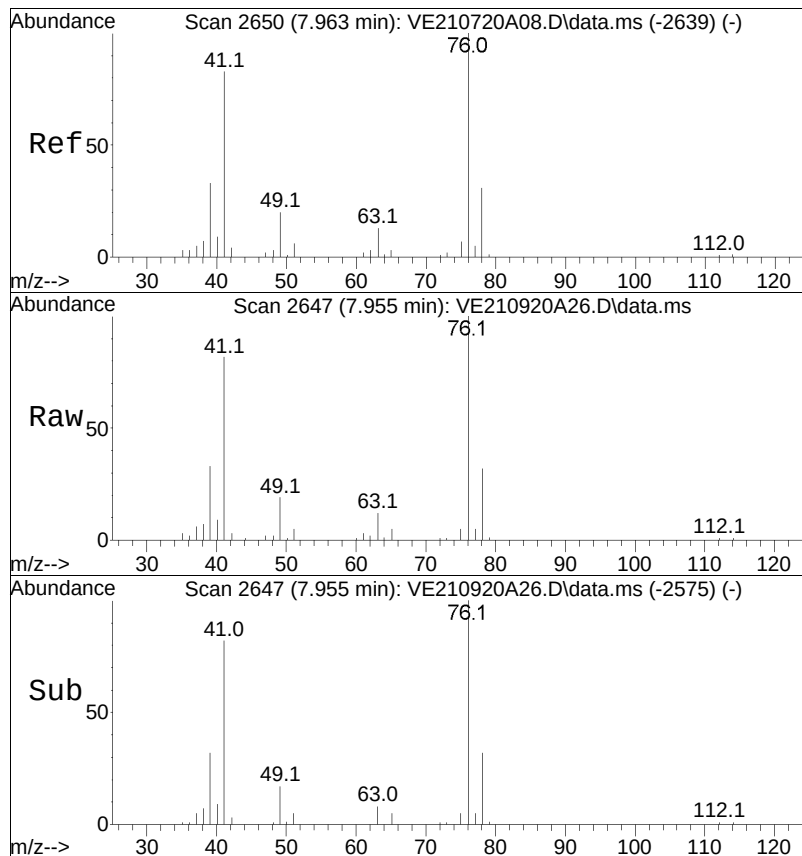




#69
 Chlorodibromomethane
 Concen: 8.21 ug/L
 RT: 7.877 min Scan# 2619
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

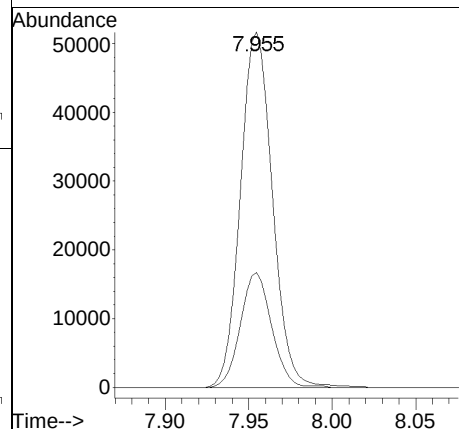
Tgt Ion	Ratio	Lower	Upper
129	100		
81	19.5	2.9	42.9
127	78.7	57.8	97.8

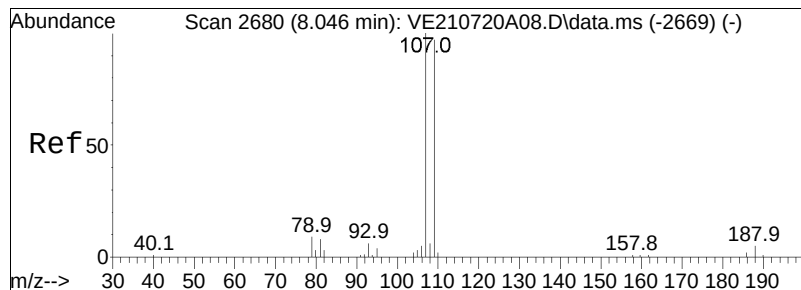




#70
 1,3-Dichloropropane
 Concen: 9.47 ug/L
 RT: 7.955 min Scan# 2647
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

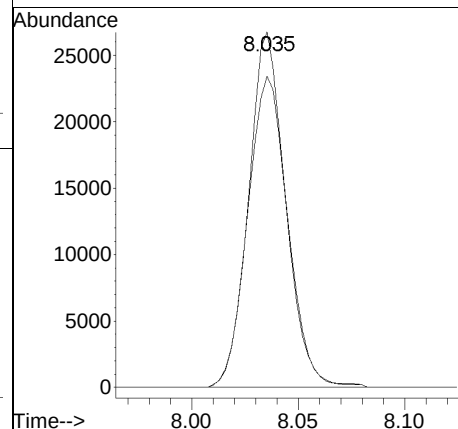
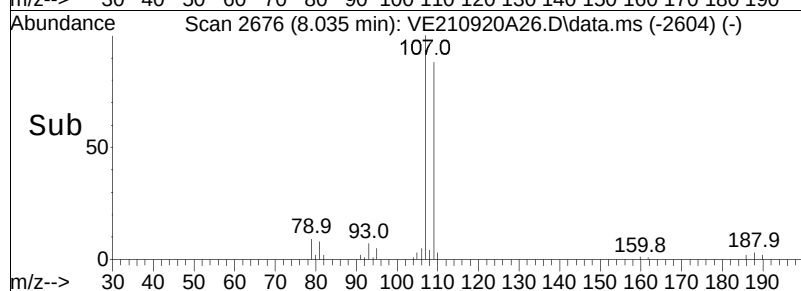
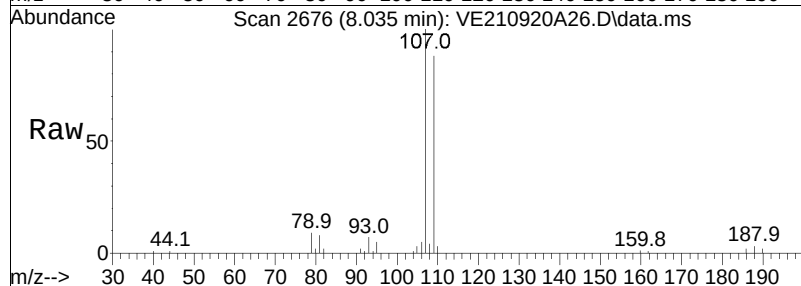
Tgt Ion	Ratio	Lower	Upper
76	100		
78	31.5	25.5	38.3

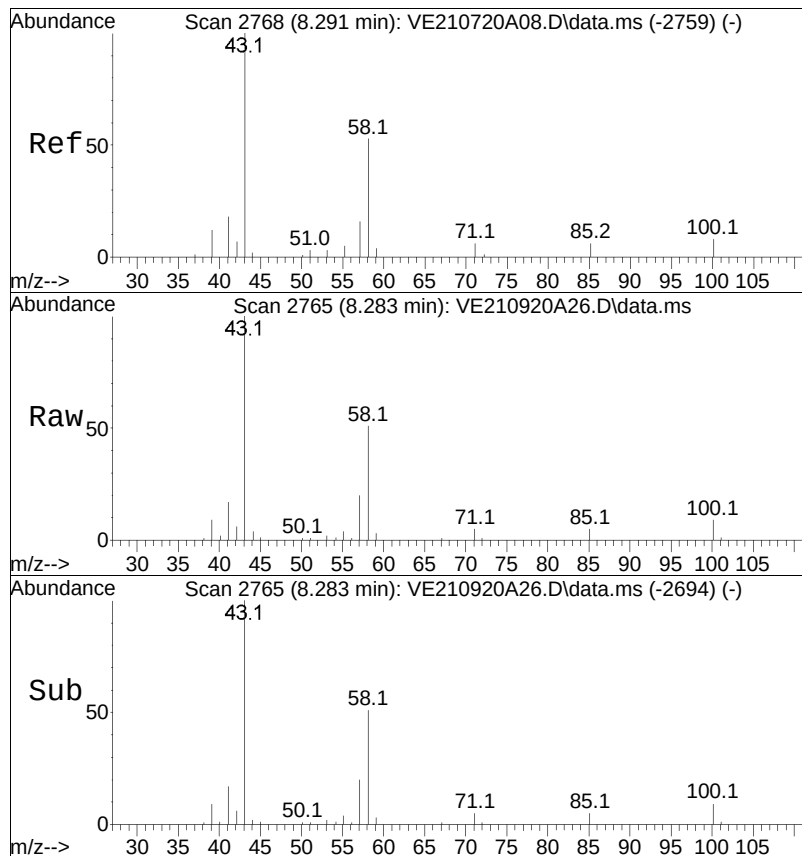




#71
 1,2-Dibromoethane
 Concen: 9.10 ug/L
 RT: 8.035 min Scan# 2676
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

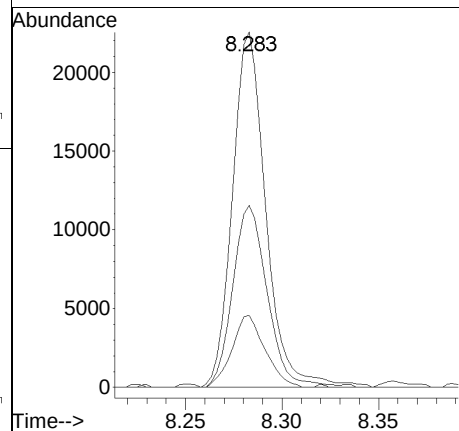
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.0	74.3	111.5

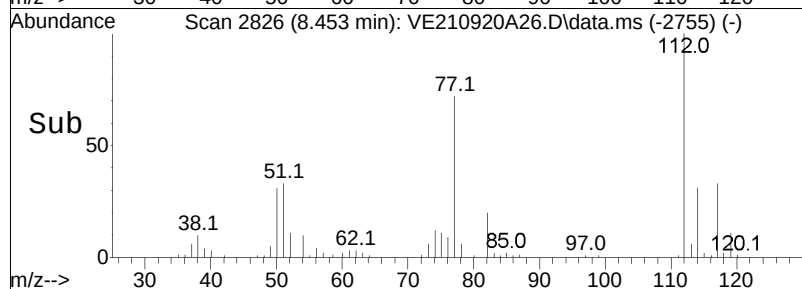
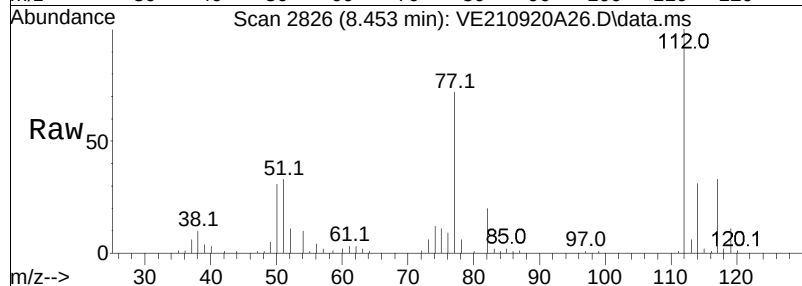
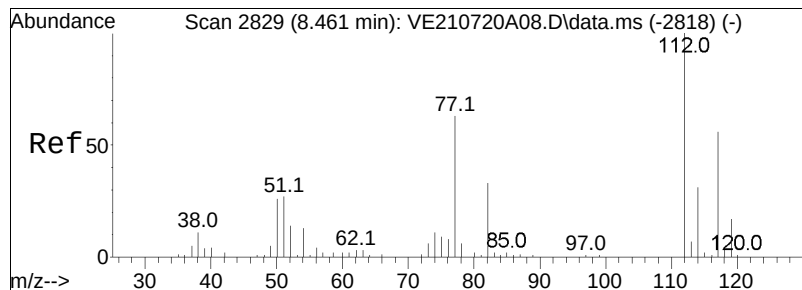




#72
 2-Hexanone
 Concen: 8.43 ug/L
 RT: 8.283 min Scan# 2765
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
58	52.9	41.2	61.8
57	20.1	17.2	25.8





#73

Chlorobenzene

Concen: 10.40 ug/L

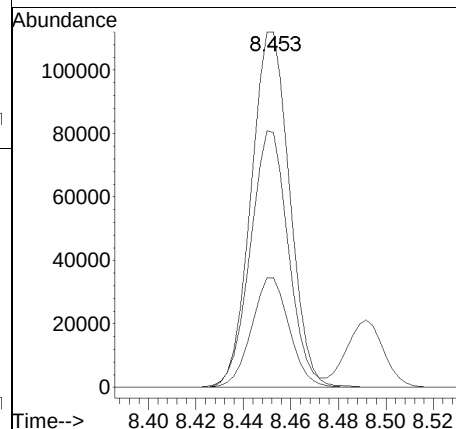
RT: 8.453 min Scan# 2826

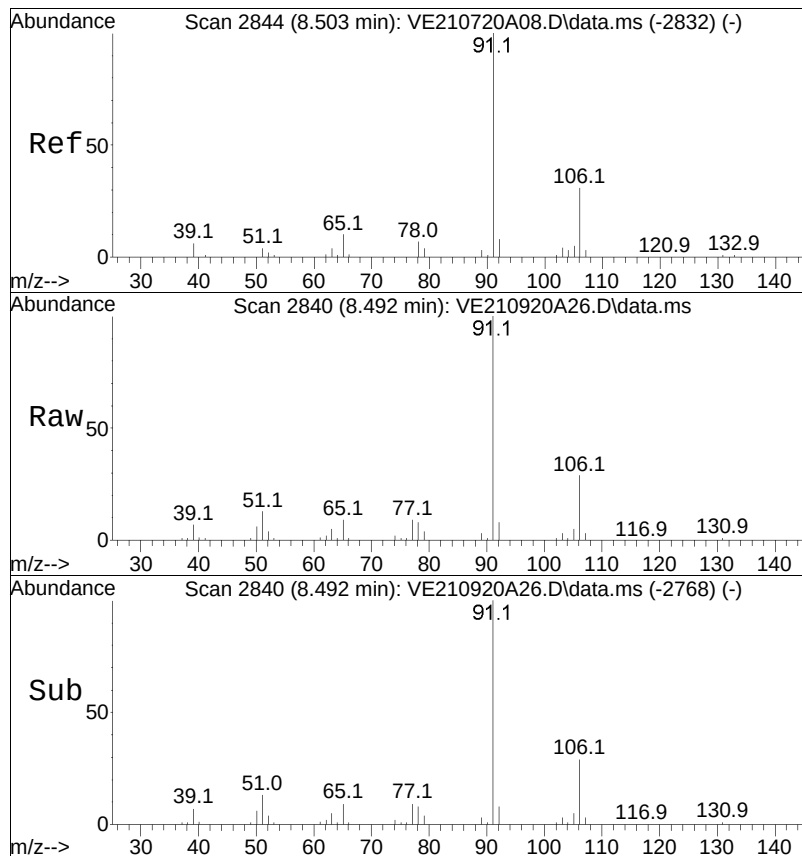
Delta R.T. -0.000 min

Lab File: VE210920A26.D

Acq: 20 Sep 2021 3:47 pm

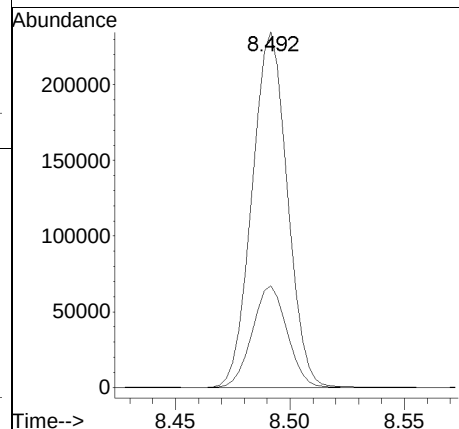
Tgt	Ion:112	Resp:	126215
Ion	Ratio	Lower	Upper
112	100		
77	71.3	55.4	83.0
114	30.3	25.4	38.2

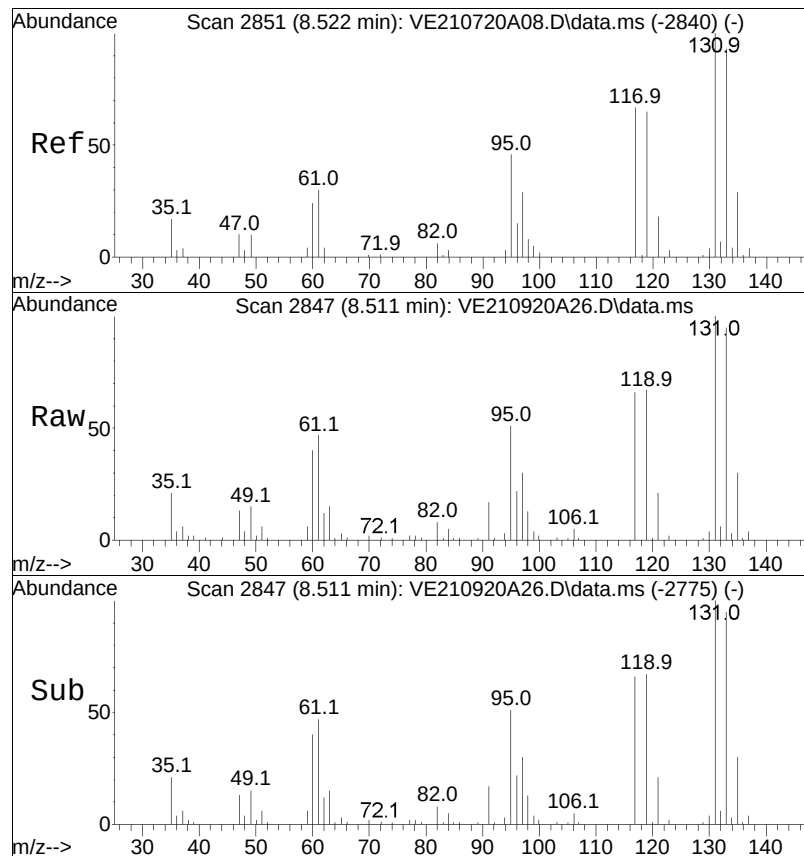




#74
 Ethylbenzene
 Concen: 11.00 ug/L
 RT: 8.492 min Scan# 2840
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

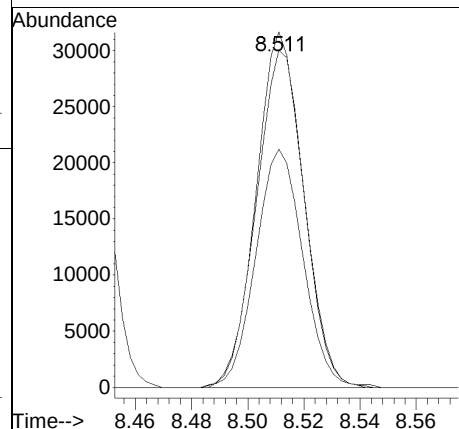
Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.2	24.3	36.5

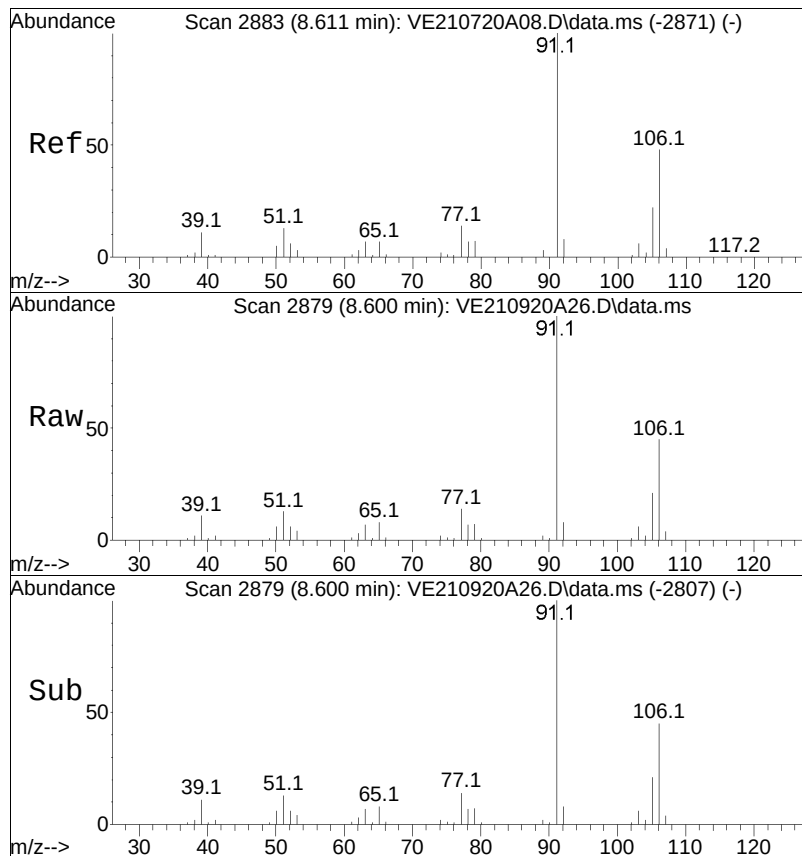




#75
 1,1,1,2-Tetrachloroethane
 Concen: 8.70 ug/L
 RT: 8.511 min Scan# 2847
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

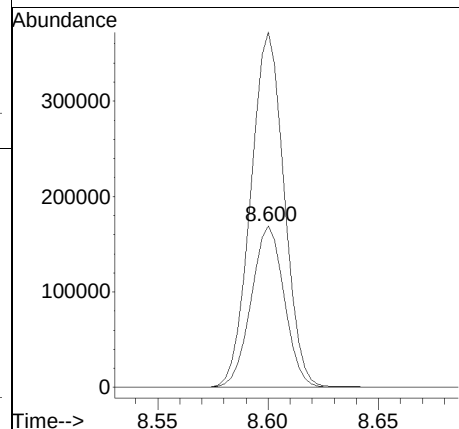
Tgt Ion:	131	Resp:	36868
Ion Ratio	Lower	Upper	
131	100		
133	97.5	81.0	121.0
119	67.2	41.3	81.3

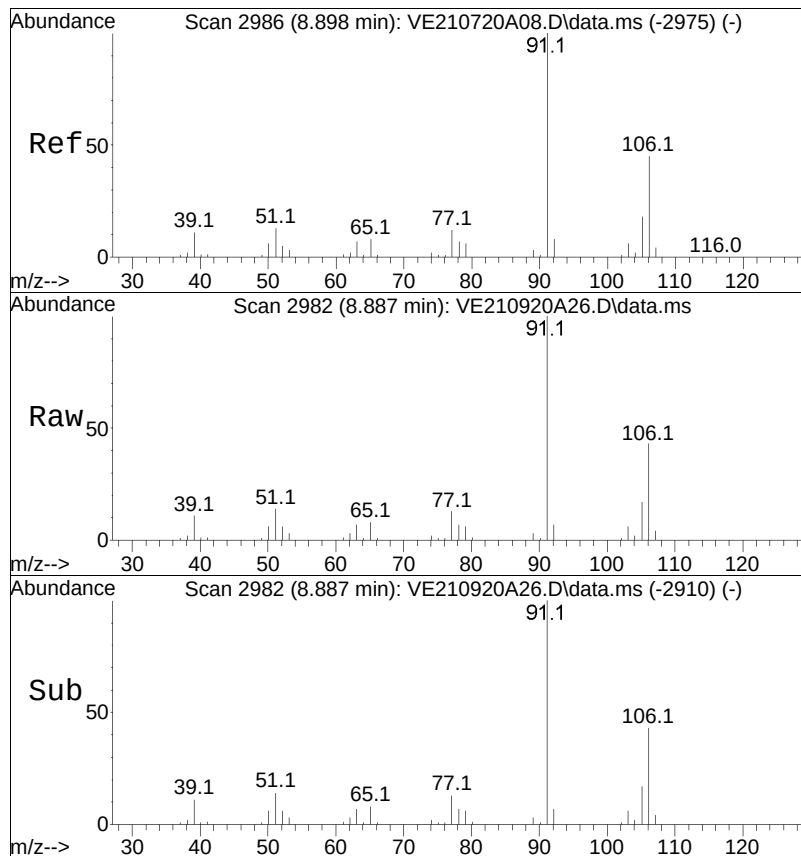




#76
 p/m Xylene
 Concen: 21.73 ug/L
 RT: 8.600 min Scan# 2879
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

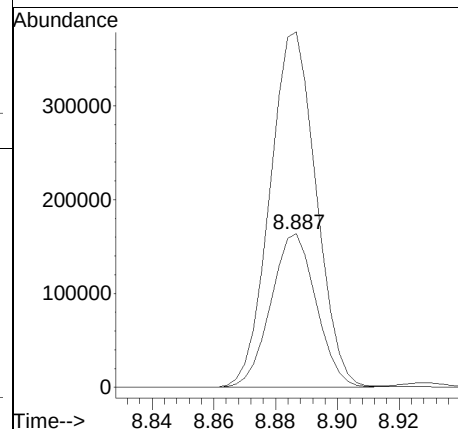
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	222.7	166.4	249.6	

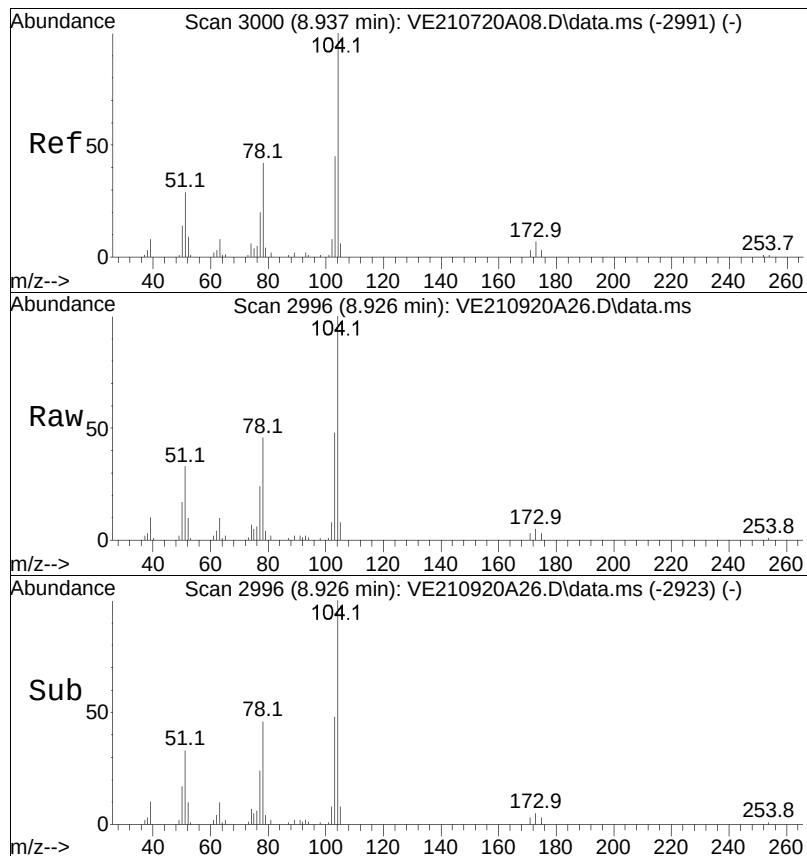




#77
 o Xylene
 Concen: 21.52 ug/L
 RT: 8.887 min Scan# 2982
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

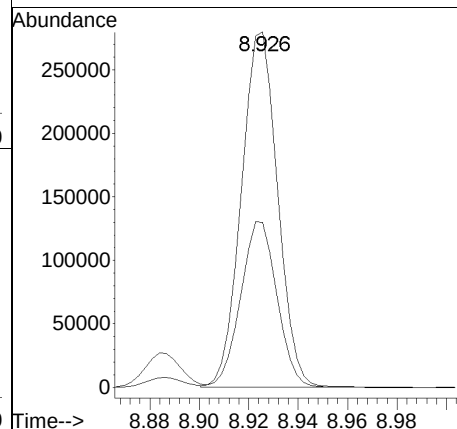
Tgt Ion	Ratio	Lower	Upper
106	100		
91	235.9	182.6	273.8

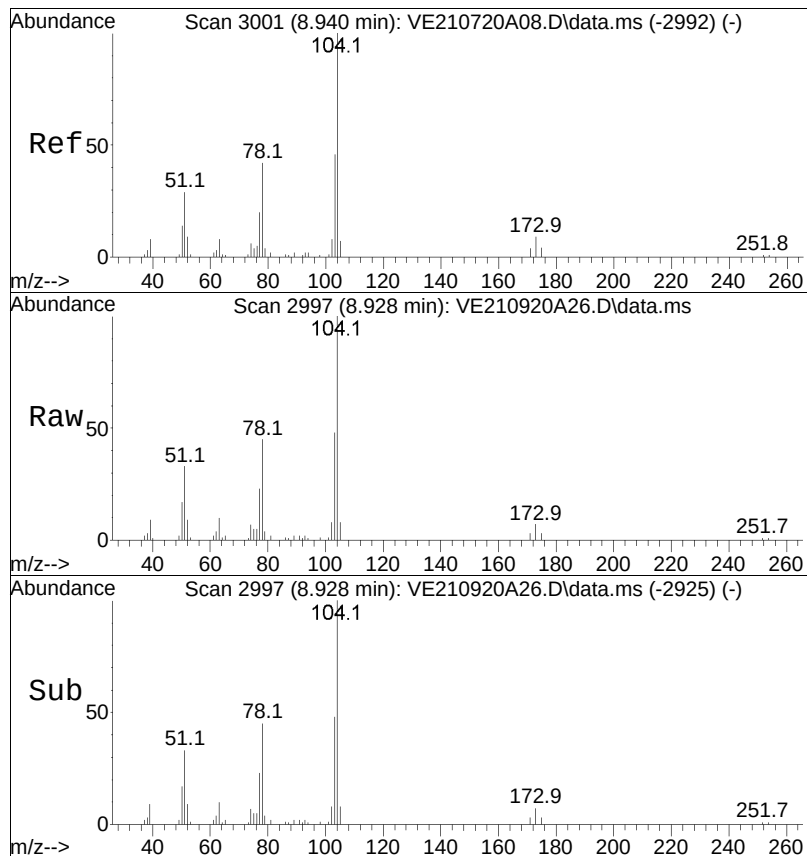




#78
 Styrene
 Concen: 20.89 ug/L
 RT: 8.926 min Scan# 2996
 Delta R.T. 0.003 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

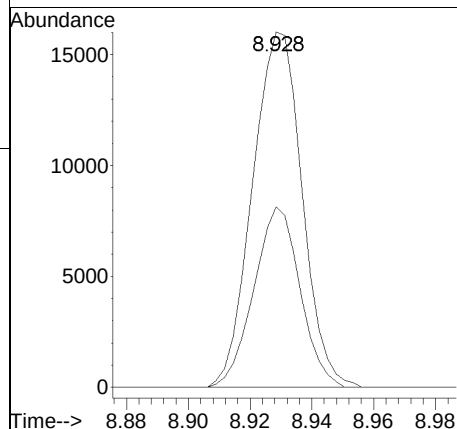
Tgt Ion	Ratio	Lower	Upper
104	100		
78	46.8	39.8	59.6

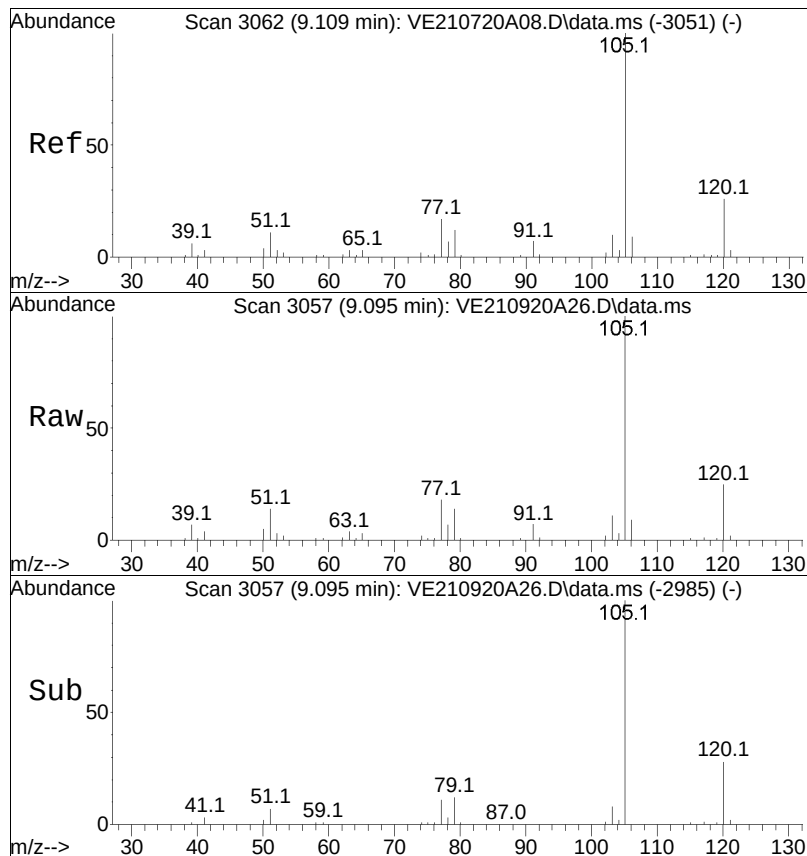




#80
 Bromoform
 Concen: 7.70 ug/L
 RT: 8.928 min Scan# 2997
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

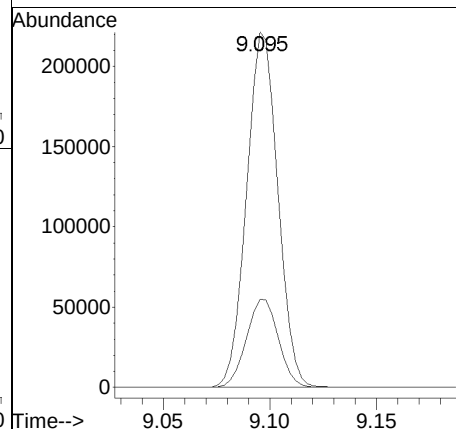
Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.3	31.5	71.5

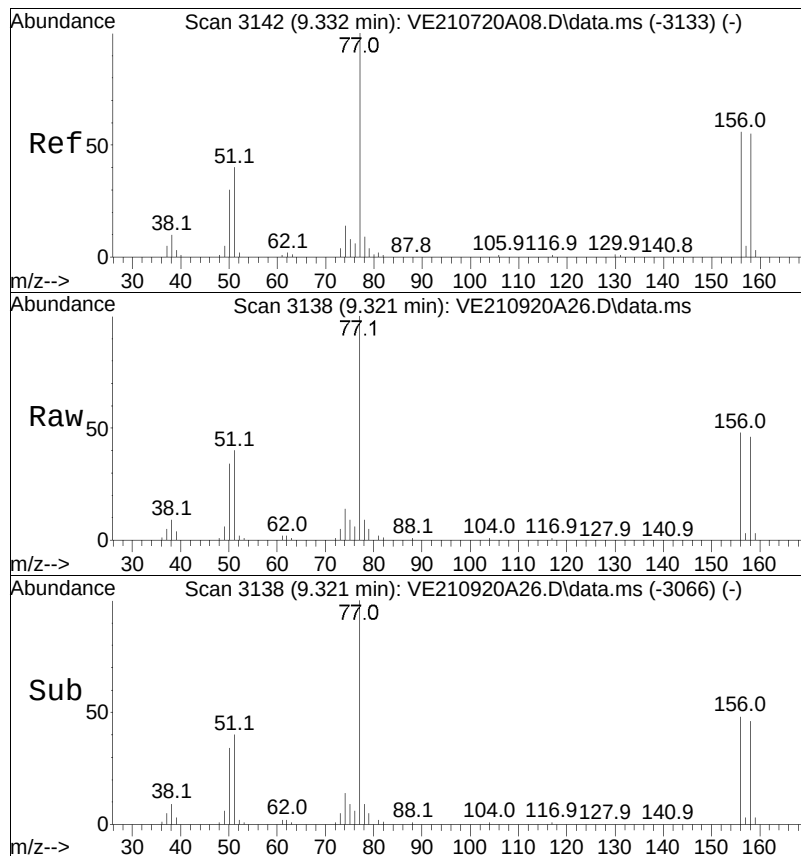




#82
Isopropylbenzene
Concen: 10.70 ug/L
RT: 9.095 min Scan# 3057
Delta R.T. 0.000 min
Lab File: VE210920A26.D
Acq: 20 Sep 2021 3:47 pm

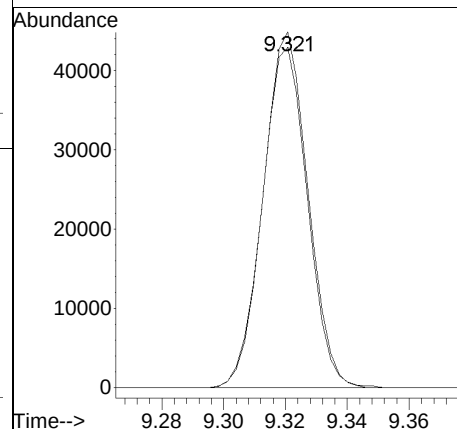
Tgt	Ion	Ratio	Lower	Upper
105	100			
120	25.3	4.8	44.8	

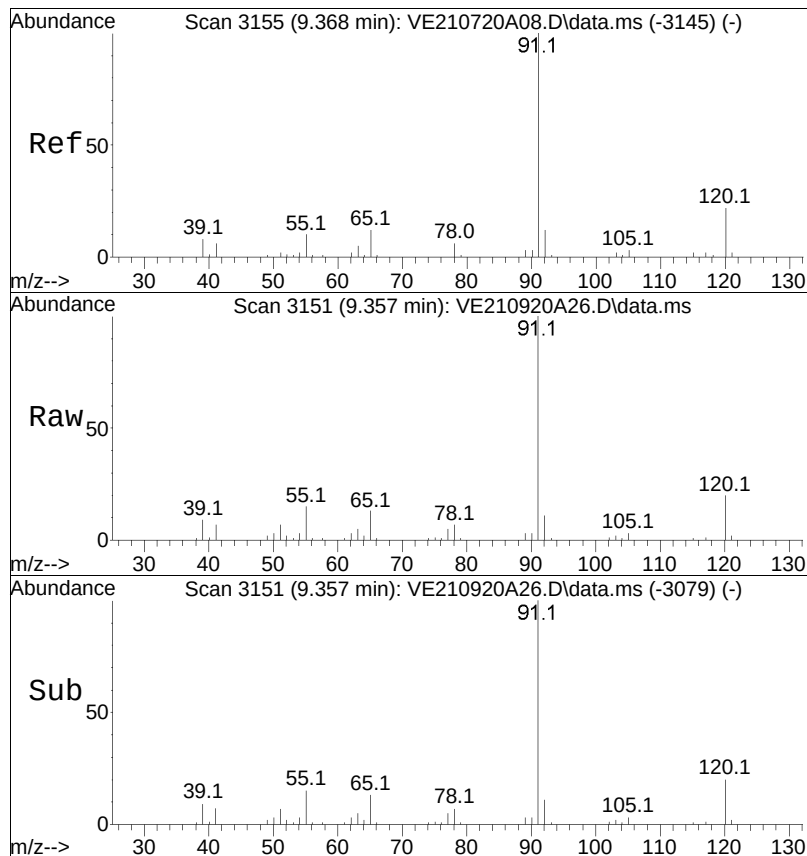




#84
 Bromobenzene
 Concen: 9.69 ug/L
 RT: 9.321 min Scan# 3138
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

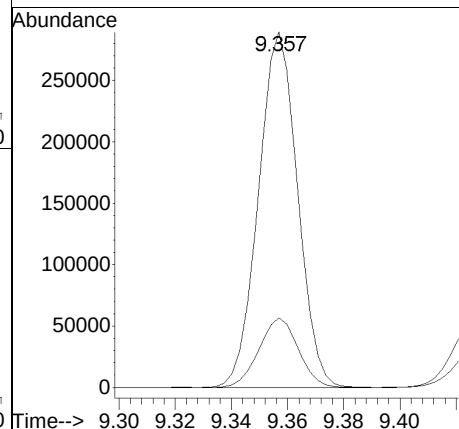
Tgt Ion	Ratio	Lower	Upper
156	100		
158	96.7	75.9	113.9

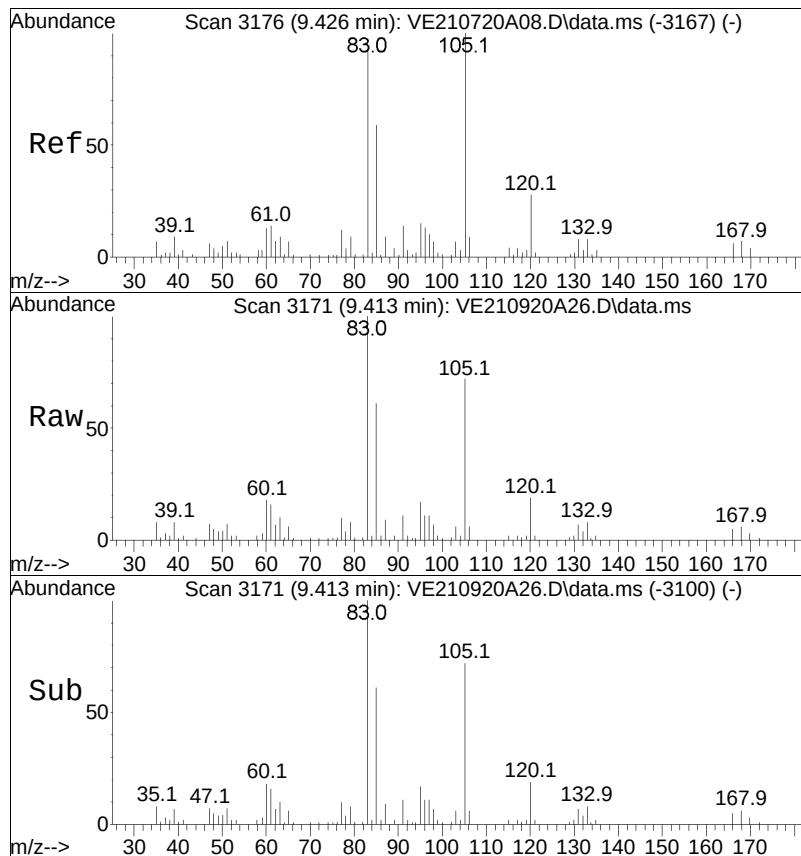




#85
 n-Propylbenzene
 Concen: 11.04 ug/L
 RT: 9.357 min Scan# 3151
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

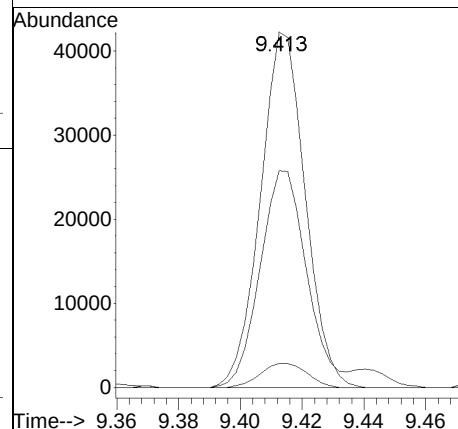
Tgt	Ion	Ratio	Lower	Upper
91	100			
120	19.6	17.0	25.6	

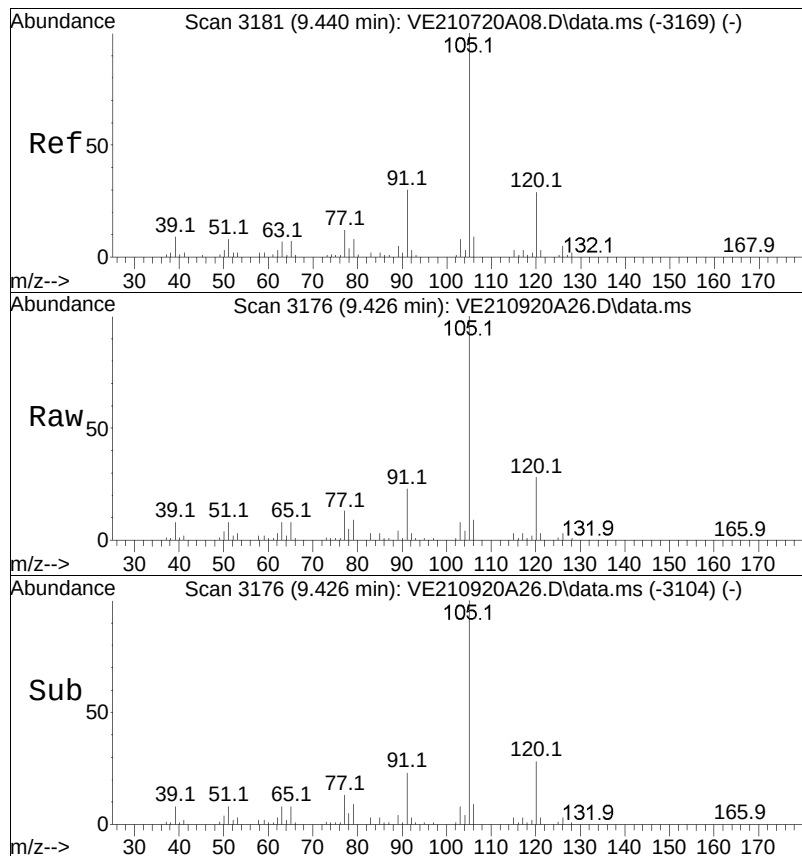




#87
 1,1,2,2-Tetrachloroethane
 Concen: 9.91 ug/L
 RT: 9.413 min Scan# 3171
 Delta R.T. -0.002 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

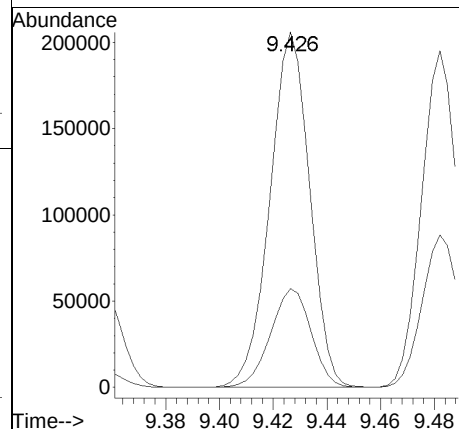
Tgt Ion	83	131	85	Ratio	100	7.1	64.1	Resp:	42478	Lower	Upper

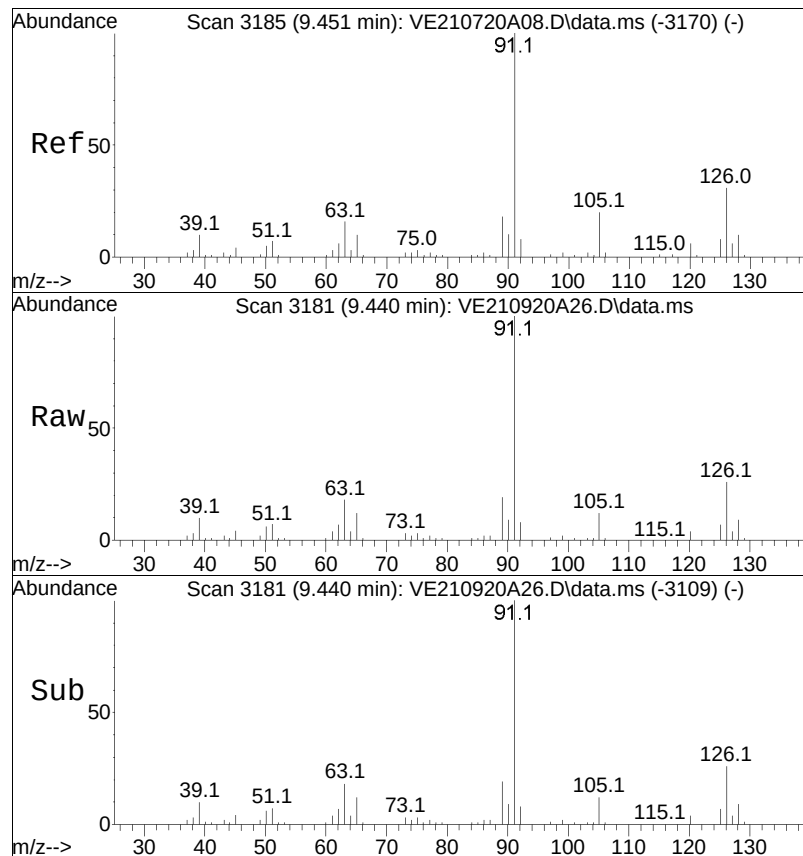




#88
 4-Ethyltoluene
 Concen: 10.65 ug/L
 RT: 9.426 min Scan# 3176
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

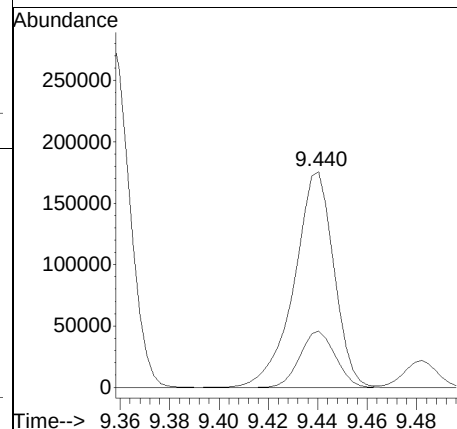
Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.4	18.1	37.7

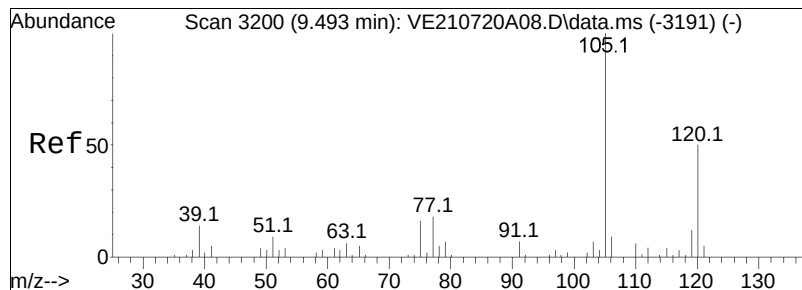




#89
 2-Chlorotoluene
 Concen: 10.67 ug/L
 RT: 9.440 min Scan# 3181
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

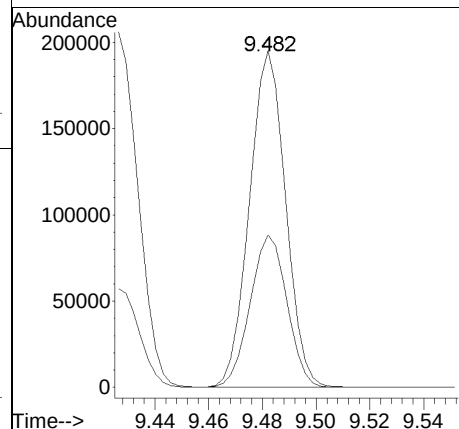
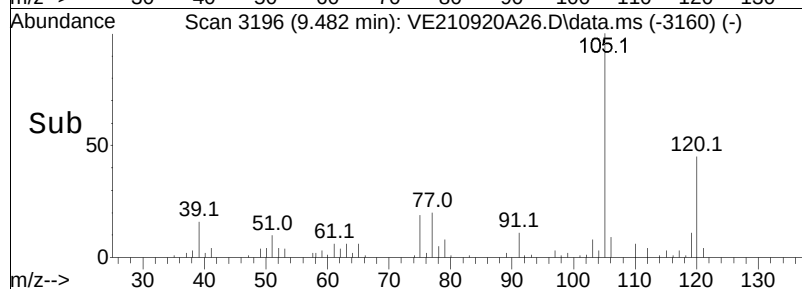
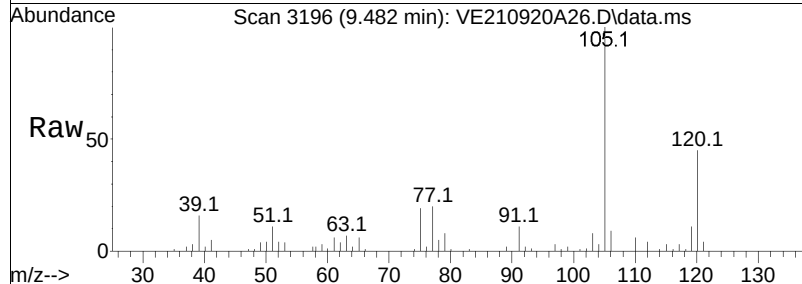
Tgt Ion:	91	Resp:	196372
Ion Ratio	Lower	Upper	
91	100		
126	23.2	21.5	32.3

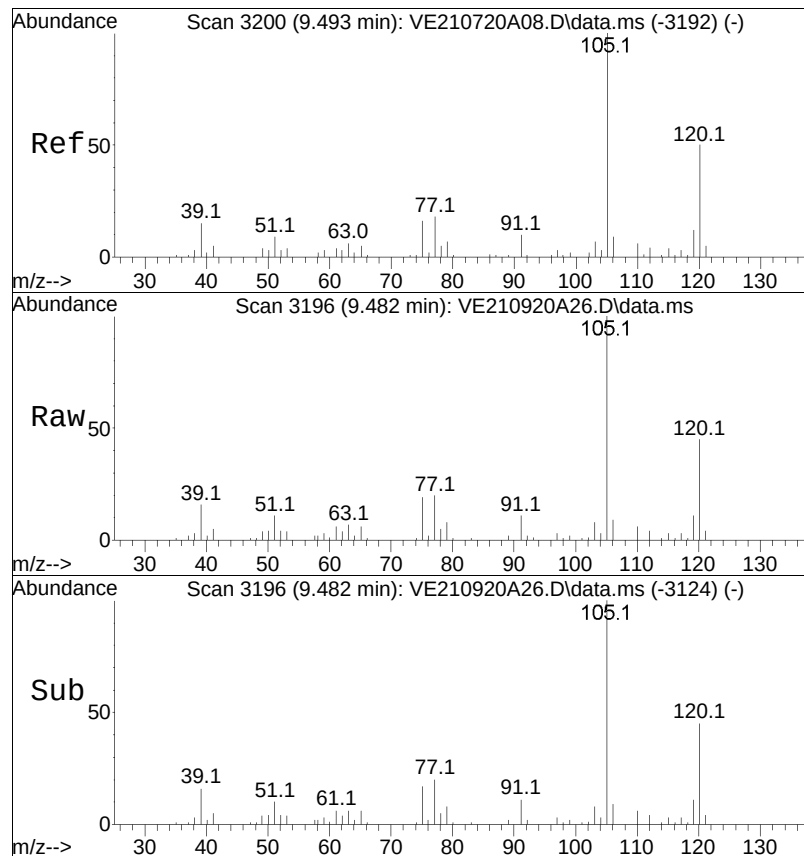




#90
 1,3,5-Trimethylbenzene
 Concen: 10.33 ug/L
 RT: 9.482 min Scan# 3196
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

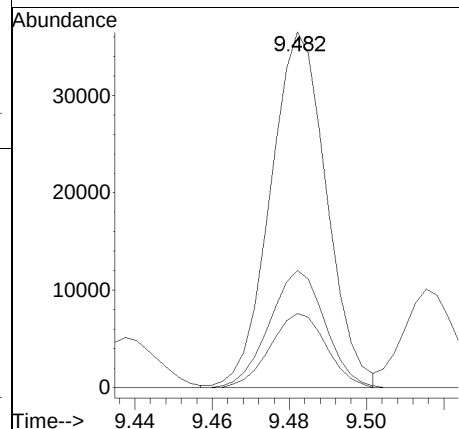
Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.2	34.8	52.2

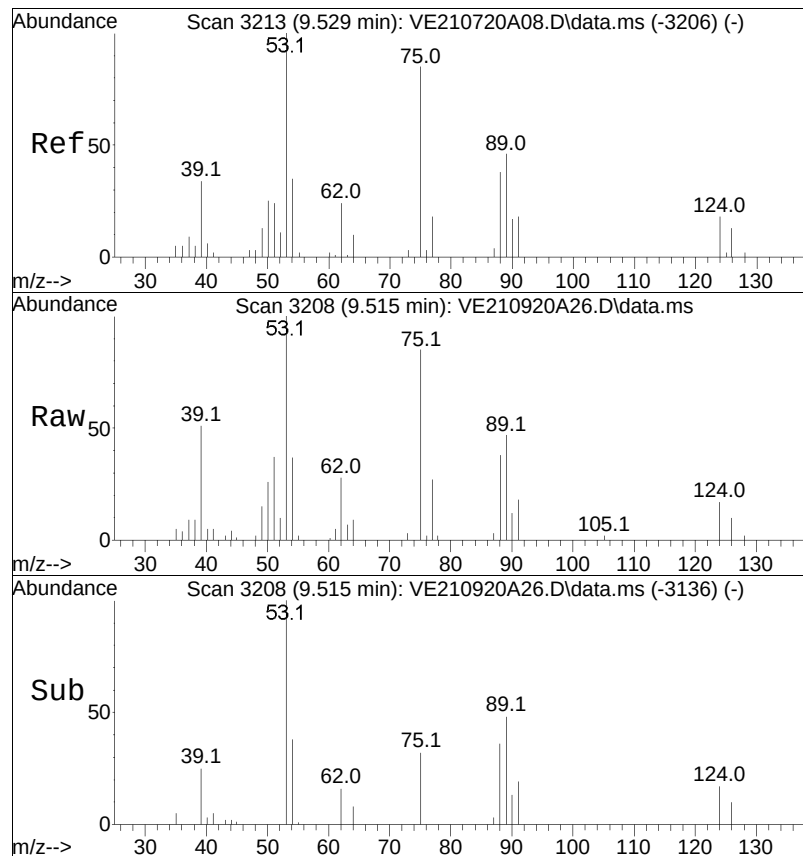




#91
 1,2,3-Trichloropropane
 Concen: 9.49 ug/L
 RT: 9.482 min Scan# 3196
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

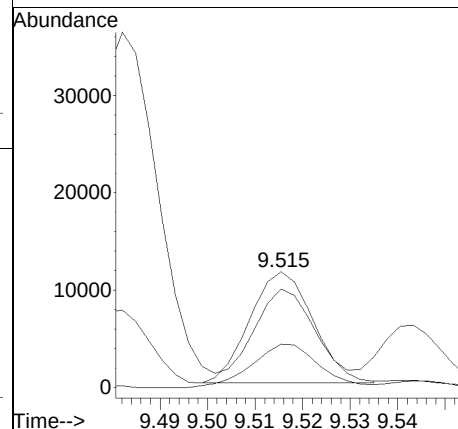
Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.6	25.4	52.8
112	20.7	15.6	32.4

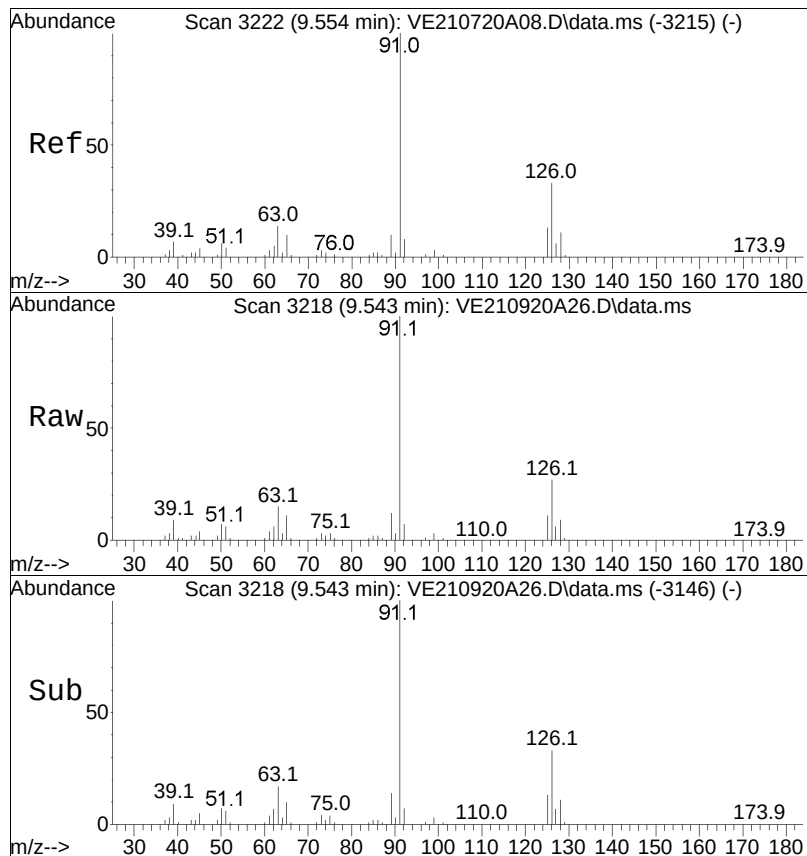




#92
trans-1,4-Dichloro-2-butene
Concen: 6.53 ug/L
RT: 9.515 min Scan# 3208
Delta R.T. 0.000 min
Lab File: VE210920A26.D
Acq: 20 Sep 2021 3:47 pm

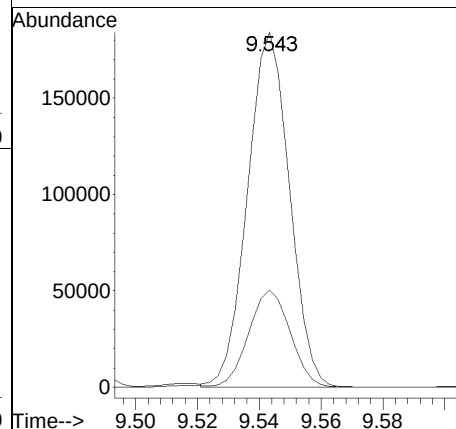
Tgt	Ion: 53	Resp:	10616
Ion	Ratio	Lower	Upper
53	100		
88	40.9	39.6	59.4
75	88.6	70.2	105.4

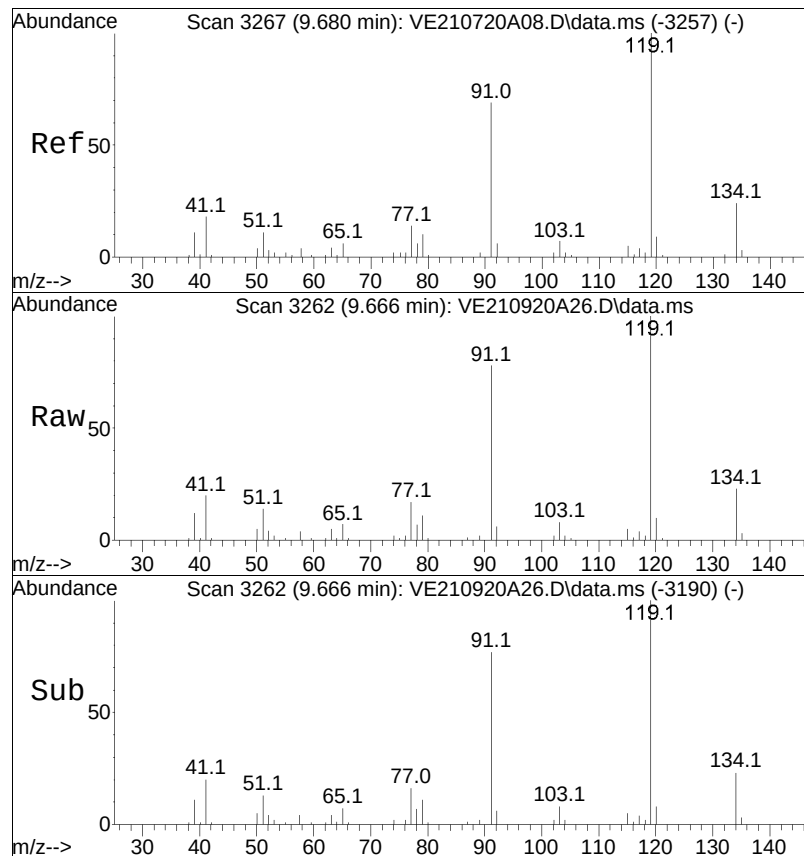




#93
 4-Chlorotoluene
 Concen: 10.32 ug/L
 RT: 9.543 min Scan# 3218
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

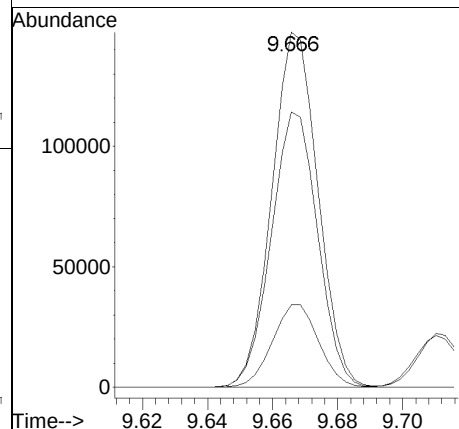
Tgt Ion:	91	Resp:	173342
Ion Ratio	Lower	Upper	
91	100		
126	27.3	24.6	36.8

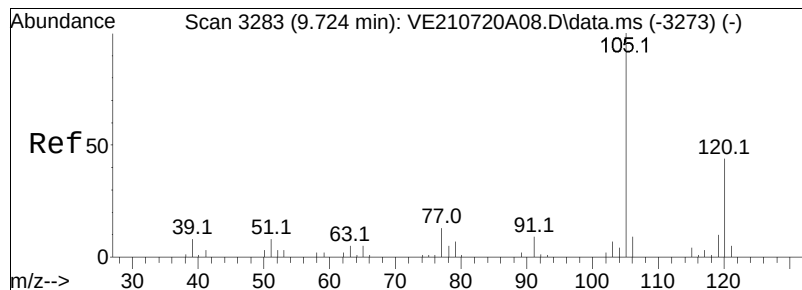




#94
 tert-Butylbenzene
 Concen: 10.25 ug/L
 RT: 9.666 min Scan# 3262
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

Tgt	Ion:119	Resp:	145563
Ion	Ratio	Lower	Upper
119	100		
91	78.2	51.4	77.2#
134	23.5	18.3	27.5





#97

1,2,4-Trimethylbenzene

Concen: 10.33 ug/L

RT: 9.710 min Scan# 3278

Delta R.T. 0.000 min

Lab File: VE210920A26.D

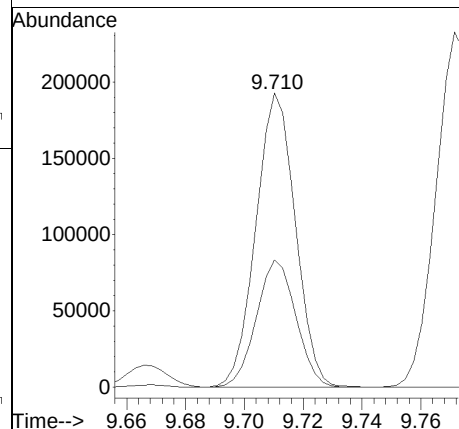
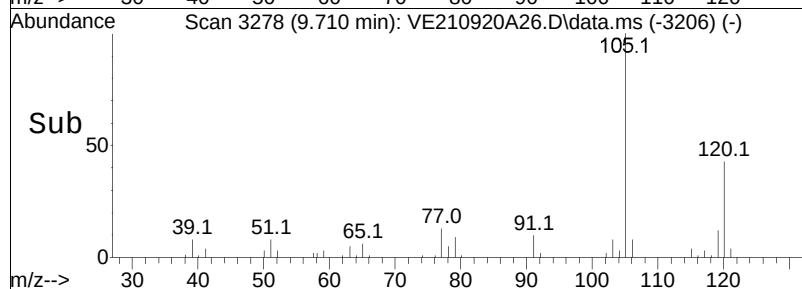
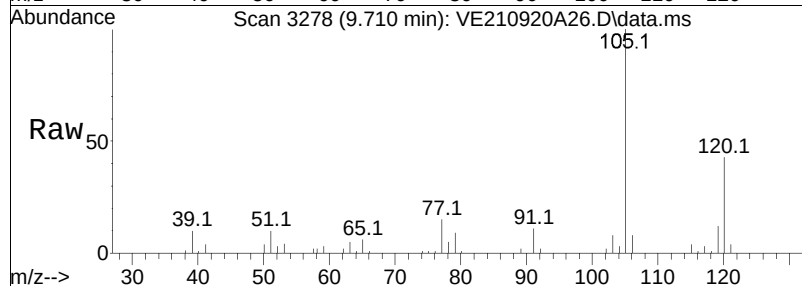
Acq: 20 Sep 2021 3:47 pm

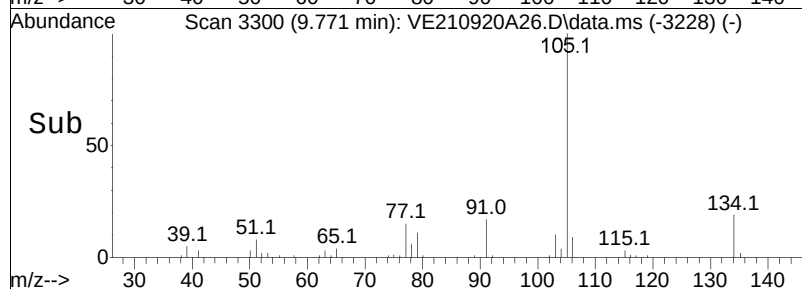
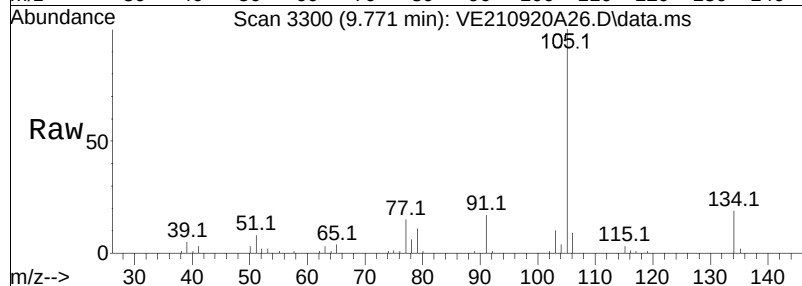
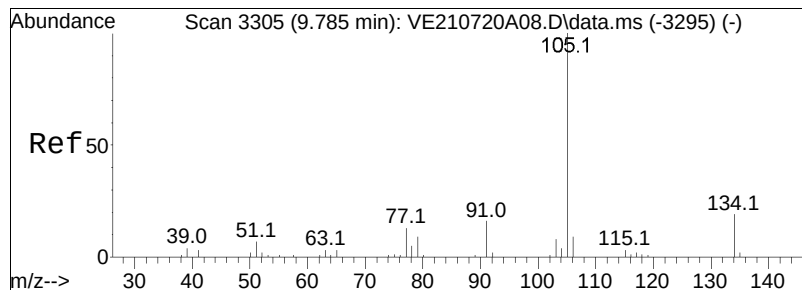
Tgt Ion:105 Resp: 179938

Ion Ratio Lower Upper

105 100

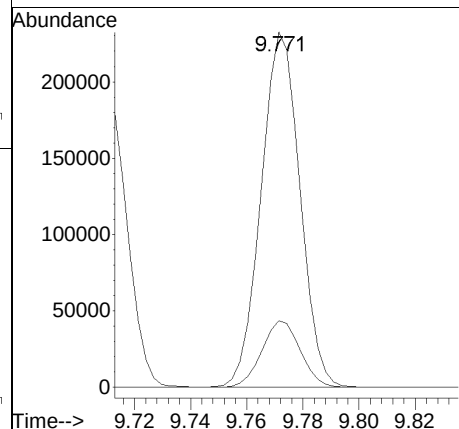
120 43.3 33.4 50.0

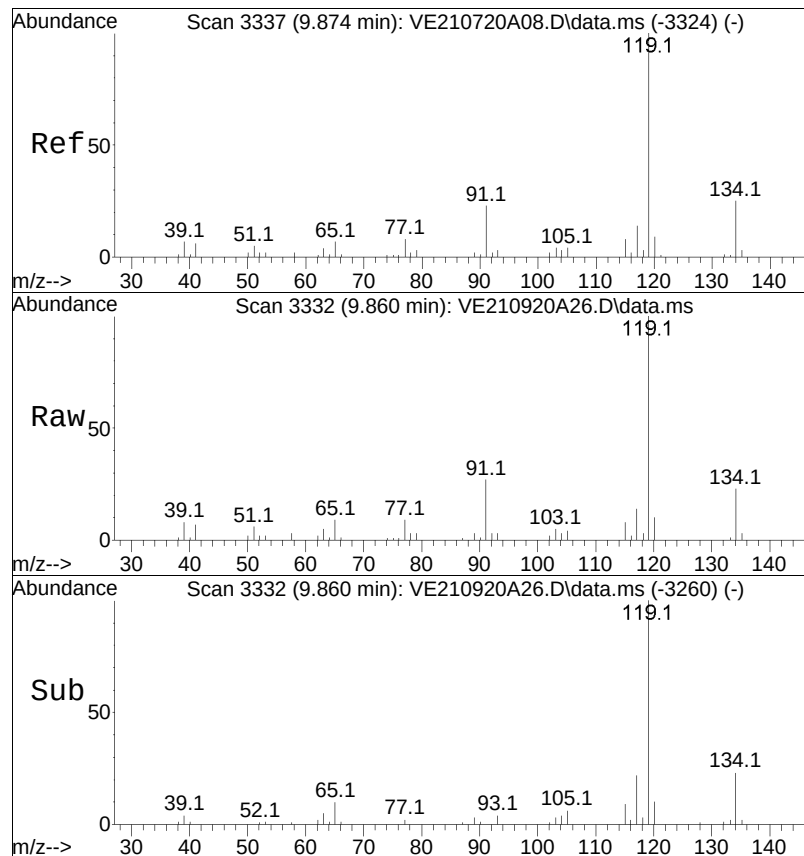




#98
 sec-Butylbenzene
 Concen: 10.37 ug/L
 RT: 9.771 min Scan# 3300
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

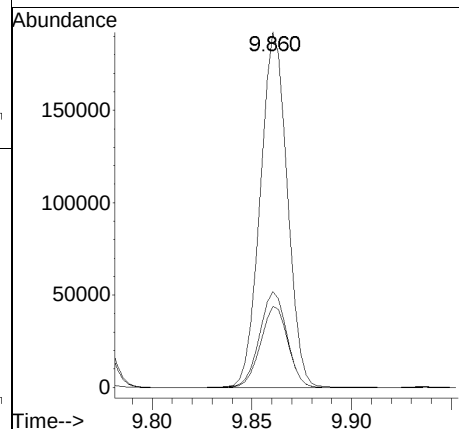
Tgt Ion	Ratio	Lower	Upper
105	100		
134	18.7	12.5	26.1

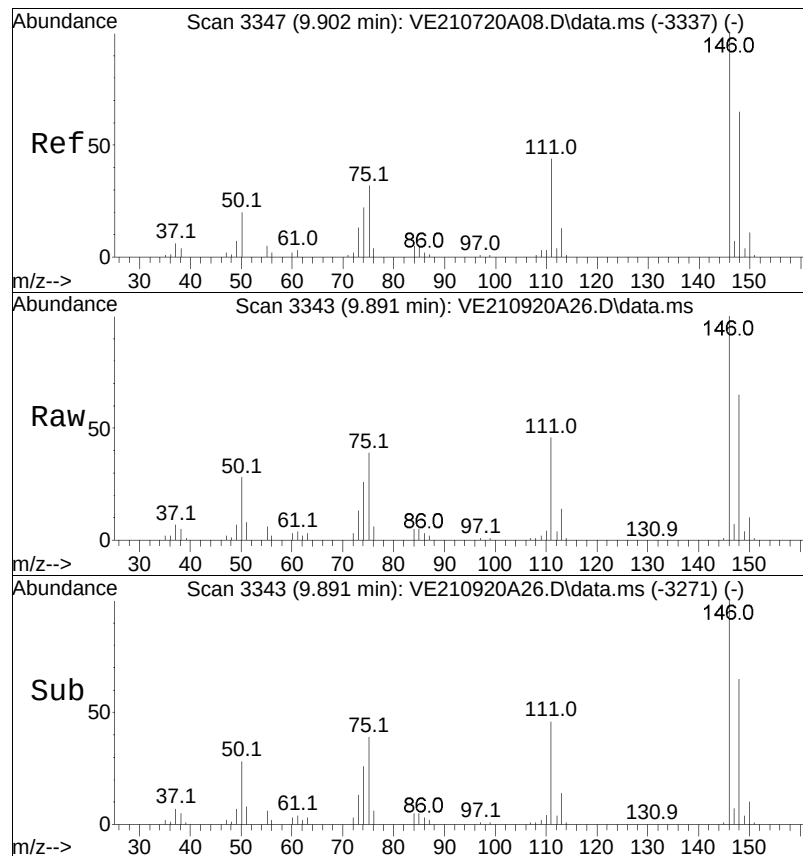




#99
 p-Isopropyltoluene
 Concen: 10.26 ug/L
 RT: 9.860 min Scan# 3332
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

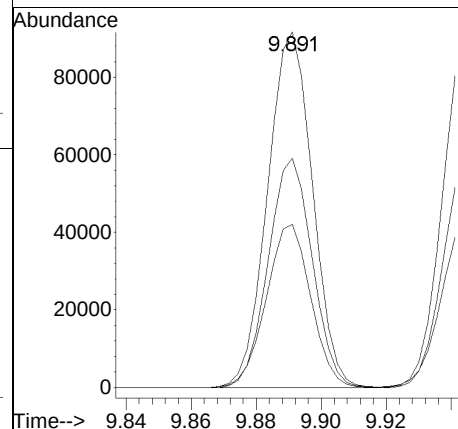
Tgt	Ion:119	Resp:	181401
Ion	Ratio	Lower	Upper
119	100		
134	23.0	16.1	33.3
91	27.1	17.3	35.9

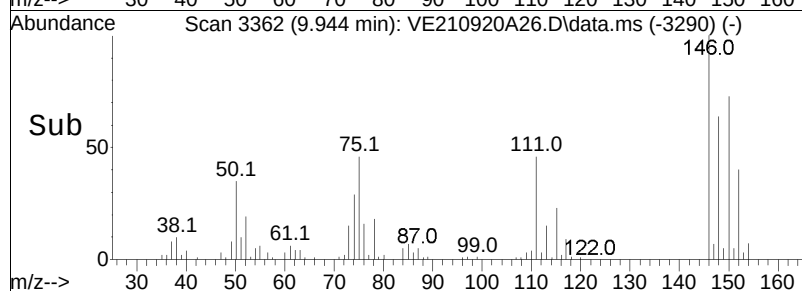
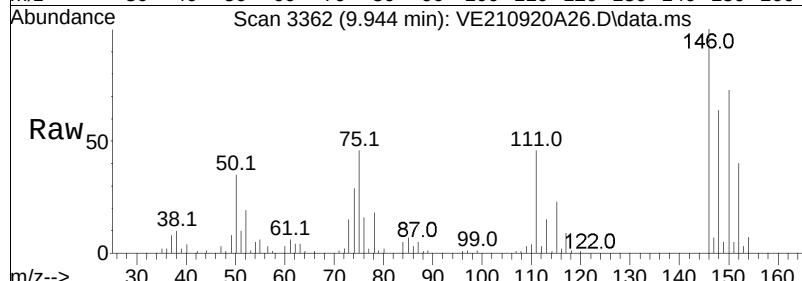
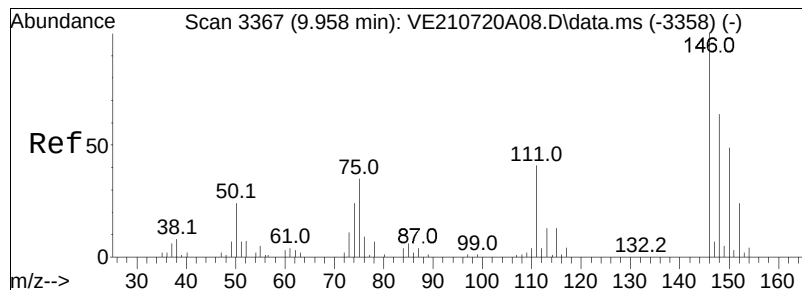




#100
 1,3-Dichlorobenzene
 Concen: 10.13 ug/L
 RT: 9.891 min Scan# 3343
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

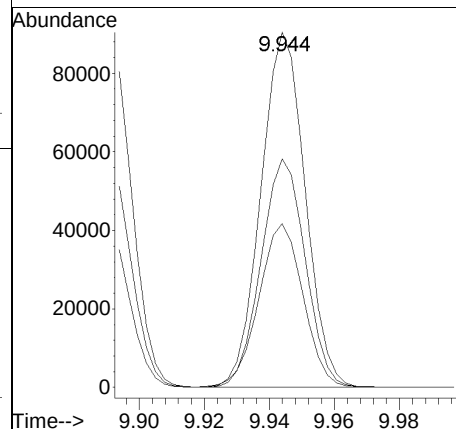
Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.6	27.5	57.1
148	63.3	41.9	86.9

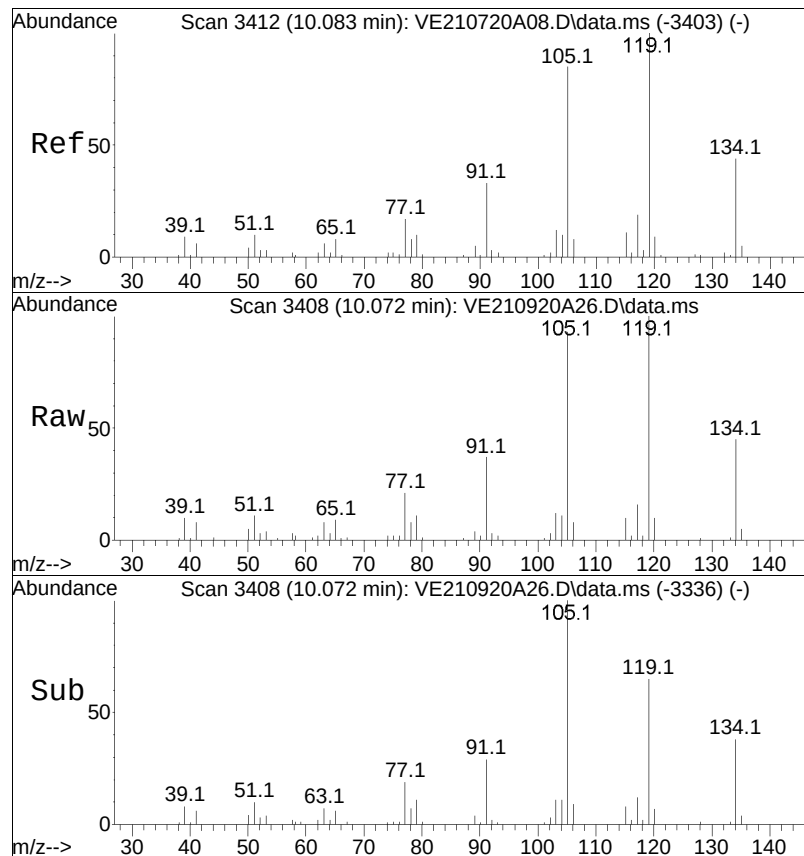




#101
 1,4-Dichlorobenzene
 Concen: 9.79 ug/L
 RT: 9.944 min Scan# 3362
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

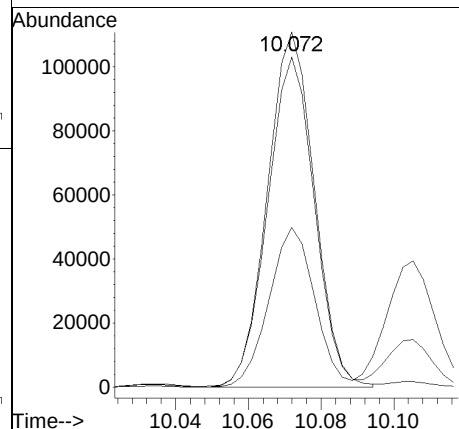
Tgt	Ion:146	Resp:	85600
Ion	Ratio	Lower	Upper
146	100		
111	46.4	32.3	48.5
148	64.4	49.9	74.9

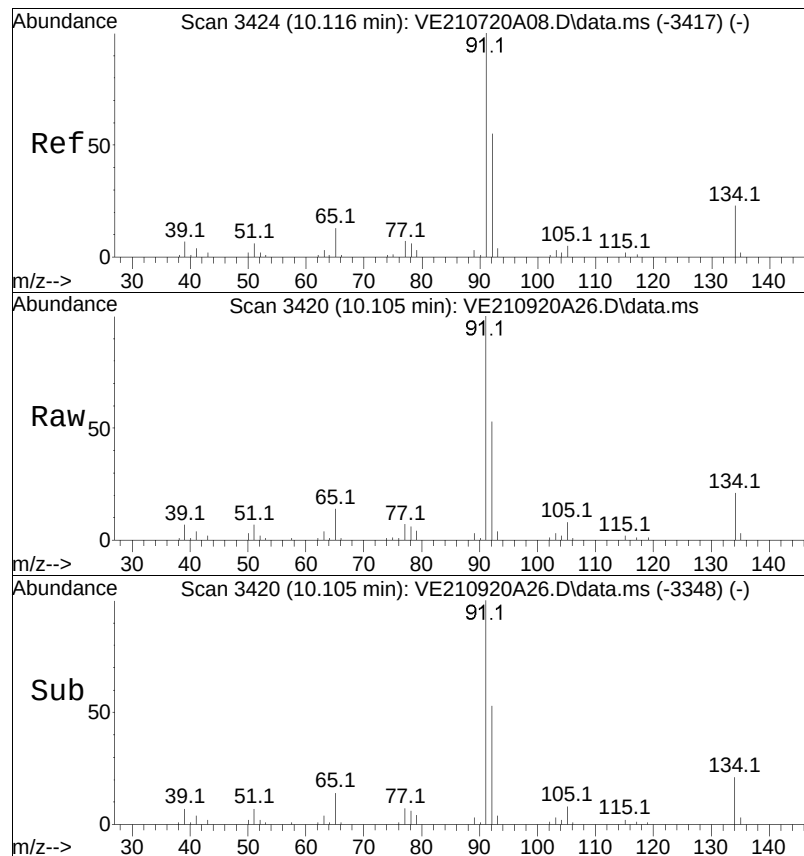




#102
 p-Diethylbenzene
 Concen: 9.78 ug/L
 RT: 10.072 min Scan# 3408
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

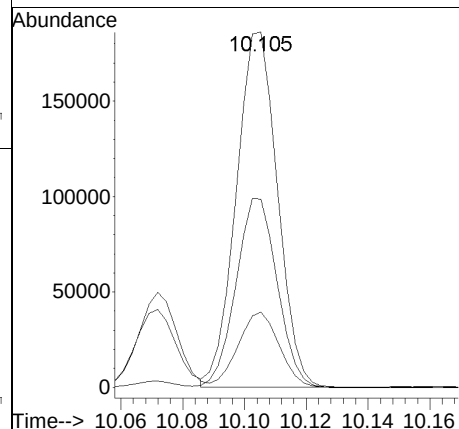
Tgt Ion:	119	Resp:	99650
Ion Ratio	Lower	Upper	
119	100		
105	92.4	59.5	123.7
134	44.0	30.2	62.6

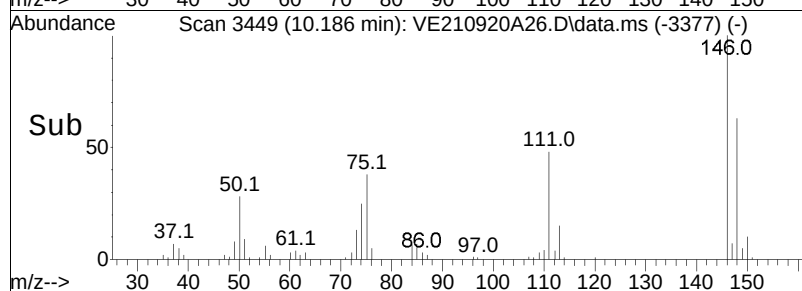
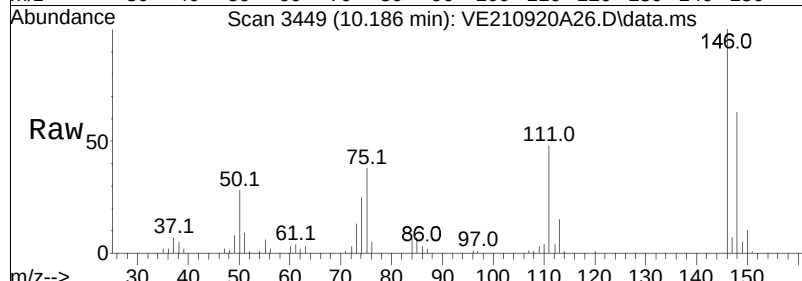
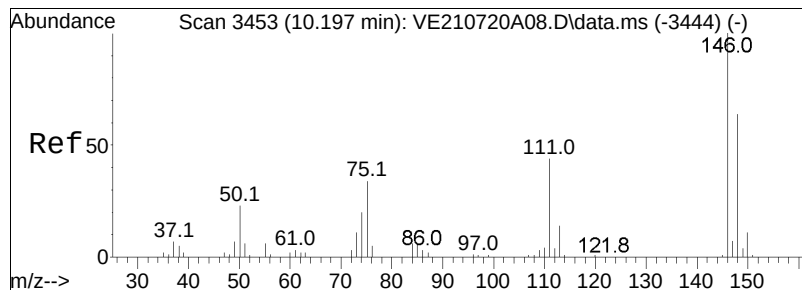




#103
 n-Butylbenzene
 Concen: 10.59 ug/L
 RT: 10.105 min Scan# 3420
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

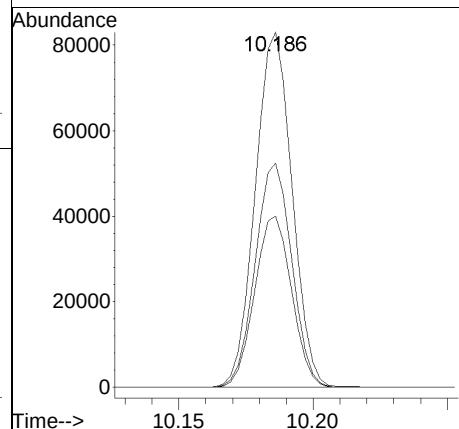
Tgt	Ion: 91	Resp:	172482
Ion	Ratio	Lower	Upper
91	100		
92	53.4	43.0	64.4
134	21.1	19.6	29.4

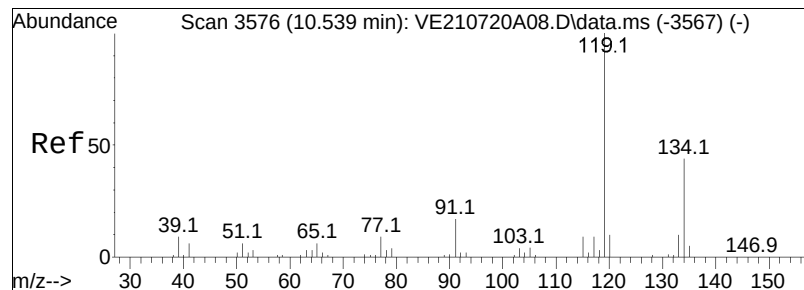




#104
 1,2-Dichlorobenzene
 Concen: 9.58 ug/L
 RT: 10.186 min Scan# 3449
 Delta R.T. -0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

Tgt Ion:	146	Resp:	79283
Ion Ratio	Lower	Upper	
146	100		
111	48.4	28.3	58.7
148	62.6	42.3	87.8





#105

1,2,4,5-Tetramethylbenzene

Concen: 9.50 ug/L

RT: 10.528 min Scan# 3572

Delta R.T. 0.000 min

Lab File: VE210920A26.D

Acq: 20 Sep 2021 3:47 pm

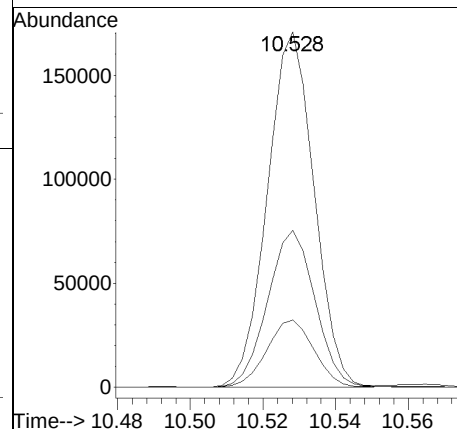
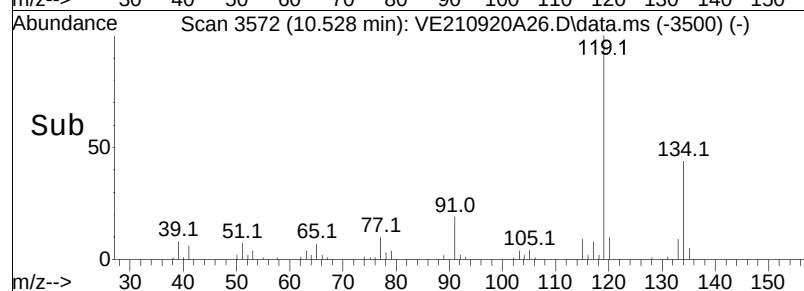
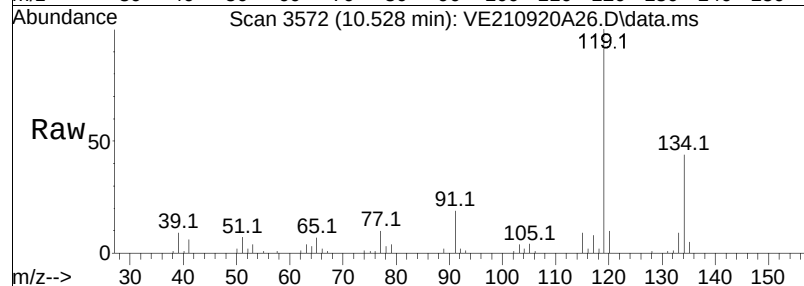
Tgt Ion: 119 Resp: 152651

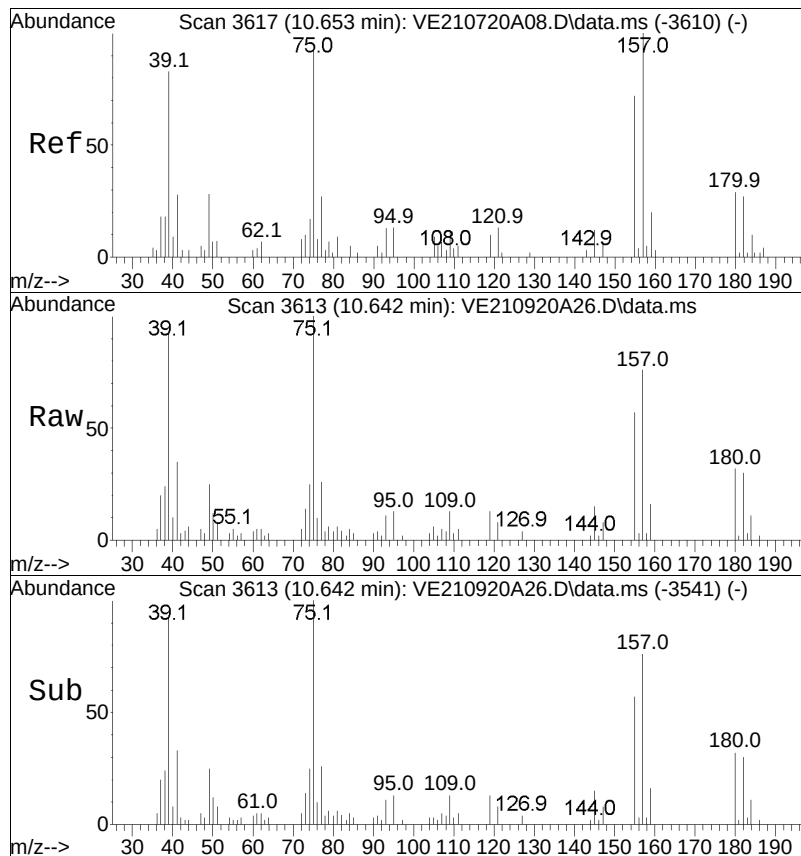
Ion Ratio Lower Upper

119 100

134 45.0 30.5 63.3

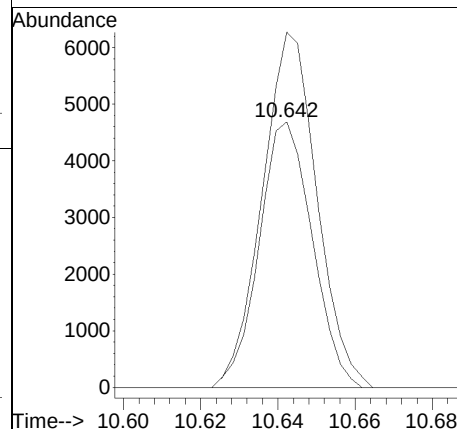
91 19.3 12.4 25.7

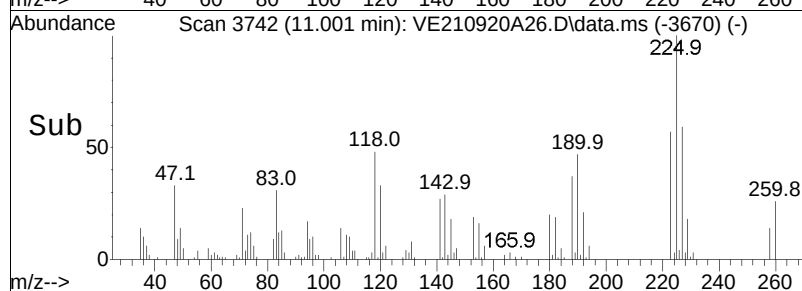
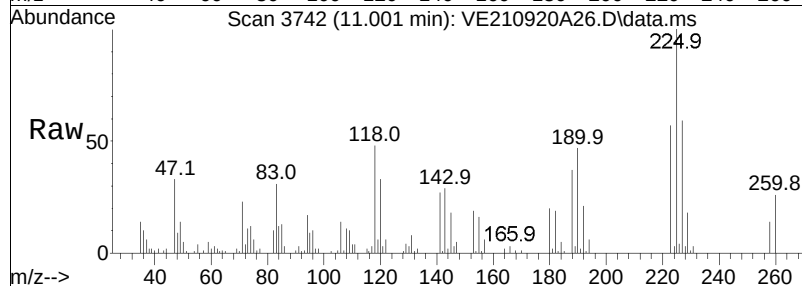
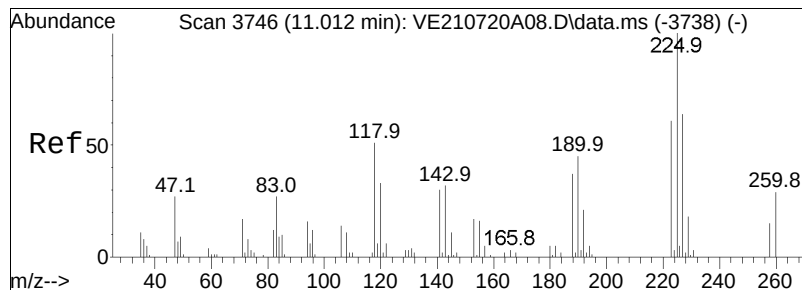




#106
 1,2-Dibromo-3-chloropropane
 Concen: 7.17 ug/L
 RT: 10.642 min Scan# 3613
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

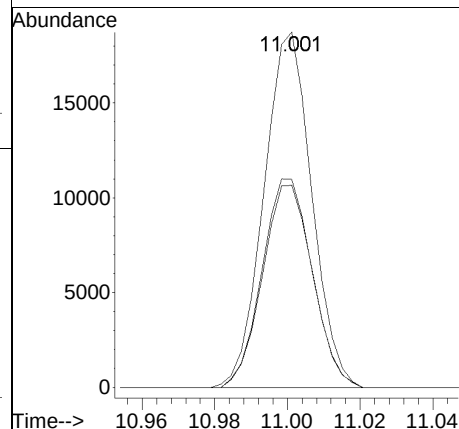
Tgt Ion	Ratio	Lower	Upper
155	100		
157	137.9	94.8	142.2

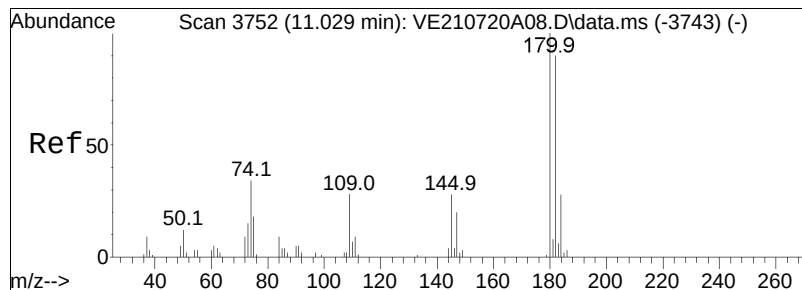




#108
 Hexachlorobutadiene
 Concen: 9.05 ug/L
 RT: 11.001 min Scan# 3742
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

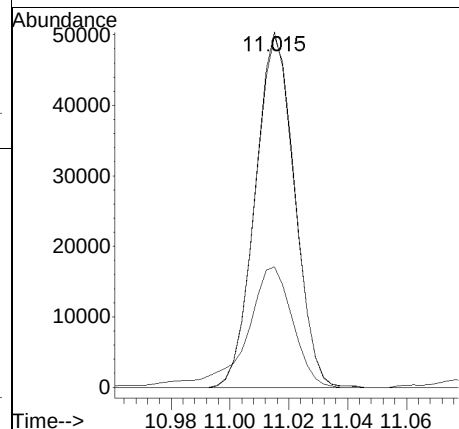
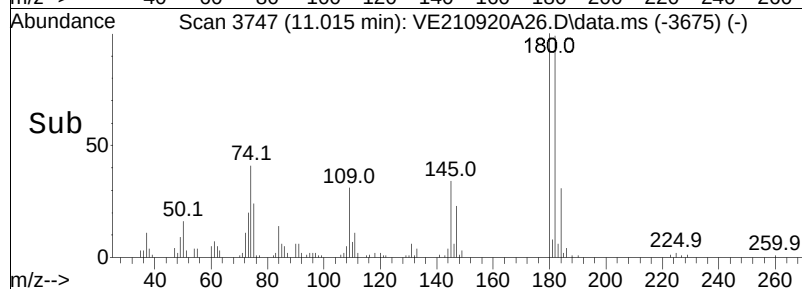
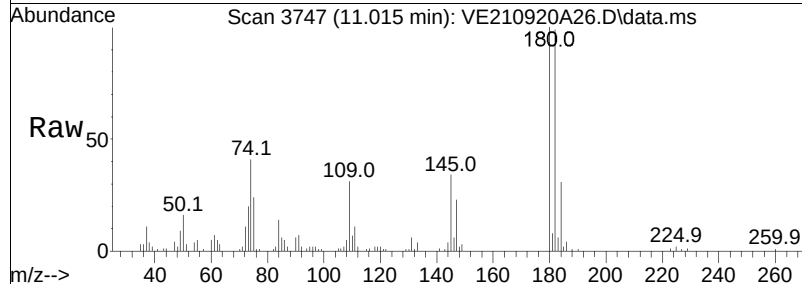
Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.7	54.3	81.5
227	61.6	52.4	78.6

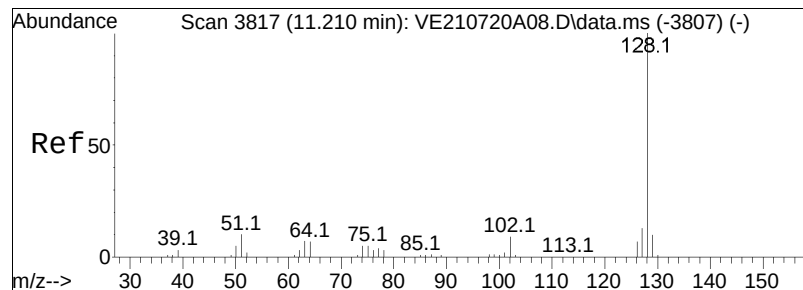




#109
 1,2,4-Trichlorobenzene
 Concen: 8.76 ug/L
 RT: 11.015 min Scan# 3747
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

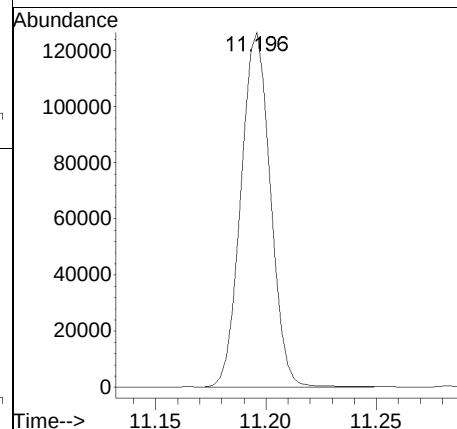
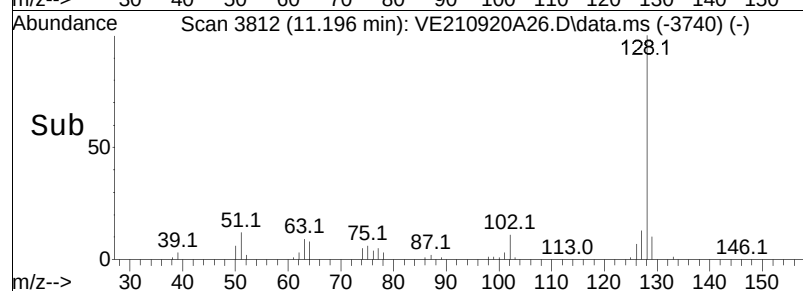
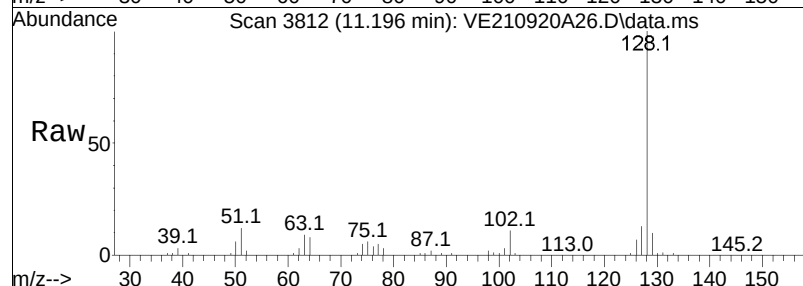
Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.8	77.3	115.9
145	40.9	28.1	42.1

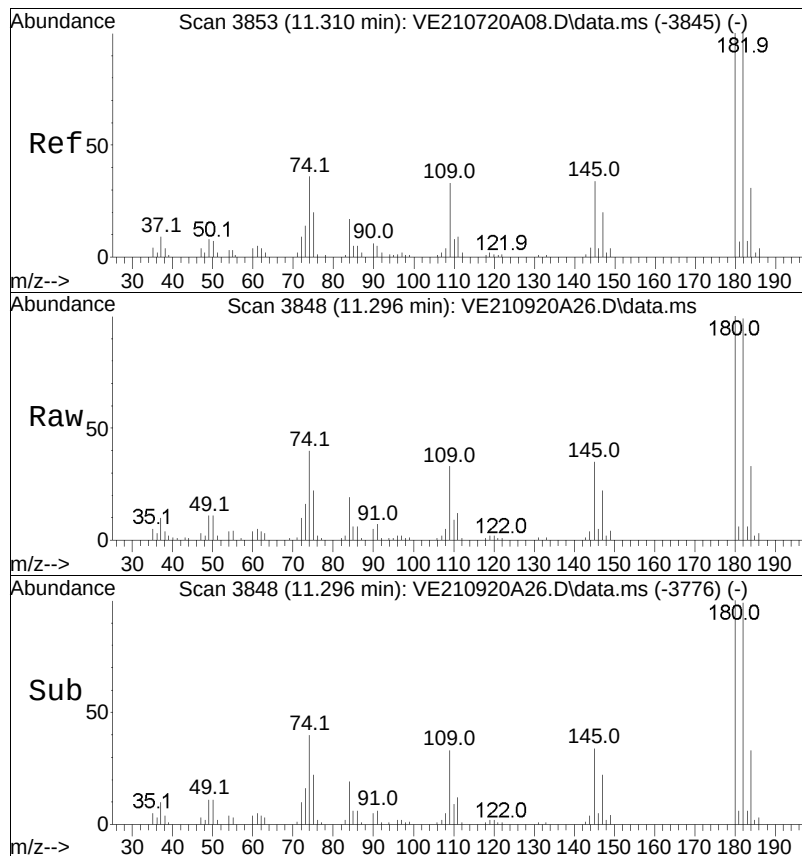




#110
Naphthalene
Concen: 8.94 ug/L
RT: 11.196 min Scan# 3812
Delta R.T. -0.000 min
Lab File: VE210920A26.D
Acq: 20 Sep 2021 3:47 pm

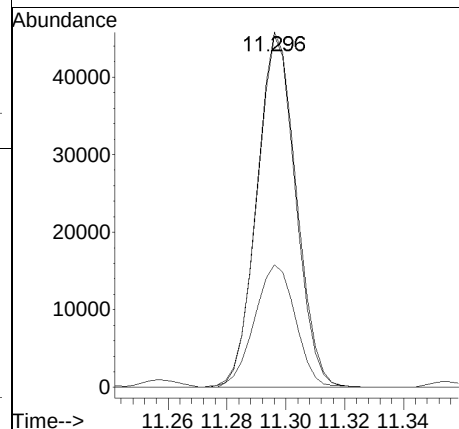
Tgt Ion:128 Resp: 117296





#111
 1,2,3-Trichlorobenzene
 Concen: 8.80 ug/L
 RT: 11.296 min Scan# 3848
 Delta R.T. 0.000 min
 Lab File: VE210920A26.D
 Acq: 20 Sep 2021 3:47 pm

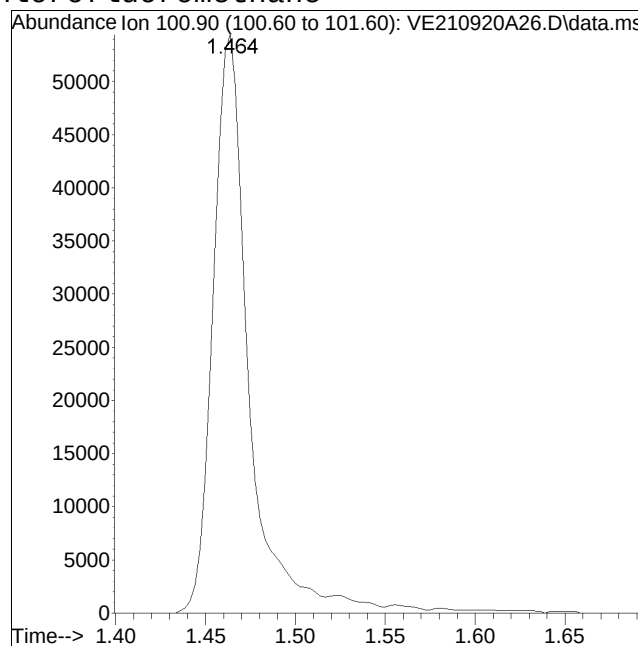
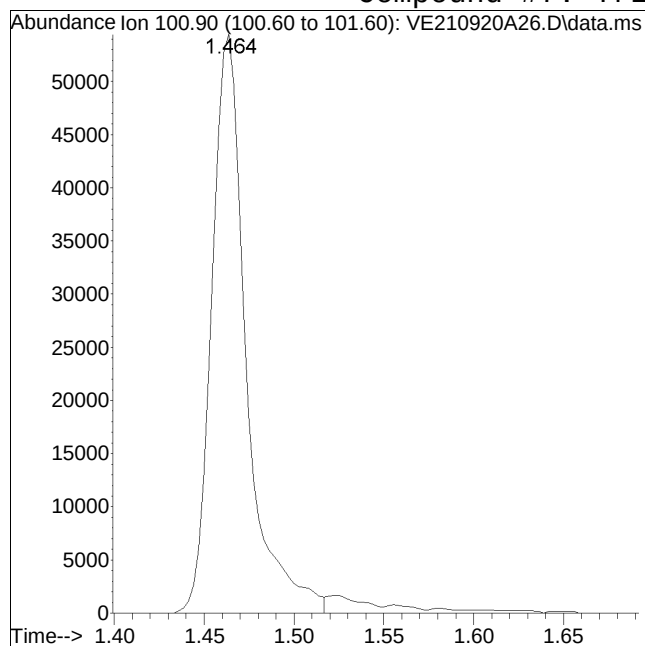
Tgt Ion:	180	Resp:	42675
Ion Ratio	Lower	Upper	
180	100		
182	96.5	76.4	114.6
145	36.1	26.4	39.6



Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A26.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 3:47 pm Instrument : Elaine
Sample : WG1548873-7,31,10,10,,A2,PQuant Date : 9/21/2021 10:49 am

Compound #7: Trichlorofluoromethane



Original Peak Response = 72891

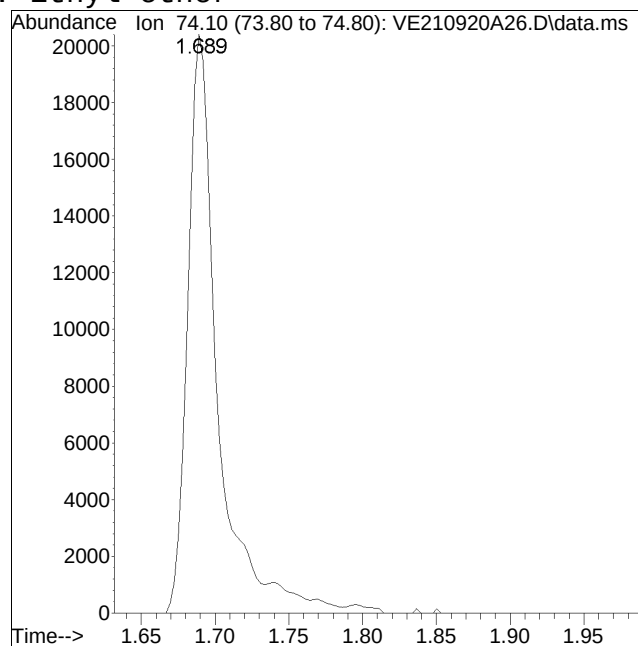
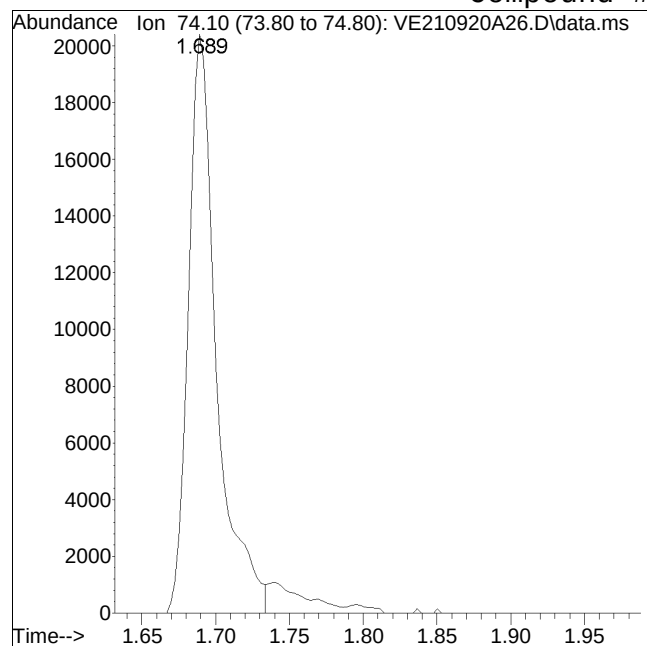
Manual Peak Response = 77266 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A26.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 3:47 pm Instrument : Elaine
Sample : WG1548873-7,31,10,10,,A2,PQuant Date : 9/21/2021 10:49 am

Compound #8: Ethyl ether



Original Peak Response = 26968

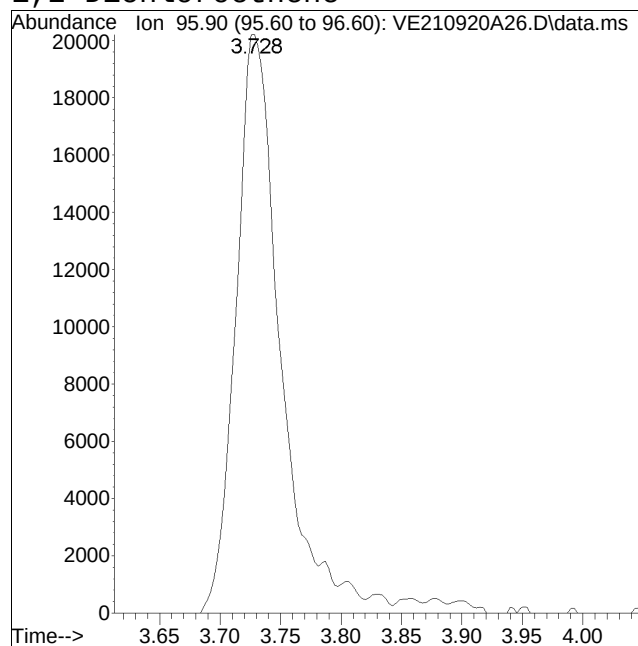
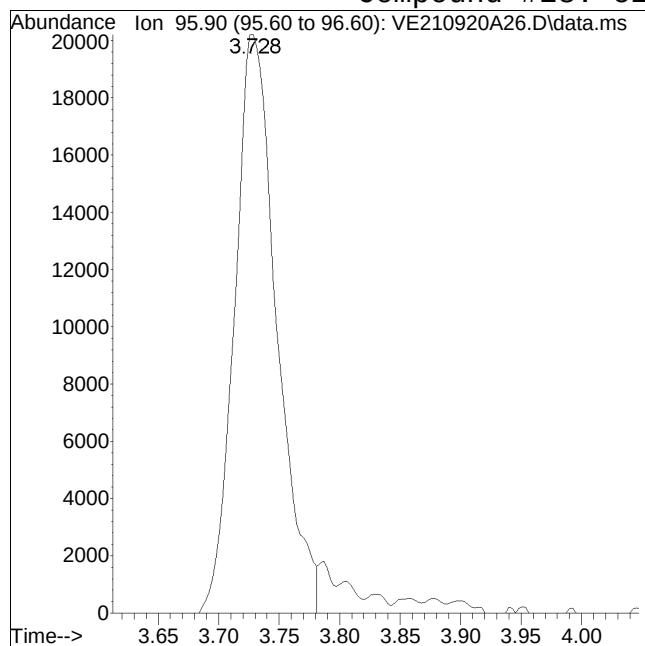
Manual Peak Response = 29245 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A26.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 3:47 pm Instrument : Elaine
Sample : WG1548873-7,31,10,10,,A2,PQuant Date : 9/21/2021 10:49 am

Compound #28: cis-1,2-Dichloroethene



Original Peak Response = 48915

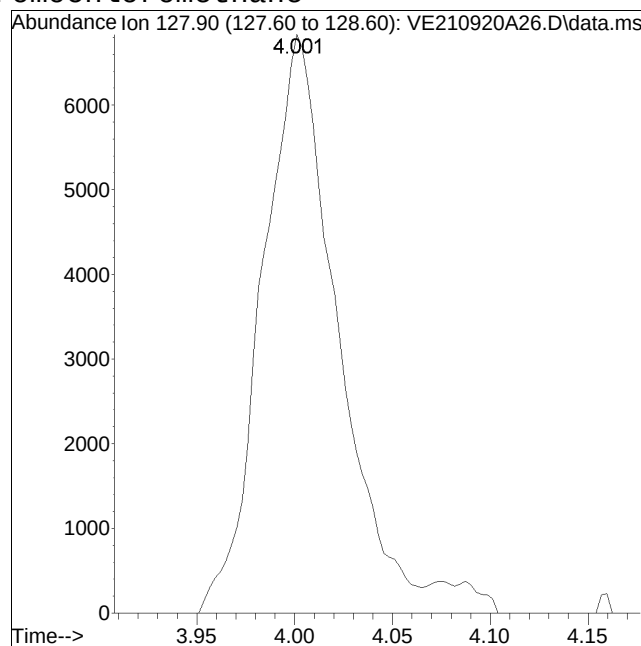
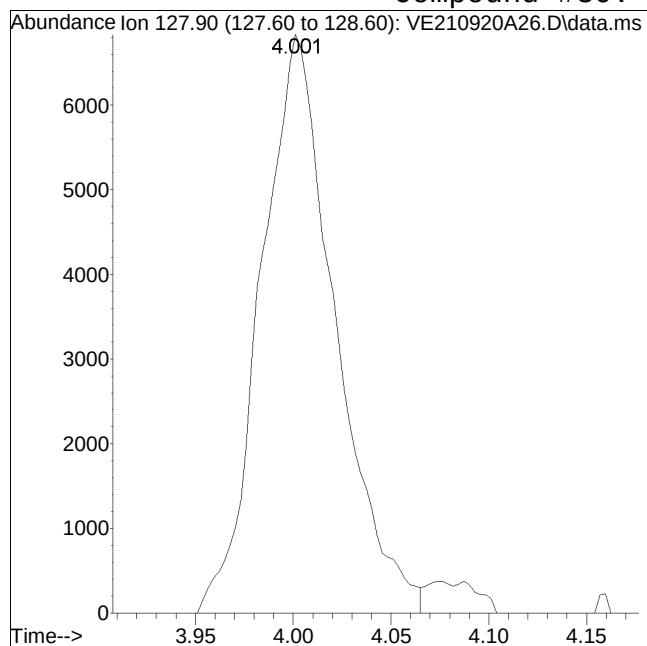
Manual Peak Response = 54051 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A26.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 3:47 pm Instrument : Elaine
Sample : WG1548873-7,31,10,10,,A2,PQuant Date : 9/21/2021 10:49 am

Compound #30: Bromochloromethane



Original Peak Response = 17997

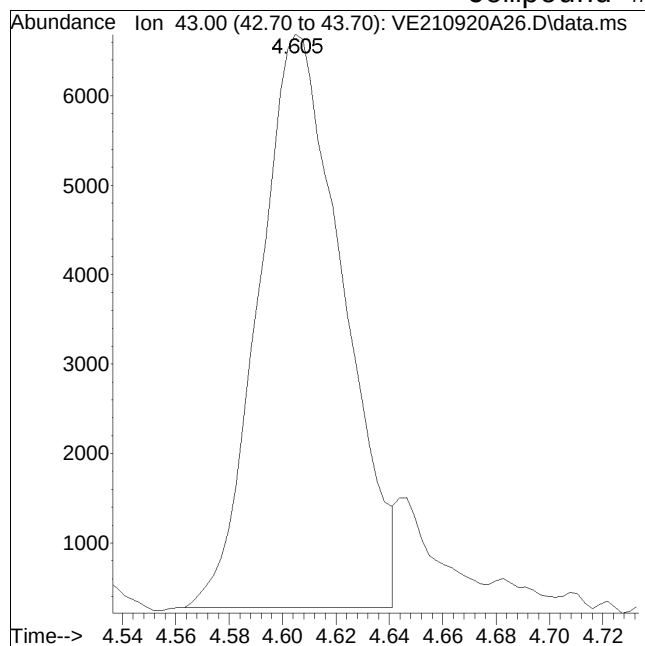
Manual Peak Response = 18664 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

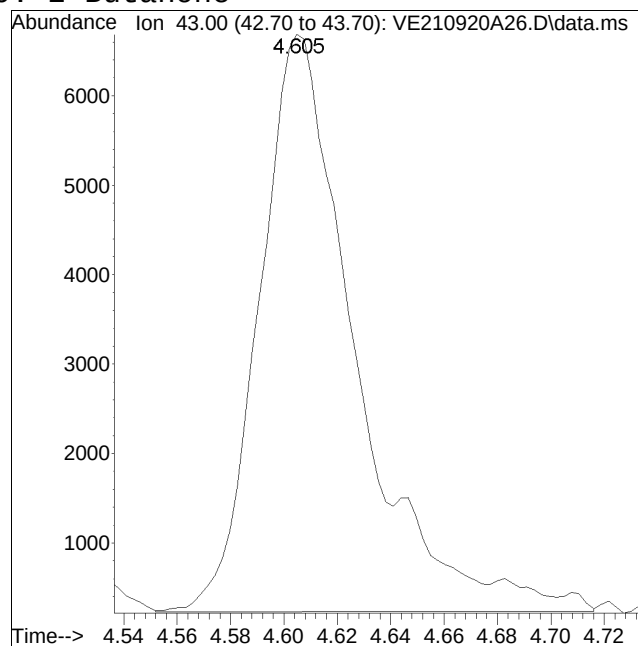
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A26.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 3:47 pm Instrument : Elaine
Sample : WG1548873-7,31,10,10,,A2,PQuant Date : 9/21/2021 10:49 am

Compound #39: 2-Butanone



Original Peak Response = 14055

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

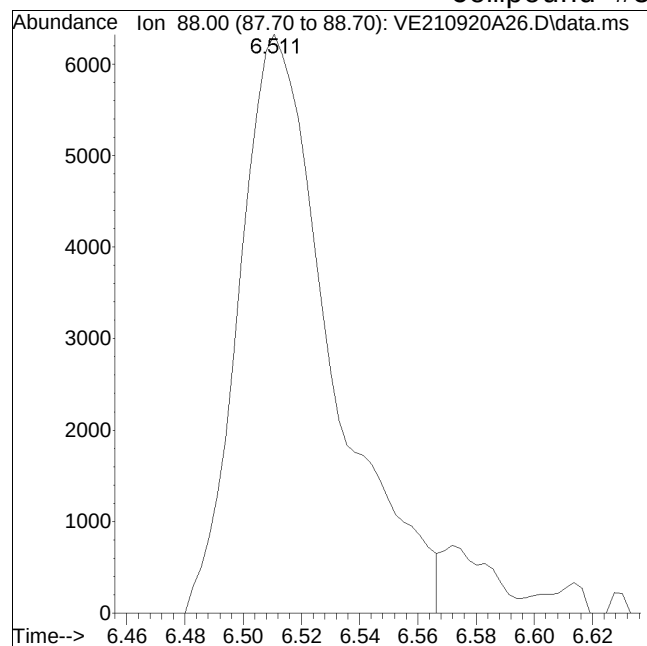


Manual Peak Response = 16175 M1

Manual Integration Report

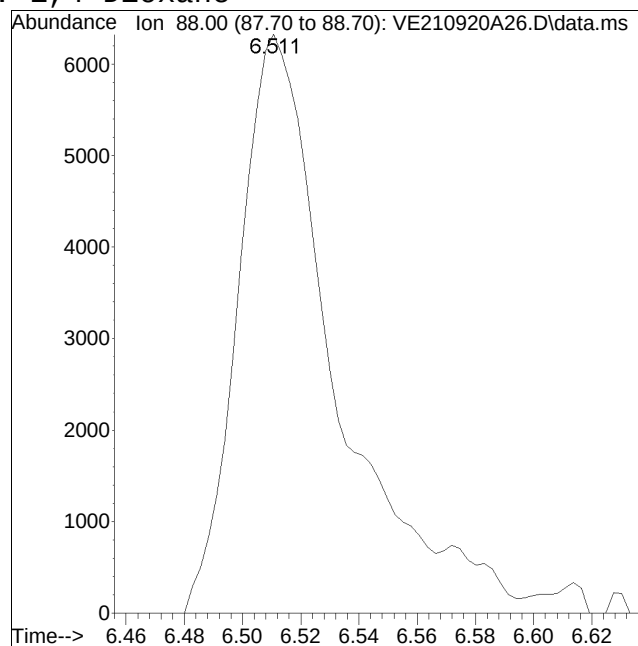
Data Path : I:\VOLATILES\Elaine\2021\20Method : Elaine_210909A_8260.m
Data File : VE210920A26.D Operator : ELAINE:MKS
Date Inj'd : 9/20/2021 3:47 pm Instrument : Elaine
Sample : WG1548873-7,31,10,10,,A2,PQuant Date : 9/21/2021 10:49 am

Compound #57: 1,4-Dioxane



Original Peak Response = 13921

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 15058 M1



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * (1/\text{Vo})$

Where:

DF = Dilution Factor

Vo = Sample Volume Purged (mL)

Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: $\text{Amt} * \text{DF} * (1/\text{Wt})$

Where:

DF = Dilution Factor

Wt = Weight of Sample (g)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 21 2021, 01:44 pm

Work Group: WG1548873 for Department: 31 GC/MS - Volatiles

Created: 21-SEP-21 Due: Operator: MKS

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2150011-01	MW-D	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150011-02	TRC-MW-F	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150011-03	DUP-GW-091621	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150011-04	MW-E	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150011-05	FIELD BLANK-GW-091621	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150011-06	TRIP BLANK	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150011-07	MW-1	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150011-08	MW-C-SVE	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150033-01	MW-5D	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150033-02	PZ-5	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150033-03	MW-8S	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150033-04	MW-8D	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150033-05	PZ-6	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150033-06	MW-6D	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150033-07	EB_09162021	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150033-08	TB_09162021	S NYTCL-8260	WATER	DONE	U	0924	0922	S0	Vial-B
L2150097-01	C241173_MW18S_091621	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150097-03	C241173_MW18D_091621	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
L2150097-05	C241173_GWTB23_091621	S NYTCL-8260	WATER	DONE	U	0930	0922	S0	Vial-B
WG1548873-1	MS BFB Tune Standard	S NYTCL-8260	WATER	DONE	U				
WG1548873-2	Continuing Calibrati	S NYTCL-8260	WATER	DONE	U				
WG1548873-3	Laboratory Control S	S NYTCL-8260	WATER	DONE	U				
WG1548873-4	LCS Duplicate	S NYTCL-8260	WATER	DONE	U				
WG1548873-5	Laboratory Method Bl	S NYTCL-8260	WATER	DONE	U				
WG1548873-6	Matrix Spike	S NYTCL-8260	WATER	DONE	U				
WG1548873-7	Matrix Spike Duplica	S NYTCL-8260	WATER	DONE	U				
Comments:									
WG1548873-4	WG1548873-3								
WG1548873-6	L2150011-01								
WG1548873-7	L2150011-01								

Inst: Elaine

BFB: V8515

Method

GC: 8260_LUMIN

Initials: PD

IS/SS: V8521

Autosampler: 8260

Date: 09/09/21

ICAL: V8576,V8571,V8574B

Concentrator: -

Run: A

ICV: V8577,V8514,V8539,V8563,V8525,V8562

QC: _____ Seq: _____



Vial	DATA FILE	SAMPLE	pH<2
1	VE210909ABF1	BFB TUNE 10:54	
1	VE210909A01	BLK	
2	VE210909A02	BLK	
3	VE210909A03	I8260STD0.19PPB	
4	VE210909A04	I8260STD0.19PPB	
5	VE210909A05	I8260STD0.5PPB	
6	VE210909A06	I8260STD0.5PPB	
7	VE210909A07	I8260STD2PPB	
8	VE210909A08	I8260STD2PPB	
9	VE210909A09	I8260STD10PPB	
10	VE210909A10	I8260STD30PPB	
11	VE210909A11	I8260STD80PPB	
12	VE210909A12	I8260STD120PPB	
13	VE210909A13	I8260STD200PPB	
14	VE210909A14	BLK	
15	VE210909A15	BLK	
16	VE210909A16	BLK	
17	VE210909A17	BLK	
18	VE210909A18	C8260STD10PPB	
19	VE210909A19	C8260STD10PPB	
20	VE210909A20	BLK	
21	VE210909A21	BLK	
22	VE210909A22	BLK	
23	VE210909A23	METHOD BLK	
24	VE210909A24	I8260STD0.19PPB	
25	VE210909A25	I8260STD0.5PPB	
26	VE210909A26	I8260STD2PPB	
27	VE210909A27	BLK	

Inst: Elaine

BFB: V8515

Method

GC: 8260_LUMIN

Initials: NLK

IS/SS: V8521

Autosampler: 8260

Date: 09/20/21

ICAL: V8582,V8571,V8574B

Concentrator: -

Run: A

QC: _____ Seq: _____



Vial	DATA FILE	SAMPLE	pH<2
1	VE210920ABF1	BFB TUNE	
1	VE210920A01	8260 CCAL	
2	VE210920A02	8260 CCAL	
3	VE210920A03	8260 CCAL	
4	VE210920A04	BLK	
5	VE210920A05	METHOD BLK	
6	VE210920A06	L2150011-01,31,10,10,,A,PRI	NYTCL pH<2
7	VE210920A07	L2150011-02,31,10,10,,A,PRI	NYTCL pH<2
8	VE210920A08	L2150011-03,31,10,10,,A,PRI	NYTCL pH<2
9	VE210920A09	L2150011-04,31,10,10,,A,PRI	NYTCL pH<2
10	VE210920A10	L2150011-05,31,10,10,,A,PRI	NYTCL FB pH<2
11	VE210920A11	L2150011-06,31,10,10,,A,PRI	NYTCL TB pH<2
12	VE210920A12	L2150011-07,31,10,10,,A,PRI	NYTCL pH<2
13	VE210920A13	L2150011-08,31,10,10,,A,PRI	NYTCL pH<2
14	VE210920A14	L2150033-01,31,10,10,,A,PRI	NYTCL pH<2
15	VE210920A15	L2150033-02,31,10,10,,A,PRI	NYTCL pH<2
16	VE210920A16	L2150033-03,31,10,10,,A,PRI	NYTCL pH<2
17	VE210920A17	L2150033-04,31,10,10,,A,PRI	NYTCL pH<2
18	VE210920A18	L2150033-05,31,10,10,,A,PRI	NYTCL pH<2
19	VE210920A19	L2150033-06,31,10,10,,A,PRI	NYTCL pH<2
20	VE210920A20	L2150033-07,31,10,10,,A,PRI	NYTCL pH<2
21	VE210920A21	L2150033-08,31,10,10,,A,PRI	NYTCL TB pH<2
22	VE210920A22	L2150097-05,31,10,10,,A,PRI	NYTCL TB pH<2
23	VE210920A23	L2150097-03,31,10,10,,A,PRI	NYTCL pH<2
24	VE210920A24	L2150097-01D,31,1.0,10,,A,PRI	NYTCL pH<2
25	VE210920A25	L2150011-01MS,31,10,10,,A1,PRI	NYTCL pH<2
26	VE210920A26	L2150011-01MSD,31,10,10,,A2,PRI	NYTCL pH<2



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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2150027

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Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2150027
Report Date: 09/22/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2150027-01	VE-2	SOIL_VAPOR	YONKERS, NY	09/16/21 11:42	09/16/21
L2150027-02	VE-2-IA	AIR	YONKERS, NY	09/16/21 11:46	09/16/21
L2150027-03	DUP-091621	AIR	YONKERS, NY	09/16/21 11:47	09/16/21
L2150027-04	VE-1	SOIL_VAPOR	YONKERS, NY	09/16/21 12:07	09/16/21
L2150027-05	VE-1-IA	AIR	YONKERS, NY	09/16/21 13:02	09/16/21

Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2150027
Report Date: 09/22/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2150027
Report Date: 09/22/21

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on September 14, 2021. The canister certification results are provided as an addendum.

L2150027-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2150027-02D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2150027-03D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2150027-04D: The canister vacuum measured on receipt at the laboratory was > 15 in. Hg. Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Nitrogen resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

L2150027-05D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

The WG1549026-3 LCS recovery for bromoform (134%) is above the upper 130% acceptance limit. All

Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2150027
Report Date: 09/22/21

Case Narrative (continued)

samples associated with this LCS do not have reportable amounts of this analyte.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Report Date: 09/22/21

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2150027
Report Date: 09/22/21

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.

Report Format: Data Usability Report



Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2150027
Report Date: 09/22/21

Data Qualifiers

- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- ND** - Not detected at the reporting limit (RL) for the sample.



Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)
 Purge time: 11 min

Columns (length x ID x df):
 RTX-VMS 20m x 0.18mm x 1um
 RTX-VMS 30m x 0.25mm x 1.4um
 RTX-502.2 40m x 0.18mm x 1um

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)

Column Type: Restek RTX 502.2
 Column Length: 105 Meters
 df: 3.00 um
 ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: Tekmar Velocity / EST Encon
 Autosampler: Varian Archon / EST Centurion
 Purge time: 11 min

Column Type: DB-VRX
 Column Length: 60 Meters
 df: 1.40 um
 ID: 0.25 mm
 Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

Column Type: Haysep S Column
 Column Length: 2 Meters packed
 (100/200 mesh)

Autosampler: LEAP Headspace

Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200
 Autosampler: Entech 7016CA or 7016D

Column Type: Restek RTX-1
 Column Length: 60 Meters
 df: 1.00 um
 ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.32 μ m
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.25 μ m
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1 μ L
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLP Pesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1 μ L
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Alpha Job Number : L2150027

Received : 16-SEP-2021

Reviewer : Dylan Snook

Account Name : Roux Env. Eng. & Geology, DPC

Project Number : 2546.0007Y002

Project Name : FORMER CLEAN ZONE DRY CLEANERS

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/NA			

Condition Information

- | | |
|--|-----|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between sample labels & COC? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | YES |

Volatile Organics/VPH

- | | |
|--|----|
| 1) Reagent Water Vials Frozen by Client? | NA |
|--|----|

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Sep 22 2021, 03:41 pm

Login Number: L2150027

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2546.0007Y002

Received: 16SEP21 Due Date: 23SEP21

Sample #	Client ID	Mat PR Collected
L2150027-01 VE-2		11 S0 16SEP21 11:42
T015 SIM for 7 NYS DMCs ASP-B Package Due Date: 09/23/21		
ASP-B, CAN-RENT, FLOW-RENT, T015-LL		
L2150027-02 VE-2-IA		10 S0 16SEP21 11:46
T015 SIM for 7 NYS DMCs Package Due Date: 09/23/21		
CAN-RENT, FLOW-RENT, T015-LL, T015-SIM		
L2150027-03 DUP-091621		10 S0 16SEP21 11:47
T015 SIM for 7 NYS DMCs Package Due Date: 09/23/21		
CAN-RENT, FLOW-RENT, T015-LL, T015-SIM		
L2150027-04 VE-1		11 S0 16SEP21 12:07
T015 SIM for 7 NYS DMCs Package Due Date: 09/23/21		
CAN-RENT, FLOW-RENT, T015-LL		
L2150027-05 VE-1-IA		10 S0 16SEP21 13:02
T015 SIM for 7 NYS DMCs Package Due Date: 09/23/21		
CAN-RENT, FLOW-RENT, T015-LL, T015-SIM		

AIR ANALYSIS

CHAIN OF CUSTODY _____

PAGE 1 OF 1

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ROUX
Address: 209 SHAFTER ST.
ISLANDIA, NY 11749
Phone: 631-2322600
Fax: 631-2329898
Email: RHEWKE@ROUXINC.COM

☒ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: **FORMER CLEAN ZONE
DRY CLEANERS**

Project Location: **YONKERS, NY**

Project #: **2546-0007Y002**

Project Manager: **RACHEL HENKE**

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: _____ Time: _____

Date Rec'd in Lab: 9/17/21

Report Information - Data Deliverables

☐ FAX
☐ ADEx

Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)

Other Formats: _____

☒ EMAIL (standard pdf report)
☒ Additional Deliverables:
CAT B DELIVERABLES

Report to: (if different than Project Manager)

ALPHA Job #: L2150027

Billing Information

 Same as Client info	PO #:
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Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm
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ANALYSIS

TO-15
 TO-15 SIM
 APH Subtract Non-petroleum HC's ☐
 Fixed Gases
 Sulfides & Mercaptans by TO-15

Sample Comments (i.e., PID)

All Columns Below Must Be Filled Out[illegible]

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

55

Relinquished By:

Date/Time

Received By:

Date/Time:

Relinquished By:	Date/Time
<i>Leung</i>	9/16/21
<i>Leung</i>	9/16/21 1410

Received By:	Date/Time:
	7/6/21 1410

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Supporting Documentation

Project Name: FORMER CLEAN ZONE DRY CLEANERS

Lab Number: L2150027

Project Number: 2546.0007Y002

Report Date: 09/22/21

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2150027-01	VE-2	01166	Flow 3	09/14/21	363878		-	-	-	Pass	18	17.9	1
L2150027-01	VE-2	389	2.7L Can	09/14/21	363878	L2148677-01	Pass	-29.6	-7.2	-	-	-	-
L2150027-02	VE-2-IA	01698	Flow 3	09/14/21	363878		-	-	-	Pass	18	17.6	2
L2150027-02	VE-2-IA	551	2.7L Can	09/14/21	363878	L2148282-05	Pass	-29.6	-6.8	-	-	-	-
L2150027-03	DUP-091621	01494	Flow 3	09/14/21	363878		-	-	-	Pass	18	18.4	2
L2150027-03	DUP-091621	2691	2.7L Can	09/14/21	363878	L2148282-02	Pass	-29.8	-6.1	-	-	-	-
L2150027-04	VE-1	0694	Flow 4	09/14/21	363878		-	-	-	Pass	18	4.7	117
L2150027-04	VE-1	2828	2.7L Can	09/14/21	363878	L2148282-02	Pass	-29.5	-18.7	-	-	-	-
L2150027-05	VE-1-IA	01389	Flow 3	09/14/21	363878		-	-	-	Pass	18	17.7	2
L2150027-05	VE-1-IA	497	2.7L Can	09/14/21	363878	L2148677-01	Pass	-29.6	-6.1	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-02
 Client ID: CAN 3432 SHELF 4
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 09/09/21 23:30
 Analyst: RY

Date Collected: 09/08/21 16:00
 Date Received: 09/09/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-02
 Client ID: CAN 3432 SHELF 4
 Sample Location:

Date Collected: 09/08/21 16:00
 Date Received: 09/09/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-02
Client ID: CAN 3432 SHELF 4
Sample Location:

Date Collected: 09/08/21 16:00
Date Received: 09/09/21
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-02
 Client ID: CAN 3432 SHELF 4
 Sample Location:

Date Collected: 09/08/21 16:00
 Date Received: 09/09/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-02 Date Collected: 09/08/21 16:00
Client ID: CAN 3432 SHELF 4 Date Received: 09/09/21
Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	80		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	82		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-02
 Client ID: CAN 3432 SHELF 4
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 09/09/21 23:30
 Analyst: RY

Date Collected: 09/08/21 16:00
 Date Received: 09/09/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-02
 Client ID: CAN 3432 SHELF 4
 Sample Location:

Date Collected: 09/08/21 16:00
 Date Received: 09/09/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-02
Client ID: CAN 3432 SHELF 4
Sample Location:

Date Collected: 09/08/21 16:00
Date Received: 09/09/21
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	80		60-140
bromochloromethane	84		60-140
chlorobenzene-d5	82		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-05
 Client ID: CAN 340 SHELF 8
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 09/10/21 01:28
 Analyst: RY

Date Collected: 09/09/21 09:00
 Date Received: 09/09/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-05
 Client ID: CAN 340 SHELF 8
 Sample Location:

Date Collected: 09/09/21 09:00
 Date Received: 09/09/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-05
 Client ID: CAN 340 SHELF 8
 Sample Location:

Date Collected: 09/09/21 09:00
 Date Received: 09/09/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-05
 Client ID: CAN 340 SHELF 8
 Sample Location:

Date Collected: 09/09/21 09:00
 Date Received: 09/09/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-05 Date Collected: 09/09/21 09:00
 Client ID: CAN 340 SHELF 8 Date Received: 09/09/21
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	80		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	82		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-05
 Client ID: CAN 340 SHELF 8
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 09/10/21 01:28
 Analyst: RY

Date Collected: 09/09/21 09:00
 Date Received: 09/09/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-05
 Client ID: CAN 340 SHELF 8
 Sample Location:

Date Collected: 09/09/21 09:00
 Date Received: 09/09/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148282
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148282-05
Client ID: CAN 340 SHELF 8
Sample Location:

Date Collected: 09/09/21 09:00
Date Received: 09/09/21
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	80		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	82		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148677
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148677-01
Client ID: CAN 178 SHELF 1
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 09/12/21 16:55
Analyst: RY

Date Collected: 09/09/21 16:00
Date Received: 09/10/21
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148677
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148677-01
 Client ID: CAN 178 SHELF 1
 Sample Location:

Date Collected: 09/09/21 16:00
 Date Received: 09/10/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148677
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148677-01
Client ID: CAN 178 SHELF 1
Sample Location:

Date Collected: 09/09/21 16:00
Date Received: 09/10/21
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148677
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148677-01
 Client ID: CAN 178 SHELF 1
 Sample Location:

Date Collected: 09/09/21 16:00
 Date Received: 09/10/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148677
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148677-01 Date Collected: 09/09/21 16:00
 Client ID: CAN 178 SHELF 1 Date Received: 09/10/21
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	94		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148677
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148677-01
 Client ID: CAN 178 SHELF 1
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 09/12/21 16:55
 Analyst: TS

Date Collected: 09/09/21 16:00
 Date Received: 09/10/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148677
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148677-01
 Client ID: CAN 178 SHELF 1
 Sample Location:

Date Collected: 09/09/21 16:00
 Date Received: 09/10/21
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2148677
Report Date: 09/22/21

Air Canister Certification Results

Lab ID: L2148677-01
Client ID: CAN 178 SHELF 1
Sample Location:

Date Collected: 09/09/21 16:00
Date Received: 09/10/21
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.051	0.050	--	0.267	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	97		60-140



Organics

Volatile Organics in Air TO-15 Low Level

Volatiles QC Summary

Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2150027
 Project Name : FORMER CLEAN ZONE DRY CLEANERS Project Number : 2546.0007Y002
 Matrix : AIR
 LCS Sample ID : WG1549026-3 Analysis Date : 09/21/21 12:25 File ID : r1528475
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Propylene	10	9.05	90				-	70-130	-
Dichlorodifluoromethane	10	11.2	112				-	70-130	-
Chloromethane	10	10.4	104				-	70-130	-
Freon-114	10	11.2	112				-	70-130	-
Vinyl chloride	10	8.63	86				-	70-130	-
1,3-Butadiene	10	10.0	100				-	70-130	-
Bromomethane	10	9.81	98				-	70-130	-
Chloroethane	10	8.90	89				-	70-130	-
Ethanol	50	43.5	87				-	40-160	-
Vinyl bromide	10	10.1	101				-	70-130	-
Acetone	50	44.0	88				-	40-160	-
Trichlorofluoromethane	10	10.7	107				-	70-130	-
Isopropanol	25	21.7	87				-	40-160	-
1,1-Dichloroethene	10	9.30	93				-	70-130	-
Tertiary butyl Alcohol	10	8.33	83				-	70-130	-
Methylene chloride	10	10.7	107				-	70-130	-
3-Chloropropene	10	8.42	84				-	70-130	-
Carbon disulfide	10	11.8	118				-	70-130	-
Freon-113	10	11.8	118				-	70-130	-
trans-1,2-Dichloroethene	10	8.77	88				-	70-130	-
1,1-Dichloroethane	10	9.31	93				-	70-130	-
Methyl tert butyl ether	10	10.3	103				-	70-130	-
Vinyl acetate	10	8.84	88				-	70-130	-
2-Butanone	10	9.44	94				-	70-130	-
cis-1,2-Dichloroethene	10	9.41	94				-	70-130	-
Ethyl Acetate	10	9.23	92				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2150027
 Project Name : FORMER CLEAN ZONE DRY CLEANERS Project Number : 2546.0007Y002
 Matrix : AIR
 LCS Sample ID : WG1549026-3 Analysis Date : 09/21/21 12:25 File ID : r1528475
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Chloroform	10	10.7	107				-	70-130	-
Tetrahydrofuran	10	8.92	89				-	70-130	-
1,2-Dichloroethane	10	9.46	95				-	70-130	-
n-Hexane	10	8.06	81				-	70-130	-
1,1,1-Trichloroethane	10	9.83	98				-	70-130	-
Benzene	10	8.97	90				-	70-130	-
Carbon tetrachloride	10	10.9	109				-	70-130	-
Cyclohexane	10	8.19	82				-	70-130	-
1,2-Dichloropropane	10	8.50	85				-	70-130	-
Bromodichloromethane	10	9.70	97				-	70-130	-
1,4-Dioxane	10	8.88	89				-	70-130	-
Trichloroethene	10	9.23	92				-	70-130	-
2,2,4-Trimethylpentane	10	8.25	82				-	70-130	-
Heptane	10	8.63	86				-	70-130	-
cis-1,3-Dichloropropene	10	10.4	104				-	70-130	-
4-Methyl-2-pentanone	10	9.02	90				-	70-130	-
trans-1,3-Dichloropropene	10	8.92	89				-	70-130	-
1,1,2-Trichloroethane	10	9.71	97				-	70-130	-
Toluene	10	10.2	102				-	70-130	-
2-Hexanone	10	10.4	104				-	70-130	-
Dibromochloromethane	10	12.5	125				-	70-130	-
1,2-Dibromoethane	10	12.3	123				-	70-130	-
Tetrachloroethene	10	11.8	118				-	70-130	-
Chlorobenzene	10	11.7	117				-	70-130	-
Ethylbenzene	10	10.8	108				-	70-130	-
p/m-Xylene	20	22.0	110				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2150027
 Project Name : FORMER CLEAN ZONE DRY CLEANERS Project Number : 2546.0007Y002
 Matrix : AIR
 LCS Sample ID : WG1549026-3 Analysis Date : 09/21/21 12:25 File ID : r1528475
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Bromoform	10	13.4	134 Q				-	70-130	-
Styrene	10	12.0	120				-	70-130	-
1,1,2,2-Tetrachloroethane	10	11.0	110				-	70-130	-
o-Xylene	10	11.2	112				-	70-130	-
4-Ethyltoluene	10	11.7	117				-	70-130	-
1,3,5-Trimethylbenzene	10	11.8	118				-	70-130	-
1,2,4-Trimethylbenzene	10	12.7	127				-	70-130	-
Benzyl chloride	10	10.3	103				-	70-130	-
1,3-Dichlorobenzene	10	12.7	127				-	70-130	-
1,4-Dichlorobenzene	10	12.8	128				-	70-130	-
1,2-Dichlorobenzene	10	12.8	128				-	70-130	-
1,2,4-Trichlorobenzene	10	9.87	99				-	70-130	-
Hexachlorobutadiene	10	8.66	87				-	70-130	-

Method Blank Summary

Form 4

Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150027
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab Sample ID	: WG1549026-4	Lab File ID	: r1528477
Instrument ID	: AIRLAB15		
Matrix	: AIR	Analysis Date	: 09/21/21 14:53

Client Sample No.	Lab Sample ID	Analysis Date
WG1549026-3LCS	WG1549026-3	09/21/21 12:25
DUMMY 191DUP	WG1549026-5	09/21/21 21:07
VE-2-IA	L2150027-02	09/21/21 21:45
DUP-091621	L2150027-03	09/21/21 22:24
VE-1-IA	L2150027-05	09/21/21 23:03
VE-2	L2150027-01D	09/21/21 23:41
VE-1	L2150027-04D	09/22/21 00:19
VE-2-IA	L2150027-02D	09/22/21 07:54
DUP-091621	L2150027-03D	09/22/21 08:30
VE-1-IA	L2150027-05D	09/22/21 09:06

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150027
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Analysis Date	: 09/02/21 19:00
Tune Standard	: WG1542862-1	Tune File ID	: r1528218_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	14.6
75	30.0 - 66.0% of mass 95	34.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (.5)1
174	50.0 - 120.0% of mass 95	66.9
175	4.0 - 9.0% of mass 174	4.6 (6.8)1
176	93.0 - 101% of mass 174	63.7 (95.2)1
177	5.0 - 9.0% of mass 176	4.2 (6.6)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1475050-1	R1528222	09/02/21 21:27
STD0.5	R1475050-2	R1528223	09/02/21 22:06
STD1.0	R1475050-3	R1528224	09/02/21 22:47
STD5.0	R1475050-4	R1528225	09/02/21 23:26
STD010	R1475050-5	R1528226	09/03/21 00:07
STD020	R1475050-6	R1528227	09/03/21 00:44
STD050	R1475050-7	R1528228	09/03/21 01:23
STD100	R1475050-8	R1528229	09/03/21 02:04
ICV QUANT	R1475050-9	R1528234	09/03/21 11:13

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150027
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Analysis Date	: 09/21/21 10:24
Tune Standard	: WG1549026-1	Tune File ID	: r1528472_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	13.6
75	30.0 - 66.0% of mass 95	36.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (.5)1
174	50.0 - 120.0% of mass 95	72.1
175	4.0 - 9.0% of mass 174	5.2 (7.2)1
176	93.0 - 101% of mass 174	68.6 (95.2)1
177	5.0 - 9.0% of mass 176	4.5 (6.5)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1549026-2CCAL	WG1549026-2	R1528475	09/21/21 12:25
WG1549026-3LCS	WG1549026-3	R1528475	09/21/21 12:25
WG1549026-4BLANK	WG1549026-4	R1528477	09/21/21 14:53
WG1549026-5DUP	WG1549026-5	R1528485	09/21/21 21:07
VE-2-IA	L2150027-02	R1528486	09/21/21 21:45
DUP-091621	L2150027-03	R1528487	09/21/21 22:24
VE-1-IA	L2150027-05	R1528488	09/21/21 23:03
VE-2	L2150027-01D	R1528489	09/21/21 23:41
VE-1	L2150027-04D	R1528490	09/22/21 00:19
VE-2-IA	L2150027-02D	R1528496	09/22/21 07:54
DUP-091621	L2150027-03D	R1528497	09/22/21 08:30
VE-1-IA	L2150027-05D	R1528498	09/22/21 09:06

Internal Standard Area and RT Summary

Form 8a

Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150027
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Analysis Date	: 09/21/21 12:25:00
Sample No	: WG1549026-2	Lab File ID	: R1528475

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1549026-2	344610	9.63	879831	11.91	155534	16.65
Upper Limit	482454	9.96	1231763	12.24	217748	16.98
Lower Limit	206766	9.30	527899	11.58	93320	16.32
Sample ID						
WG1549026-3 LCS	344610	9.63	879831	11.91	155534	16.65
WG1549026-4 BLANK	337412	9.63	840532	11.92	152101	16.65
DUMMY 191 DUP	355621	9.63	850676	11.92	160915	16.65
VE-2-IA	371443	9.63	867098	11.91	167751	16.65
DUP-091621	381631	9.63	905283	11.92	172053	16.65
VE-1-IA	391133	9.63	943388	11.92	174882	16.66
VE-2	396292	9.63	919513	11.92	176983	16.66
VE-1	403171	9.63	907031	11.92	178107	16.66
VE-2-IA	397812	9.63	893941	11.92	175864	16.66
DUP-091621	397540	9.63	888943	11.92	176250	16.66
VE-1-IA	403239	9.63	903748	11.92	173436	16.63

Area Upper Limit = +40% of internal standard area
Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT
RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits





Date Created: 02/01/21
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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.2	0.0501	ppbV	70-130			25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.0614	ppbV	70-130			25	25			
1,1,2-Trichloroethane	79-00-5	0.2	0.067	ppbV	70-130			25	25			
1,1-Dichloroethane	75-34-3	0.2	0.0628	ppbV	70-130			25	25			
1,1-Dichloroethene	75-35-4	0.2	0.0643	ppbV	70-130			25	25			
1,2,3-Trimethylbenzene	526-73-8	0.2	0.0576	ppbV	70-130			25	25			
1,2,4-Trichlorobenzene	120-82-1	0.2	0.0674	ppbV	70-130			25	25			
1,2,4-Trimethylbenzene	95-63-6	0.2	0.0368	ppbV	70-130			25	25			
1,2,4,5-Tetramethylbenzene	95-93-2	0.2	0.0604	ppbV	70-130			25	25			
1,2-Dibromoethane	106-93-4	0.2	0.0561	ppbV	70-130			25	25			
1,2-Dichlorobenzene	95-50-1	0.2	0.0628	ppbV	70-130			25	25			
1,2-Dichloroethane	107-06-2	0.2	0.0602	ppbV	70-130			25	25			
1,2-Dichloropropane	78-87-5	0.2	0.061	ppbV	70-130			25	25			
1,3,5-Trimethylbenzene	108-67-8	0.2	0.0675	ppbV	70-130			25	25			
1,3-Butadiene	106-99-0	0.2	0.067	ppbV	70-130			25	25			
1,3-Dichlorobenzene	541-73-1	0.2	0.0627	ppbV	70-130			25	25			
1,4-Dichlorobenzene	106-46-7	0.2	0.0636	ppbV	70-130			25	25			
1,4-Dioxane	123-91-1	0.2	0.0805	ppbV	70-130			25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.0361	ppbV	70-130			25	25			
2-Butanone	78-93-3	0.5	0.0482	ppbV	70-130			25	25			
2-Hexanone	591-78-6	0.2	0.0648	ppbV	70-130			25	25			
2-Methylthiophene	554-14-3	0.2	0.0524	ppbV	70-130			25	25			
3-Methylthiophene	616-44-4	0.2	0.0393	ppbV	70-130			25	25			
3-Chloropropene	107-05-1	0.2	0.0585	ppbV	70-130			25	25			
2-Ethylthiophene	872-55-9	0.2	0.0407	ppbV	70-130			25	25			
4-Ethyltoluene	622-96-8	0.2	0.037	ppbV	70-130			25	25			
Acetone	67-64-1	1	0.689	ppbV	40-160			25	25			
Benzene	71-43-2	0.2	0.0487	ppbV	70-130			25	25			
Benzyl chloride	100-44-7	0.2	0.0482	ppbV	70-130			25	25			
Benzothiophene	95-15-8	0.5	0.077	ppbV	70-130			25	25			
Bromodichloromethane	75-27-4	0.2	0.0504	ppbV	70-130			25	25			
Bromoform	75-25-2	0.2	0.0641	ppbV	70-130			25	25			
Bromomethane	74-83-9	0.2	0.0773	ppbV	70-130			25	25			
Carbon disulfide	75-15-0	0.2	0.0559	ppbV	70-130			25	25			
Carbon tetrachloride	56-23-5	0.2	0.0499	ppbV	70-130			25	25			
Chlorobenzene	108-90-7	0.2	0.0624	ppbV	70-130			25	25			
Chloroethane	75-00-3	0.2	0.0805	ppbV	70-130			25	25			
Chloroform	67-66-3	0.2	0.0633	ppbV	70-130			25	25			
Chloromethane	74-87-3	0.2	0.0689	ppbV	70-130			25	25			
cis-1,2-Dichloroethene	156-59-2	0.2	0.117	ppbV	70-130			25	25			
cis-1,3-Dichloropropene	10061-01-5	0.2	0.0409	ppbV	70-130			25	25			
Cyclohexane	110-82-7	0.2	0.0368	ppbV	70-130			25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Date Created: 02/01/21
Created By: Jason Hebert
File: PM10116-1
Page: 2

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibromochloromethane	124-48-1	0.2	0.0614	ppbV	70-130			25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0583	ppbV	70-130			25	25			
Diethyl carbonate	105-58-8	20	20	ppbV	70-130			25	25			
Dimethyl carbonate	616-38-6	20	20	ppbV	70-130			25	25			
Ethyl Alcohol	64-17-5	5	0.733	ppbV	40-160			25	25			
Ethyl Acetate	141-78-6	0.5	0.122	ppbV	70-130			25	25			
Ethylbenzene	100-41-4	0.2	0.0432	ppbV	70-130			25	25			
Ethyl methyl carbonate	623-53-0	20	20	ppbV	70-130			25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0656	ppbV	70-130			25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0591	ppbV	70-130			25	25			
Hexachlorobutadiene	87-68-3	0.2	0.0529	ppbV	70-130			25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.478	ppbV	40-160			25	25			
Methylene chloride	75-09-2	0.5	0.134	ppbV	70-130			25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.0421	ppbV	70-130			25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.0525	ppbV	70-130			25	25			
Methyl Methacrylate	80-62-6	0.5	0.0697	ppbV	40-160			25	25			
p/m-Xylene	179601-23-1	0.4	0.091	ppbV	70-130			25	25			
o-Xylene	95-47-6	0.2	0.0453	ppbV	70-130			25	25			
Xylene (Total)	1330-20-7	0.2	0.0453	ppbV				25	25			
Heptane	142-82-5	0.2	0.047	ppbV	70-130			25	25			
n-Heptane	142-82-5	0.2	0.047	ppbV	70-130			25	25			
n-Hexane	110-54-3	0.2	0.0364	ppbV	70-130			25	25			
Propylene	115-07-1	0.5	0.0599	ppbV	70-130			25	25			
Styrene	100-42-5	0.2	0.0434	ppbV	70-130			25	25			
Tetrachloroethene	127-18-4	0.2	0.0655	ppbV	70-130			25	25			
Thiophene	110-02-1	0.2	0.0389	ppbV	70-130			25	25			
Tetrahydrofuran	109-99-9	0.5	0.0568	ppbV	70-130			25	25			
Toluene	108-88-3	0.2	0.052	ppbV	70-130			25	25			
trans-1,2-Dichloroethene	156-60-5	0.2	0.0643	ppbV	70-130			25	25			
1,2-Dichloroethene (total)	540-59-0	0.2	0.0643	ppbV				25	25			
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0436	ppbV	70-130			25	25			
1,3-Dichloropropene, Total	542-75-6	0.2	0.0409	ppbV				25	25			
Trichloroethene	79-01-6	0.2	0.0505	ppbV	70-130			25	25			
Trichlorofluoromethane	75-69-4	0.2	0.0686	ppbV	70-130			25	25			
Vinyl acetate	108-05-4	1	0.0479	ppbV	70-130			25	25			
Vinyl bromide	593-60-2	0.2	0.0717	ppbV	70-130			25	25			
Vinyl chloride	75-01-4	0.2	0.0627	ppbV	70-130			25	25			
Naphthalene	91-20-3	0.2	0.0885	ppbV	70-130			25	25			
Total HC As Hexane	NONE	10	0.0364	ppbV	70-130			25	25			
Total VOCs As Toluene	NONE	10	0.052	ppbV	70-130			25	25			
Propane	74-98-6	0.5	0.132	ppbV	70-130			25	25			
Acrylonitrile	107-13-1	0.5	0.0555	ppbV	70-130			25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acrolein	107-02-8	0.5	0.0596	ppbV	60-113			25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0561	ppbV	70-130			25	25			
Isopropylbenzene	98-82-8	0.2	0.0491	ppbV	70-130			25	25			
1,2,3-Trichloropropane	96-18-4	0.2	0.061	ppbV	70-130			25	25			
Acetonitrile	75-05-8	0.2	0.082	ppbV	70-130			25	25			
Bromobenzene	108-86-1	0.2	0.0613	ppbV	70-130			25	25			
Chlorodifluoromethane	75-45-6	0.2	0.0584	ppbV	70-130			25	25			
Dichlorofluoromethane	75-43-4	0.2	0.0807	ppbV	70-130			25	25			
Dibromomethane	74-95-3	0.2	0.0563	ppbV	70-130			25	25			
Pentane	109-66-0	0.2	0.0659	ppbV	70-130			25	25			
Octane	111-65-9	0.2	0.0445	ppbV	70-130			25	25			
Tertiary-Amyl Methyl Ether	994-05-8	0.2	0.0476	ppbV	70-130			25	25			
o-Chlorotoluene	95-49-8	0.2	0.0486	ppbV	70-130			25	25			
p-Chlorotoluene	106-43-4	0.2	0.056	ppbV	70-130			25	25			
2,2-Dichloropropane	594-20-7	0.2	0.0458	ppbV	70-130			25	25			
1,1-Dichloropropene	563-58-6	0.2	0.0457	ppbV	70-130			25	25			
Isopropyl Ether	108-20-3	0.2	0.0621	ppbV	70-130			25	25			
Ethyl-Tert-Butyl Ether	637-92-3	0.2	0.0422	ppbV	70-130			25	25			
1,2,3-Trichlorobenzene	87-61-6	0.2	0.0715	ppbV	70-130			25	25			
Ethyl ether	60-29-7	0.2	0.0737	ppbV	70-130			25	25			
n-Butylbenzene	104-51-8	0.2	0.044	ppbV	70-130			25	25			
sec-Butylbenzene	135-98-8	0.2	0.0429	ppbV	70-130			25	25			
tert-Butylbenzene	98-06-6	0.2	0.042	ppbV	70-130			25	25			
1,2-Dibromo-3-chloropropane	96-12-8	0.2	0.0495	ppbV	70-130			25	25			
p-Isopropyltoluene	99-87-6	0.2	0.052	ppbV	70-130			25	25			
n-Propylbenzene	103-65-1	0.2	0.0419	ppbV	70-130			25	25			
1,3-Dichloropropane	142-28-9	0.2	0.106	ppbV	70-130			25	25			
Methanol	67-56-1	5	1.84	ppbV	70-130			25	25			
Acetaldehyde	75-07-0	2.5	0.444	ppbV	70-130			25	25			
Butane	106-97-8	0.2	0.0646	ppbV	70-130			25	25			
Nonane (C9)	111-84-2	0.2	0.0463	ppbV	70-130			25	25			
Decane (C10)	124-18-5	0.2	0.0404	ppbV	70-130			25	25			
Undecane	1120-21-4	0.2	0.0427	ppbV	70-130			25	25			
Indane	496-11-7	0.2	0.0507	ppbV	70-130			25	25			
Indene	95-13-6	0.2	0.0433	ppbV	70-130			25	25			
1-Methylnaphthalene	90-12-0	1	0.466	ppbV	70-130			25	25			
Dodecane (C12)	112-40-3	0.2	0.0658	ppbV	70-130			25	25			
Butyl Acetate	123-86-4	0.5	0.126	ppbV	70-130			25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.0466	ppbV	70-130			25	25			
2-Methylnaphthalene	91-57-6	1	0.393	ppbV	70-130			25	25			
1,2-Dichloroethane-d4	17060-07-0										70-130	
Toluene-d8	2037-26-5										70-130	

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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

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Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Sol/Solids only)
Please Note that the Information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-01D
 Client ID : VE-2
 Sample Location : YONKERS, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1528489
 Sample Amount : 200 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 11:42
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 23:41
 Dilution Factor : 1.25
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	1.12	0.250	--	5.54	1.24	--	
74-87-3	Chloromethane	0.792	0.250	--	1.64	0.516	--	
76-14-2	Freon-114	ND	0.250	--	ND	1.75	--	U
75-01-4	Vinyl chloride	ND	0.250	--	ND	0.639	--	U
106-99-0	1,3-Butadiene	ND	0.250	--	ND	0.553	--	U
74-83-9	Bromomethane	ND	0.250	--	ND	0.971	--	U
75-00-3	Chloroethane	ND	0.250	--	ND	0.660	--	U
64-17-5	Ethanol	64.6	6.25	--	122	11.8	--	
593-60-2	Vinyl bromide	ND	0.250	--	ND	1.09	--	U
67-64-1	Acetone	146	1.25	--	347	2.97	--	
75-69-4	Trichlorofluoromethane	2.08	0.250	--	11.7	1.40	--	
67-63-0	Isopropanol	26.3	0.625	--	64.6	1.54	--	
75-35-4	1,1-Dichloroethene	ND	0.250	--	ND	0.991	--	U
75-65-0	Tertiary butyl Alcohol	6.32	0.625	--	19.2	1.89	--	
75-09-2	Methylene chloride	1.12	0.625	--	3.89	2.17	--	
107-05-1	3-Chloropropene	ND	0.250	--	ND	0.783	--	U
75-15-0	Carbon disulfide	1.20	0.250	--	3.74	0.779	--	
76-13-1	Freon-113	ND	0.250	--	ND	1.92	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.250	--	ND	0.991	--	U
75-34-3	1,1-Dichloroethane	ND	0.250	--	ND	1.01	--	U
1634-04-4	Methyl tert butyl ether	ND	0.250	--	ND	0.901	--	U
78-93-3	2-Butanone	80.5	0.625	--	237	1.84	--	
156-59-2	cis-1,2-Dichloroethene	0.819	0.250	--	3.25	0.991	--	
141-78-6	Ethyl Acetate	ND	0.625	--	ND	2.25	--	U
67-66-3	Chloroform	0.479	0.250	--	2.34	1.22	--	
109-99-9	Tetrahydrofuran	6.22	0.625	--	18.3	1.84	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-01D
 Client ID : VE-2
 Sample Location : YONKERS, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1528489
 Sample Amount : 200 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 11:42
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 23:41
 Dilution Factor : 1.25
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	1.10	0.250	--	4.45	1.01	--	
110-54-3	n-Hexane	1.42	0.250	--	5.00	0.881	--	
71-55-6	1,1,1-Trichloroethane	ND	0.250	--	ND	1.36	--	U
71-43-2	Benzene	1.18	0.250	--	3.77	0.799	--	
56-23-5	Carbon tetrachloride	ND	0.250	--	ND	1.57	--	U
110-82-7	Cyclohexane	ND	0.250	--	ND	0.861	--	U
78-87-5	1,2-Dichloropropane	ND	0.250	--	ND	1.16	--	U
75-27-4	Bromodichloromethane	ND	0.250	--	ND	1.67	--	U
123-91-1	1,4-Dioxane	ND	0.250	--	ND	0.901	--	U
79-01-6	Trichloroethene	0.761	0.250	--	4.09	1.34	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.250	--	ND	1.17	--	U
142-82-5	Heptane	1.01	0.250	--	4.14	1.02	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.250	--	ND	1.13	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.625	--	ND	2.56	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.250	--	ND	1.13	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.250	--	ND	1.36	--	U
108-88-3	Toluene	1.68	0.250	--	6.33	0.942	--	
591-78-6	2-Hexanone	8.91	0.250	--	36.5	1.02	--	
124-48-1	Dibromochloromethane	ND	0.250	--	ND	2.13	--	U
106-93-4	1,2-Dibromoethane	ND	0.250	--	ND	1.92	--	U
127-18-4	Tetrachloroethene	9.98	0.250	--	67.7	1.70	--	
108-90-7	Chlorobenzene	ND	0.250	--	ND	1.15	--	U
100-41-4	Ethylbenzene	ND	0.250	--	ND	1.09	--	U
179601-23-1	p/m-Xylene	0.776	0.500	--	3.37	2.17	--	
75-25-2	Bromoform	ND	0.250	--	ND	2.58	--	U
100-42-5	Styrene	ND	0.250	--	ND	1.06	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-01D
 Client ID : VE-2
 Sample Location : YONKERS, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1528489
 Sample Amount : 200 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 11:42
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 23:41
 Dilution Factor : 1.25
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.250	--	ND	1.72	--	U
95-47-6	o-Xylene	ND	0.250	--	ND	1.09	--	U
622-96-8	4-Ethyltoluene	ND	0.250	--	ND	1.23	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.250	--	ND	1.23	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.250	--	ND	1.23	--	U
100-44-7	Benzyl chloride	ND	0.250	--	ND	1.29	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.250	--	ND	1.50	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.250	--	ND	1.50	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.250	--	ND	1.50	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.250	--	ND	1.86	--	U
87-68-3	Hexachlorobutadiene	ND	0.250	--	ND	2.67	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-02
 Client ID : VE-2-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1528486
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 11:46
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 21:45
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.632	0.200	--	3.13	0.989	--	
74-87-3	Chloromethane	0.961	0.200	--	1.98	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	265	5.00	--	499	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	29.0	1.00	--	68.9	2.38	--	
75-69-4	Trichlorofluoromethane	2.40	0.200	--	13.5	1.12	--	
67-63-0	Isopropanol	426	0.500	--	1050	1.23	--	E
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	1.74	0.500	--	6.04	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.91	0.500	--	5.63	1.47	--	
141-78-6	Ethyl Acetate	1.28	0.500	--	4.61	1.80	--	
67-66-3	Chloroform	0.248	0.200	--	1.21	0.977	--	
109-99-9	Tetrahydrofuran	0.668	0.500	--	1.97	1.47	--	
107-06-2	1,2-Dichloroethane	3.18	0.200	--	12.9	0.809	--	
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U



Results Summary Form 1 Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-02
 Client ID : VE-2-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1528486
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 11:46
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 21:45
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.276	0.200	--	0.950	0.688	--	
78-87-5	1,2-Dichloropropane	0.303	0.200	--	1.40	0.924	--	
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	8.80	0.200	--	33.2	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.53	0.200	--	6.65	0.869	--	
179601-23-1	p/m-Xylene	3.71	0.400	--	16.1	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	2.79	0.200	--	11.9	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.88	0.200	--	8.17	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	0.236	0.200	--	1.16	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	1.15	0.200	--	5.65	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-02
 Client ID : VE-2-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1528486
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 11:46
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 21:45
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150027
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab ID	: L2150027-02D	Date Collected	: 09/16/21 11:46
Client ID	: VE-2-IA	Date Received	: 09/16/21
Sample Location	: YONKERS, NY	Date Analyzed	: 09/22/21 07:54
Sample Matrix	: AIR	Dilution Factor	: 3.333
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R1528496	Instrument ID	: AIRLAB15
Sample Amount	: 75.0 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-63-0	Isopropanol	551	1.67	--	1350	4.10	--	

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-03
 Client ID : DUP-091621
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1528487
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 11:47
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 22:24
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.622	0.200	--	3.08	0.989	--	
74-87-3	Chloromethane	0.623	0.200	--	1.29	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	235	5.00	--	443	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	26.7	1.00	--	63.4	2.38	--	
75-69-4	Trichlorofluoromethane	2.22	0.200	--	12.5	1.12	--	
67-63-0	Isopropanol	402	0.500	--	988	1.23	--	E
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	2.22	0.500	--	7.71	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.73	0.500	--	5.10	1.47	--	
141-78-6	Ethyl Acetate	1.23	0.500	--	4.43	1.80	--	
67-66-3	Chloroform	0.224	0.200	--	1.09	0.977	--	
109-99-9	Tetrahydrofuran	0.560	0.500	--	1.65	1.47	--	
107-06-2	1,2-Dichloroethane	2.93	0.200	--	11.9	0.809	--	
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-03
 Client ID : DUP-091621
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1528487
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 11:47
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 22:24
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.237	0.200	--	0.816	0.688	--	
78-87-5	1,2-Dichloropropane	0.285	0.200	--	1.32	0.924	--	
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	7.93	0.200	--	29.9	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.40	0.200	--	6.08	0.869	--	
179601-23-1	p/m-Xylene	3.35	0.400	--	14.6	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	2.56	0.200	--	10.9	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.74	0.200	--	7.56	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	0.210	0.200	--	1.03	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	1.06	0.200	--	5.21	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-03
 Client ID : DUP-091621
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1528487
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 11:47
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 22:24
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150027
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab ID	: L2150027-03D	Date Collected	: 09/16/21 11:47
Client ID	: DUP-091621	Date Received	: 09/16/21
Sample Location	: YONKERS, NY	Date Analyzed	: 09/22/21 08:30
Sample Matrix	: AIR	Dilution Factor	: 3.333
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R1528497	Instrument ID	: AIRLAB15
Sample Amount	: 75.0 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-63-0	Isopropanol	459	1.67	--	1130	4.10	--	

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-04D
 Client ID : VE-1
 Sample Location : YONKERS, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1528490
 Sample Amount : 139 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 12:07
 Date Received : 09/16/21
 Date Analyzed : 09/22/21 00:19
 Dilution Factor : 1.804
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.528	0.361	--	2.61	1.79	--	
74-87-3	Chloromethane	2.71	0.361	--	5.60	0.745	--	
76-14-2	Freon-114	ND	0.361	--	ND	2.52	--	U
75-01-4	Vinyl chloride	ND	0.361	--	ND	0.923	--	U
106-99-0	1,3-Butadiene	ND	0.361	--	ND	0.799	--	U
74-83-9	Bromomethane	ND	0.361	--	ND	1.40	--	U
75-00-3	Chloroethane	ND	0.361	--	ND	0.953	--	U
64-17-5	Ethanol	ND	9.02	--	ND	17.0	--	U
593-60-2	Vinyl bromide	ND	0.361	--	ND	1.58	--	U
67-64-1	Acetone	40.1	1.80	--	95.3	4.28	--	
75-69-4	Trichlorofluoromethane	0.630	0.361	--	3.54	2.03	--	
67-63-0	Isopropanol	ND	0.902	--	ND	2.22	--	U
75-35-4	1,1-Dichloroethene	ND	0.361	--	ND	1.43	--	U
75-65-0	Tertiary butyl Alcohol	1.22	0.902	--	3.70	2.73	--	
75-09-2	Methylene chloride	1.66	0.902	--	5.77	3.13	--	
107-05-1	3-Chloropropene	ND	0.361	--	ND	1.13	--	U
75-15-0	Carbon disulfide	1.65	0.361	--	5.14	1.12	--	
76-13-1	Freon-113	ND	0.361	--	ND	2.77	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.361	--	ND	1.43	--	U
75-34-3	1,1-Dichloroethane	ND	0.361	--	ND	1.46	--	U
1634-04-4	Methyl tert butyl ether	ND	0.361	--	ND	1.30	--	U
78-93-3	2-Butanone	25.8	0.902	--	76.1	2.66	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.361	--	ND	1.43	--	U
141-78-6	Ethyl Acetate	ND	0.902	--	ND	3.25	--	U
67-66-3	Chloroform	ND	0.361	--	ND	1.76	--	U
109-99-9	Tetrahydrofuran	9.24	0.902	--	27.3	2.66	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-04D
 Client ID : VE-1
 Sample Location : YONKERS, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1528490
 Sample Amount : 139 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 12:07
 Date Received : 09/16/21
 Date Analyzed : 09/22/21 00:19
 Dilution Factor : 1.804
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.361	--	ND	1.46	--	U
110-54-3	n-Hexane	1.48	0.361	--	5.22	1.27	--	
71-55-6	1,1,1-Trichloroethane	ND	0.361	--	ND	1.97	--	U
71-43-2	Benzene	7.10	0.361	--	22.7	1.15	--	
56-23-5	Carbon tetrachloride	ND	0.361	--	ND	2.27	--	U
110-82-7	Cyclohexane	0.839	0.361	--	2.89	1.24	--	
78-87-5	1,2-Dichloropropane	ND	0.361	--	ND	1.67	--	U
75-27-4	Bromodichloromethane	ND	0.361	--	ND	2.42	--	U
123-91-1	1,4-Dioxane	ND	0.361	--	ND	1.30	--	U
79-01-6	Trichloroethene	ND	0.361	--	ND	1.94	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.361	--	ND	1.69	--	U
142-82-5	Heptane	0.927	0.361	--	3.80	1.48	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.361	--	ND	1.64	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.902	--	ND	3.70	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.361	--	ND	1.64	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.361	--	ND	1.97	--	U
108-88-3	Toluene	0.704	0.361	--	2.65	1.36	--	
591-78-6	2-Hexanone	2.80	0.361	--	11.5	1.48	--	
124-48-1	Dibromochloromethane	ND	0.361	--	ND	3.08	--	U
106-93-4	1,2-Dibromoethane	ND	0.361	--	ND	2.77	--	U
127-18-4	Tetrachloroethene	ND	0.361	--	ND	2.45	--	U
108-90-7	Chlorobenzene	ND	0.361	--	ND	1.66	--	U
100-41-4	Ethylbenzene	ND	0.361	--	ND	1.57	--	U
179601-23-1	p/m-Xylene	ND	0.722	--	ND	3.14	--	U
75-25-2	Bromoform	ND	0.361	--	ND	3.73	--	U
100-42-5	Styrene	ND	0.361	--	ND	1.54	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-04D
 Client ID : VE-1
 Sample Location : YONKERS, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1528490
 Sample Amount : 139 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 12:07
 Date Received : 09/16/21
 Date Analyzed : 09/22/21 00:19
 Dilution Factor : 1.804
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.361	--	ND	2.48	--	U
95-47-6	o-Xylene	ND	0.361	--	ND	1.57	--	U
622-96-8	4-Ethyltoluene	ND	0.361	--	ND	1.77	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.361	--	ND	1.77	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.361	--	ND	1.77	--	U
100-44-7	Benzyl chloride	ND	0.361	--	ND	1.87	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.361	--	ND	2.17	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.361	--	ND	2.17	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.361	--	ND	2.17	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.361	--	ND	2.68	--	U
87-68-3	Hexachlorobutadiene	ND	0.361	--	ND	3.85	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-05
 Client ID : VE-1-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1528488
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 13:02
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 23:03
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.477	0.200	--	2.36	0.989	--	
74-87-3	Chloromethane	0.672	0.200	--	1.39	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	5220	5.00	--	9840	9.42	--	E
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	14.6	1.00	--	34.7	2.38	--	
75-69-4	Trichlorofluoromethane	1.89	0.200	--	10.6	1.12	--	
67-63-0	Isopropanol	112	0.500	--	275	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	3.44	0.500	--	10.1	1.47	--	
141-78-6	Ethyl Acetate	4.88	0.500	--	17.6	1.80	--	
67-66-3	Chloroform	0.504	0.200	--	2.46	0.977	--	
109-99-9	Tetrahydrofuran	1.07	0.500	--	3.16	1.47	--	
107-06-2	1,2-Dichloroethane	0.433	0.200	--	1.75	0.809	--	
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-05
 Client ID : VE-1-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1528488
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 13:02
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 23:03
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	0.289	0.200	--	1.35	0.934	--	
142-82-5	Heptane	0.365	0.200	--	1.50	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	1.57	0.200	--	5.92	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	0.517	0.400	--	2.25	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.272	0.200	--	1.16	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.236	0.200	--	1.03	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-05
 Client ID : VE-1-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1528488
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 13:02
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 23:03
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC Project Name : FORMER CLEAN ZONE DRY CLEANERS Lab ID : L2150027-05D Client ID : VE-1-IA Sample Location : YONKERS, NY Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R1528498 Sample Amount : 2.51 ml	Lab Number : L2150027 Project Number : 2546.0007Y002 Date Collected : 09/16/21 13:02 Date Received : 09/16/21 Date Analyzed : 09/22/21 09:06 Dilution Factor : 99.6 Analyst : RY Instrument ID : AIRLAB15 GC Column : RTX-1
---	--

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
64-17-5	Ethanol	10200	498	--	19200	938	--	

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : WG1549026-4
 Client ID : WG1549026-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1528477
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 09/21/21 14:53
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
115-07-1	Propylene	ND	0.500	--	ND	0.861	--	U
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
108-05-4	Vinyl acetate	ND	1.00	--	ND	3.52	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : WG1549026-4
 Client ID : WG1549026-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1528477
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 09/21/21 14:53
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : WG1549026-4
 Client ID : WG1549026-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1528477
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 09/21/21 14:53
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528486.D
 Acq On : 21 Sep 2021 9:45 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-02,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:15:50 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.63	49	371443	10.000	ppbV	-0.05
Standard Area = 344610			Recovery =	107.79%		
43) 1,4-difluorobenzene	11.91	114	867098	10.000	ppbV	-0.05
Standard Area = 879831			Recovery =	98.55%		
67) chlorobenzene-D5	16.65	54	167751	10.000	ppbV	-0.03
Standard Area = 155534			Recovery =	107.85%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.99	85	17472	0.632	ppbV	100
6) chloromethane	4.17	50	14111	0.961	ppbV	99
7) Freon-114	4.30		0	N.D.		
10) 1,3-butadiene	4.61		0	N.D.		
13) bromomethane	0.00		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	5.32	31	3040010	264.710	ppbV	87
17) vinyl bromide	0.00		0	N.D.		
19) acetone	5.88	43	709309	28.958	ppbV #	94
21) trichlorofluoromethane	6.10	101	58841	2.399	ppbV	99
22) isopropyl alcohol	6.24	45	12297335	426.558	ppbV	99
27) tertiary butyl alcohol	6.97	59	11183	0.338	ppbV #	59
28) methylene chloride	7.05	49	31405	1.743	ppbV	99
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	7.34	76	2525	0.054	ppbV #	1
31) Freon 113	7.38	101	1667	0.058	ppbV	92
32) trans-1,2-dichloroethene	8.19		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	8.52		0	N.D.		
36) 2-butanone	8.91	43	86972	1.913	ppbV	98
38) Ethyl Acetate	9.73	61	10909	1.281	ppbV #	83
39) chloroform	9.79	83	7897	0.248	ppbV	97
40) Tetrahydrofuran	10.28	42	19444M6	0.668	ppbV	
42) 1,2-dichloroethane	10.64	62	68533	3.181	ppbV	97
44) hexane	9.71	57	6485	0.153	ppbV #	42
50) benzene	11.47	78	8431	0.123	ppbV	97
53) cyclohexane	11.80	56	12732	0.276	ppbV #	89

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528486.D
 Acq On : 21 Sep 2021 9:45 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-02,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:15:50 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1,2-dichloropropane	12.44	63	8008	0.303	ppbV	95
57) bromodichloromethane	12.68		0	N.D.		
58) 1,4-dioxane	12.72	88	911	0.054	ppbV #	76
60) 2,2,4-trimethylpentane	12.77	57	8472	0.060	ppbV #	69
62) heptane	13.09	43	8764	0.184	ppbV	88
63) cis-1,3-dichloropropene	0.00		0	N.D.		
64) 4-methyl-2-pentanone	13.78	43	16277	0.302	ppbV #	87
65) trans-1,3-dichloropropene	0.00		0	N.D.		
66) 1,1,2-trichloroethane	14.66		0	N.D.		
68) toluene	14.88	91	684510	8.799	ppbV	97
72) 2-hexanone	0.00		0	N.D.	d	
74) dibromochloromethane	0.00		0	N.D.		
75) 1,2-dibromoethane	0.00		0	N.D.		
80) chlorobenzene	16.71		0	N.D.		
81) ethylbenzene	17.03	91	144230	1.531	ppbV	92
83) m+p-xylene	17.19	91	278147	3.711	ppbV	93
84) bromoform	0.00		0	N.D.		
85) styrene	17.52	104	157325	2.793	ppbV	99
86) 1,1,2,2-tetrachloroethane	0.00		0	N.D.	d	
87) o-xylene	17.61	91	139469	1.884	ppbV	91
96) 4-ethyl toluene	18.66	105	16898M3	0.170	ppbV	
97) 1,3,5-trimethylbenzene	18.72	105	18483	0.236	ppbV	94
99) 1,2,4-trimethylbenzene	19.05	105	87952	1.146	ppbV #	49
101) Benzyl Chloride	0.00		0	N.D.	d	
102) 1,3-dichlorobenzene	19.23	146	3004M4	0.059	ppbV	
103) 1,4-dichlorobenzene	0.00		0	N.D.	d	
107) 1,2-dichlorobenzene	19.52		0	N.D.		
115) 1,2,4-trichlorobenzene	0.00		0	N.D.		
119) hexachlorobutadiene	0.00		0	N.D.		

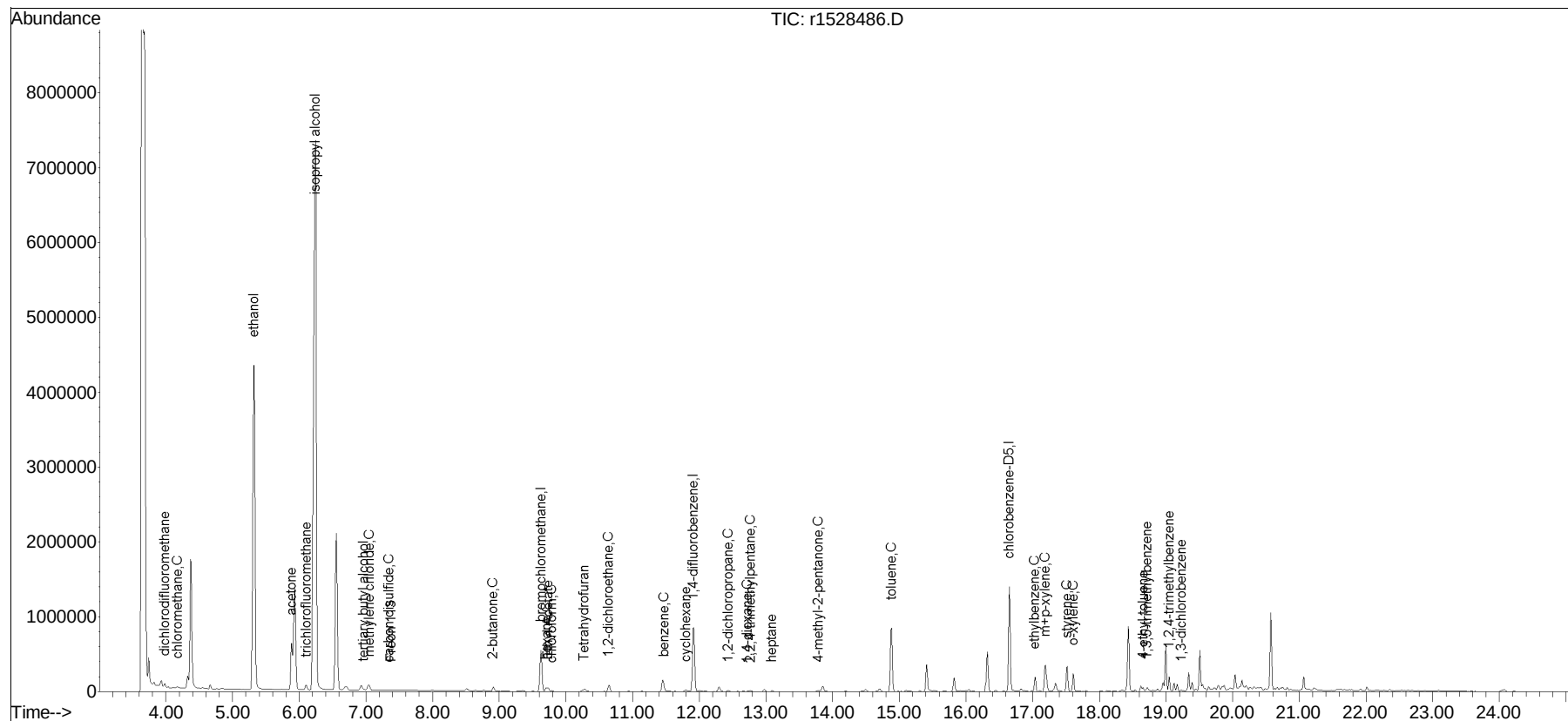
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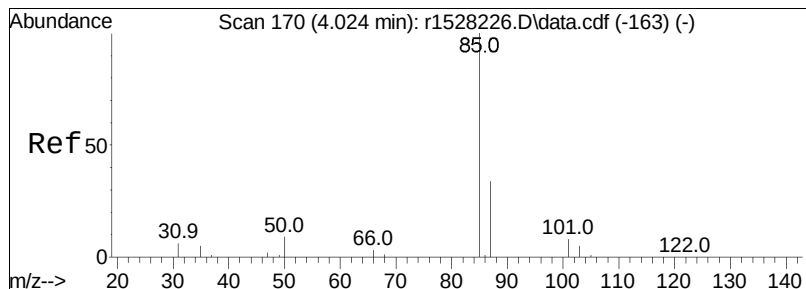
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528486.D
 Acq On : 21 Sep 2021 9:45 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-02,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:15:50 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

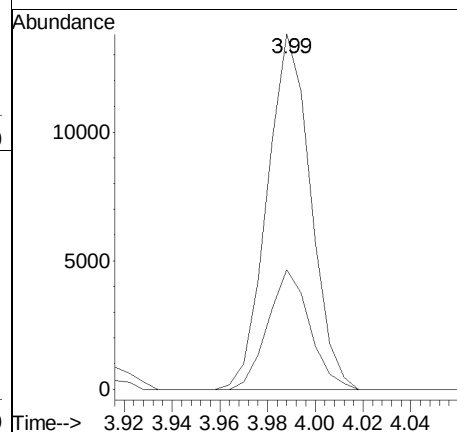
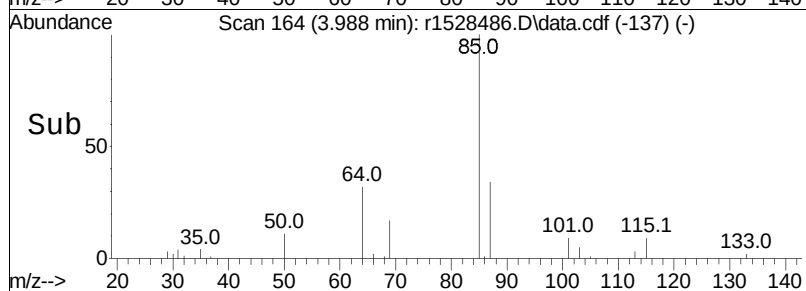
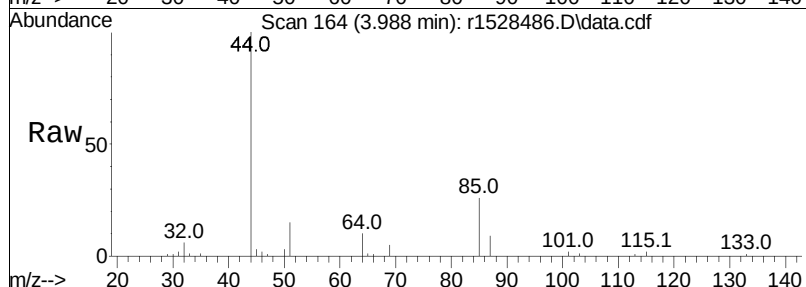
Sub List : T015-NY-7-SIM - .\Airlab15\2021\09\0921T\r1528475.D

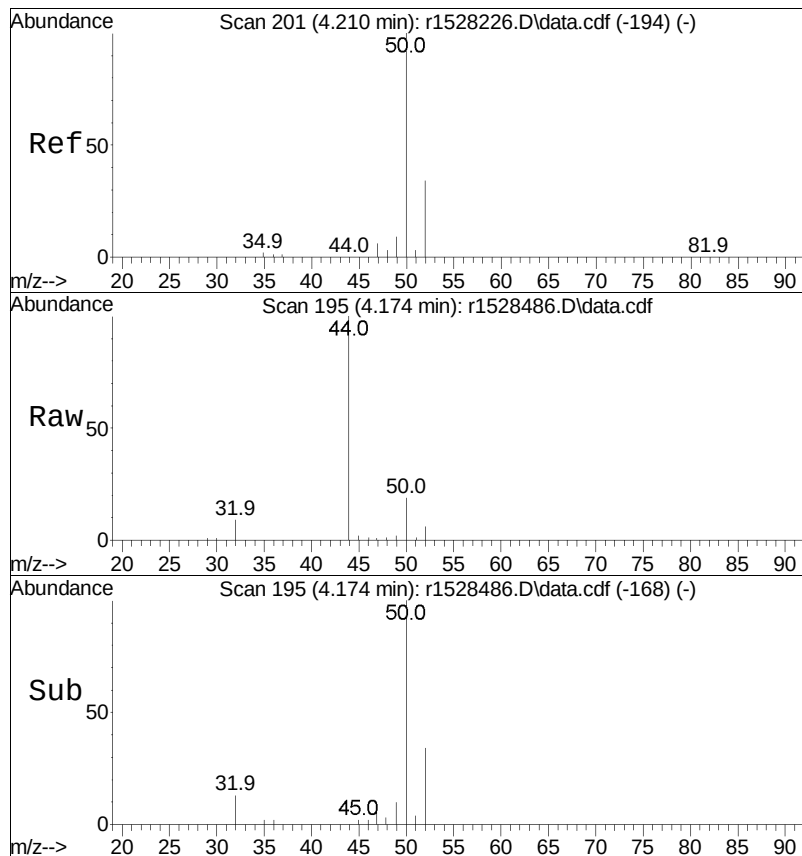




#5
 dichlorodifluoromethane
 Concen: 0.63 ppbV
 RT: 3.99 min Scan# 164
 Delta R.T. -0.036 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

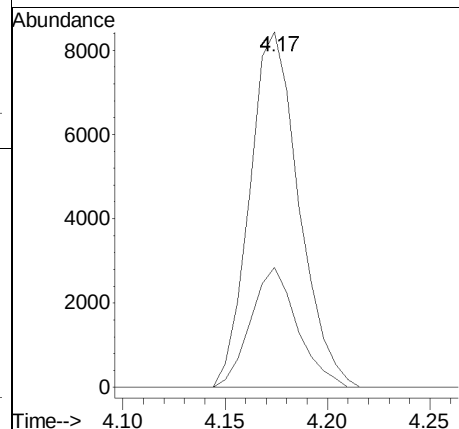
Tgt Ion: 85 Resp: 17472
 Ion Ratio Lower Upper
 85 100
 87 33.7 27.1 40.7

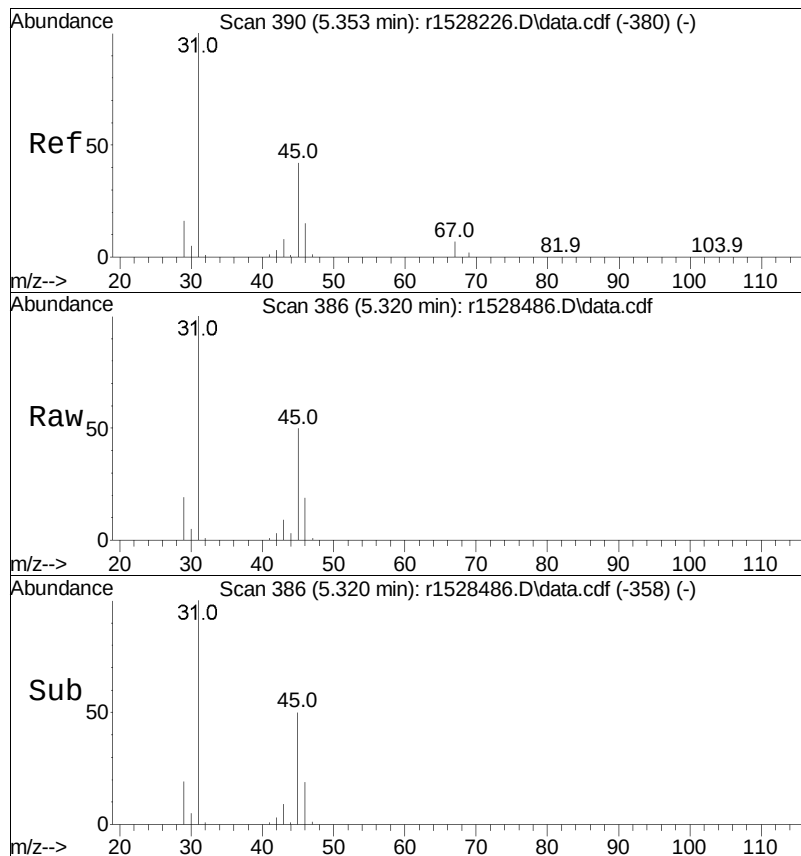




#6
 chloromethane
 Concen: 0.96 ppbV
 RT: 4.17 min Scan# 195
 Delta R.T. -0.036 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

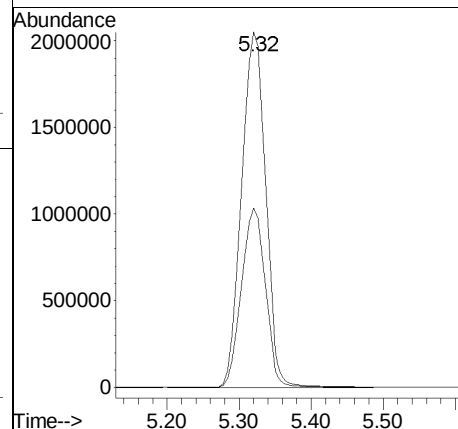
Tgt	Ion	Resp	Lower	Upper
50	100	14111		
52	33.8	27.6	41.4	

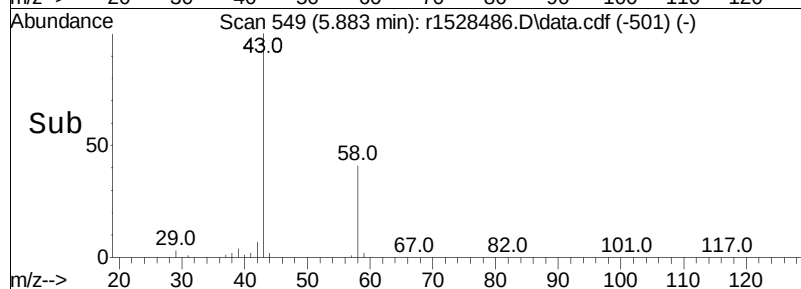
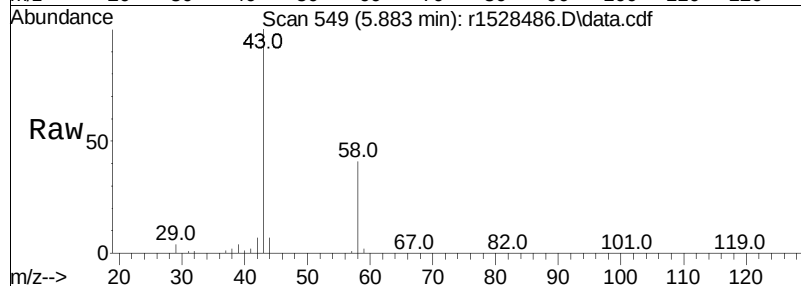
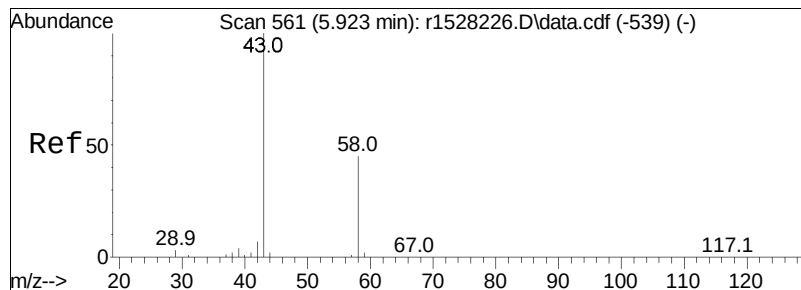




#15
 ethanol
 Concen: 264.71 ppbV
 RT: 5.32 min Scan# 386
 Delta R.T. -0.033 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

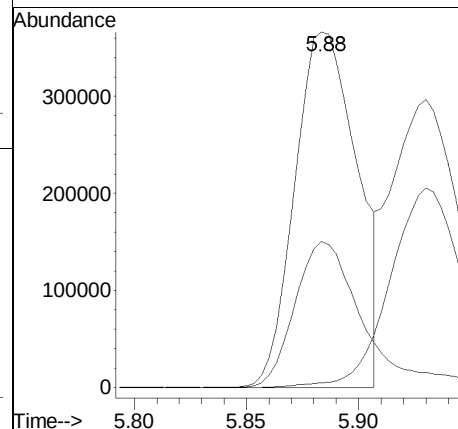
Tgt	Ion	Ratio	Lower	Upper
31	100			
45	50.5	34.0	51.0	

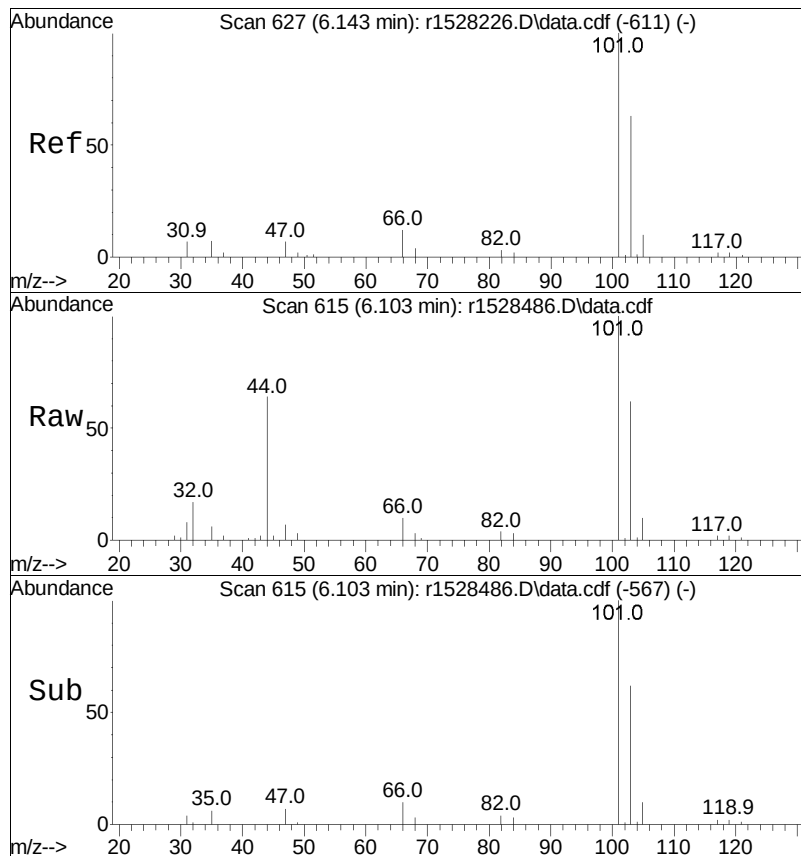




#19
acetone
Concen: 28.96 ppbV
RT: 5.88 min Scan# 549
Delta R.T. -0.040 min
Lab File: r1528486.D
Acq: 21 Sep 2021 9:45 PM

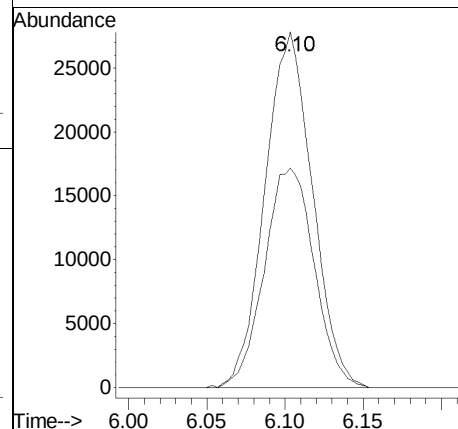
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	41.1	36.2	54.2	
57	1.3	0.9	1.3	

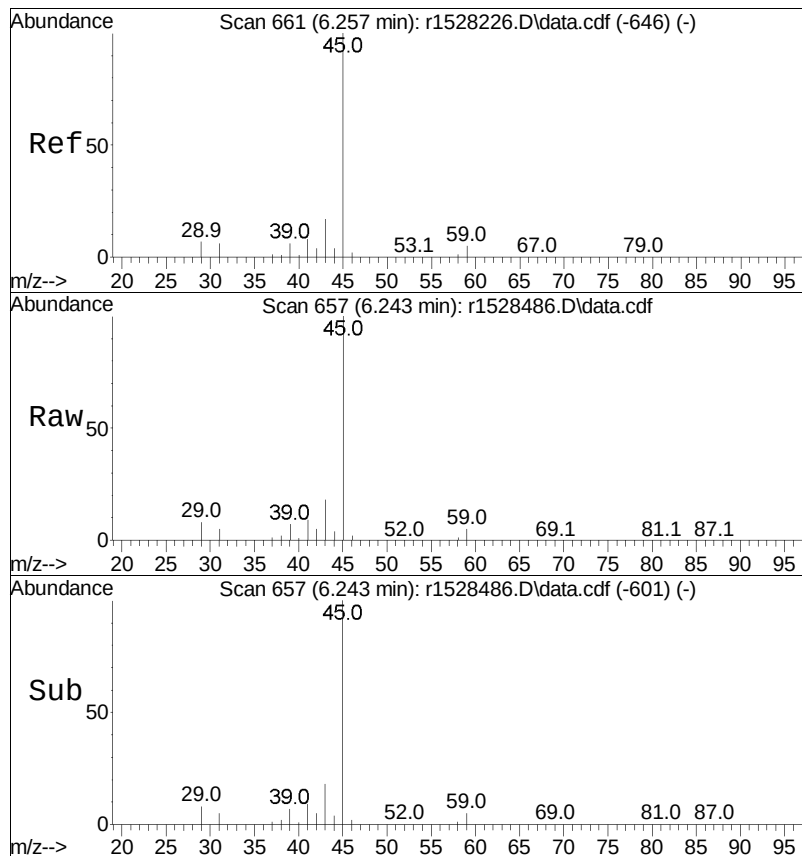




#21
trichlorofluoromethane
Concen: 2.40 ppbV
RT: 6.10 min Scan# 615
Delta R.T. -0.040 min
Lab File: r1528486.D
Acq: 21 Sep 2021 9:45 PM

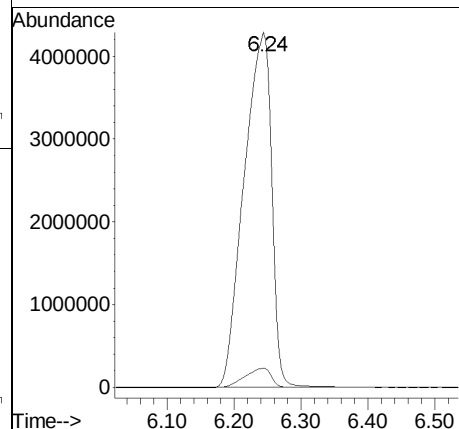
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	61.7	50.2	75.4	

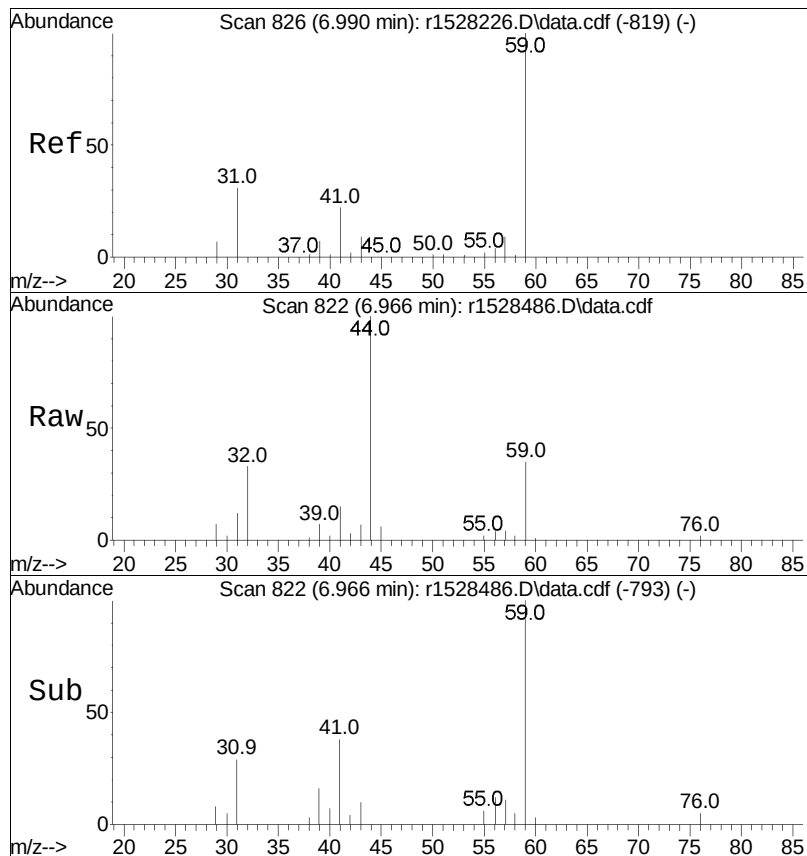




#22
 isopropyl alcohol
 Concen: 426.56 ppbV
 RT: 6.24 min Scan# 657
 Delta R.T. -0.013 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

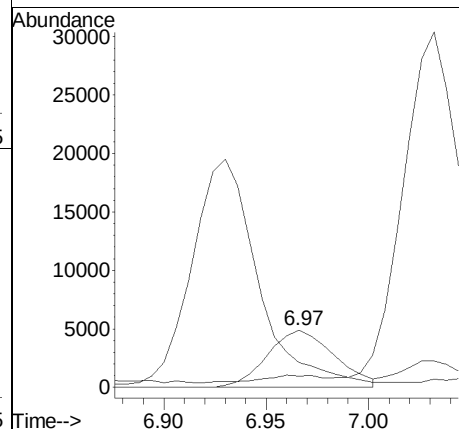
Tgt Ion	Ratio	Lower	Upper
45	100		
59	5.4	4.2	6.2

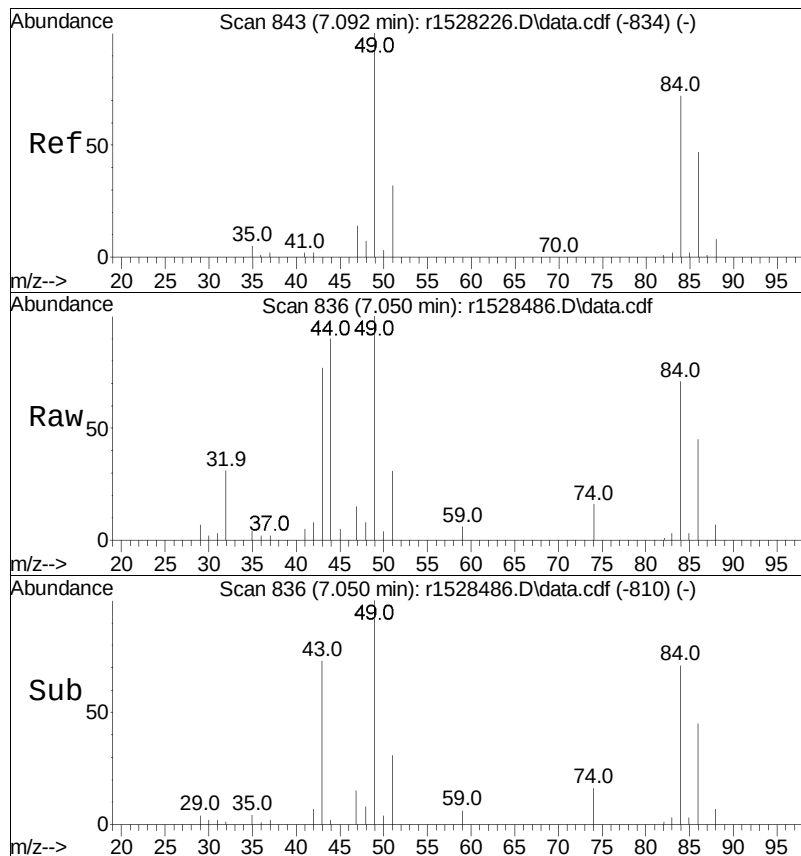




#27
 tertiary butyl alcohol
 Concen: 0.34 ppbV
 RT: 6.97 min Scan# 822
 Delta R.T. -0.024 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

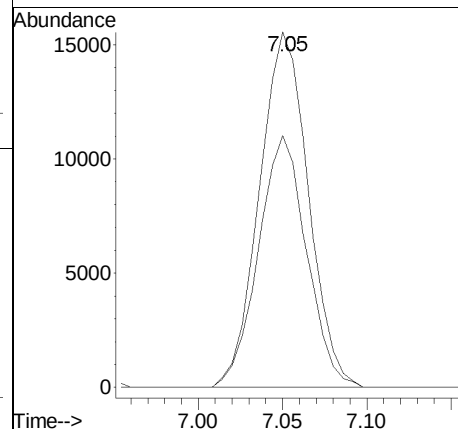
Tgt Ion:	59	Resp:	11183
Ion Ratio	Lower	Upper	
59	100		
41	43.2	17.4	26.0#
43	19.8	7.3	10.9#

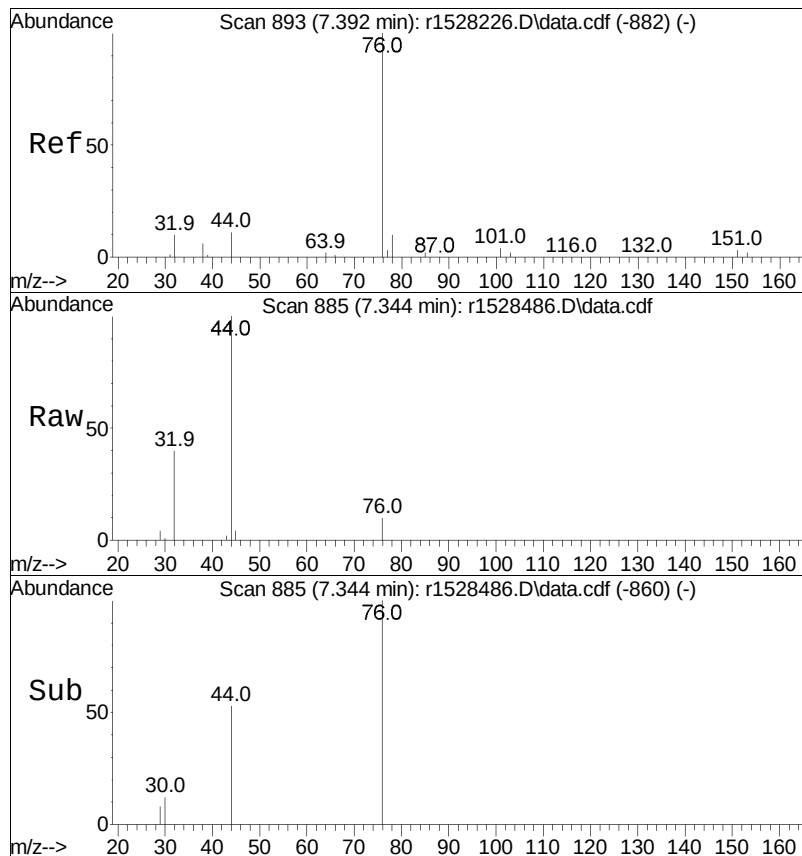




#28
 methylene chloride
 Concen: 1.74 ppbV
 RT: 7.05 min Scan# 836
 Delta R.T. -0.042 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

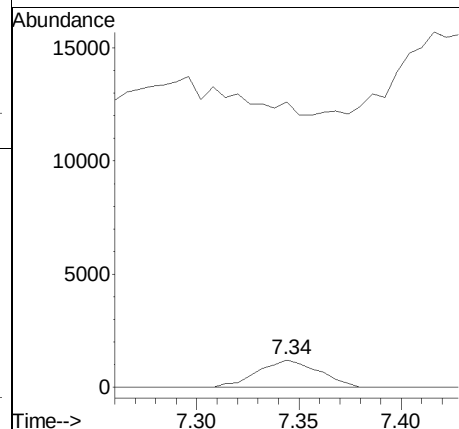
Tgt Ion:	49	84	Ratio	100	70.8	Resp:	31405	Lower	Upper
								57.4	86.0

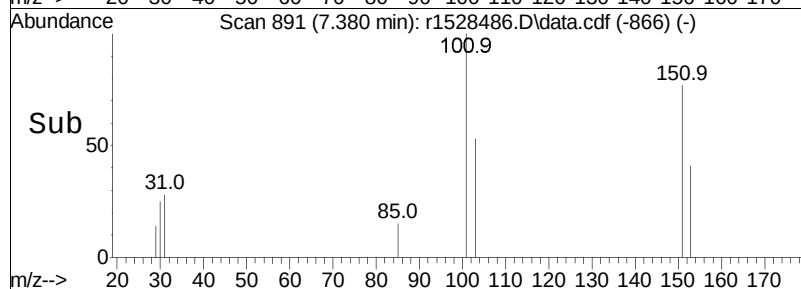
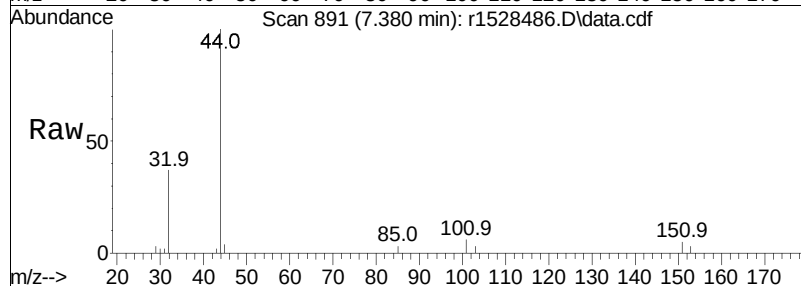
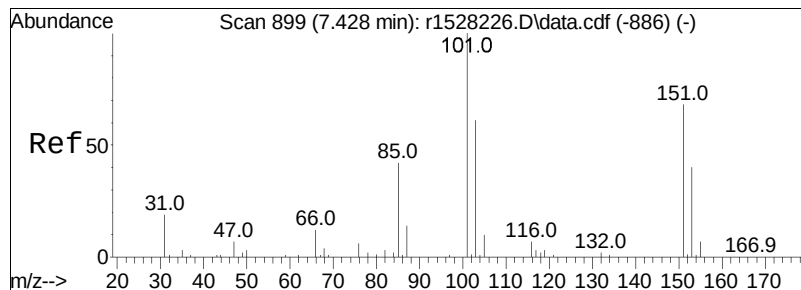




#30
 carbon disulfide
 Concen: 0.05 ppbV
 RT: 7.34 min Scan# 885
 Delta R.T. -0.048 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

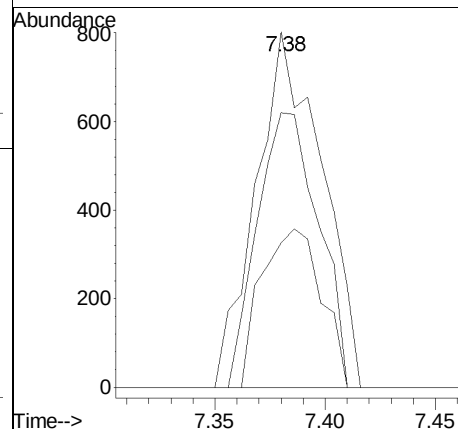
Tgt Ion: 76 Resp: 2525
 Ion Ratio Lower Upper
 76 100
 44 1038.5 8.8 13.2#

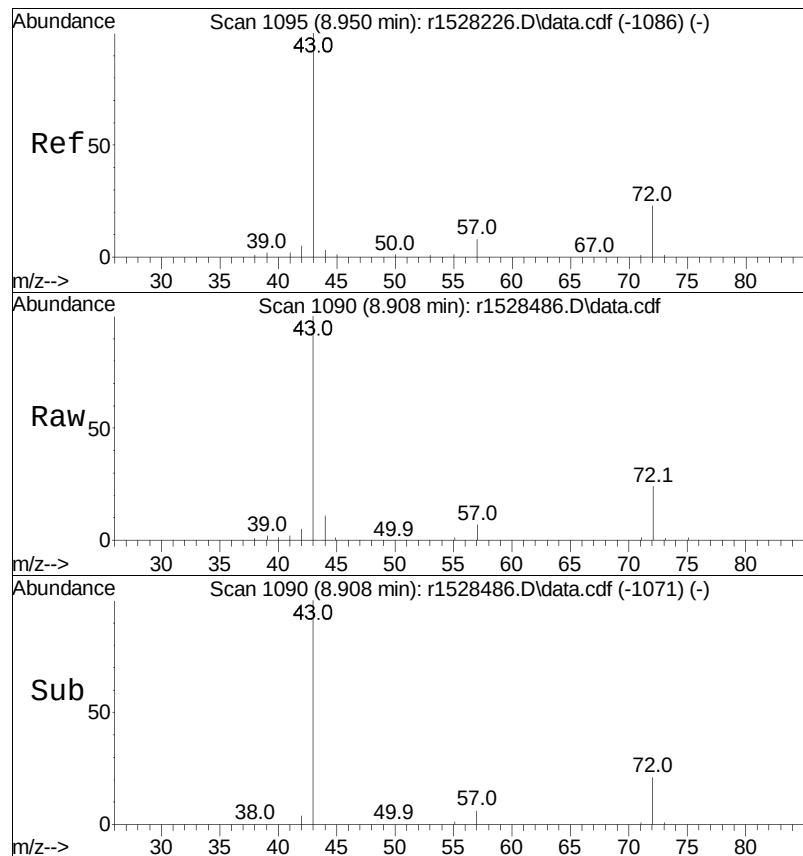




#31
 Freon 113
 Concen: 0.06 ppbV
 RT: 7.38 min Scan# 891
 Delta R.T. -0.048 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

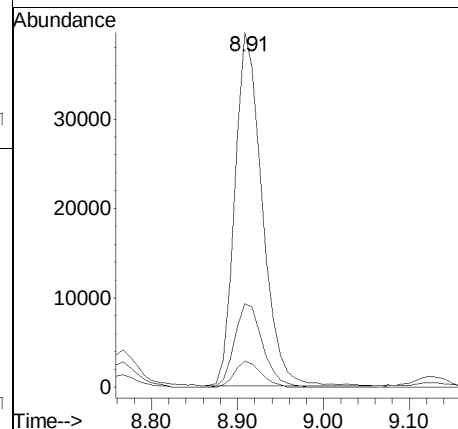
Tgt Ion:	101	Resp:	1667
Ion Ratio	Lower	Upper	
101	100		
85	40.6	33.5	50.3
151	77.3	54.3	81.5

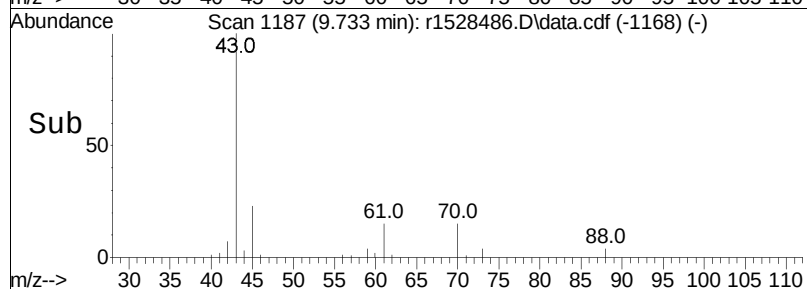
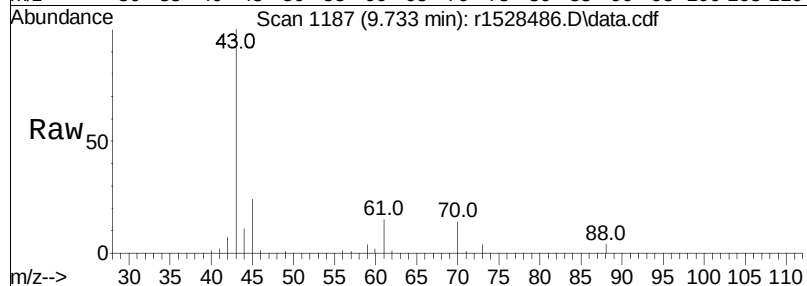
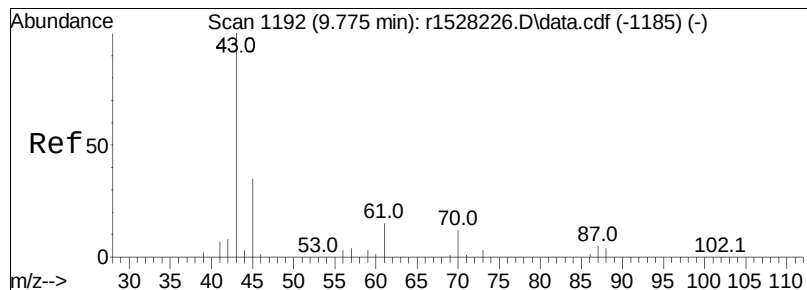




#36
 2-butanone
 Concen: 1.91 ppbV
 RT: 8.91 min Scan# 1090
 Delta R.T. -0.042 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

Tgt Ion:	43	Resp:	86972
Ion Ratio	Lower	Upper	
43	100		
72	23.6	18.3	27.5
57	7.4	6.6	10.0





#38

Ethyl Acetate

Concen: 1.28 ppbV

RT: 9.73 min Scan# 1187

Delta R.T. -0.042 min

Lab File: r1528486.D

Acq: 21 Sep 2021 9:45 PM

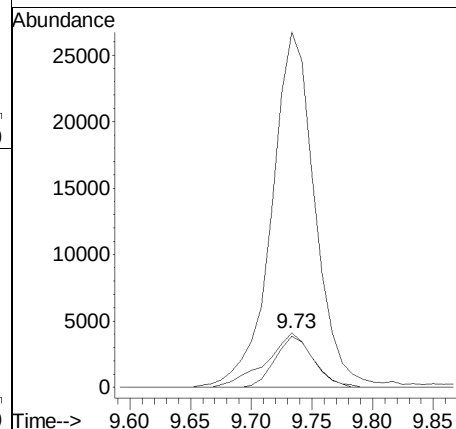
Tgt Ion: 61 Resp: 10909

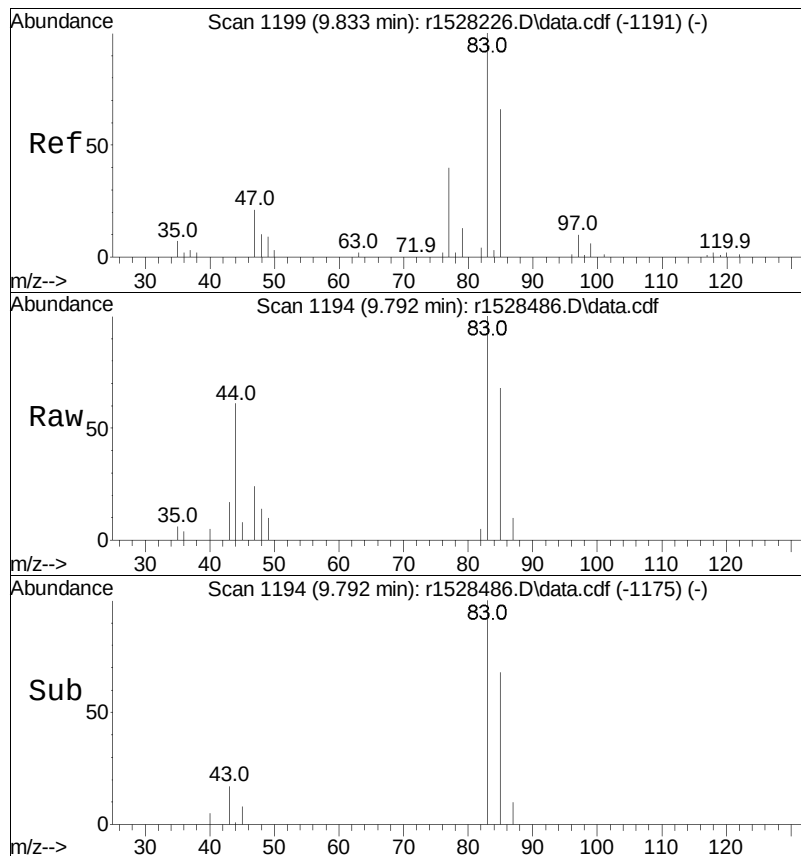
Ion Ratio Lower Upper

61 100

70 94.0 61.9 92.9#

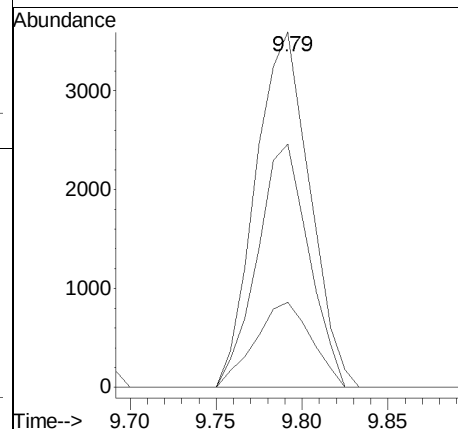
43 651.9 568.7 853.1

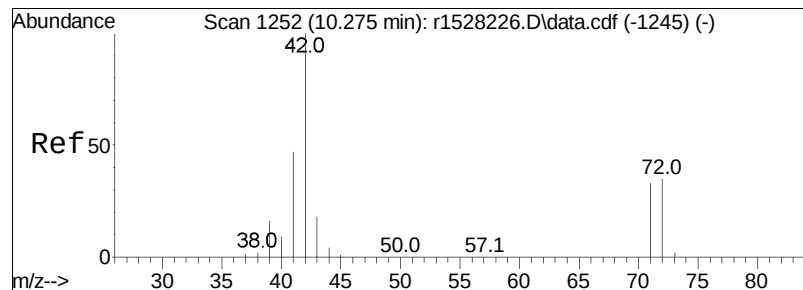




#39
 chloroform
 Concen: 0.25 ppbV
 RT: 9.79 min Scan# 1194
 Delta R.T. -0.042 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

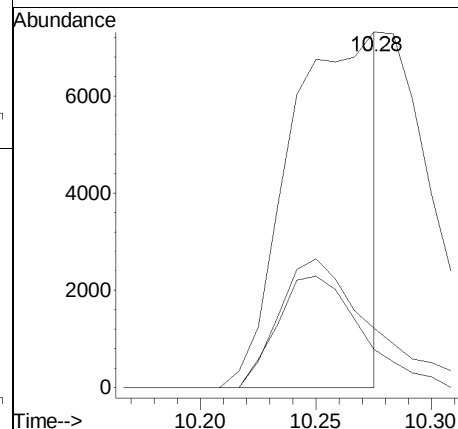
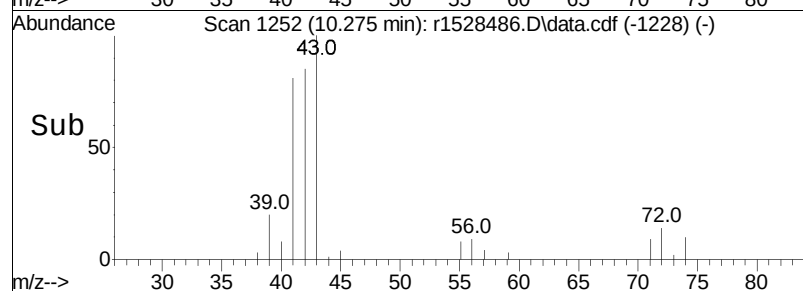
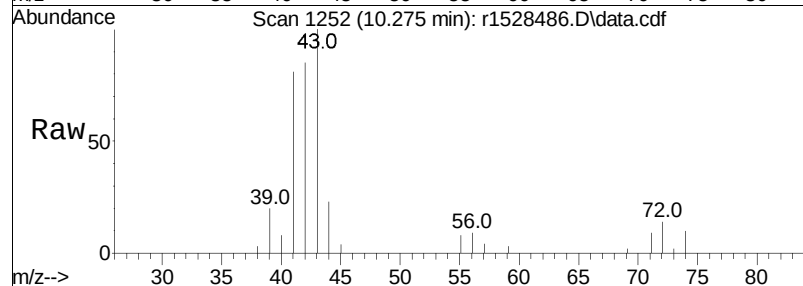
Tgt	Ion: 83	Resp:	7897
Ion	Ratio	Lower	Upper
83	100		
85	68.5	52.9	79.3
47	24.0	17.4	26.0

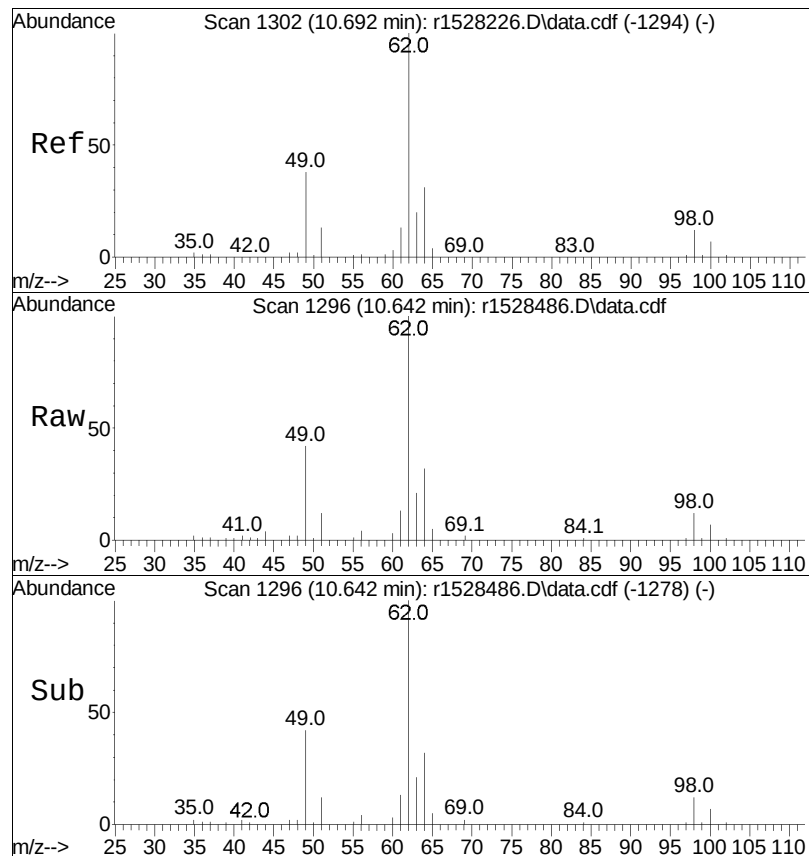




#40
Tetrahydrofuran
Concen: 0.67 ppbV m
RT: 10.28 min Scan# 1252
Delta R.T. 0.000 min
Lab File: r1528486.D
Acq: 21 Sep 2021 9:45 PM

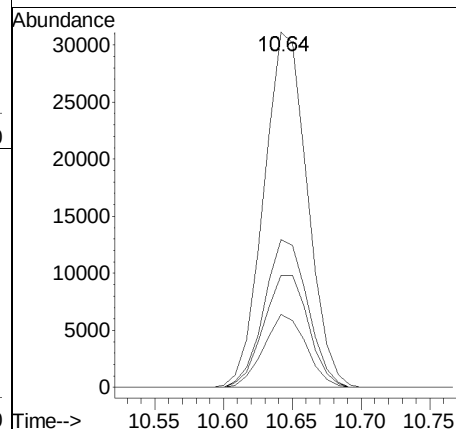
Tgt Ion:	42	Resp:	19444
Ion Ratio	100	Lower	Upper
71	10.7	26.8	40.2#
72	16.7	27.9	41.9#

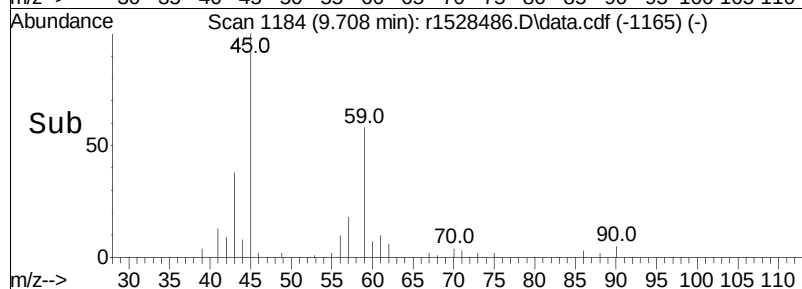
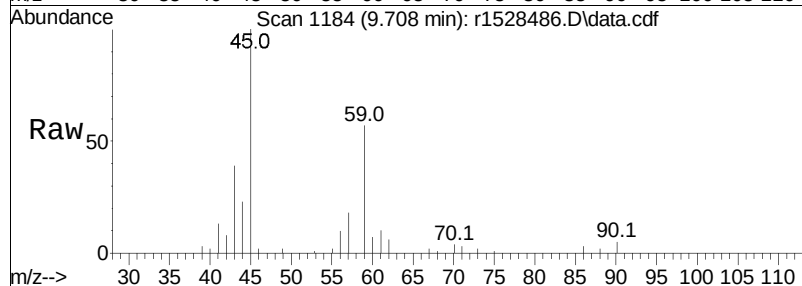
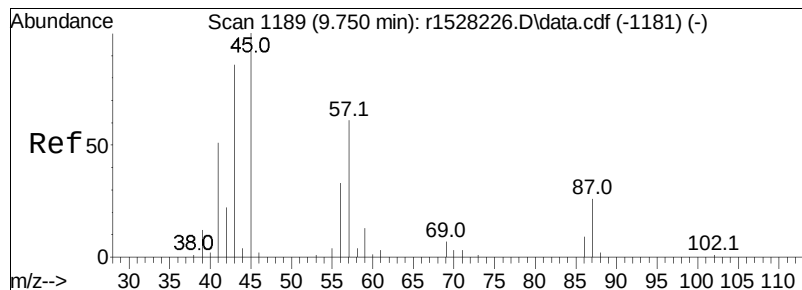




#42
 1,2-dichloroethane
 Concen: 3.18 ppbV
 RT: 10.64 min Scan# 1296
 Delta R.T. -0.050 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

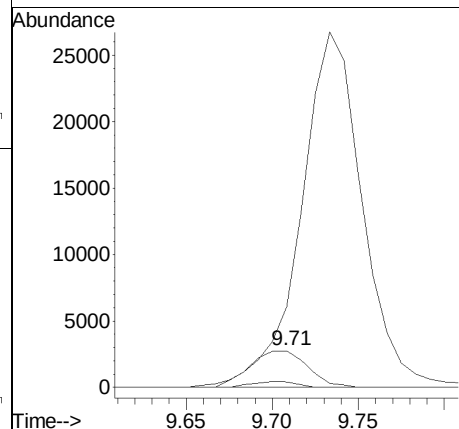
Tgt Ion:	62	Resp:	68533
Ion Ratio	Lower	Upper	
62	100		
64	31.6	24.7	37.1
49	41.6	30.4	45.6
63	20.5	16.2	24.4

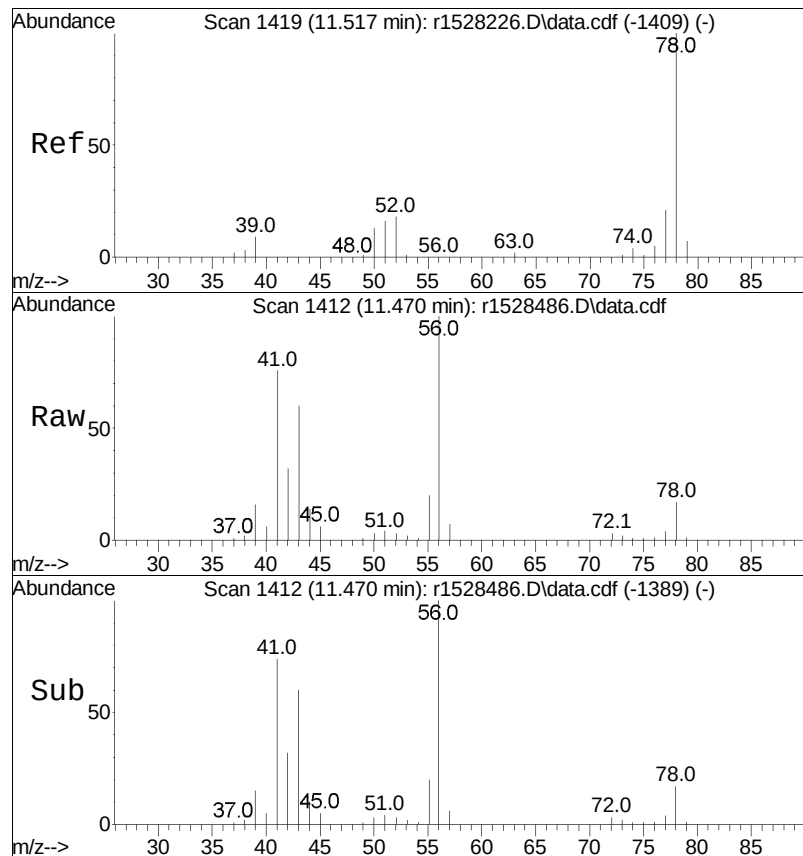




#44
hexane
Concen: 0.15 ppbV
RT: 9.71 min Scan# 1184
Delta R.T. -0.042 min
Lab File: r1528486.D
Acq: 21 Sep 2021 9:45 PM

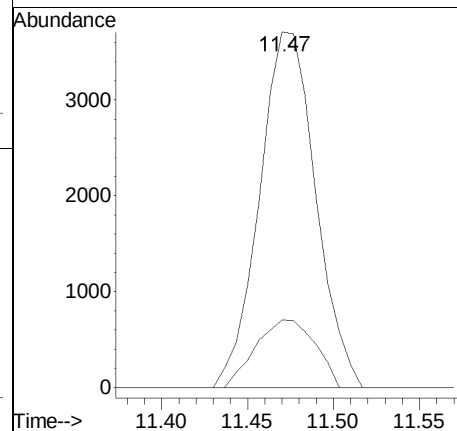
Tgt	Ion	Resp	Lower	Upper
57	100			
43	221.0	113.8	170.8#	
86	15.0	11.6	17.4	

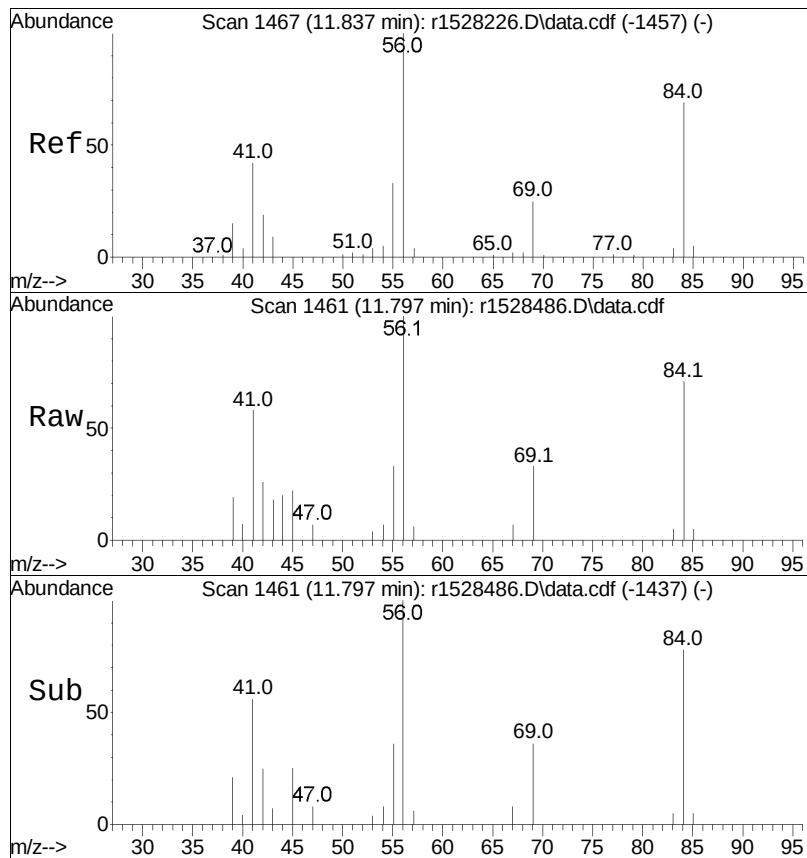




#50
benzene
Concen: 0.12 ppbV
RT: 11.47 min Scan# 1412
Delta R.T. -0.047 min
Lab File: r1528486.D
Acq: 21 Sep 2021 9:45 PM

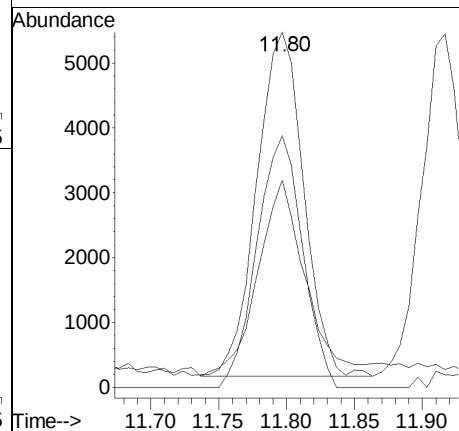
Tgt	Ion	Ratio	Lower	Upper
78	100			
52	19.0	14.2	21.4	

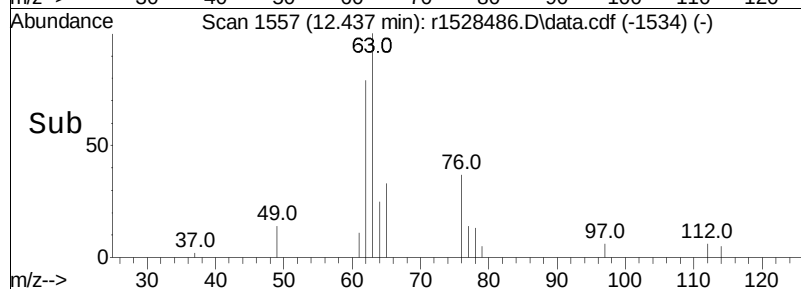
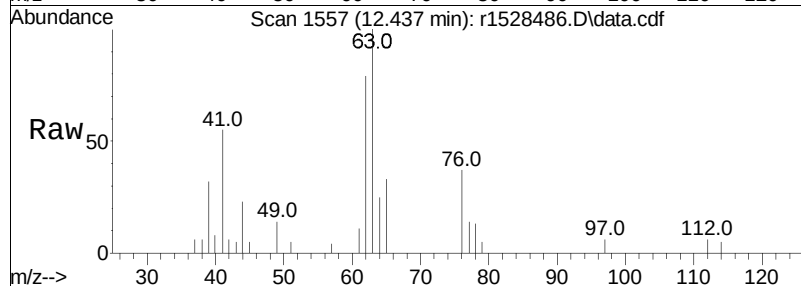
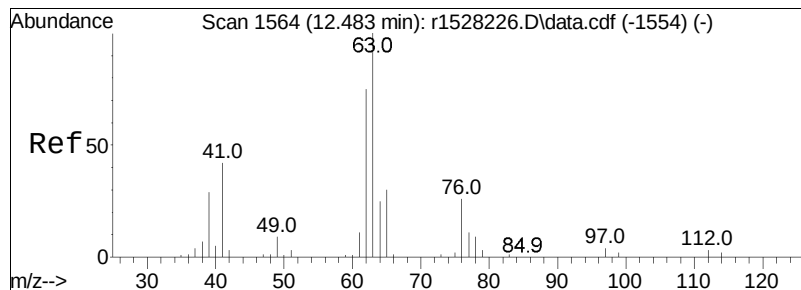




#53
cyclohexane
Concen: 0.28 ppbV
RT: 11.80 min Scan# 1461
Delta R.T. -0.040 min
Lab File: r1528486.D
Acq: 21 Sep 2021 9:45 PM

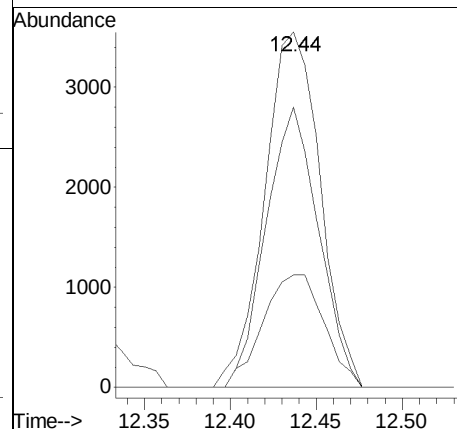
Tgt	Ion: 56	Resp:	12732
Ion	Ratio	Lower	Upper
56	100		
84	70.8	54.9	82.3
41	58.4	34.0	51.0#

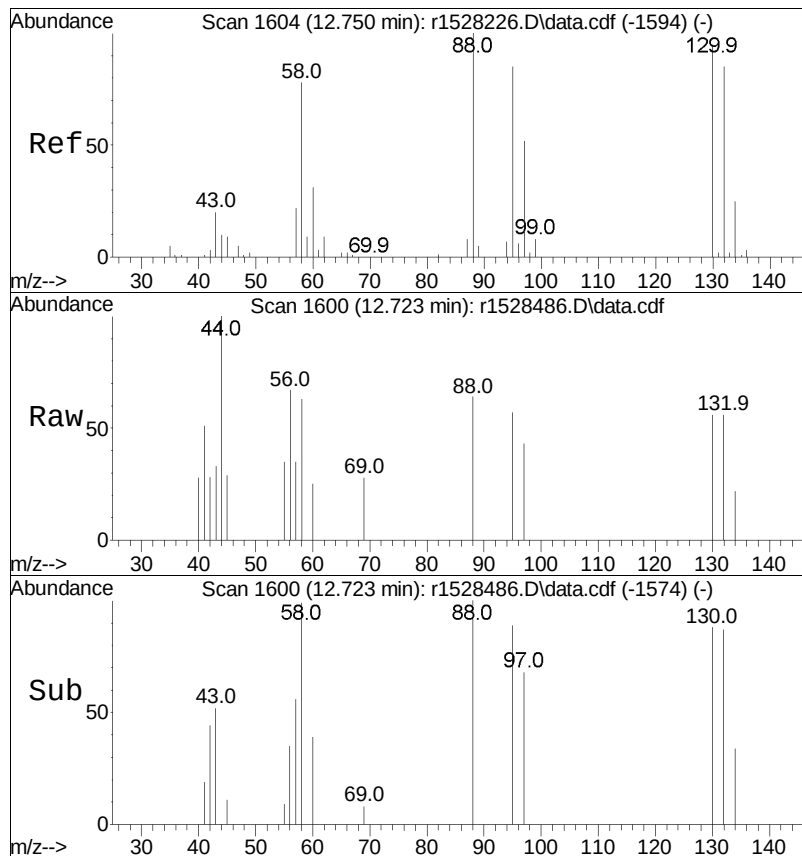




#56
 1,2-dichloropropane
 Concen: 0.30 ppbV
 RT: 12.44 min Scan# 1557
 Delta R.T. -0.047 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

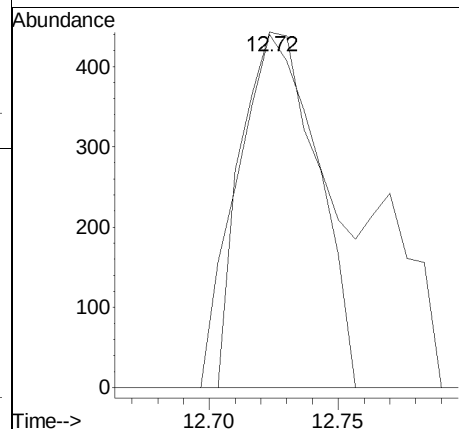
Tgt	Ion	Ratio	Resp	Lower	Upper
63	100		8008		
62	78.9	59.9		89.9	
39	31.6	23.0		34.4	

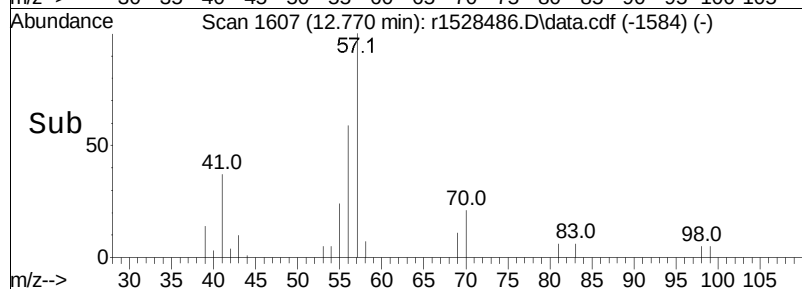
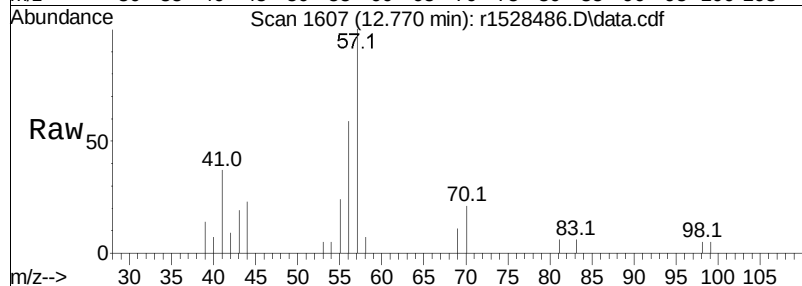
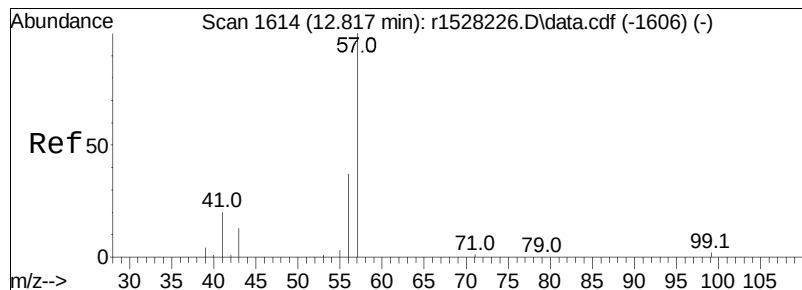




#58
 1,4-dioxane
 Concen: 0.05 ppbV
 RT: 12.72 min Scan# 1600
 Delta R.T. -0.027 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

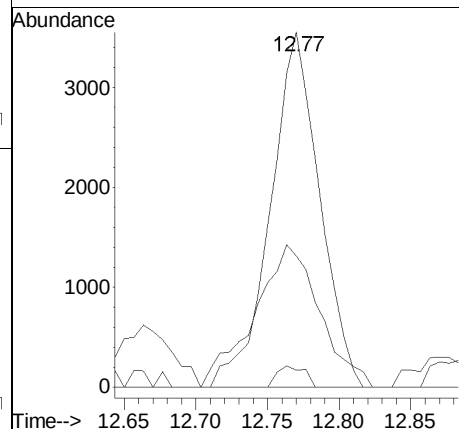
Tgt	Ion	Ratio	Lower	Upper
88	100			
58	99.3	62.8	94.2#	

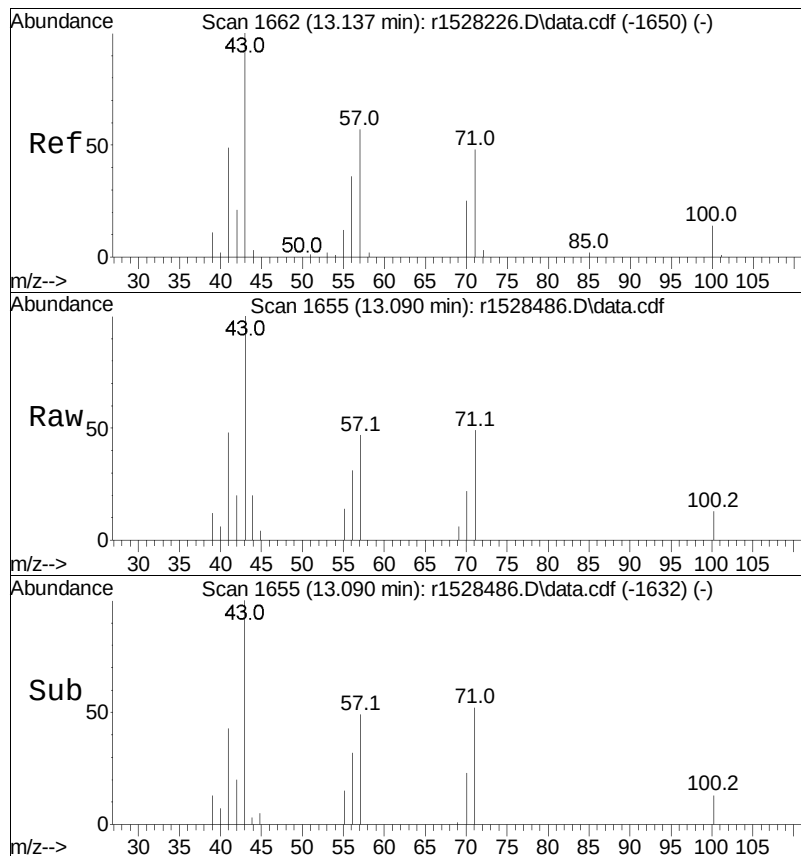




#60
 2,2,4-trimethylpentane
 Concen: 0.06 ppbV
 RT: 12.77 min Scan# 1607
 Delta R.T. -0.047 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

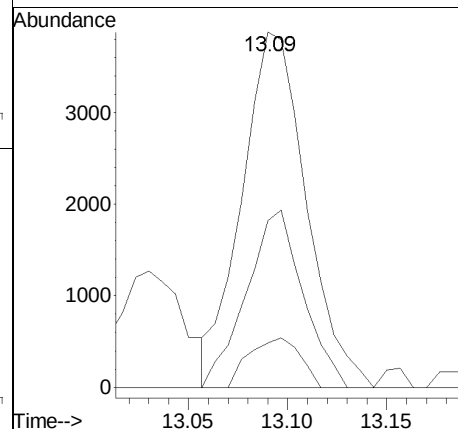
Tgt	Ion	Resp	Lower	Upper
57	100			
99	4.8	3.3	4.9	
41	37.0	16.2	24.2	

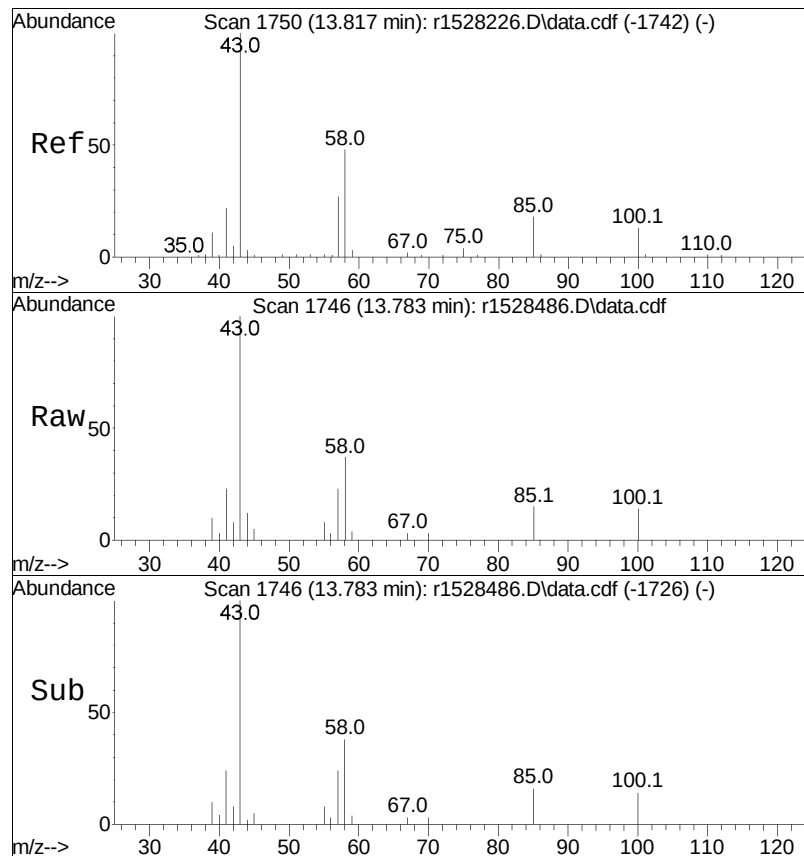




#62
 heptane
 Concen: 0.18 ppbV
 RT: 13.09 min Scan# 1655
 Delta R.T. -0.047 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

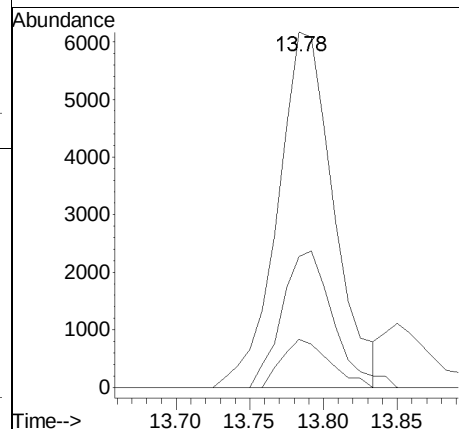
Tgt	Ion: 43	Resp:	8764
Ion	Ratio	Lower	Upper
43	100		
57	47.0	45.5	68.3
100	12.5	11.7	17.5

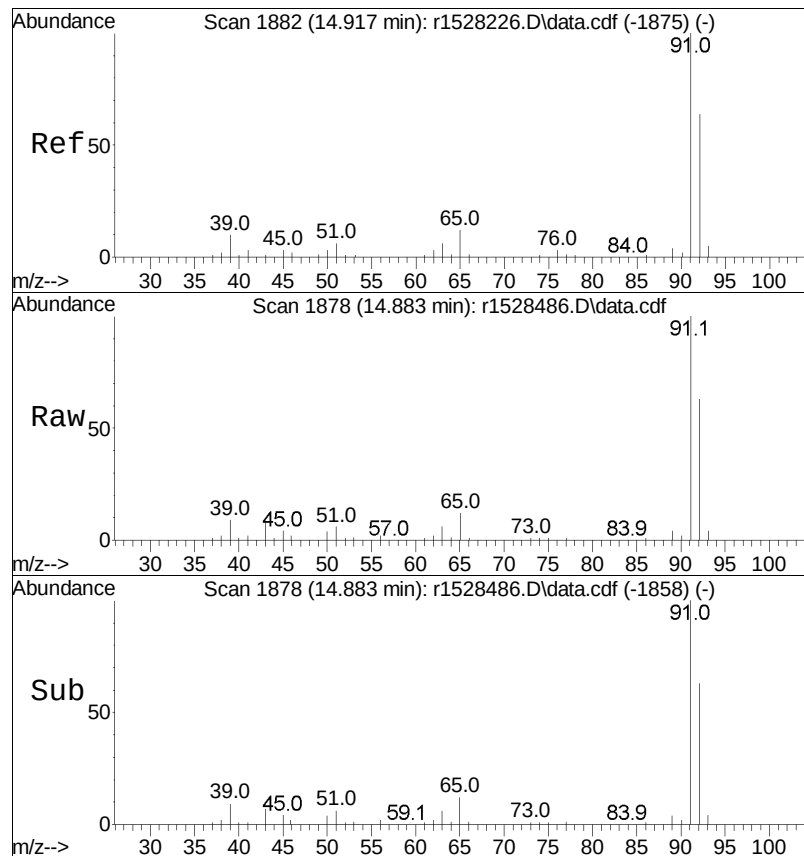




#64
 4-methyl-2-pentanone
 Concen: 0.30 ppbV
 RT: 13.78 min Scan# 1746
 Delta R.T. -0.033 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

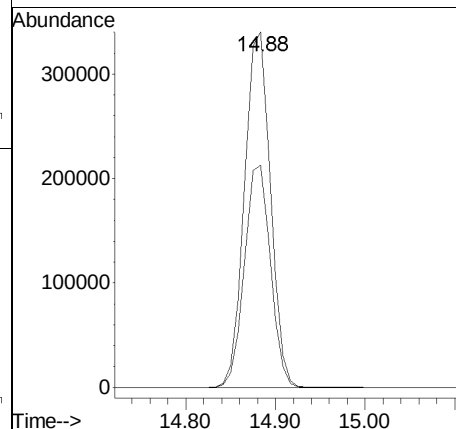
Tgt Ion:	43	58	100	Ratio	Lower	Upper
Resp:	16277					
Ion	100	36.8	13.5		38.5	10.6
					57.7#	16.0

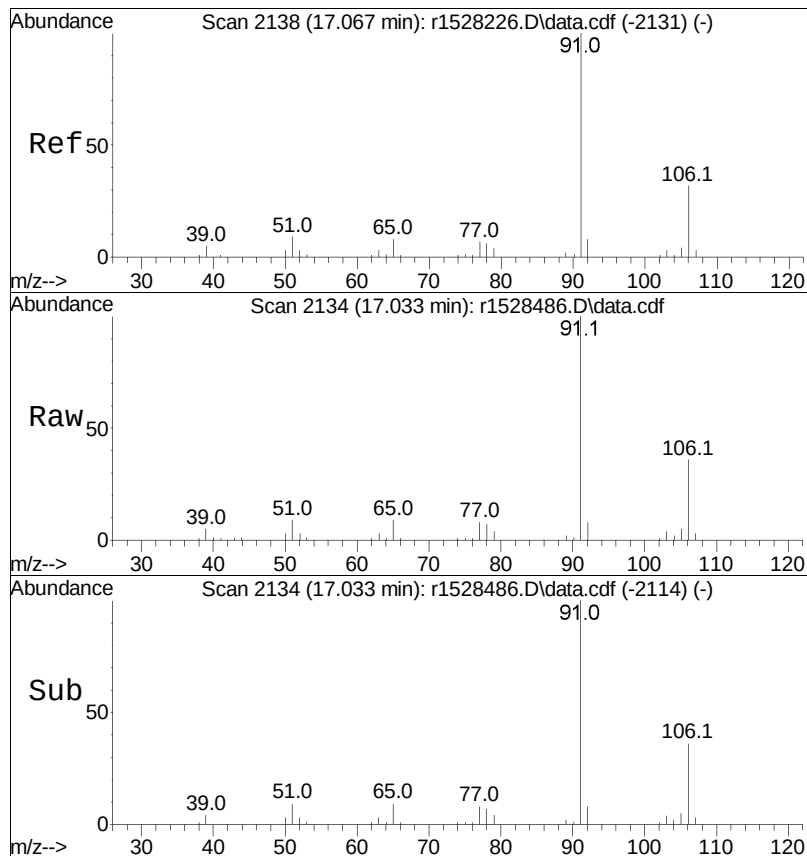




#68
 toluene
 Concen: 8.80 ppbV
 RT: 14.88 min Scan# 1878
 Delta R.T. -0.033 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

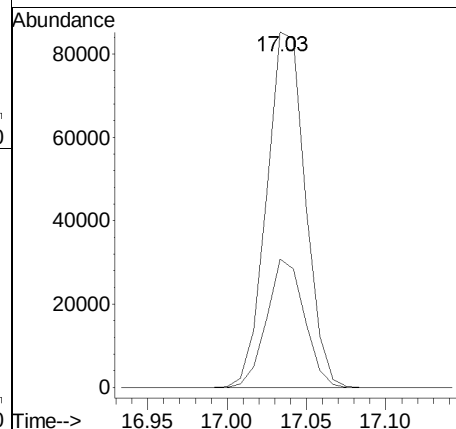
Tgt Ion:	91	92	Ratio	Lower	Upper
Resp:	684510				
Ion Ratio	100	62.5			
			51.6		77.4

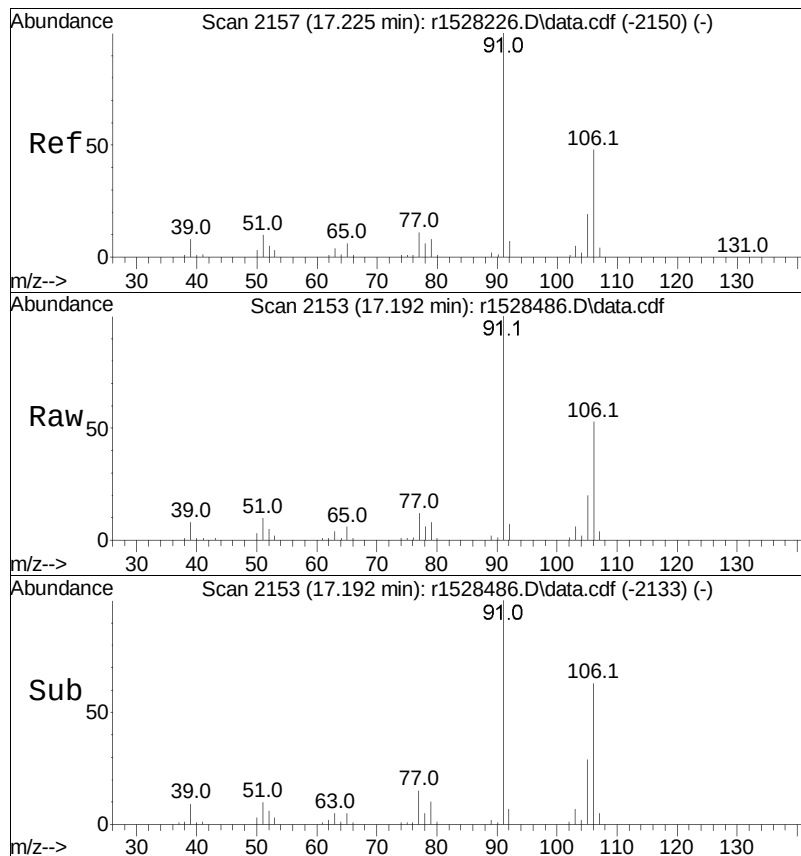




#81
 ethylbenzene
 Concen: 1.53 ppbV
 RT: 17.03 min Scan# 2134
 Delta R.T. -0.033 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

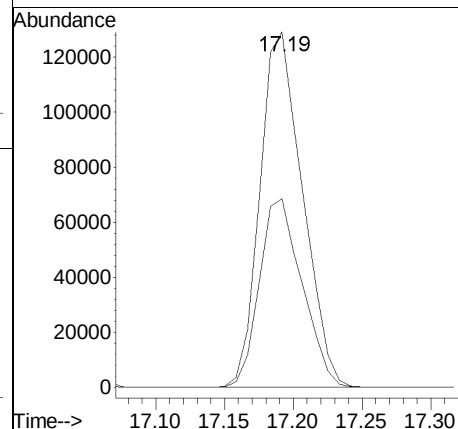
Tgt	Ion	Resp	Lower	Upper
91	100	144230		
106	36.1	25.3	37.9	

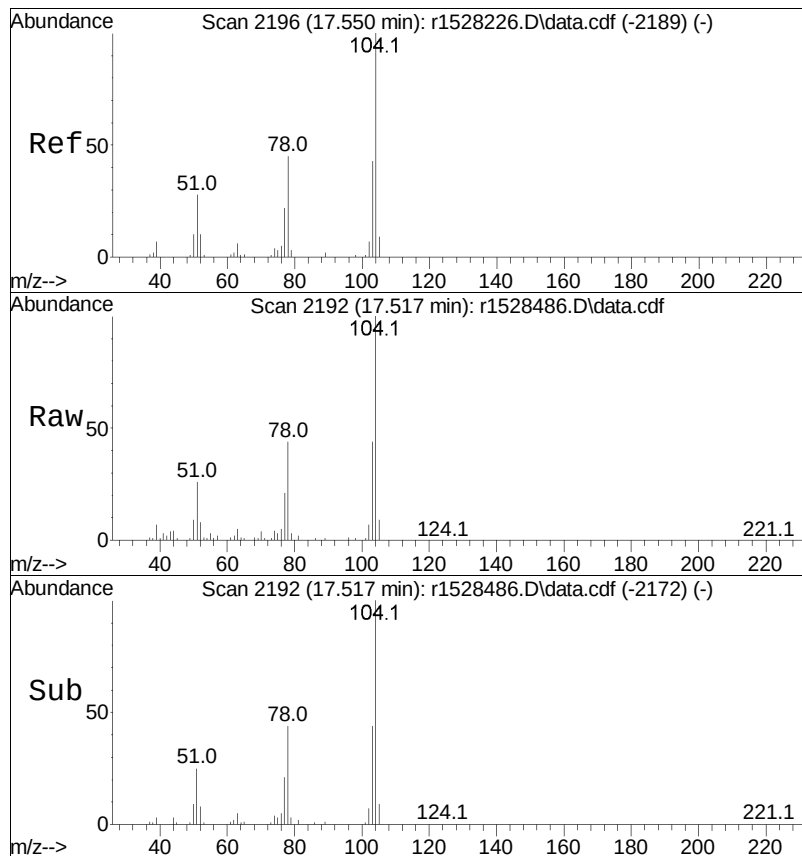




#83
 m+p-xylene
 Concen: 3.71 ppbV
 RT: 17.19 min Scan# 2153
 Delta R.T. -0.033 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

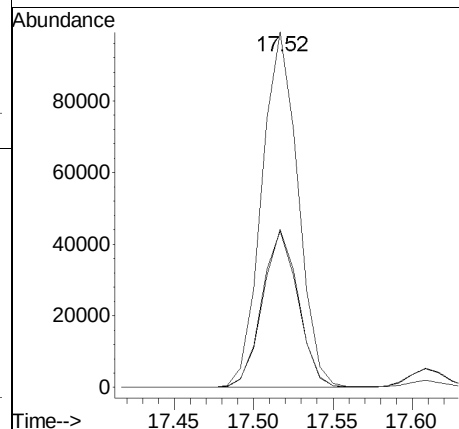
Tgt Ion:	91	106	Ratio	Lower	Upper
Resp:	278147				
Ion Ratio	100	53.1		38.6	58.0

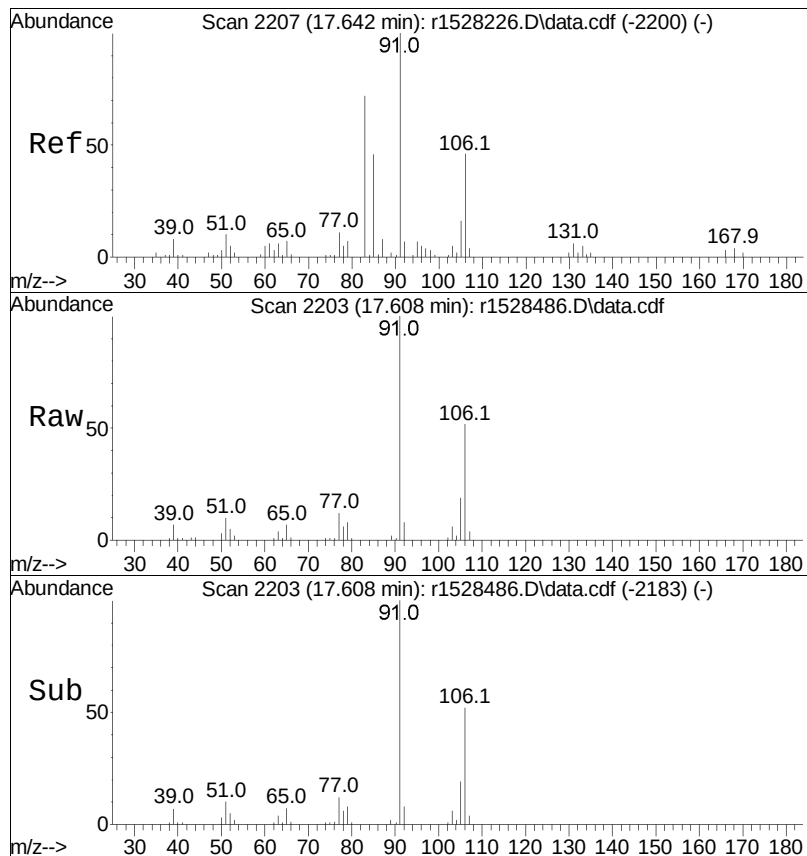




#85
styrene
Concen: 2.79 ppbV
RT: 17.52 min Scan# 2192
Delta R.T. -0.033 min
Lab File: r1528486.D
Acq: 21 Sep 2021 9:45 PM

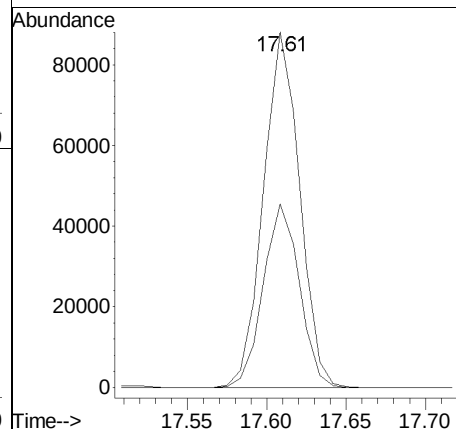
Tgt	Ion:104	Resp:	157325
Ion	Ratio	Lower	Upper
104	100		
103	44.0	34.1	51.1
78	44.5	35.8	53.8

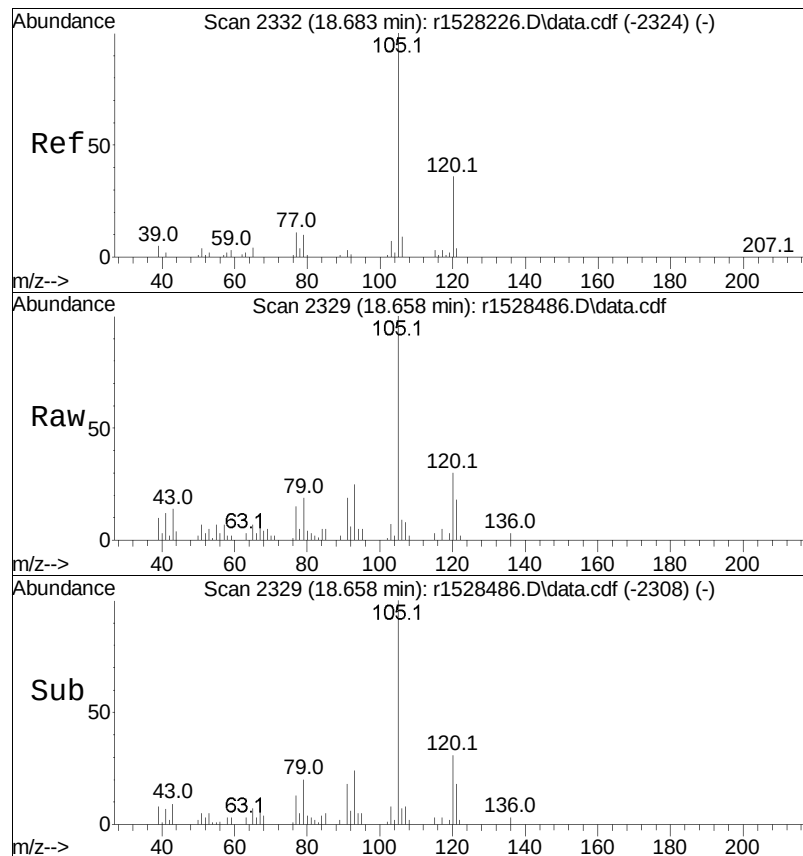




#87
 o-xylene
 Concen: 1.88 ppbV
 RT: 17.61 min Scan# 2203
 Delta R.T. -0.033 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

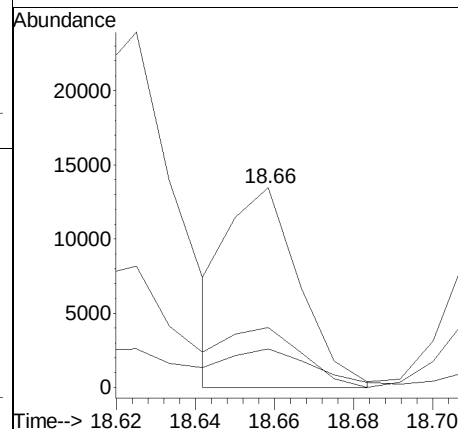
Tgt	Ion	Resp	Lower	Upper
91	100	139469		
106	51.6	36.5	54.7	

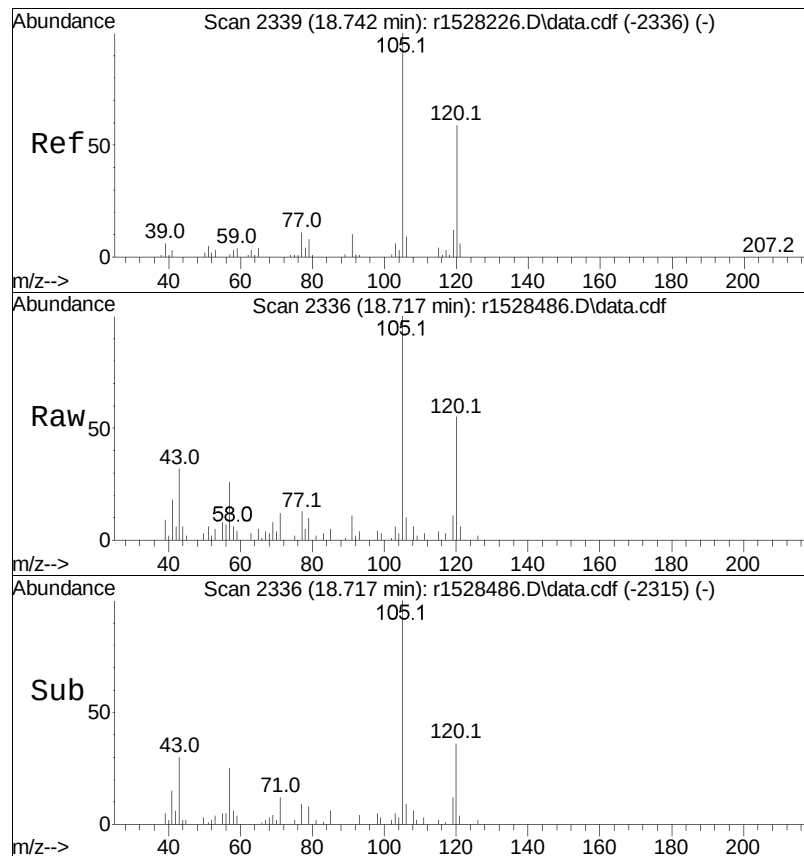




#96
 4-ethyl toluene
 Concen: 0.17 ppbV m
 RT: 18.66 min Scan# 2329
 Delta R.T. -0.025 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

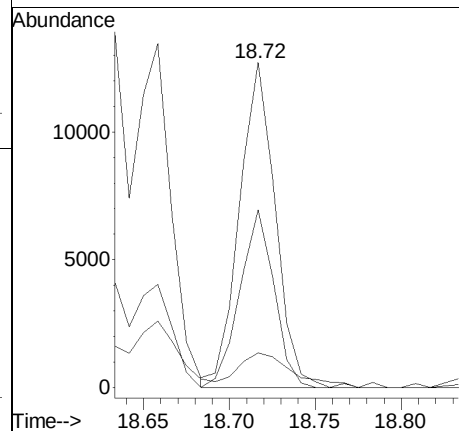
Tgt	Ion:105	Resp:	16898
Ion	Ratio	Lower	Upper
105	100		
120	30.0	29.0	43.6
91	19.3	8.5	12.7#

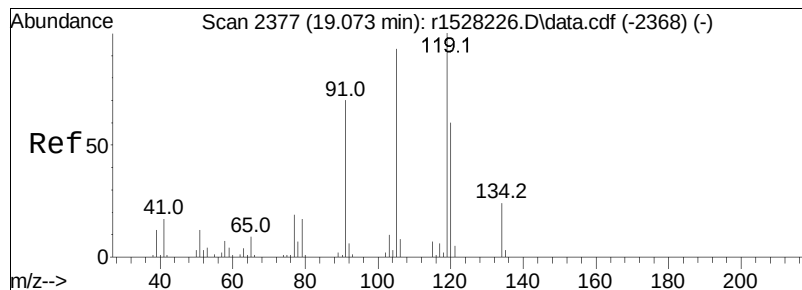




#97
 1,3,5-trimethylbenzene
 Concen: 0.24 ppbV
 RT: 18.72 min Scan# 2336
 Delta R.T. -0.025 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

Tgt	Ion	Ratio	Resp	Lower	Upper
105	105	100	18483		
120	120	54.6		47.4	71.0
91	91	10.6		7.9	11.9





#99

1,2,4-trimethylbenzene

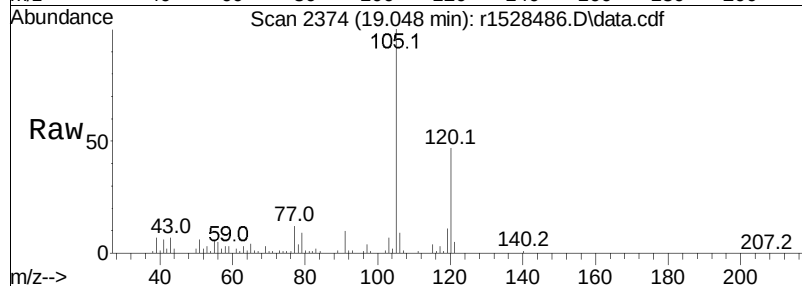
Concen: 1.15 ppbV

RT: 19.05 min Scan# 2374

Delta R.T. -0.025 min

Lab File: r1528486.D

Acq: 21 Sep 2021 9:45 PM



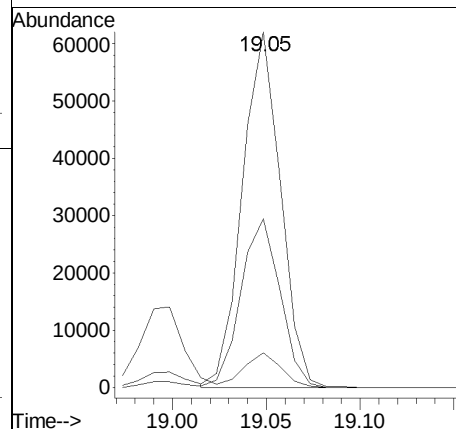
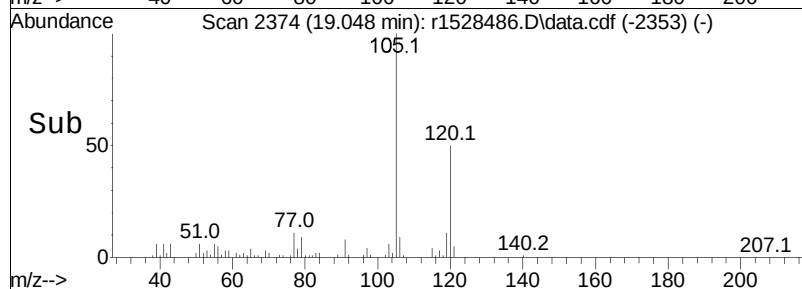
Tgt Ion:105 Resp: 87952

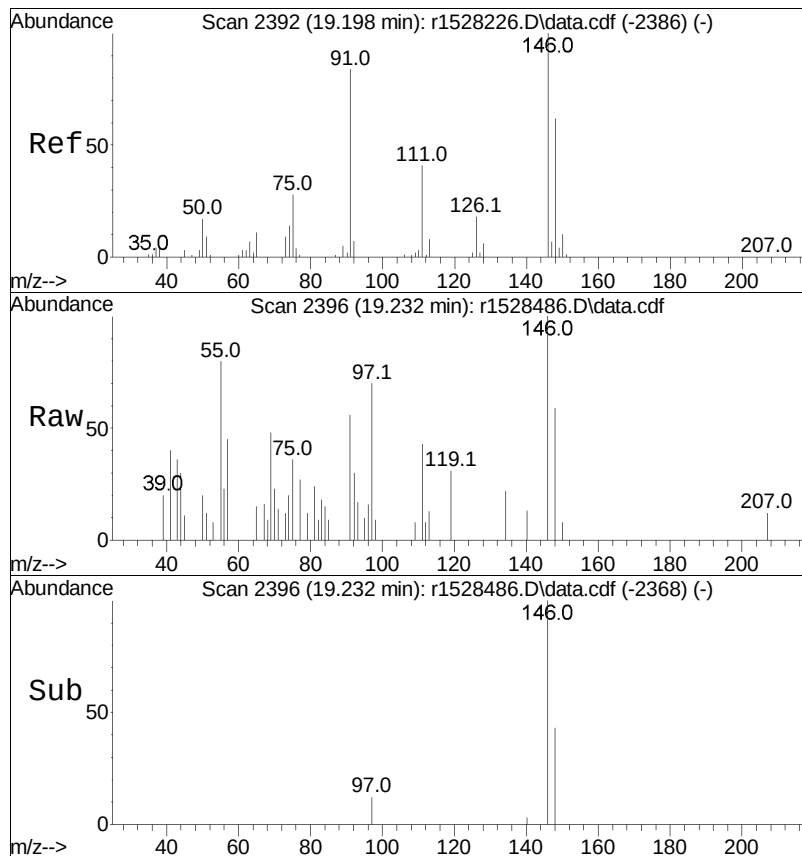
Ion Ratio Lower Upper

105 100

120 47.5 51.8 77.6#

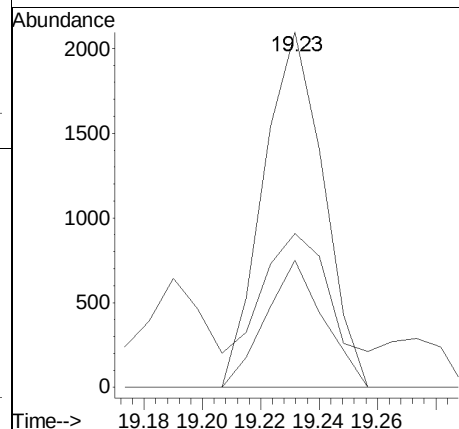
91 9.7 59.5 89.3#





#102
 1,3-dichlorobenzene
 Concen: 0.06 ppbV m
 RT: 19.23 min Scan# 2396
 Delta R.T. 0.033 min
 Lab File: r1528486.D
 Acq: 21 Sep 2021 9:45 PM

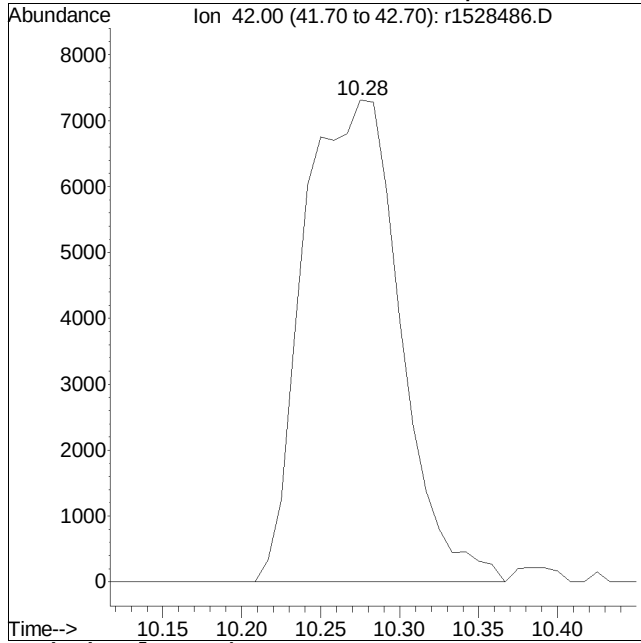
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.3	32.4	48.6
75	35.8	22.2	33.2



Manual Integration/Negative Proof Report

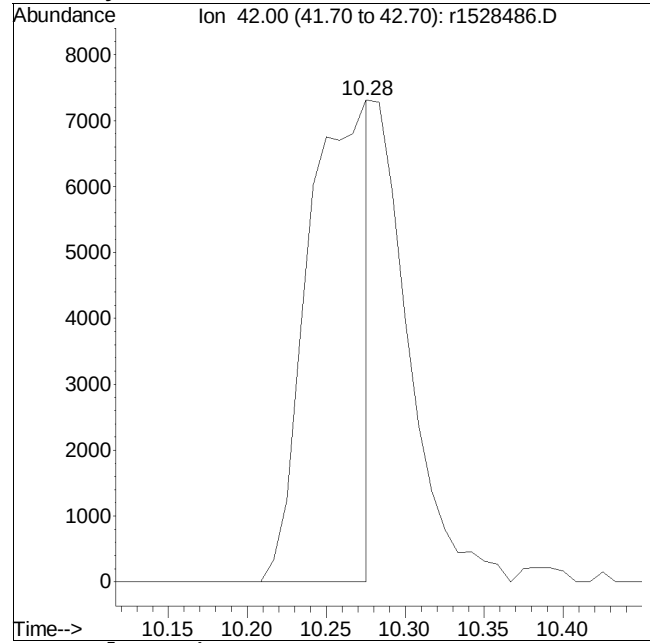
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528486.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:9: 5 Instrument :
Sample : L2150027-02,3,250,250 Quant Date : 9/22/2021 7:23 am

Compound #40: Tetrahydrofuran



Original Peak Response = 31073

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

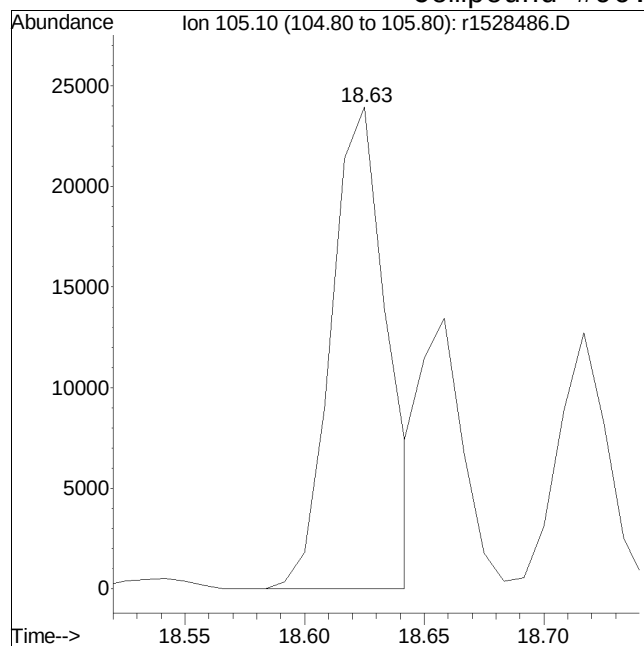


Manual Peak Response = 19444 M6

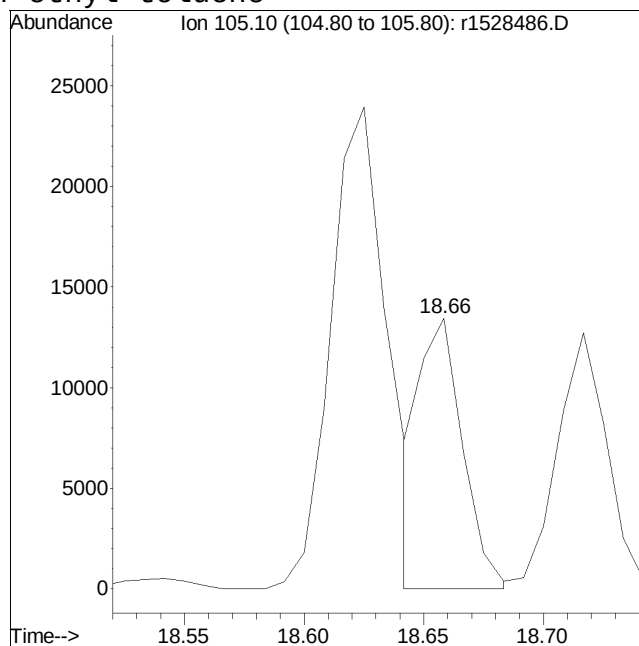
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
 Data File : r1528486.D Operator : AIRLAB15:RY
 Date Inj'd : 9/21/2020 0:9: 5 Instrument :
 Sample : L2150027-02,3,250,250 Quant Date : 9/22/2021 7:23 am

Compound #96: 4-ethyl toluene



Original Peak Response = 38921



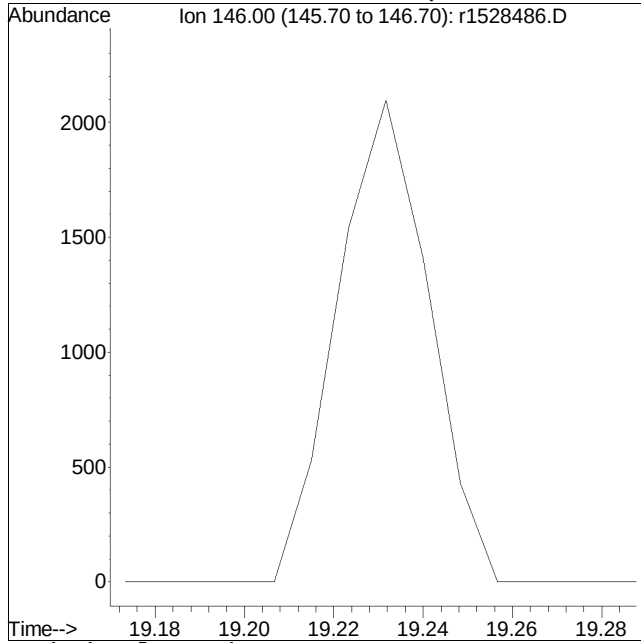
Manual Peak Response = 16898 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration/Negative Proof Report

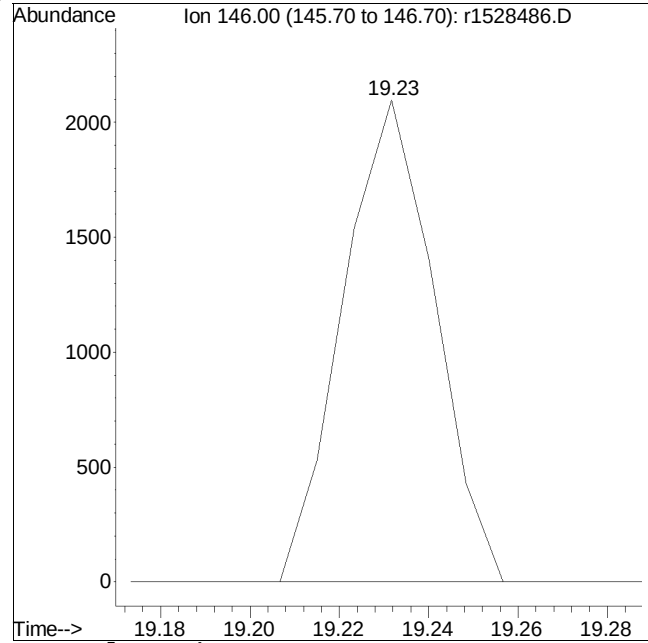
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528486.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:9: 5 Instrument :
Sample : L2150027-02,3,250,250 Quant Date : 9/22/2021 7:23 am

Compound #102: 1,3-dichlorobenzene



Original Peak Response =

M4 = Poor automated baseline construction.



Manual Peak Response = 3004 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528487.D
 Acq On : 21 Sep 2021 10:24 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-03,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:17:56 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.63	49	381631	10.000	ppbV	-0.05
Standard Area = 344610			Recovery =	110.74%		
43) 1,4-difluorobenzene	11.92	114	905283	10.000	ppbV	-0.04
Standard Area = 879831			Recovery =	102.89%		
67) chlorobenzene-D5	16.65	54	172053	10.000	ppbV	-0.03
Standard Area = 155534			Recovery =	110.62%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.99	85	17646	0.622	ppbV	100
6) chloromethane	4.17	50	9400	0.623	ppbV	96
7) Freon-114	4.30		0	N.D.		
10) 1,3-butadiene	4.60		0	N.D.		
13) bromomethane	0.00		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	5.33	31	2777476	235.393	ppbV	88
17) vinyl bromide	5.69		0	N.D.		
19) acetone	5.89	43	671172	26.670	ppbV #	94
21) trichlorofluoromethane	6.11	101	55983	2.222	ppbV	91
22) isopropyl alcohol	6.25	45	11904933	401.923	ppbV	99
27) tertiary butyl alcohol	6.97	59	10116	0.297	ppbV #	51
28) methylene chloride	7.05	49	41022	2.216	ppbV	97
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	7.35	76	3586	0.075	ppbV #	1
31) Freon 113	7.39	101	1925	0.065	ppbV	94
32) trans-1,2-dichloroethene	8.20		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	8.53		0	N.D.		
36) 2-butanone	8.92	43	80950	1.733	ppbV	98
38) Ethyl Acetate	9.73	61	10738	1.227	ppbV	83
39) chloroform	9.79	83	7330	0.224	ppbV #	91
40) Tetrahydrofuran	10.28	42	16740M6	0.560	ppbV	
42) 1,2-dichloroethane	10.65	62	64900	2.932	ppbV	94
44) hexane	9.71	57	7611	0.172	ppbV	90
50) benzene	11.48	78	8311	0.116	ppbV	100
53) cyclohexane	11.80	56	11423	0.237	ppbV #	88

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528487.D
 Acq On : 21 Sep 2021 10:24 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-03,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:17:56 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1,2-dichloropropane	12.44	63	7846	0.285	ppbV	97
57) bromodichloromethane	0.00		0	N.D.	d	
58) 1,4-dioxane	12.73		0	N.D.		
60) 2,2,4-trimethylpentane	12.77	57	8198	0.056	ppbV #	71
62) heptane	13.10	43	8166	0.164	ppbV	90
63) cis-1,3-dichloropropene	0.00		0	N.D.		
64) 4-methyl-2-pentanone	13.79	43	14905	0.264	ppbV #	88
65) trans-1,3-dichloropropene	0.00		0	N.D.		
66) 1,1,2-trichloroethane	0.00		0	N.D.		
68) toluene	14.88	91	633039	7.934	ppbV	98
72) 2-hexanone	15.16	43	4209	0.086	ppbV #	43
74) dibromochloromethane	0.00		0	N.D.		
75) 1,2-dibromoethane	0.00		0	N.D.		
80) chlorobenzene	0.00		0	N.D.	d	
81) ethylbenzene	17.04	91	135646	1.404	ppbV	92
83) m+p-xylene	17.19	91	257677	3.352	ppbV	91
84) bromoform	0.00		0	N.D.		
85) styrene	17.52	104	147888	2.559	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.65		0	N.D.		
87) o-xylene	17.61	91	132184	1.741	ppbV	93
96) 4-ethyl toluene	18.66	105	16423M3	0.161	ppbV	
97) 1,3,5-trimethylbenzene	18.72	105	16831	0.210	ppbV	94
99) 1,2,4-trimethylbenzene	19.05	105	83813	1.065	ppbV #	50
101) Benzyl Chloride	0.00		0	N.D.	d	
102) 1,3-dichlorobenzene	19.23	146	2689	0.051	ppbV	92
103) 1,4-dichlorobenzene	0.00		0	N.D.	d	
107) 1,2-dichlorobenzene	19.51		0	N.D.		
115) 1,2,4-trichlorobenzene	0.00		0	N.D.		
119) hexachlorobutadiene	0.00		0	N.D.		

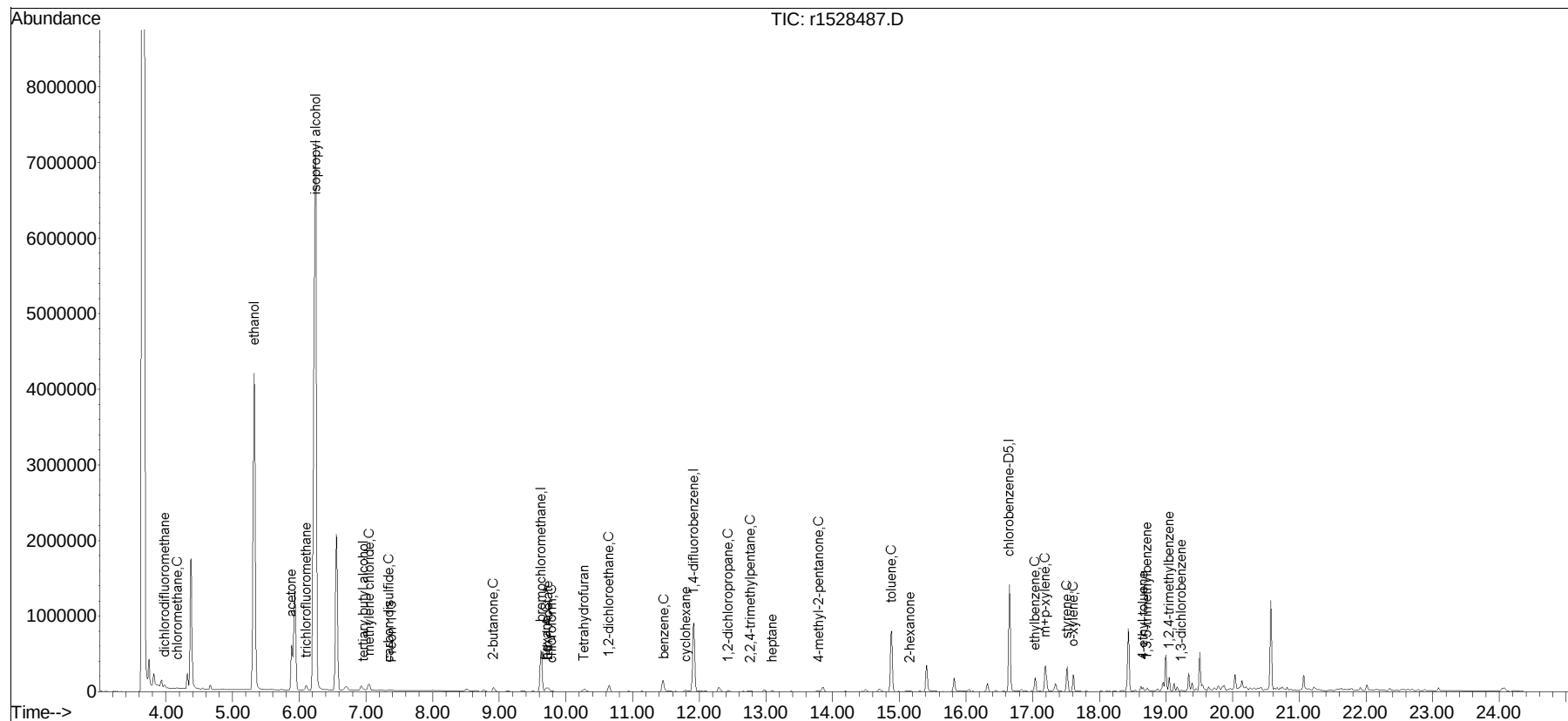
(#) = qualifier out of range (m) = manual integration (+) = signals summed

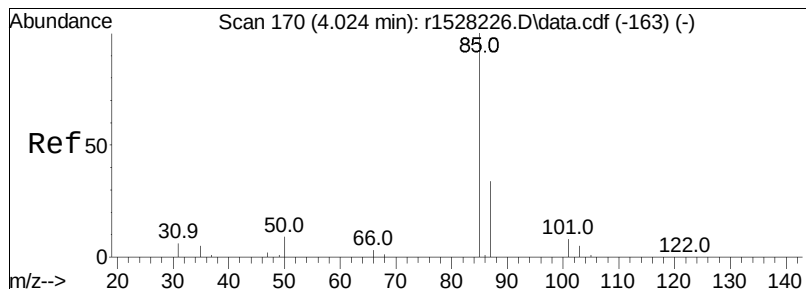
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528487.D
 Acq On : 21 Sep 2021 10:24 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-03,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:17:56 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

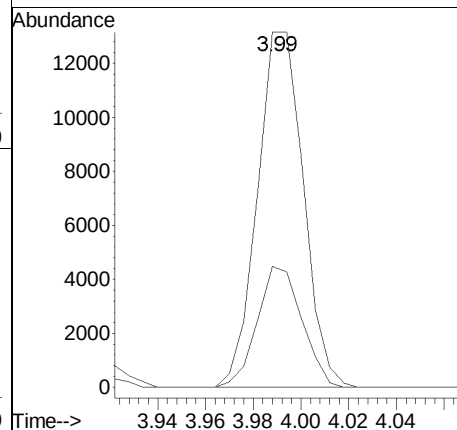
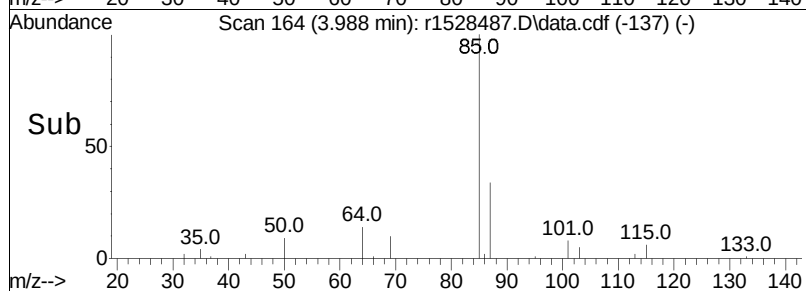
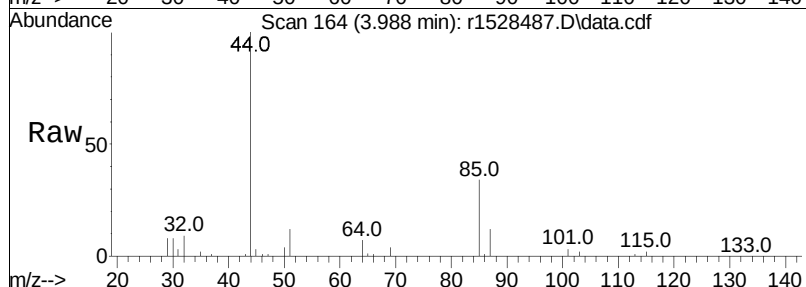
Sub List : T015-NY-7-SIM - .\Airlab15\2021\09\0921T\r1528475.D

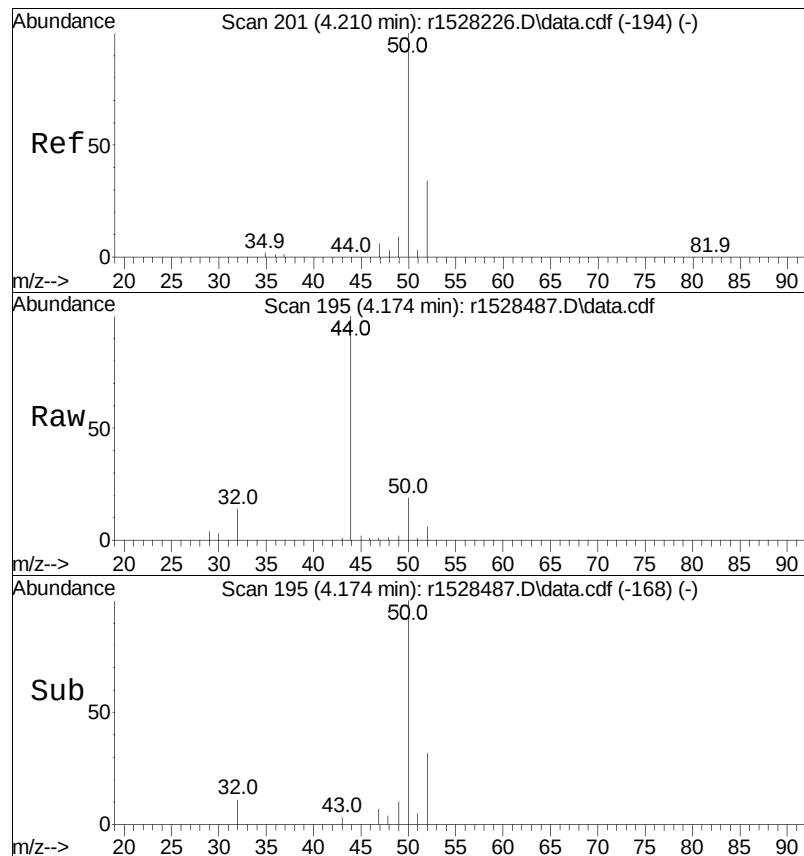




#5
dichlorodifluoromethane
Concen: 0.62 ppbV
RT: 3.99 min Scan# 164
Delta R.T. -0.036 min
Lab File: r1528487.D
Acq: 21 Sep 2021 10:24 PM

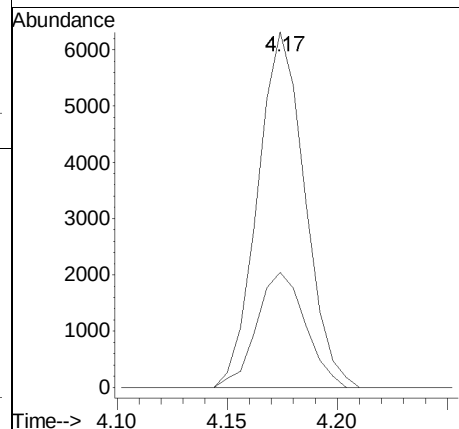
Tgt Ion: 85 Resp: 17646
Ion Ratio Lower Upper
85 100
87 34.0 27.1 40.7

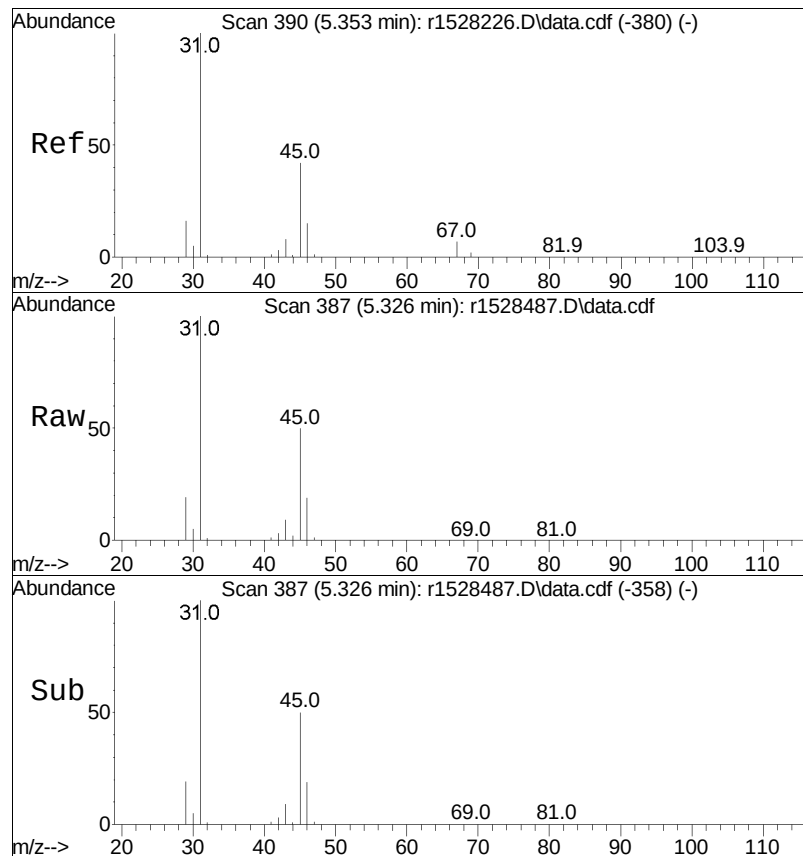




#6
 chloromethane
 Concen: 0.62 ppbV
 RT: 4.17 min Scan# 195
 Delta R.T. -0.036 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

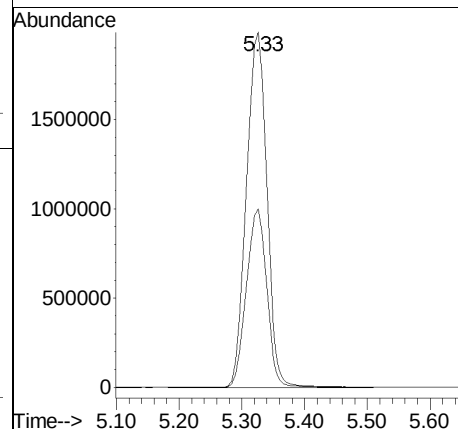
Tgt Ion:	50	Resp:	9400
Ion Ratio	Lower	Upper	
50	100		
52	32.4	27.6	41.4

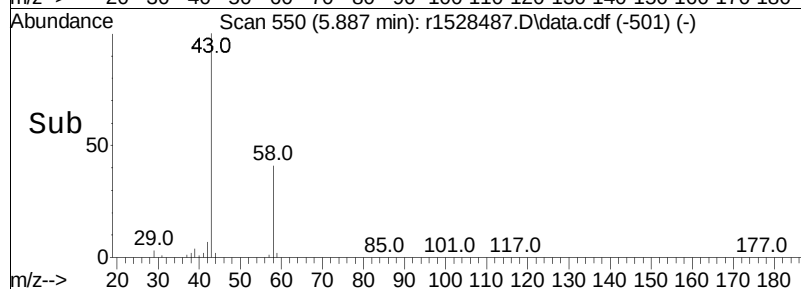
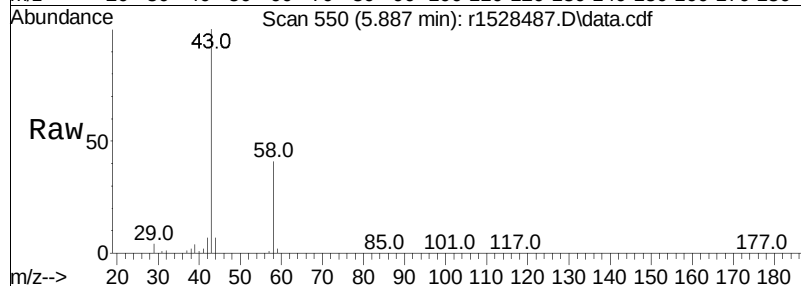
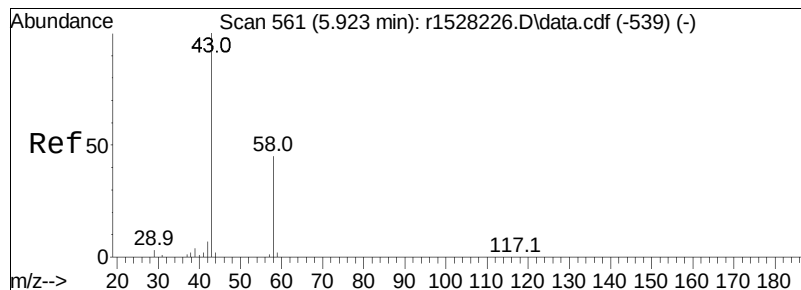




#15
ethanol
Concen: 235.39 ppbV
RT: 5.33 min Scan# 387
Delta R.T. -0.027 min
Lab File: r1528487.D
Acq: 21 Sep 2021 10:24 PM

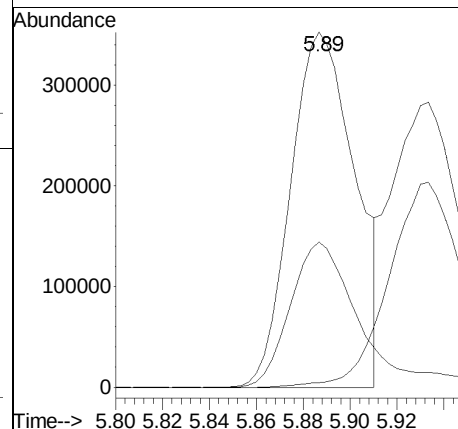
Tgt Ion:	31	Resp:	2777476
Ion Ratio	100	Lower	Upper
45	50.3	34.0	51.0

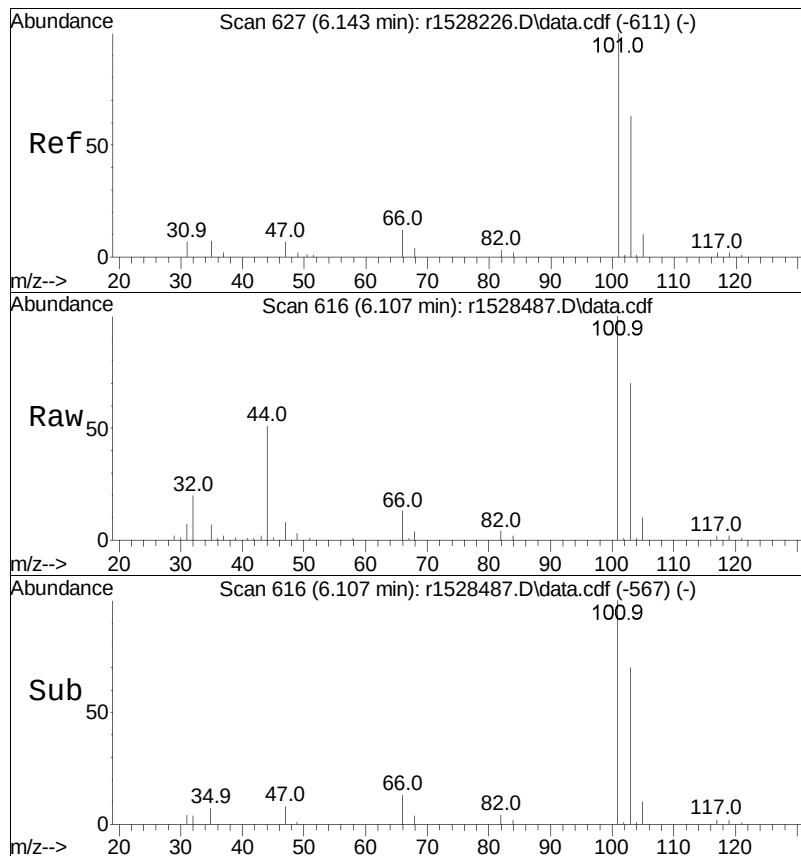




#19
acetone
Concen: 26.67 ppbV
RT: 5.89 min Scan# 550
Delta R.T. -0.037 min
Lab File: r1528487.D
Acq: 21 Sep 2021 10:24 PM

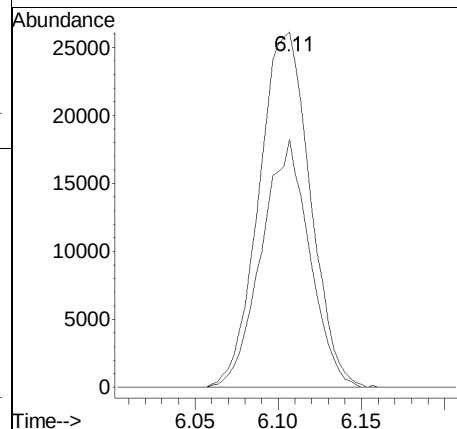
Tgt	Ion	Ratio	Resp	Lower	Upper
43	100		671172		
58	40.9	36.2		54.2	
57	1.4	0.9		1.3#	

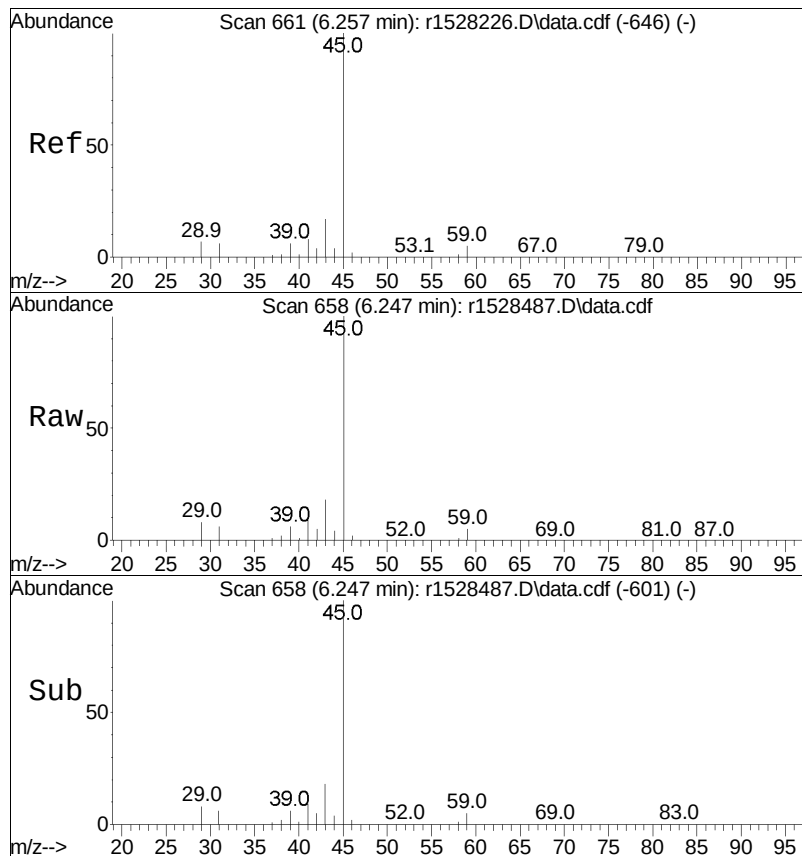




#21
trichlorofluoromethane
Concen: 2.22 ppbV
RT: 6.11 min Scan# 616
Delta R.T. -0.037 min
Lab File: r1528487.D
Acq: 21 Sep 2021 10:24 PM

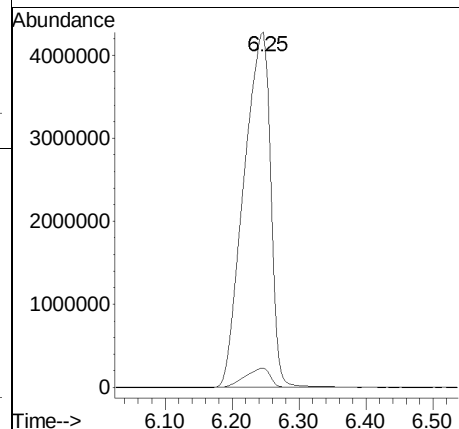
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	69.8	50.2	75.4	

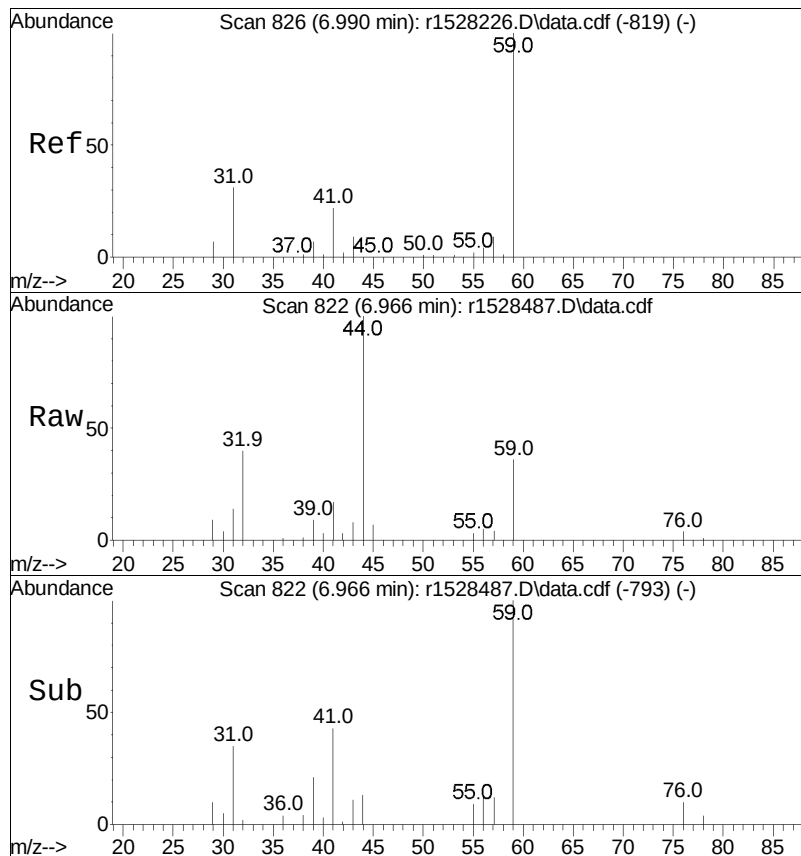




#22
 isopropyl alcohol
 Concen: 401.92 ppbV
 RT: 6.25 min Scan# 658
 Delta R.T. -0.010 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

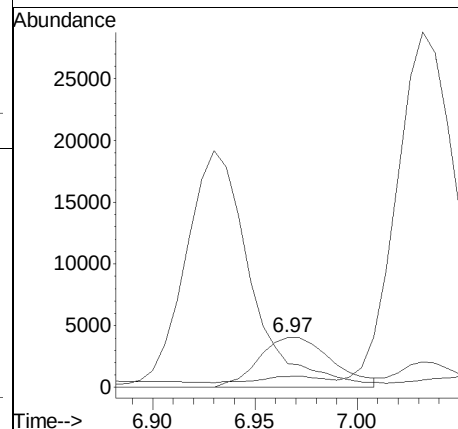
Tgt Ion	Ratio	Lower	Upper
45	100		
59	5.4	4.2	6.2

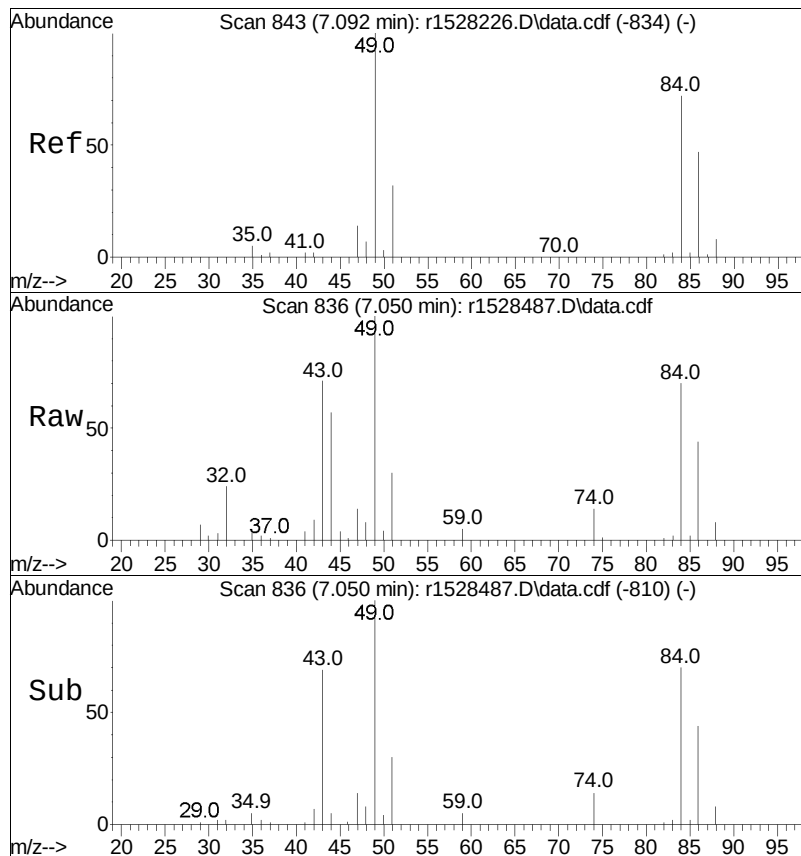




#27
 tertiary butyl alcohol
 Concen: 0.30 ppbV
 RT: 6.97 min Scan# 822
 Delta R.T. -0.024 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

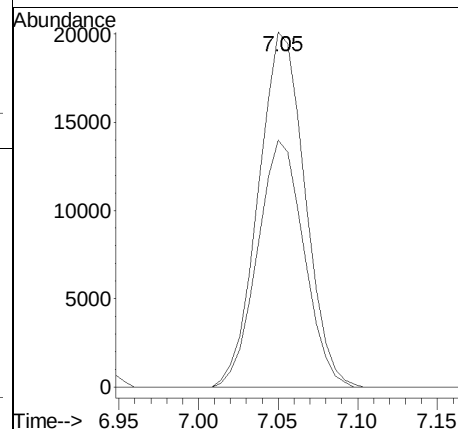
Tgt Ion:	59	Resp:	10116
Ion Ratio	Lower	Upper	
59	100		
41	47.8	17.4	26.0#
43	21.7	7.3	10.9#

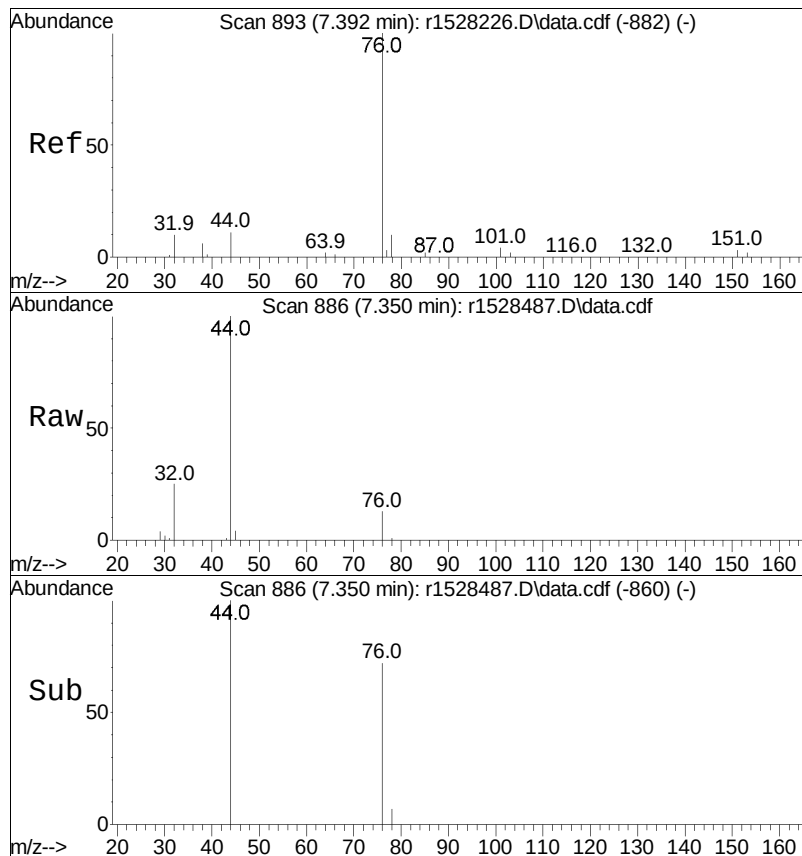




#28
 methylene chloride
 Concen: 2.22 ppbV
 RT: 7.05 min Scan# 836
 Delta R.T. -0.042 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

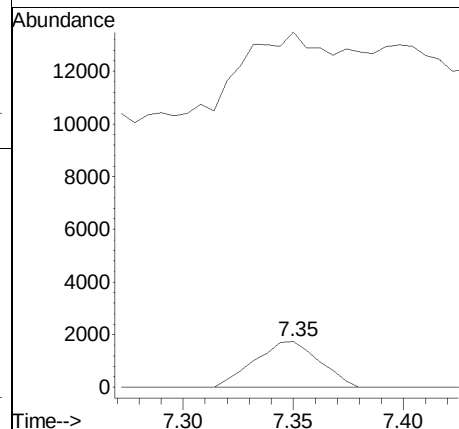
Tgt Ion:	49	84	Ratio	100	69.6	Resp:	41022	Lower	57.4	Upper	86.0
Ion	49	84	Ratio	100	69.6	Resp:	41022	Lower	57.4	Upper	86.0

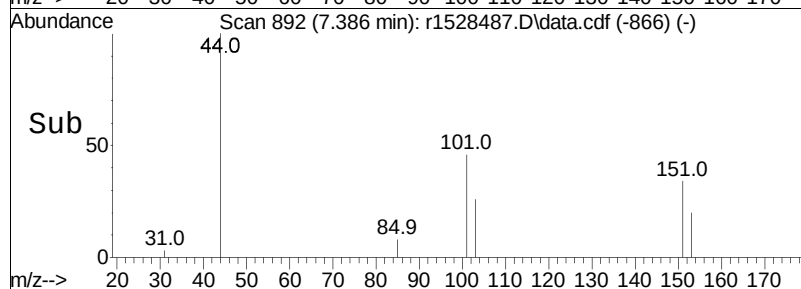
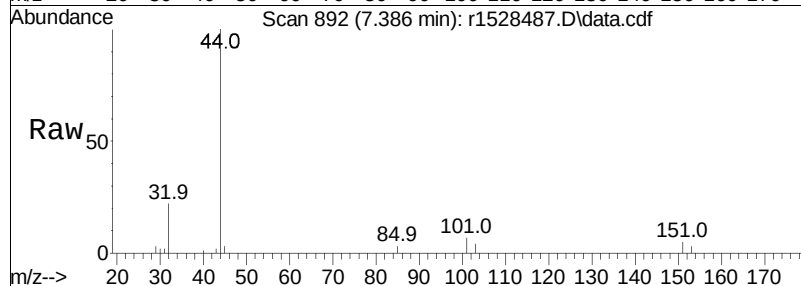
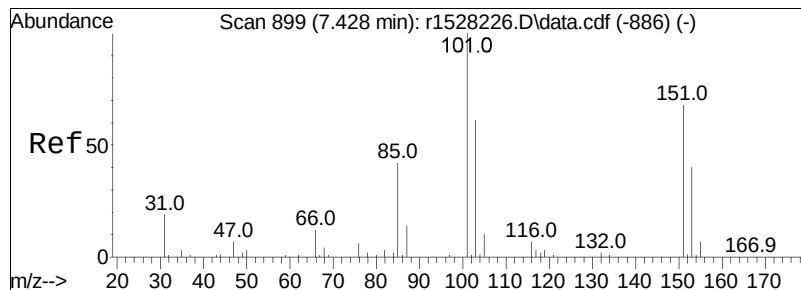




#30
 carbon disulfide
 Concen: 0.07 ppbV
 RT: 7.35 min Scan# 886
 Delta R.T. -0.042 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

Tgt	Ion	Resp	Lower	Upper
76	100	3586		
44	772.0	8.8	13.2#	





#31

Freon 113

Concen: 0.06 ppbV

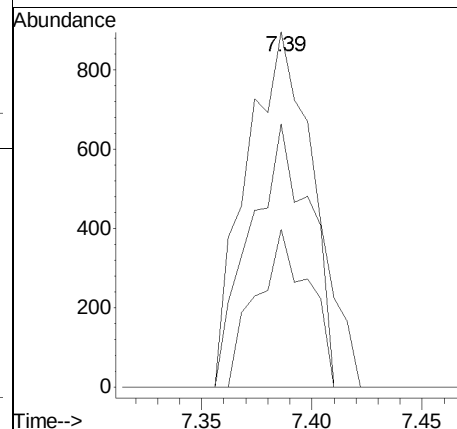
RT: 7.39 min Scan# 892

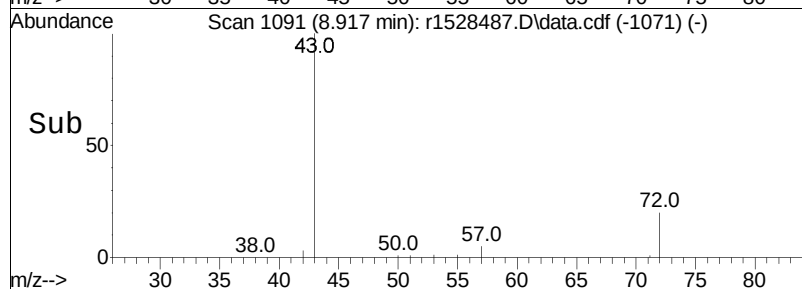
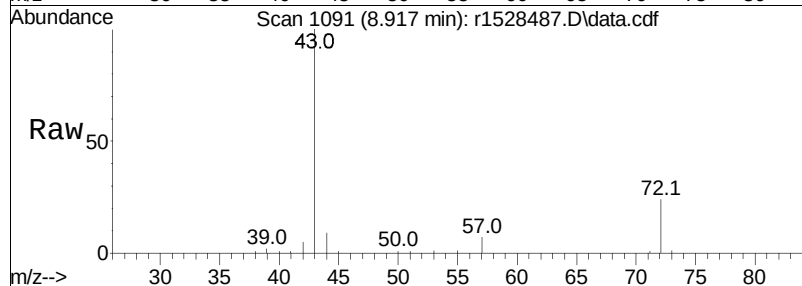
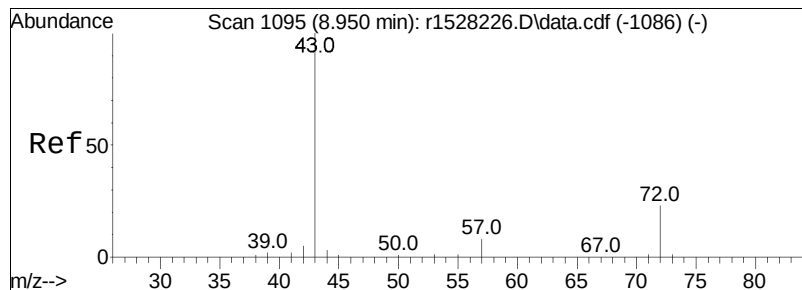
Delta R.T. -0.042 min

Lab File: r1528487.D

Acq: 21 Sep 2021 10:24 PM

Tgt	Ion:101	Resp:	1925
Ion	Ratio	Lower	Upper
101	100		
85	44.5	33.5	50.3
151	74.1	54.3	81.5





#36

2-butanone

Concen: 1.73 ppbV

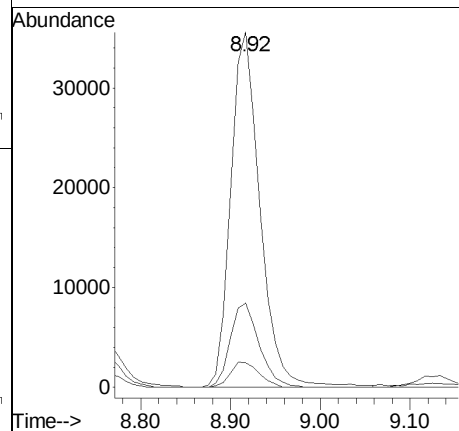
RT: 8.92 min Scan# 1091

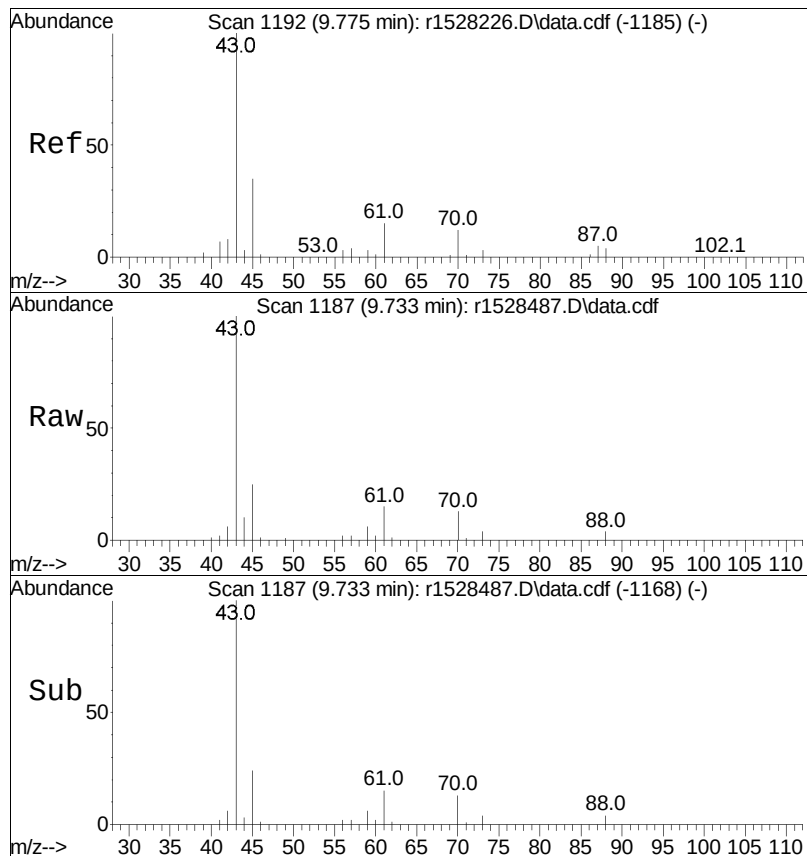
Delta R.T. -0.033 min

Lab File: r1528487.D

Acq: 21 Sep 2021 10:24 PM

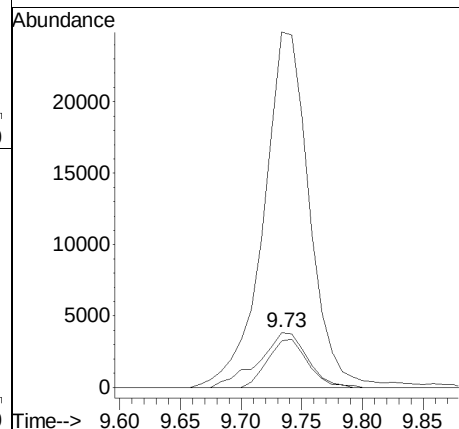
Tgt Ion:	43	Resp:	80950
Ion Ratio	Lower	Upper	
43	100		
72	23.7	18.3	27.5
57	6.9	6.6	10.0

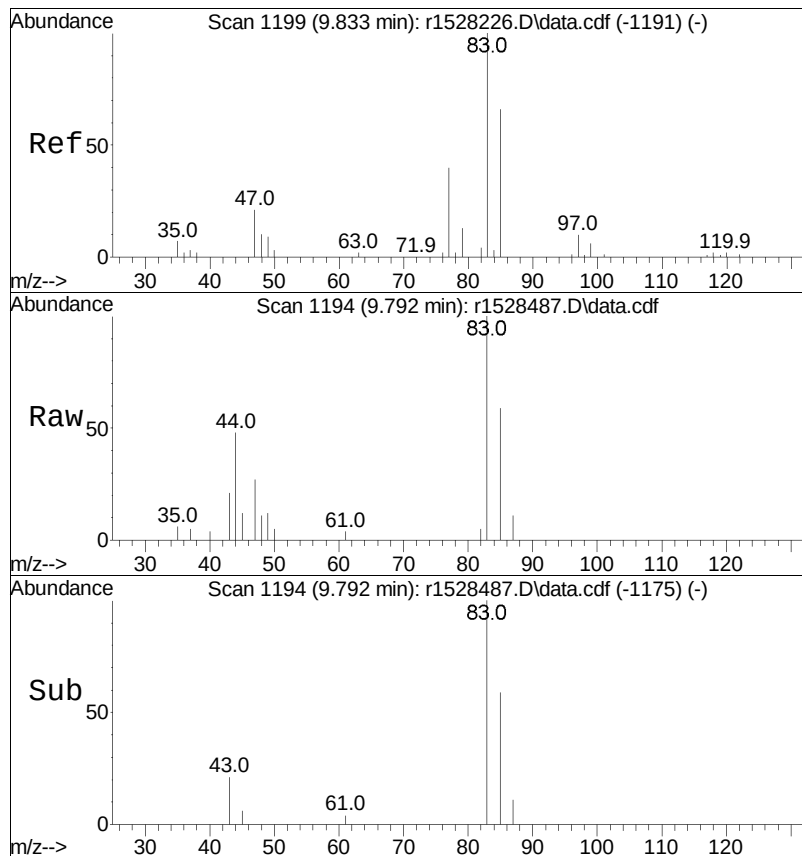




#38
Ethyl Acetate
Concen: 1.23 ppbV
RT: 9.73 min Scan# 1187
Delta R.T. -0.042 min
Lab File: r1528487.D
Acq: 21 Sep 2021 10:24 PM

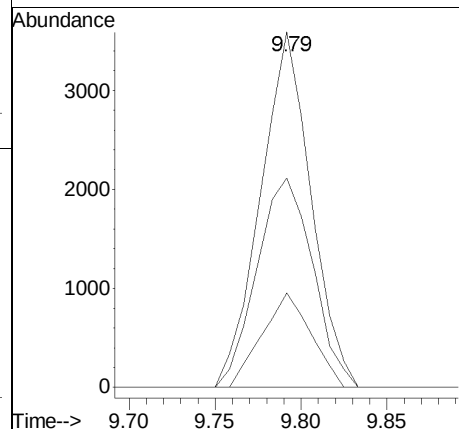
Tgt	Ion	Resp	Lower	Upper
61	100	10738		
70	85.0		61.9	92.9
43	649.5		568.7	853.1

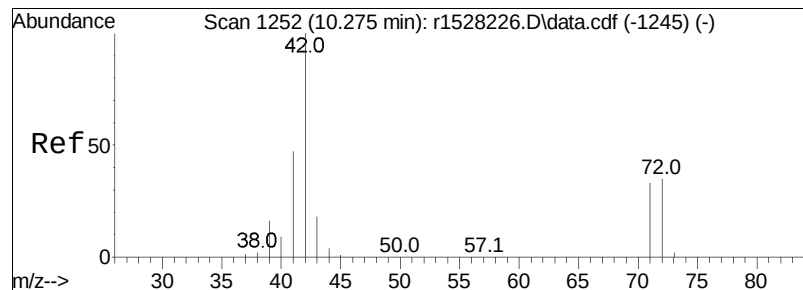




#39
 chloroform
 Concen: 0.22 ppbV
 RT: 9.79 min Scan# 1194
 Delta R.T. -0.042 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

Tgt	Ion: 83	Resp:	7330
Ion	Ratio	Lower	Upper
83	100		
85	58.9	52.9	79.3
47	26.5	17.4	26.0#





#40

Tetrahydrofuran

Concen: 0.56 ppbV m

RT: 10.28 min Scan# 1252

Delta R.T. 0.000 min

Lab File: r1528487.D

Acq: 21 Sep 2021 10:24 PM

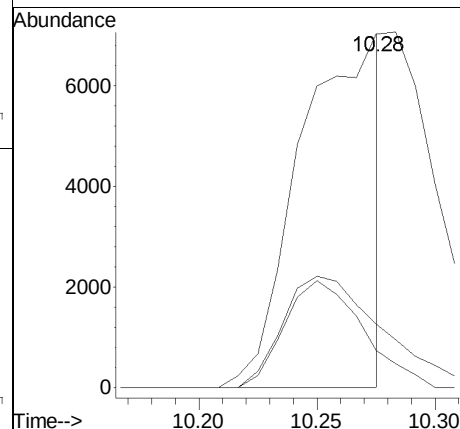
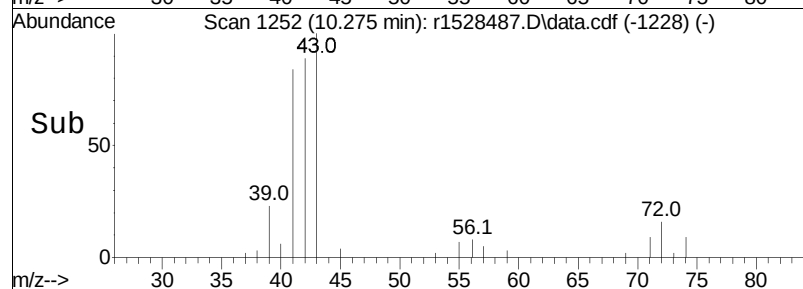
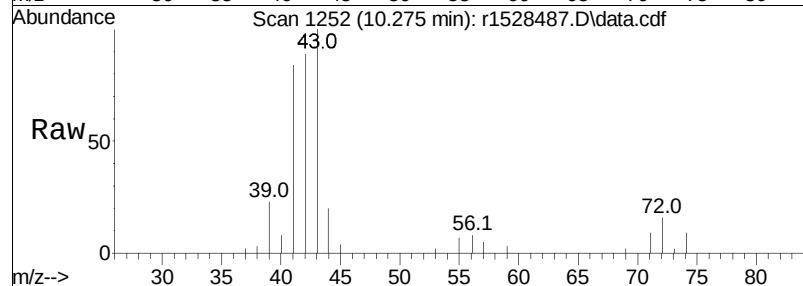
Tgt Ion: 42 Resp: 16740

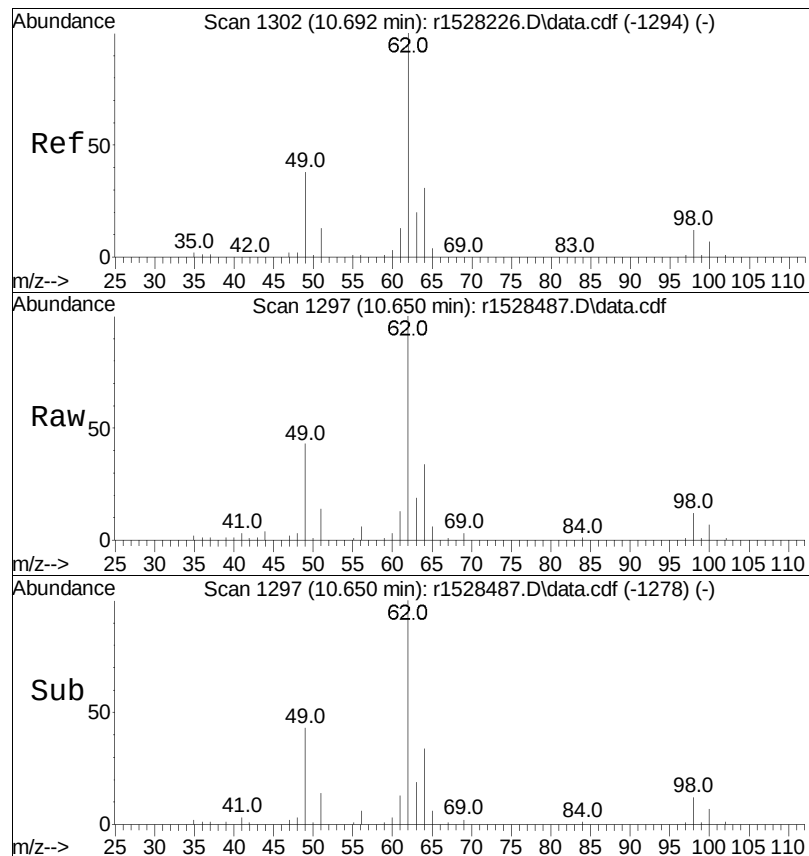
Ion Ratio Lower Upper

42 100

71 10.5 26.8 40.2#

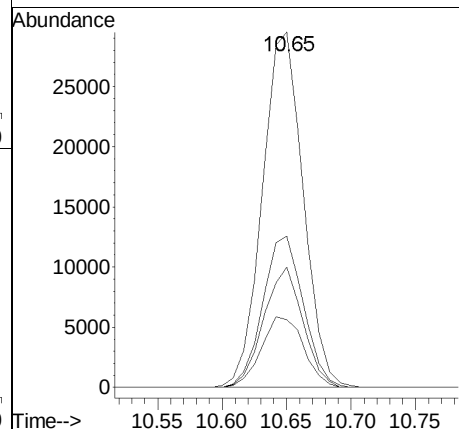
72 18.0 27.9 41.9#

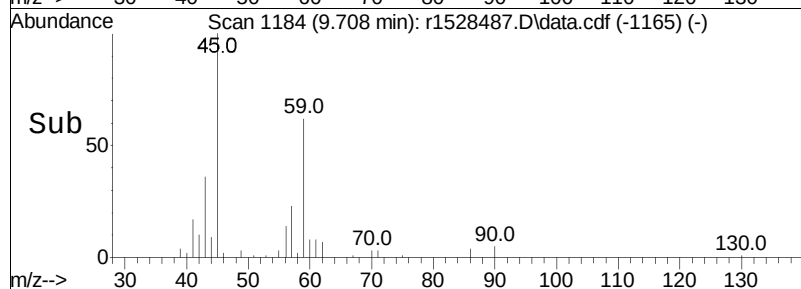
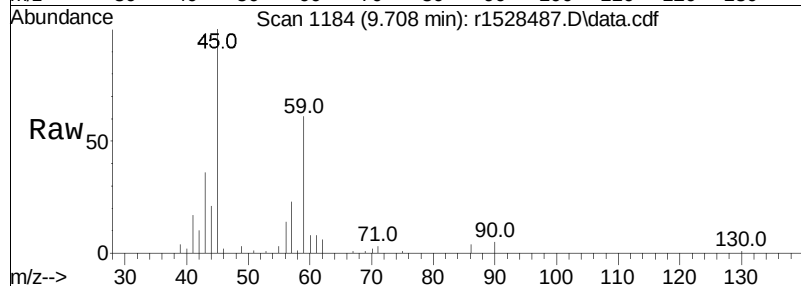
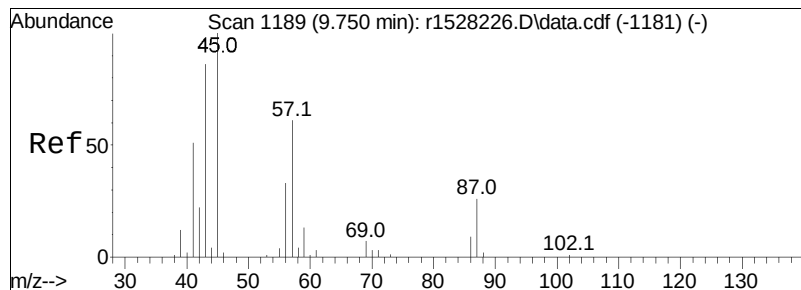




#42
 1,2-dichloroethane
 Concen: 2.93 ppbV
 RT: 10.65 min Scan# 1297
 Delta R.T. -0.042 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

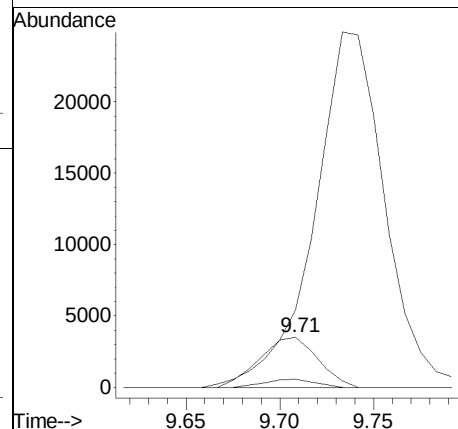
Tgt Ion:	62	Resp:	64900
Ion Ratio	Lower	Upper	
62	100		
64	33.9	24.7	37.1
49	42.6	30.4	45.6
63	19.1	16.2	24.4

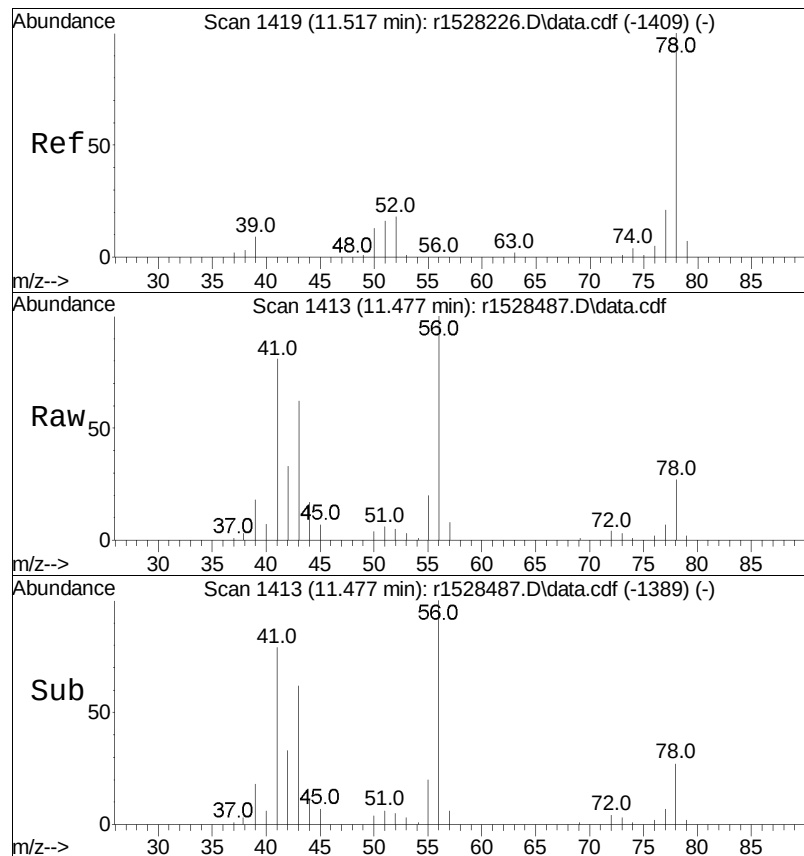




#44
hexane
Concen: 0.17 ppbV
RT: 9.71 min Scan# 1184
Delta R.T. -0.042 min
Lab File: r1528487.D
Acq: 21 Sep 2021 10:24 PM

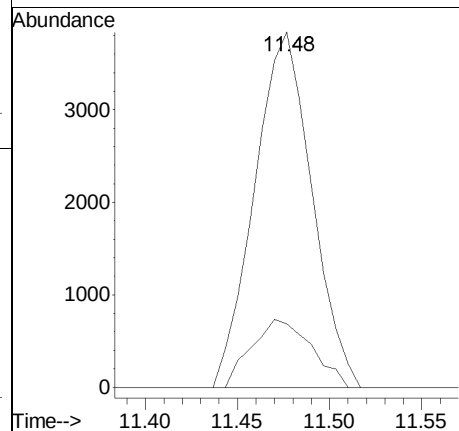
Tgt	Ion	Ratio	Lower	Upper
57	100			
43	154.8	113.8	170.8	
86	16.3	11.6	17.4	

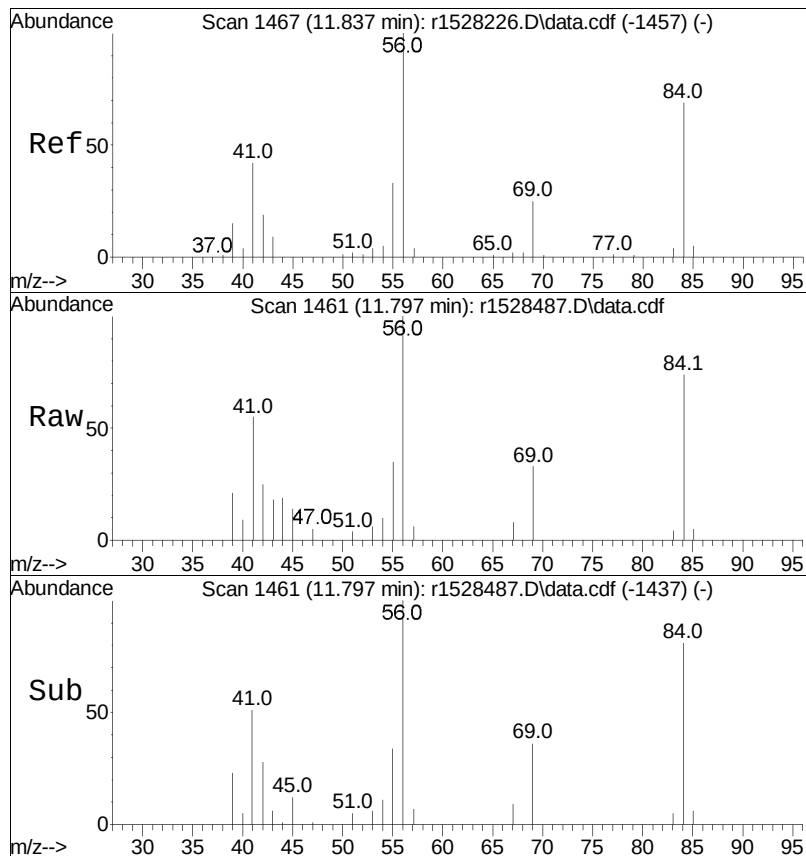




#50
benzene
Concen: 0.12 ppbV
RT: 11.48 min Scan# 1413
Delta R.T. -0.040 min
Lab File: r1528487.D
Acq: 21 Sep 2021 10:24 PM

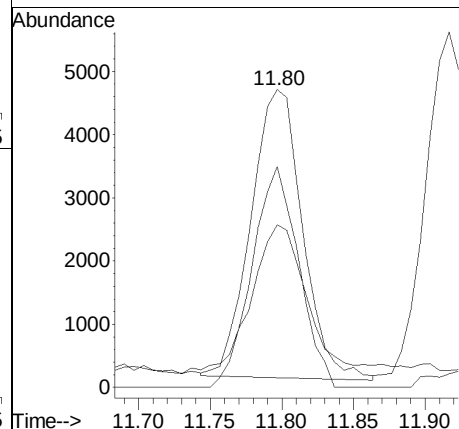
Tgt Ion	Ratio	Lower	Upper
78	100		
52	17.9	14.2	21.4

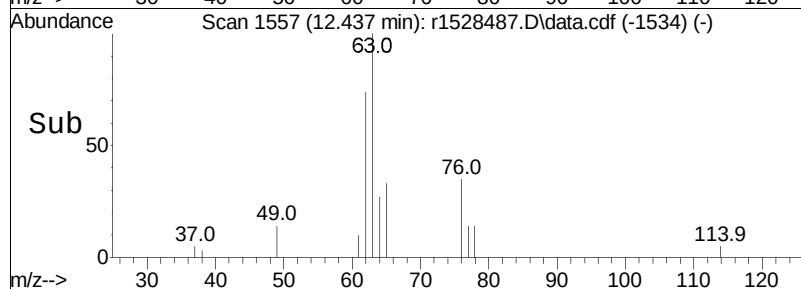
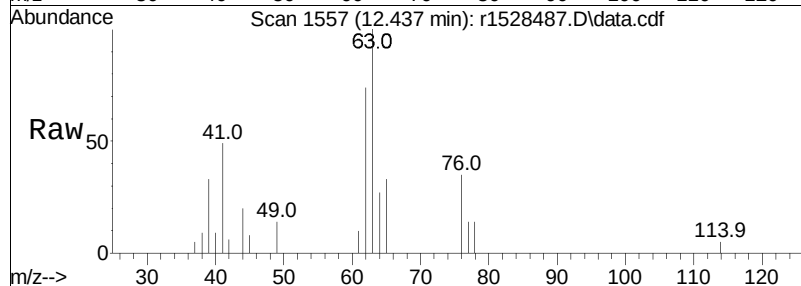
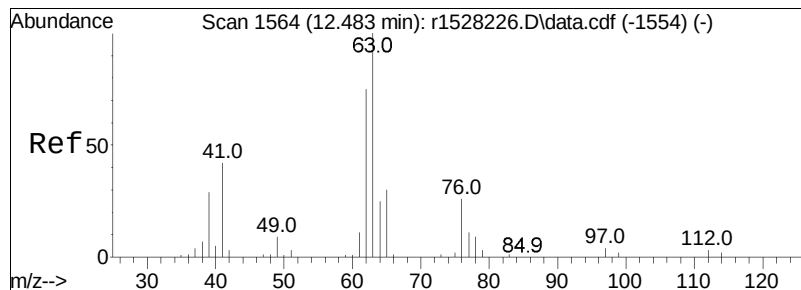




#53
cyclohexane
Concen: 0.24 ppbV
RT: 11.80 min Scan# 1461
Delta R.T. -0.040 min
Lab File: r1528487.D
Acq: 21 Sep 2021 10:24 PM

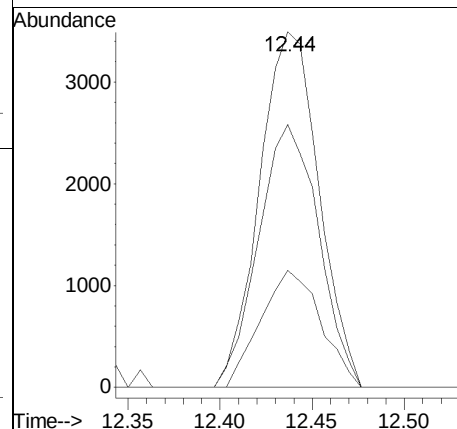
Tgt	Ion: 56	Resp:	11423
Ion	Ratio	Lower	Upper
56	100		
84	74.2	54.9	82.3
41	54.6	34.0	51.0#

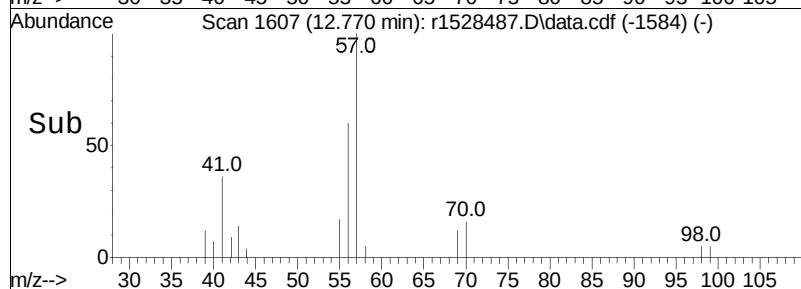
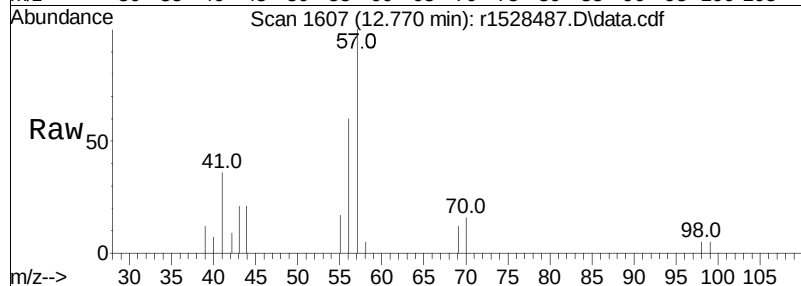
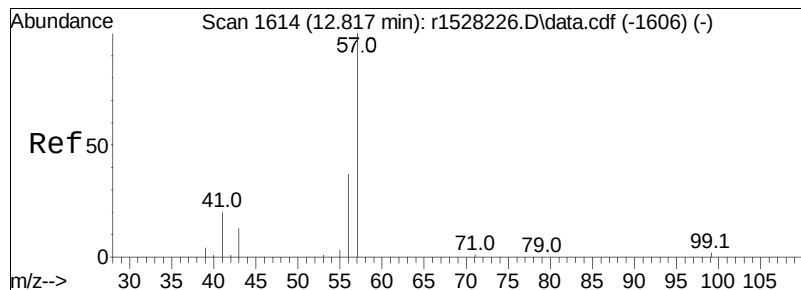




#56
 1,2-dichloropropane
 Concen: 0.28 ppbV
 RT: 12.44 min Scan# 1557
 Delta R.T. -0.047 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

Tgt	Ion	Ratio	Resp	Lower	Upper
63	100		7846		
62	73.9	59.9		89.9	
39	33.0	23.0		34.4	





#60

2,2,4-trimethylpentane

Concen: 0.06 ppbV

RT: 12.77 min Scan# 1607

Delta R.T. -0.047 min

Lab File: r1528487.D

Acq: 21 Sep 2021 10:24 PM

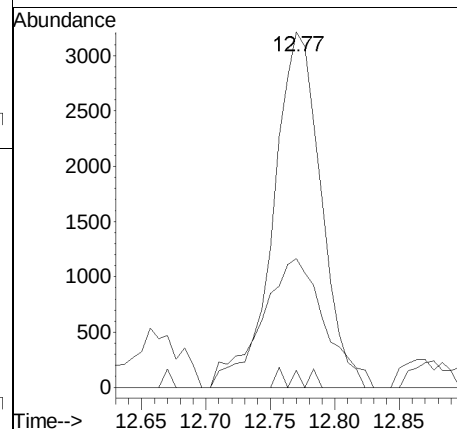
Tgt Ion: 57 Resp: 8198

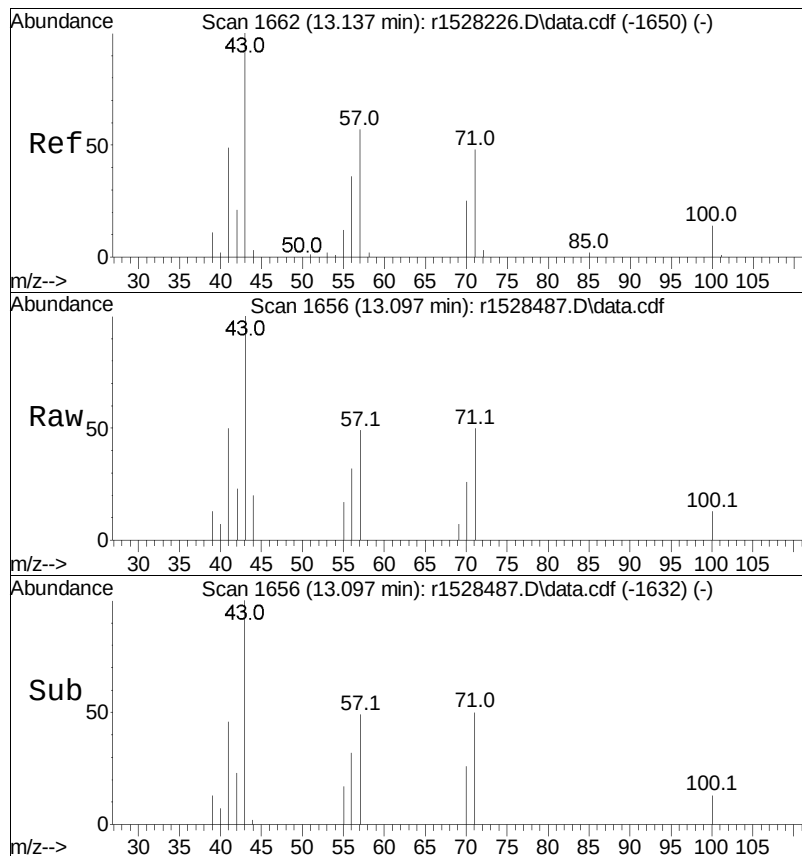
Ion Ratio Lower Upper

57 100

99 4.9 3.3 4.9

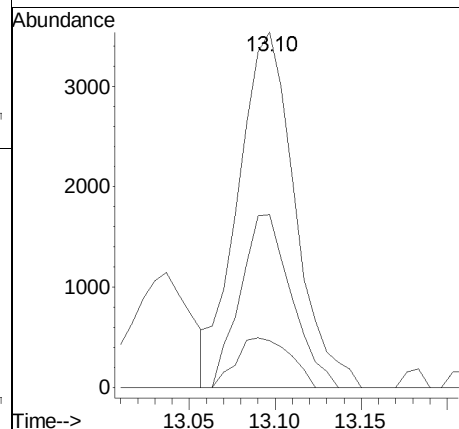
41 36.3 16.2 24.2#

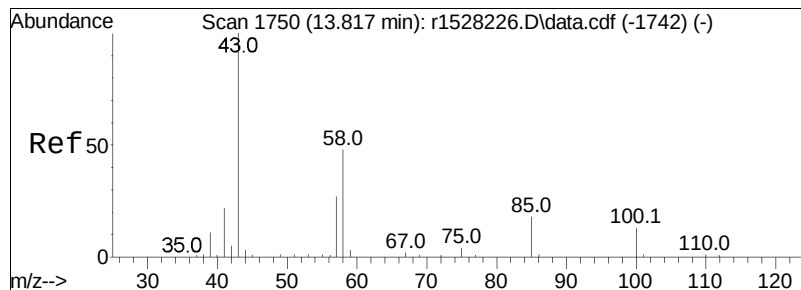




#62
 heptane
 Concen: 0.16 ppbV
 RT: 13.10 min Scan# 1656
 Delta R.T. -0.040 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

Tgt	Ion: 43	Resp:	8166
Ion	Ratio	Lower	Upper
43	100		
57	48.6	45.5	68.3
100	13.1	11.7	17.5





#64

4-methyl-2-pentanone

Concen: 0.26 ppbV

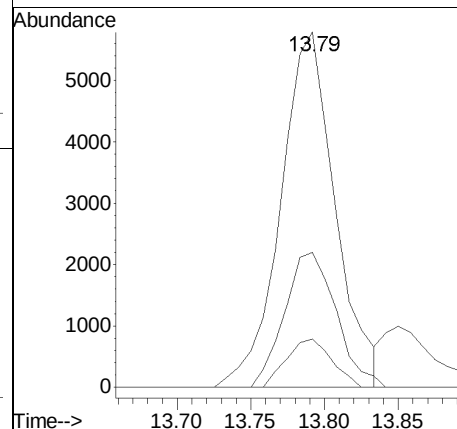
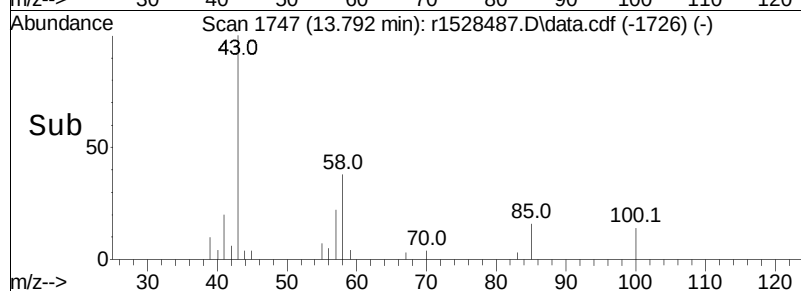
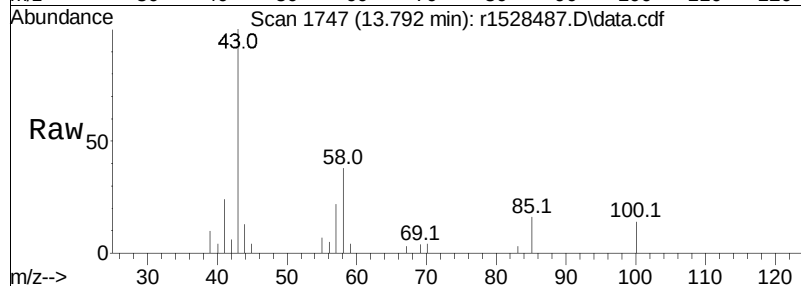
RT: 13.79 min Scan# 1747

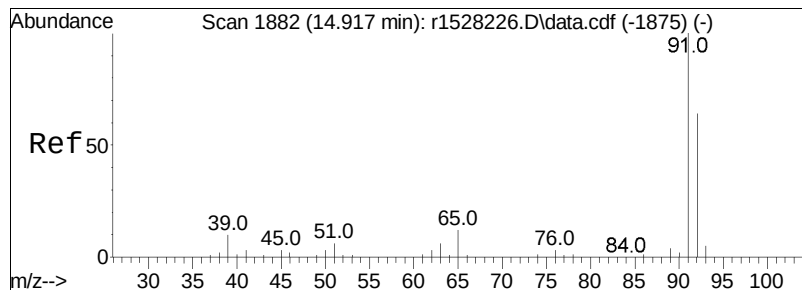
Delta R.T. -0.025 min

Lab File: r1528487.D

Acq: 21 Sep 2021 10:24 PM

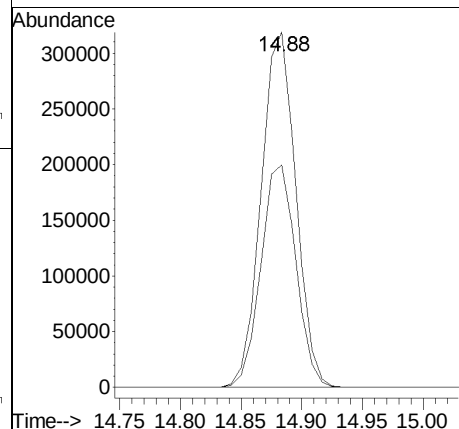
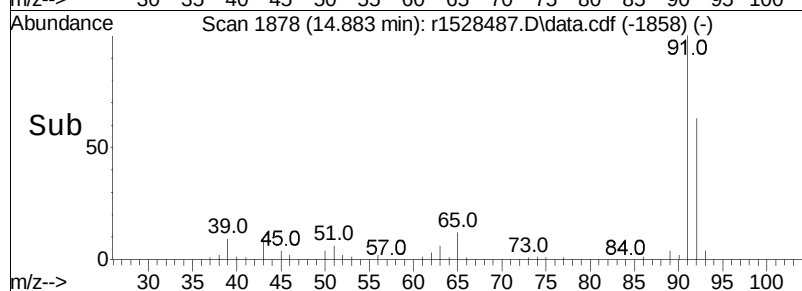
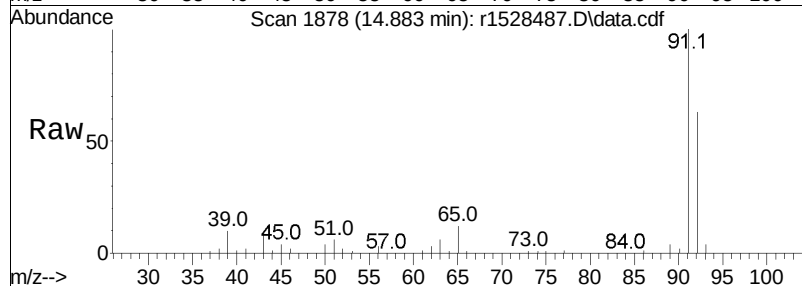
Tgt Ion:	43	Resp:	14905
Ion Ratio	Lower	Upper	
43	100		
58	38.0	38.5	57.7#
100	13.6	10.6	16.0

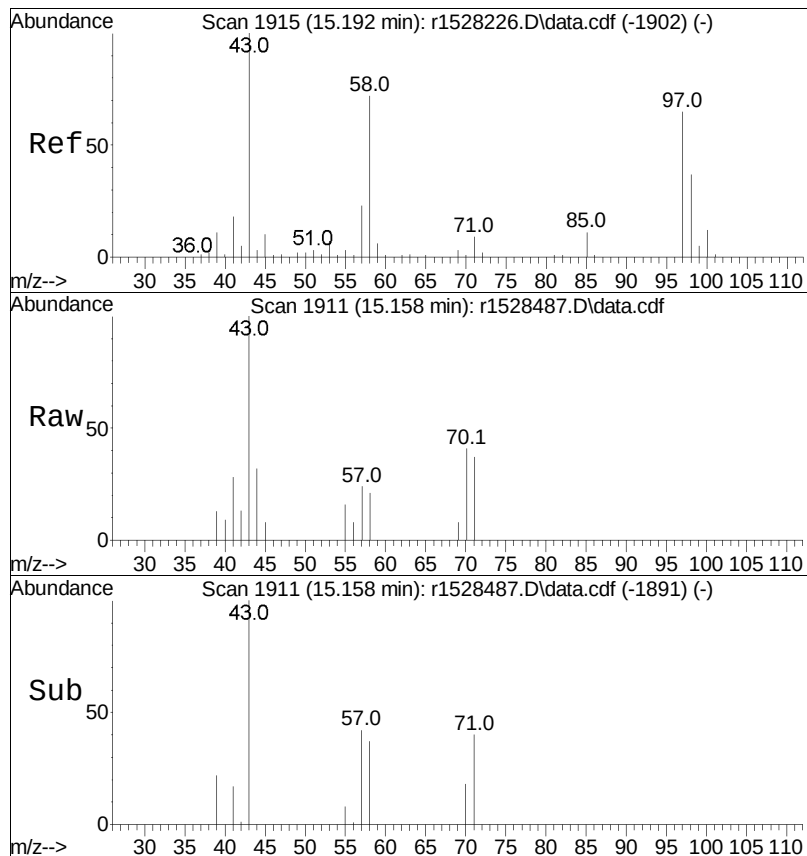




#68
toluene
Concen: 7.93 ppbV
RT: 14.88 min Scan# 1878
Delta R.T. -0.033 min
Lab File: r1528487.D
Acq: 21 Sep 2021 10:24 PM

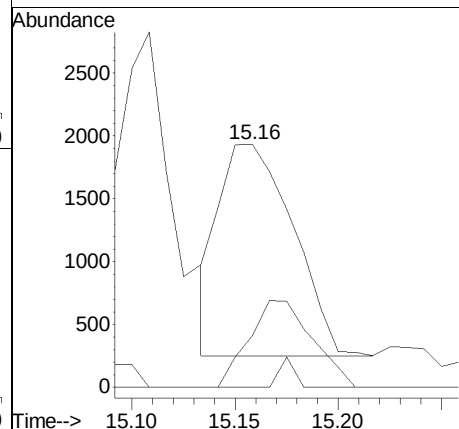
Tgt	Ion	Resp	Ratio	Lower	Upper
91	100	633039			
92	62.6	51.6	77.4		

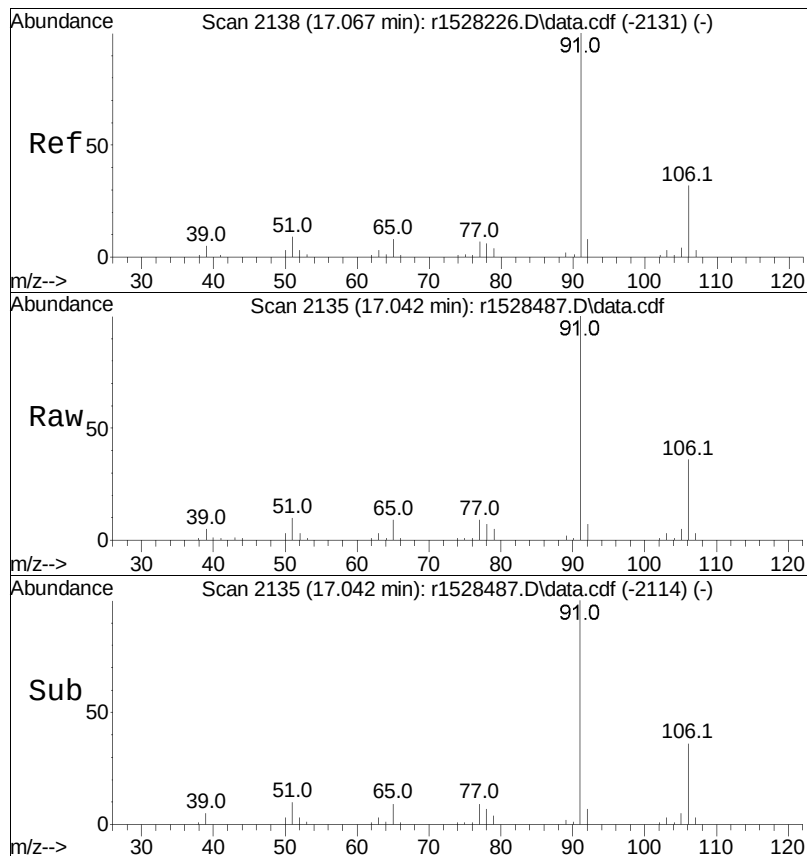




#72
 2-hexanone
 Concen: 0.09 ppbV
 RT: 15.16 min Scan# 1911
 Delta R.T. -0.033 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

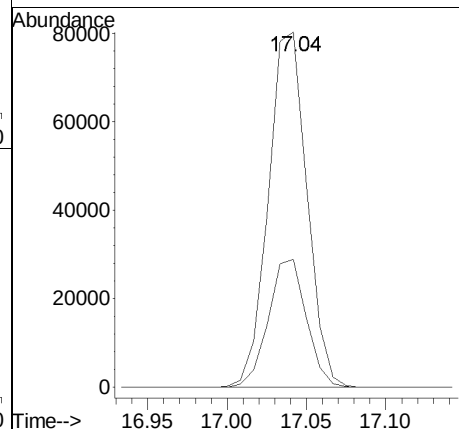
Tgt Ion:	43	Resp:	4209
Ion Ratio	Lower	Upper	
43	100		
58	21.3	57.9	86.9#
100	0.0	9.8	14.8#

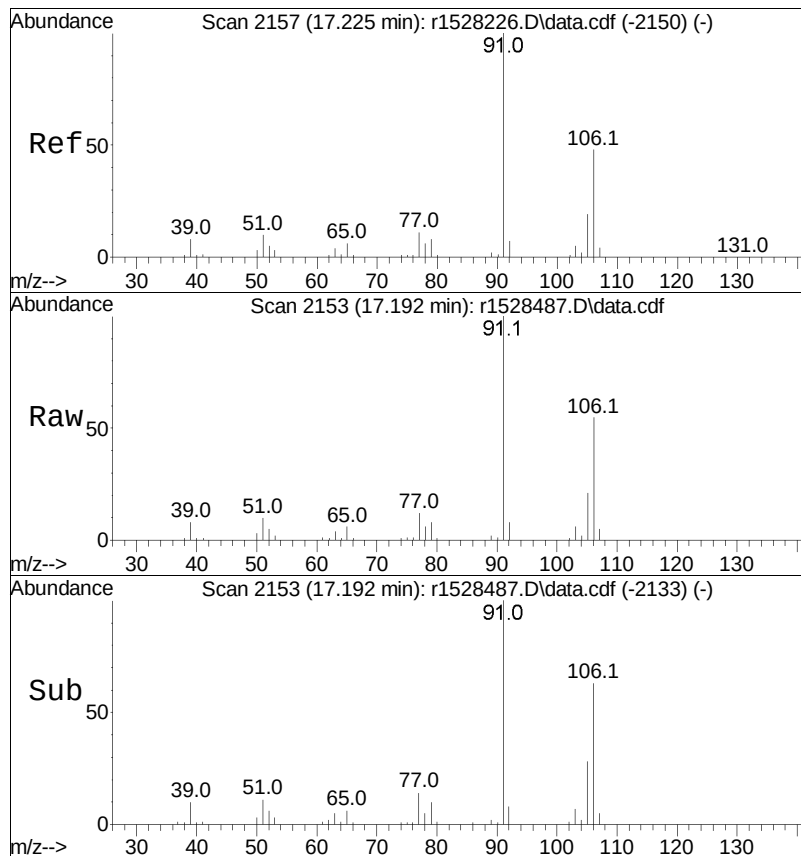




#81
ethylbenzene
Concen: 1.40 ppbV
RT: 17.04 min Scan# 2135
Delta R.T. -0.025 min
Lab File: r1528487.D
Acq: 21 Sep 2021 10:24 PM

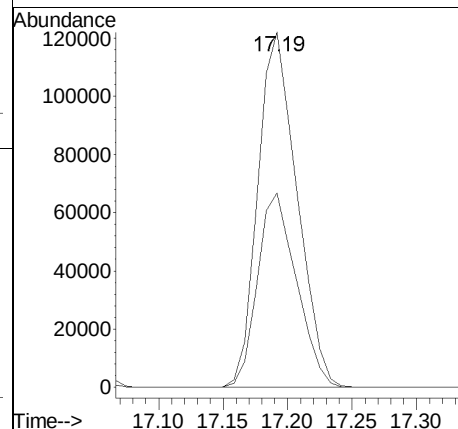
Tgt Ion	Ratio	Lower	Upper
91	100		
106	36.0	25.3	37.9

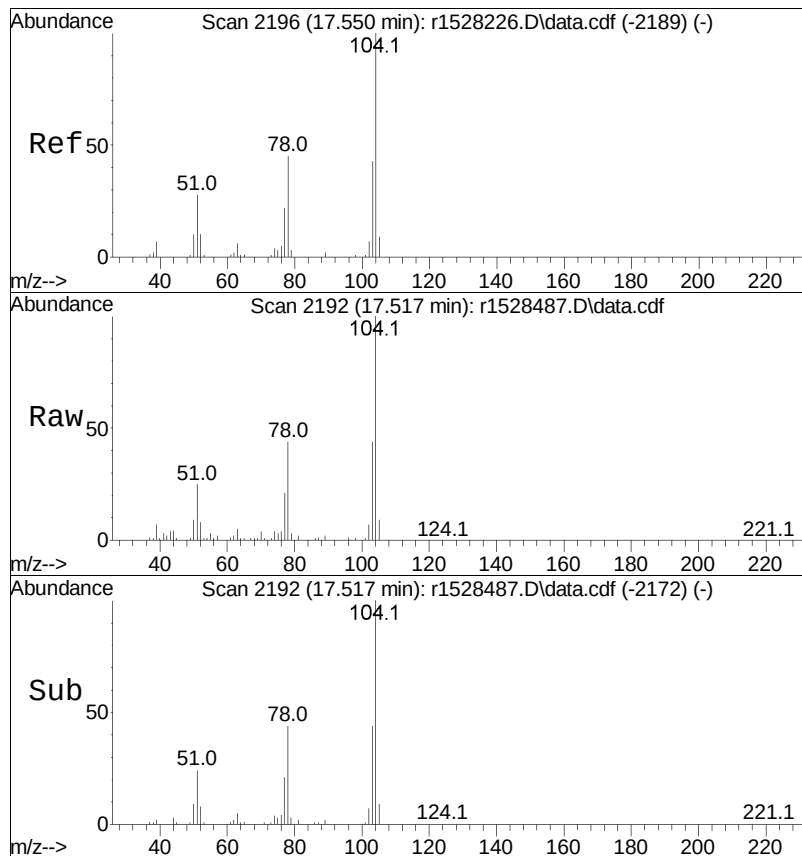




#83
 m+p-xylene
 Concen: 3.35 ppbV
 RT: 17.19 min Scan# 2153
 Delta R.T. -0.033 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

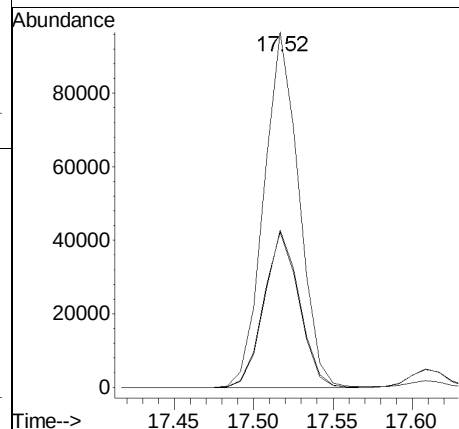
Tgt	Ion	Resp	Lower	Upper
91	100	257677		
106	54.7	38.6	58.0	

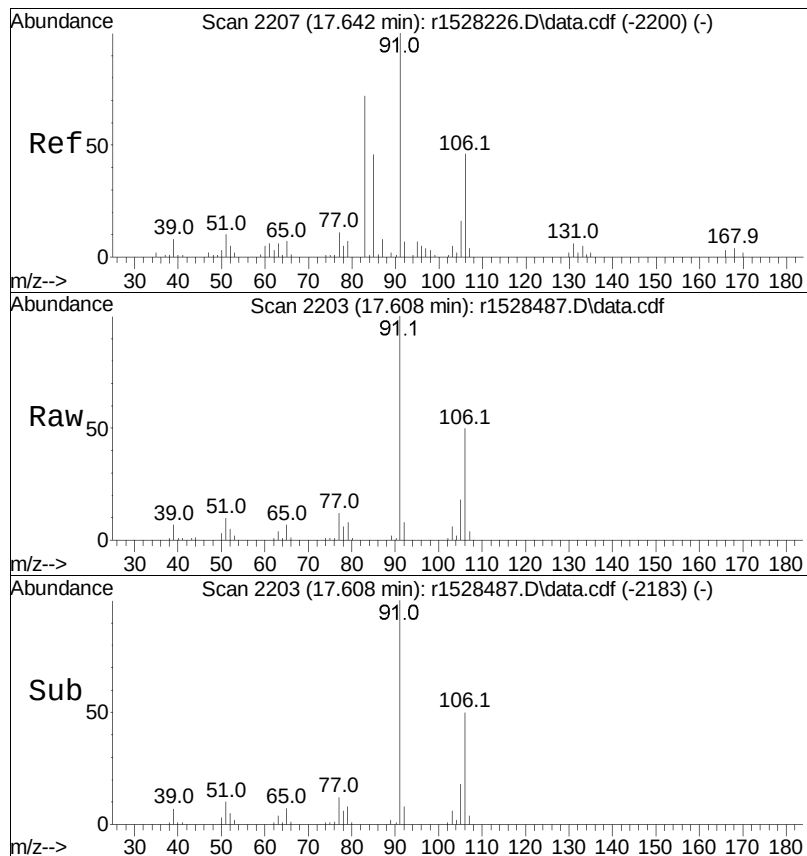




#85
styrene
Concen: 2.56 ppbV
RT: 17.52 min Scan# 2192
Delta R.T. -0.033 min
Lab File: r1528487.D
Acq: 21 Sep 2021 10:24 PM

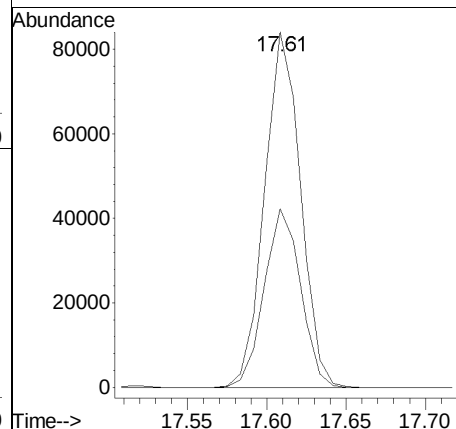
Tgt	Ion:104	Resp:	147888
Ion	Ratio	Lower	Upper
104	100		
103	43.7	34.1	51.1
78	44.3	35.8	53.8

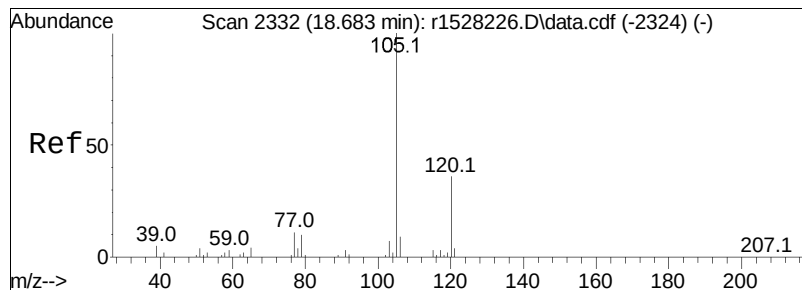




#87
 o-xylene
 Concen: 1.74 ppbV
 RT: 17.61 min Scan# 2203
 Delta R.T. -0.033 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

Tgt	Ion	Resp	Lower	Upper
91	100	132184		
106	50.3	36.5	54.7	





#96

4-ethyl toluene

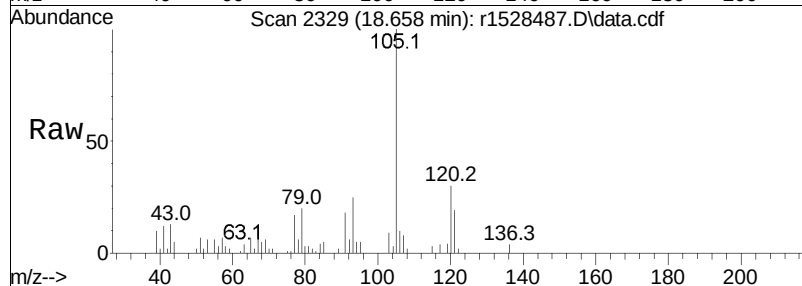
Concen: 0.16 ppbV m

RT: 18.66 min Scan# 2329

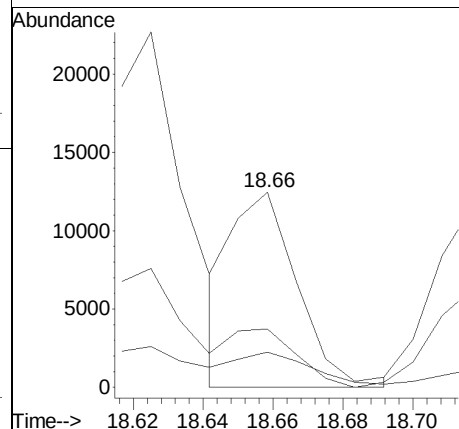
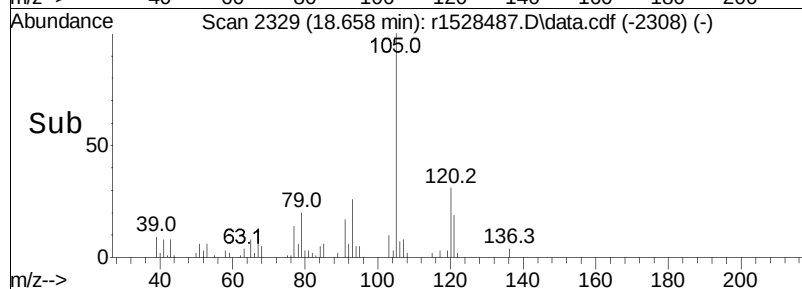
Delta R.T. -0.025 min

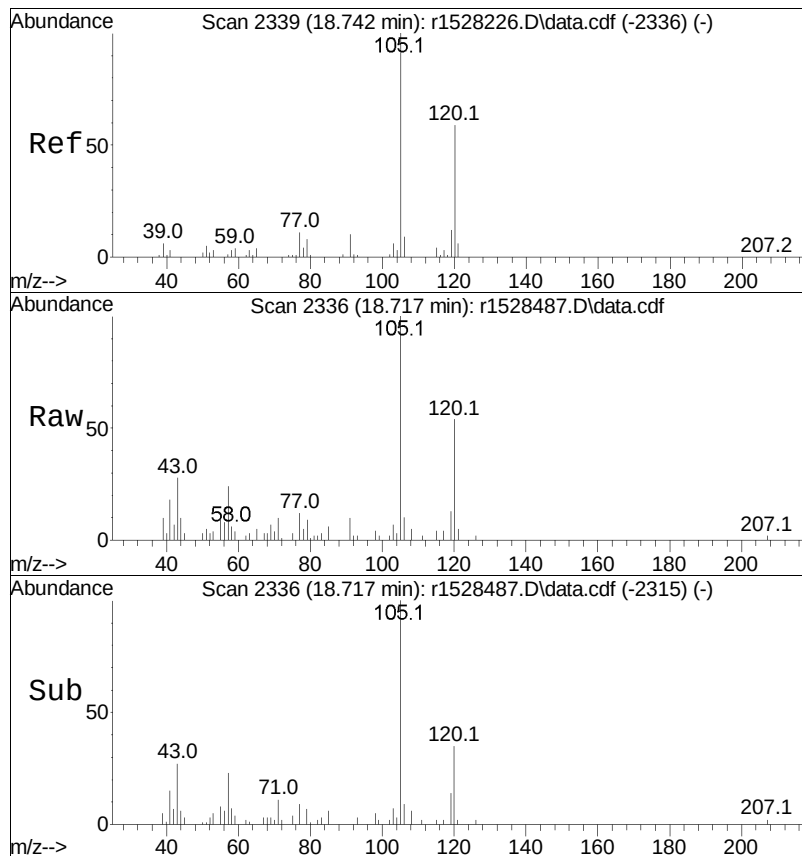
Lab File: r1528487.D

Acq: 21 Sep 2021 10:24 PM



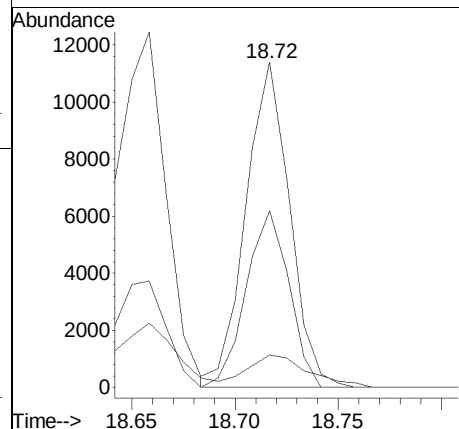
Tgt Ion:	105	Resp:	16423
Ion Ratio	Lower	Upper	
105	100		
120	29.9	29.0	43.6
91	18.1	8.5	12.7#

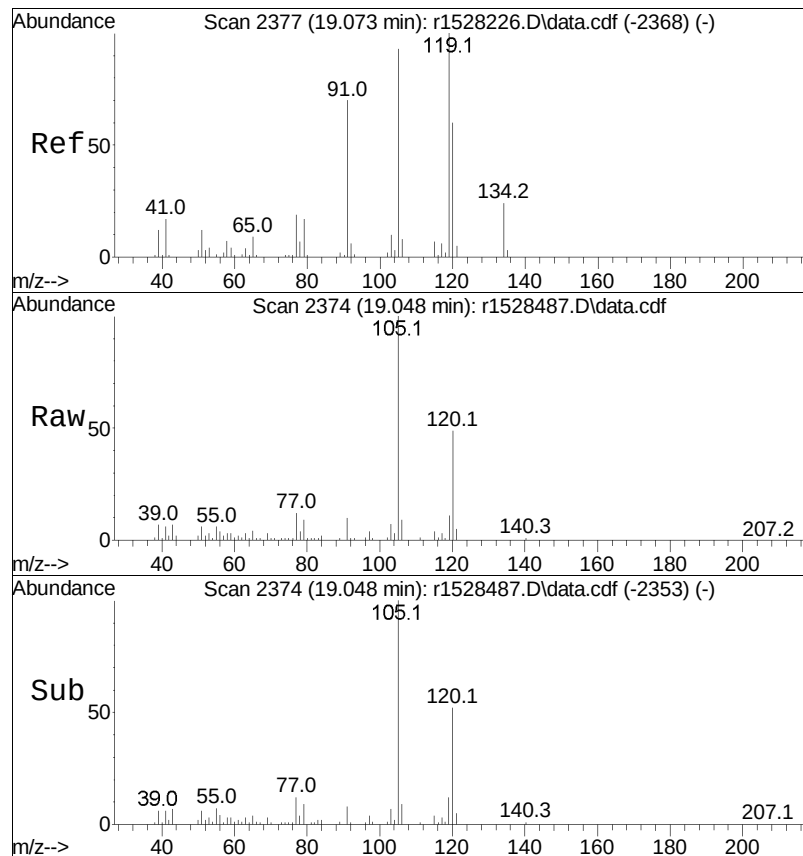




#97
 1,3,5-trimethylbenzene
 Concen: 0.21 ppbV
 RT: 18.72 min Scan# 2336
 Delta R.T. -0.025 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

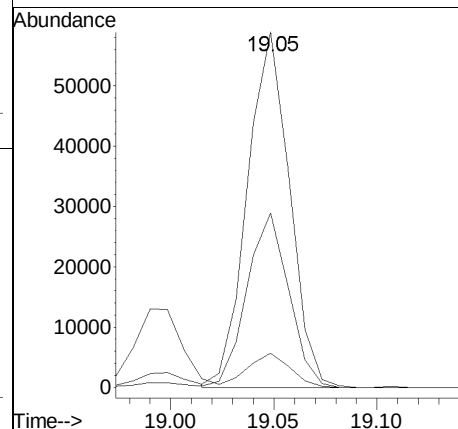
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	16831		
120	54.3		47.4	71.0
91	10.0		7.9	11.9

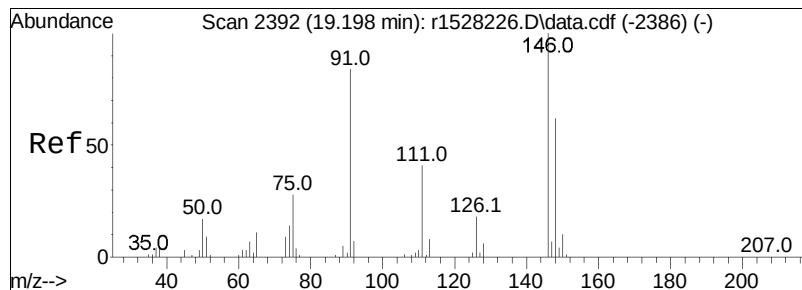




#99
 1,2,4-trimethylbenzene
 Concen: 1.07 ppbV
 RT: 19.05 min Scan# 2374
 Delta R.T. -0.025 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

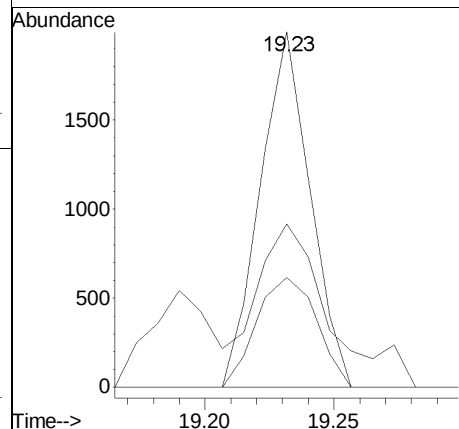
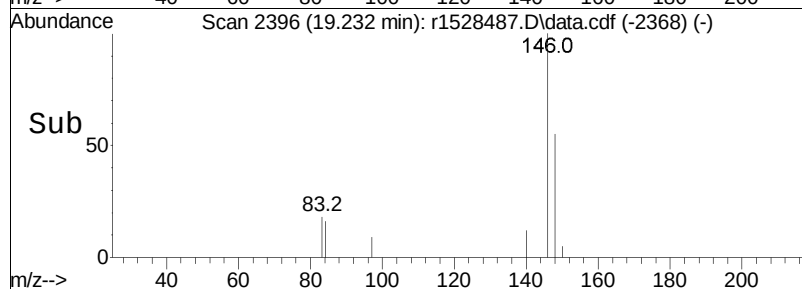
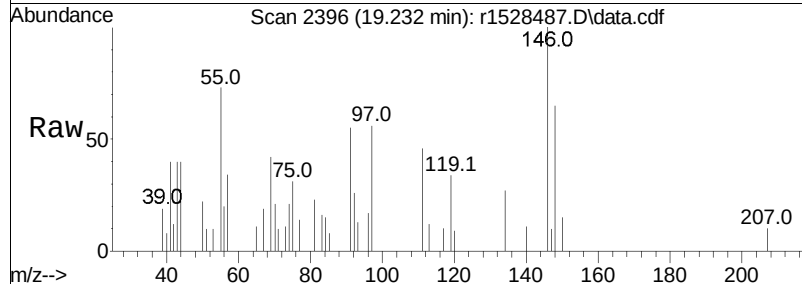
Tgt	Ion:105	Resp:	83813
Ion	Ratio	Lower	Upper
105	100		
120	49.1	51.8	77.6#
91	9.6	59.5	89.3#





#102
 1,3-dichlorobenzene
 Concen: 0.05 ppbV
 RT: 19.23 min Scan# 2396
 Delta R.T. 0.033 min
 Lab File: r1528487.D
 Acq: 21 Sep 2021 10:24 PM

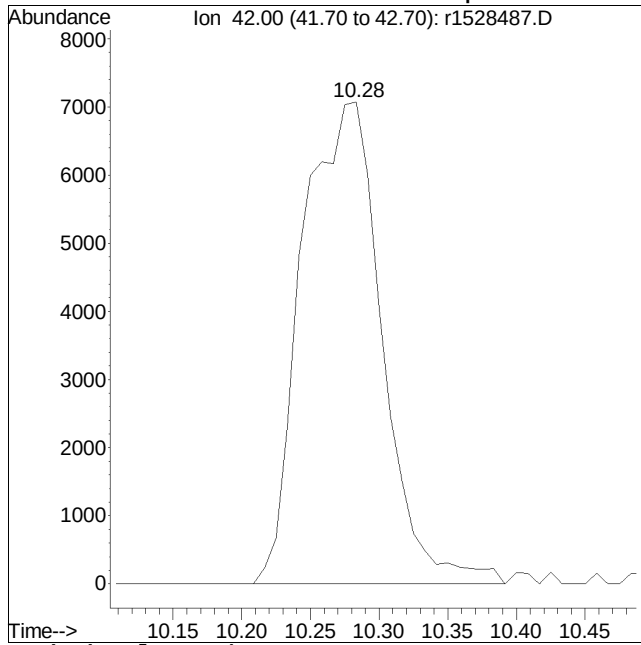
Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.0	32.4	48.6
75	30.9	22.2	33.2



Manual Integration/Negative Proof Report

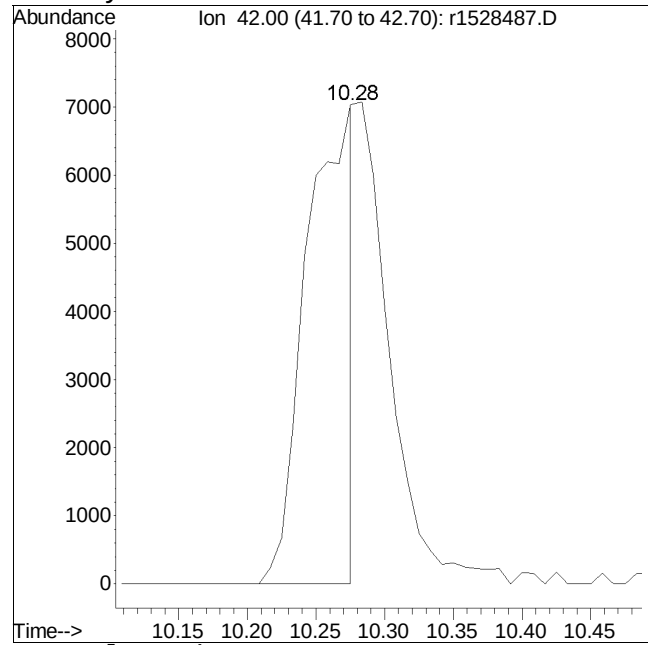
Data Path : O:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528487.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:0: 4 Instrument :
Sample : L2150027-03,3,250,250 Quant Date : 9/22/2021 7:23 am

Compound #40: Tetrahydrofuran



Original Peak Response = 28653

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

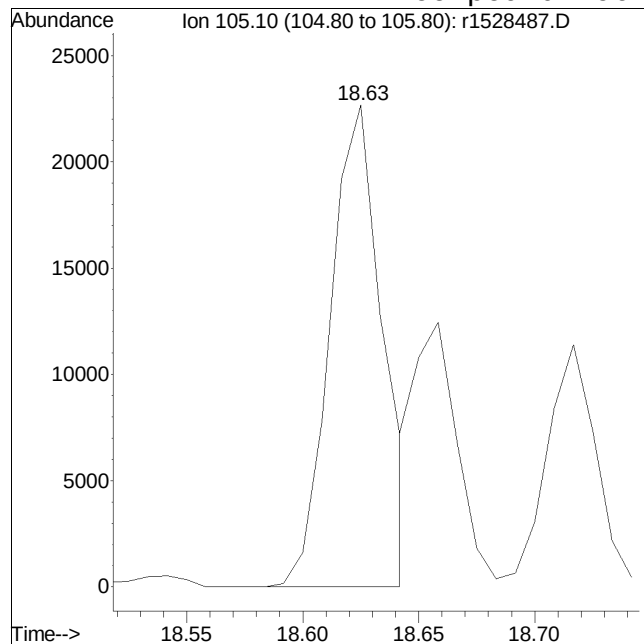


Manual Peak Response = 16740 M6

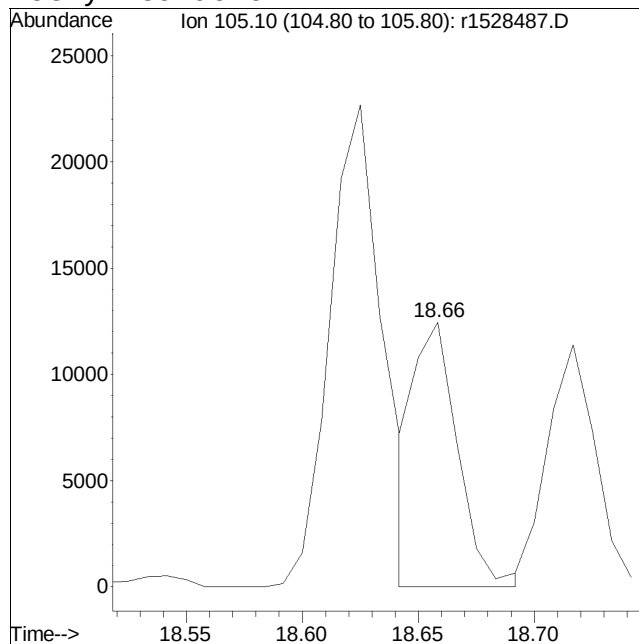
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
 Data File : r1528487.D Operator : AIRLAB15:RY
 Date Inj'd : 9/21/2020 0:0: 4 Instrument :
 Sample : L2150027-03,3,250,250 Quant Date : 9/22/2021 7:23 am

Compound #96: 4-ethyl toluene



Original Peak Response = 35756



Manual Peak Response = 16423 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528488.D
 Acq On : 21 Sep 2021 11:03 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-05,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:20:00 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.63	49	391133	10.000	ppbV	-0.04
Standard Area = 344610			Recovery =	113.50%		
43) 1,4-difluorobenzene	11.92	114	943388	10.000	ppbV	-0.04
Standard Area = 879831			Recovery =	107.22%		
67) chlorobenzene-D5	16.66	54	174882	10.000	ppbV	-0.02
Standard Area = 155534			Recovery =	112.44%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.99	85	13875	0.477	ppbV	97
6) chloromethane	4.17	50	10394	0.672	ppbV	95
7) Freon-114	4.30		0	N.D.		
10) 1,3-butadiene	4.61		0	N.D.		
13) bromomethane	0.00		0	N.D.		
14) chloroethane	5.15		0	N.D.		
15) ethanol	5.48	31	63177910	5224.293	ppbV #	60
17) vinyl bromide	0.00		0	N.D.		
19) acetone	5.91	43	376944M4	14.615	ppbV	
21) trichlorofluoromethane	6.10	101	48821	1.891	ppbV	98
22) isopropyl alcohol	6.26	45	3394528	111.819	ppbV	100
27) tertiary butyl alcohol	7.00	59	5228	0.150	ppbV #	61
28) methylene chloride	7.06	49	8336	0.439	ppbV	99
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	7.34	76	3384	0.069	ppbV #	1
31) Freon 113	7.39	101	2051	0.067	ppbV	91
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	8.53		0	N.D.		
36) 2-butanone	8.92	43	164838	3.442	ppbV	95
38) Ethyl Acetate	9.73	61	43808	4.884	ppbV	81
39) chloroform	9.79	83	16914	0.504	ppbV	93
40) Tetrahydrofuran	10.25	42	32846M6	1.072	ppbV	
42) 1,2-dichloroethane	10.65	62	9828	0.433	ppbV	94
44) hexane	9.71	57	9100	0.197	ppbV #	20
50) benzene	11.48	78	11954	0.161	ppbV	95
53) cyclohexane	11.80	56	7225	0.144	ppbV #	92

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528488.D
 Acq On : 21 Sep 2021 11:03 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-05,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:20:00 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1,2-dichloropropane	12.44		0	N.D.		
57) bromodichloromethane	12.76		0	N.D.		
58) 1,4-dioxane	0.00		0	N.D.		
60) 2,2,4-trimethylpentane	12.78	57	44176	0.289	ppbV #	90
62) heptane	13.10	43	18881	0.365	ppbV	93
63) cis-1,3-dichloropropene	0.00		0	N.D.		
64) 4-methyl-2-pentanone	13.88	43	8466	0.144	ppbV #	89
65) trans-1,3-dichloropropene	0.00		0	N.D.		
66) 1,1,2-trichloroethane	0.00		0	N.D.		
68) toluene	14.88	91	126982	1.566	ppbV	99
72) 2-hexanone	15.17	43	8199	0.166	ppbV #	68
74) dibromochloromethane	0.00		0	N.D.		
75) 1,2-dibromoethane	0.00		0	N.D.		
80) chlorobenzene	0.00		0	N.D.	d	
81) ethylbenzene	17.04	91	18468	0.188	ppbV	93
83) m+p-xylene	17.19	91	40403	0.517	ppbV	93
84) bromoform	0.00		0	N.D.		
85) styrene	17.52	104	15967	0.272	ppbV	95
86) 1,1,2,2-tetrachloroethane	0.00		0	N.D.	d	
87) o-xylene	17.61	91	18216	0.236	ppbV	93
96) 4-ethyl toluene	18.66		0	N.D.		
97) 1,3,5-trimethylbenzene	18.72	105	4620	0.057	ppbV #	90
99) 1,2,4-trimethylbenzene	19.05	105	14768	0.185	ppbV #	50
101) Benzyl Chloride	19.23		0	N.D.		
102) 1,3-dichlorobenzene	19.23		0	N.D.		
103) 1,4-dichlorobenzene	0.00		0	N.D.	d	
107) 1,2-dichlorobenzene	19.52		0	N.D.		
115) 1,2,4-trichlorobenzene	0.00		0	N.D.		
119) hexachlorobutadiene	0.00		0	N.D.		

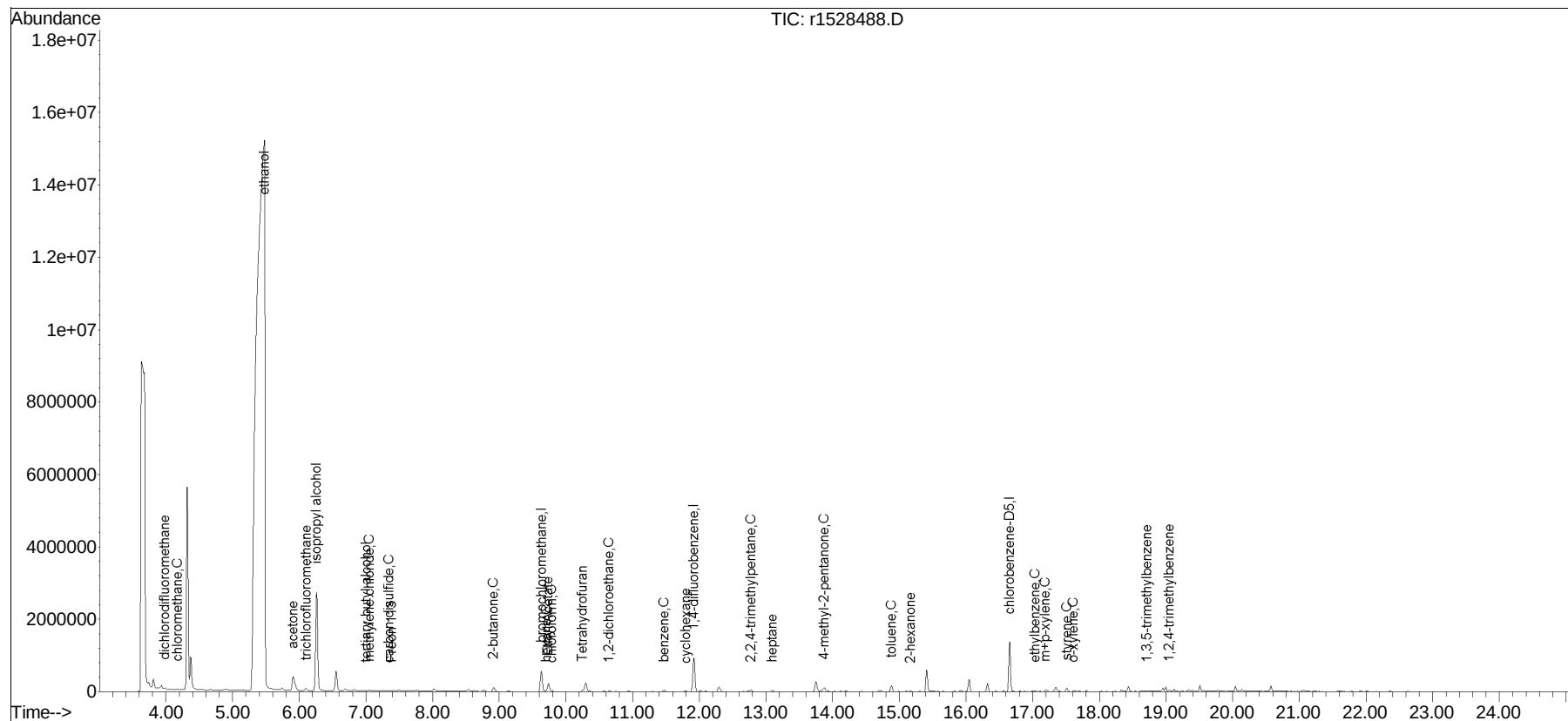
(#) = qualifier out of range (m) = manual integration (+) = signals summed

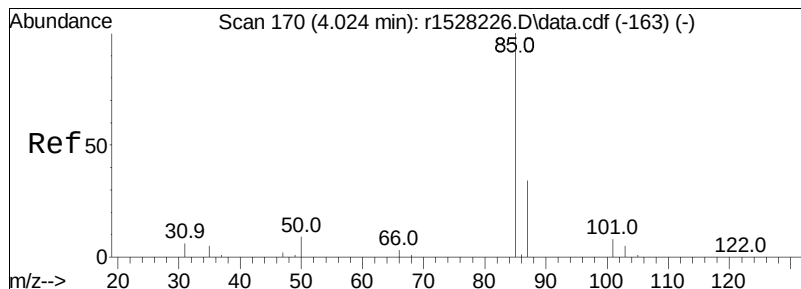
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528488.D
 Acq On : 21 Sep 2021 11:03 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-05,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:20:00 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

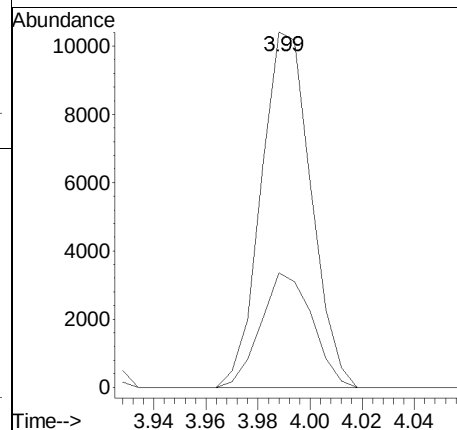
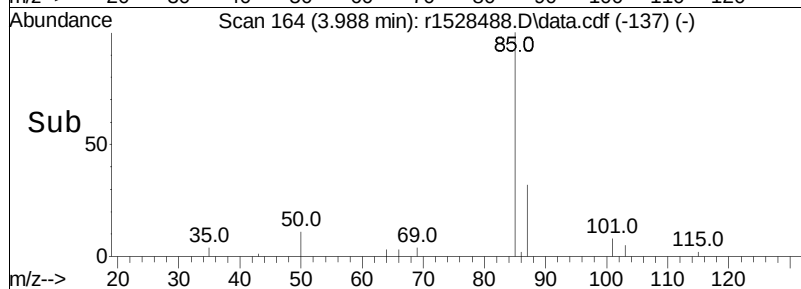
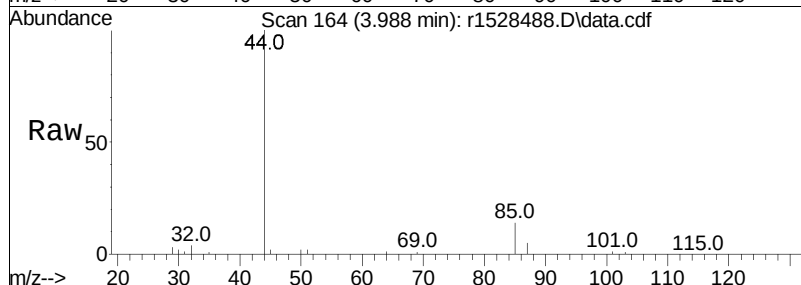
Sub List : T015-NY-7-SIM - .\Airlab15\2021\09\0921T\r1528475.D

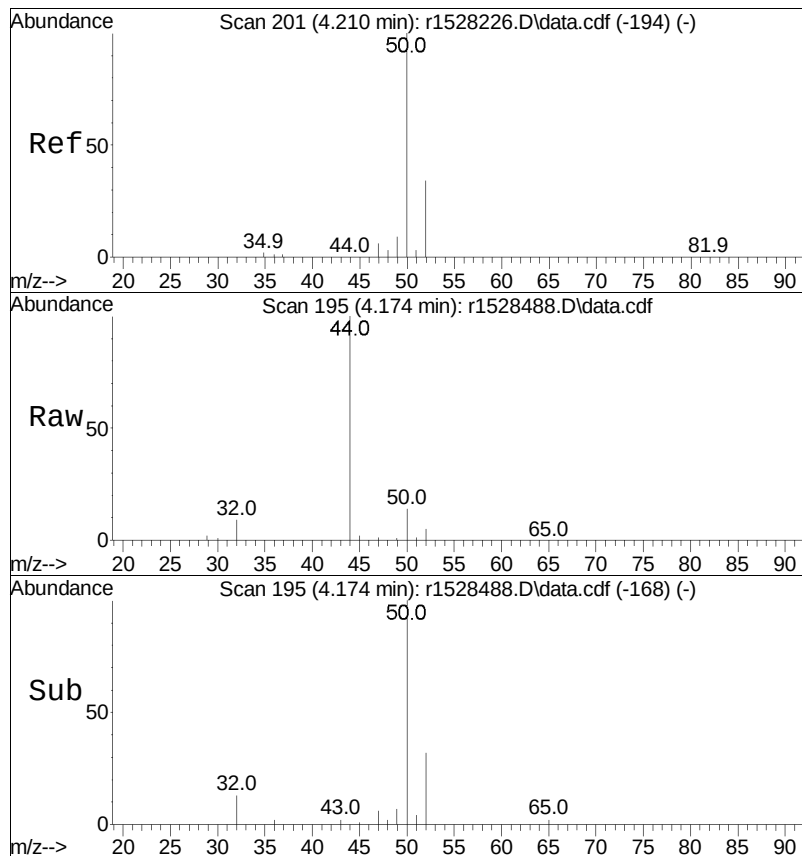




#5
 dichlorodifluoromethane
 Concen: 0.48 ppbV
 RT: 3.99 min Scan# 164
 Delta R.T. -0.036 min
 Lab File: r1528488.D
 Acq: 21 Sep 2021 11:03 PM

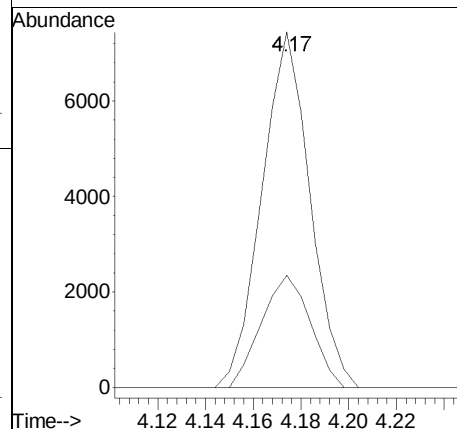
Tgt Ion: 85 Resp: 13875
 Ion Ratio Lower Upper
 85 100
 87 32.3 27.1 40.7

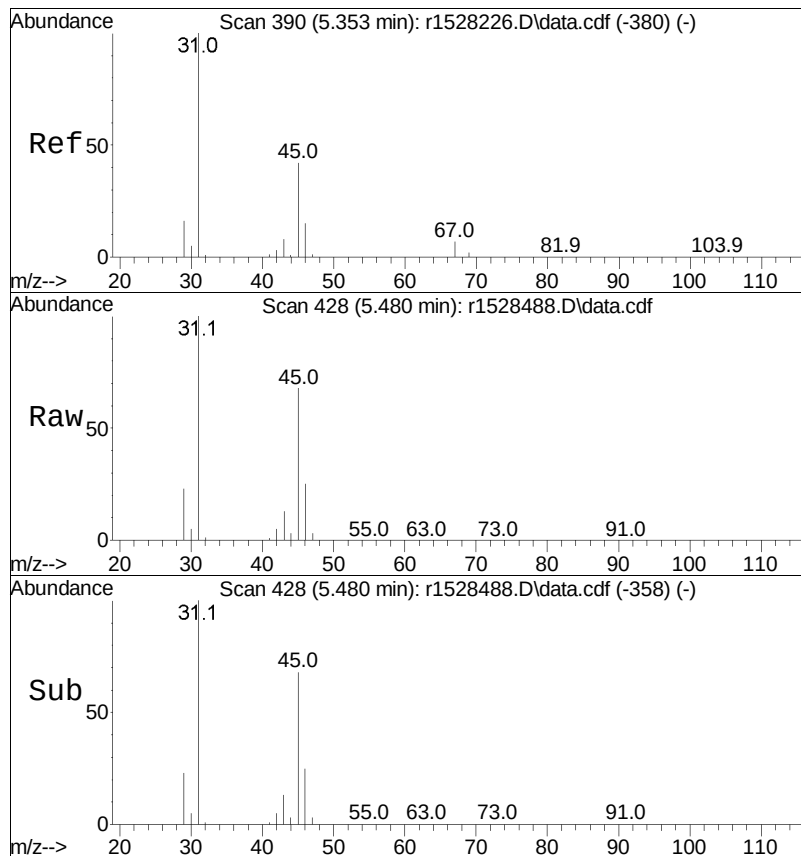




#6
 chloromethane
 Concen: 0.67 ppbV
 RT: 4.17 min Scan# 195
 Delta R.T. -0.036 min
 Lab File: r1528488.D
 Acq: 21 Sep 2021 11:03 PM

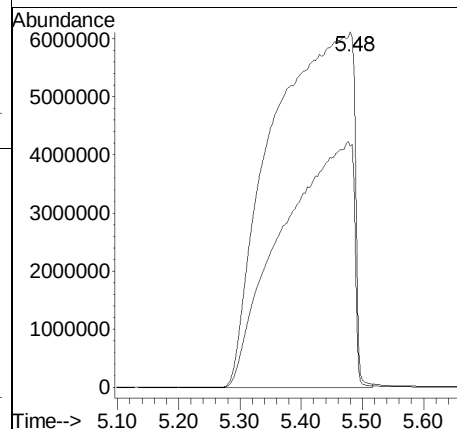
Tgt	Ion	Resp	Lower	Upper
50	100			
52	31.5	27.6	41.4	

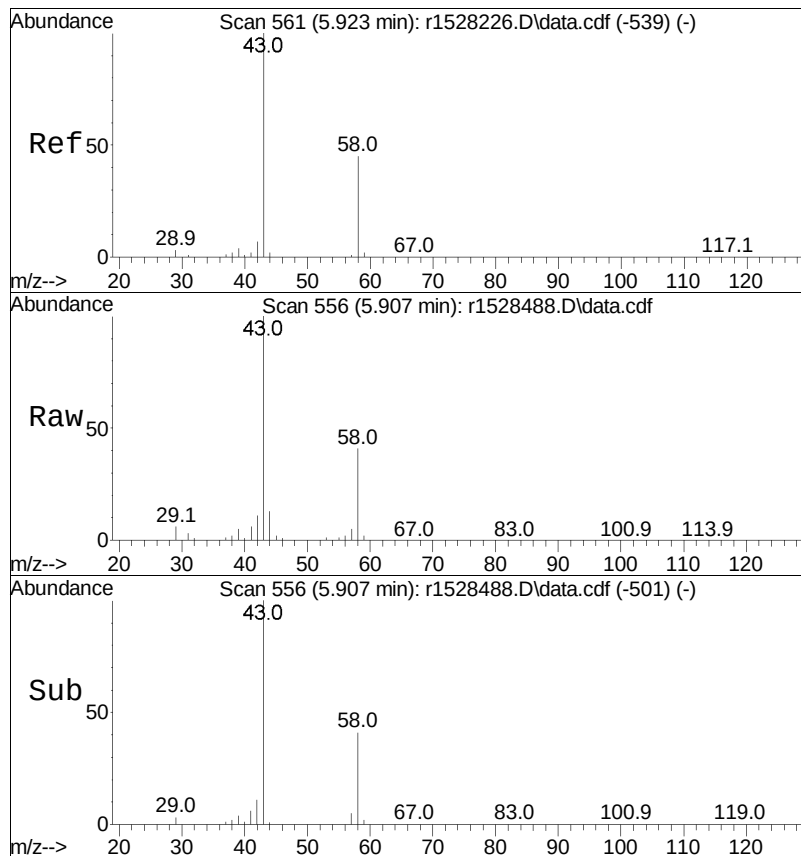




#15
 ethanol
 Concen: 5224.29 ppbV
 RT: 5.48 min Scan# 428
 Delta R.T. 0.127 min
 Lab File: r1528488.D
 Acq: 21 Sep 2021 11:03 PM

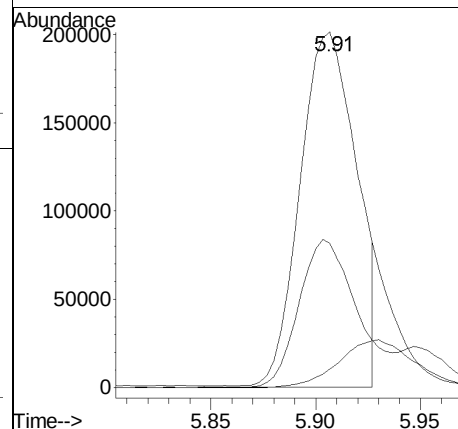
Tgt Ion: 31 Resp: 63177910
 Ion Ratio Lower Upper
 31 100
 45 67.9 34.0 51.0#

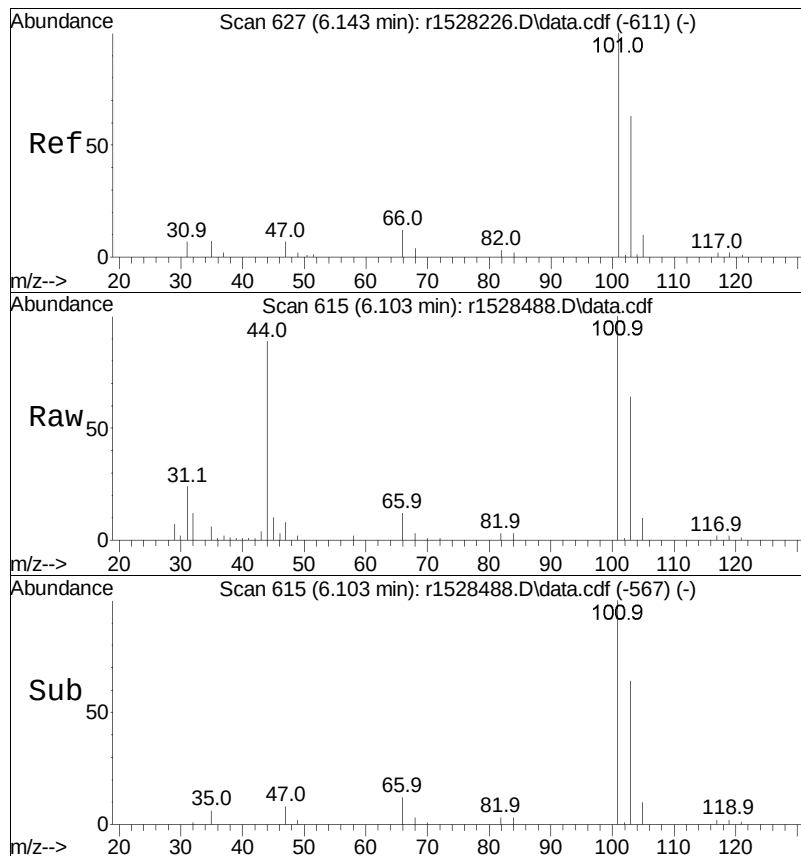




#19
acetone
Concen: 14.61 ppbV m
RT: 5.91 min Scan# 556
Delta R.T. -0.017 min
Lab File: r1528488.D
Acq: 21 Sep 2021 11:03 PM

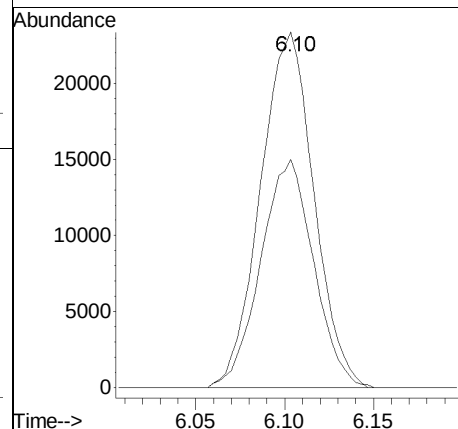
Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.6	36.2	54.2
57	5.2	0.9	1.3#

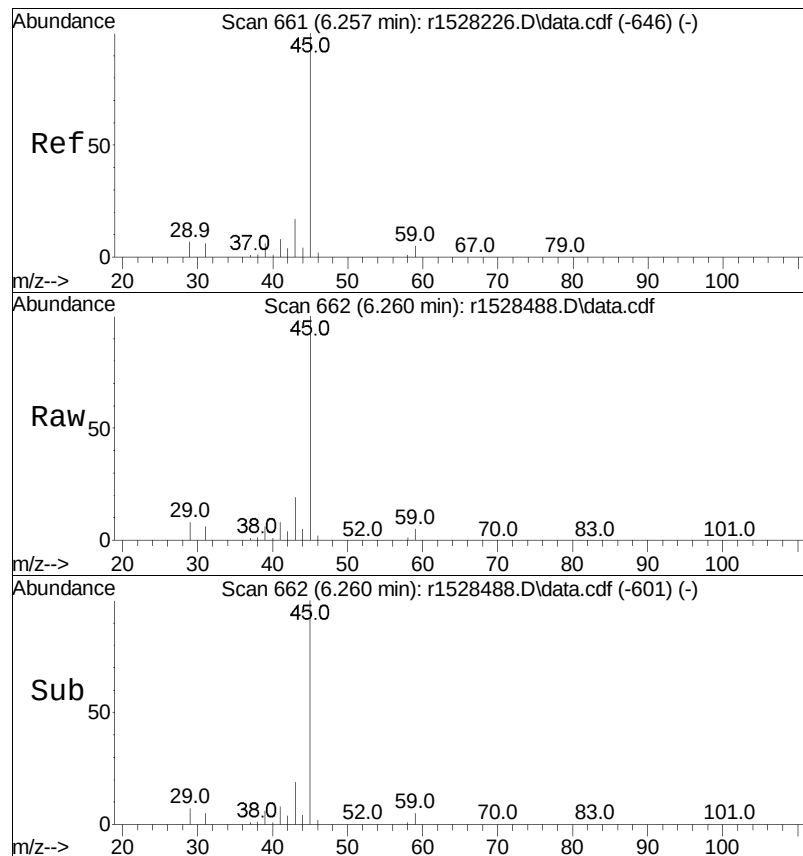




#21
trichlorofluoromethane
Concen: 1.89 ppbV
RT: 6.10 min Scan# 615
Delta R.T. -0.040 min
Lab File: r1528488.D
Acq: 21 Sep 2021 11:03 PM

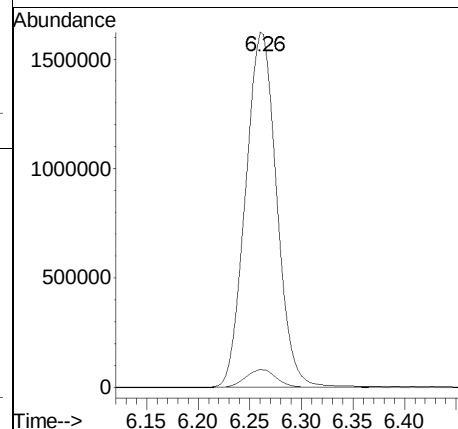
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	64.2	50.2	75.4	

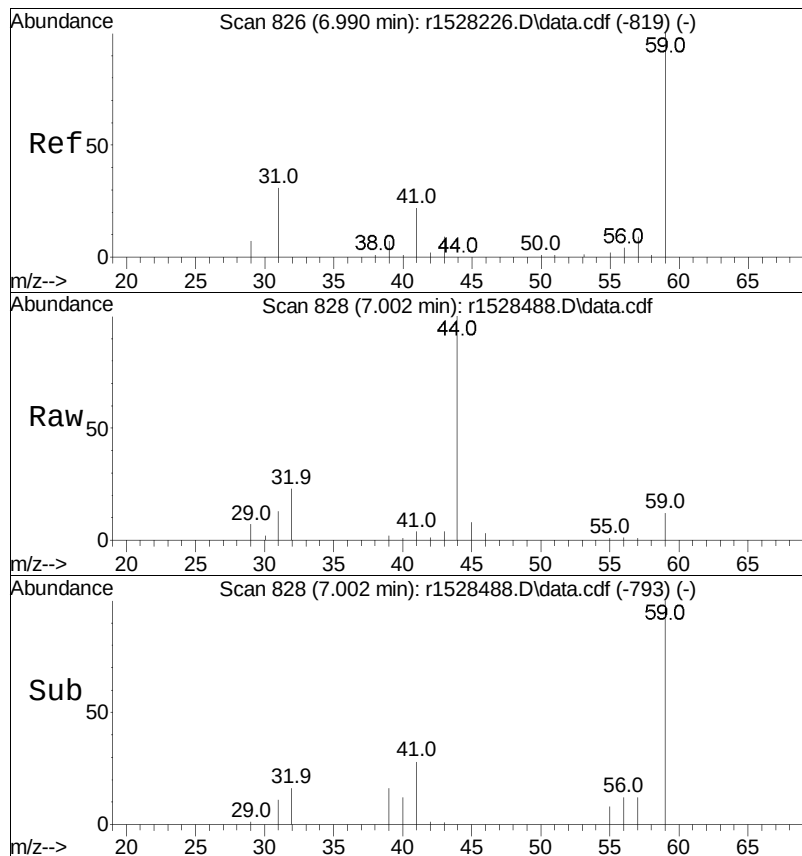




#22
isopropyl alcohol
Concen: 111.82 ppbV
RT: 6.26 min Scan# 662
Delta R.T. 0.003 min
Lab File: r1528488.D
Acq: 21 Sep 2021 11:03 PM

Tgt	Ion	Ratio	Lower	Upper
45	100			
59	5.1	4.2	6.2	





#27

tertiary butyl alcohol

Concen: 0.15 ppbV

RT: 7.00 min Scan# 828

Delta R.T. 0.012 min

Lab File: r1528488.D

Acq: 21 Sep 2021 11:03 PM

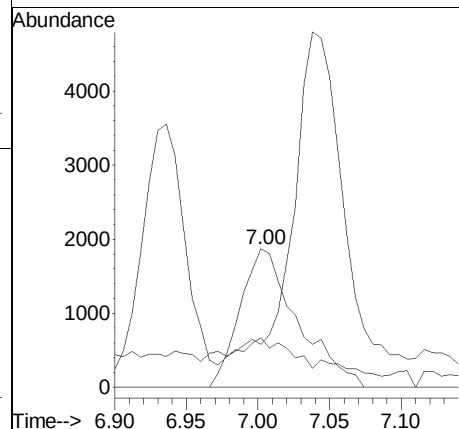
Tgt Ion: 59 Resp: 5228

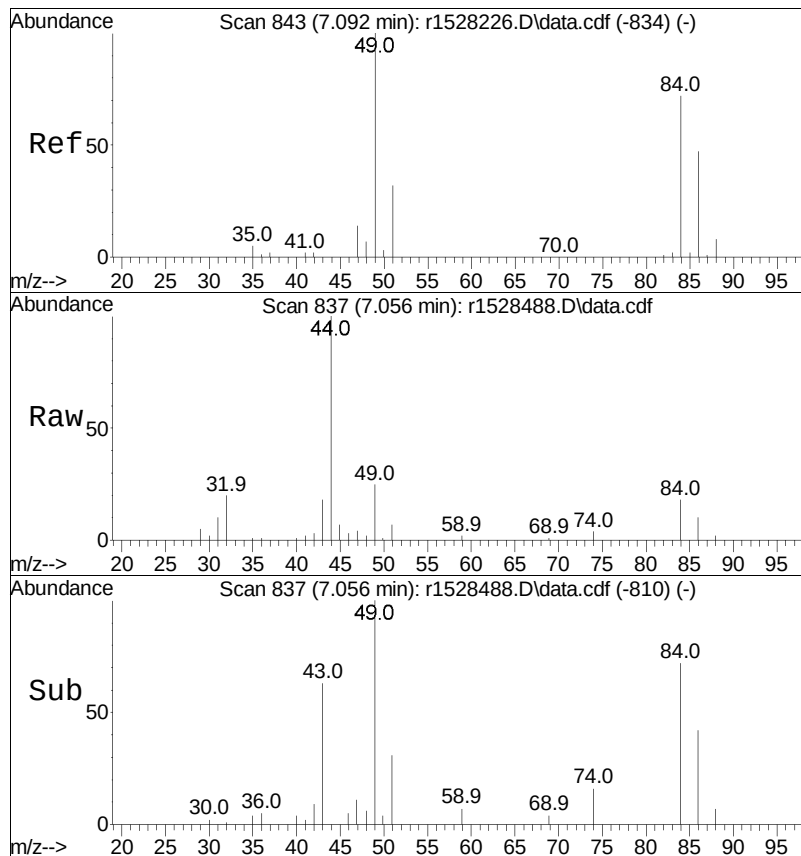
Ion Ratio Lower Upper

59 100

41 35.8 17.4 26.0#

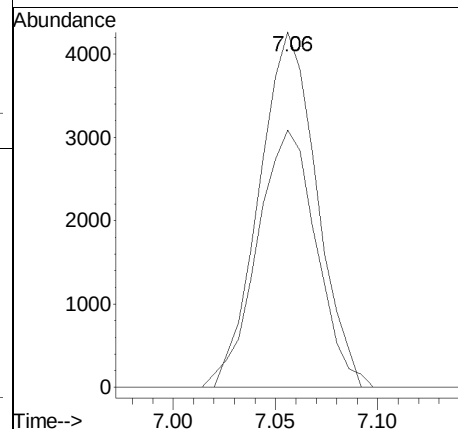
43 31.0 7.3 10.9#

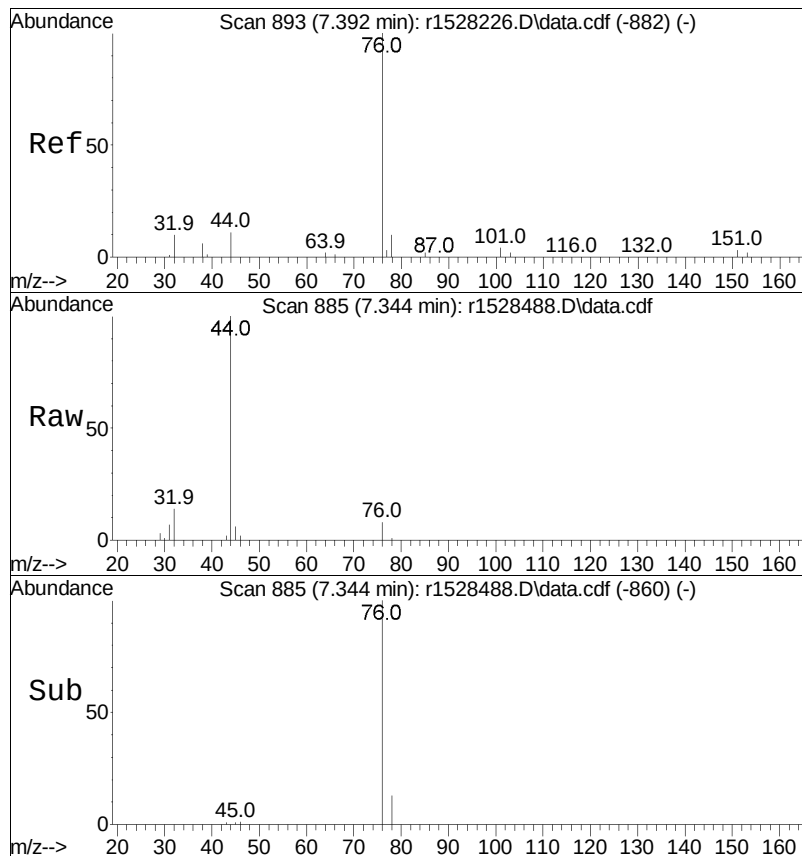




#28
 methylene chloride
 Concen: 0.44 ppbV
 RT: 7.06 min Scan# 837
 Delta R.T. -0.036 min
 Lab File: r1528488.D
 Acq: 21 Sep 2021 11:03 PM

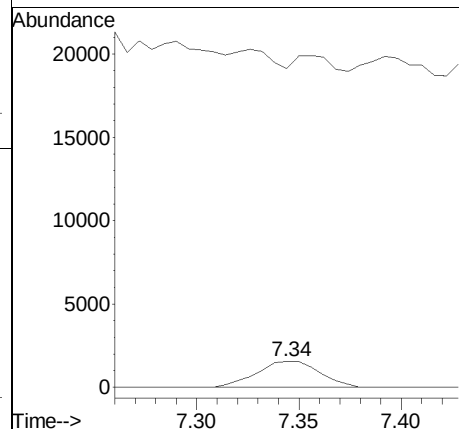
Tgt Ion:	49	84	Ratio	100	72.4	Resp:	8336	Lower	Upper
								57.4	86.0

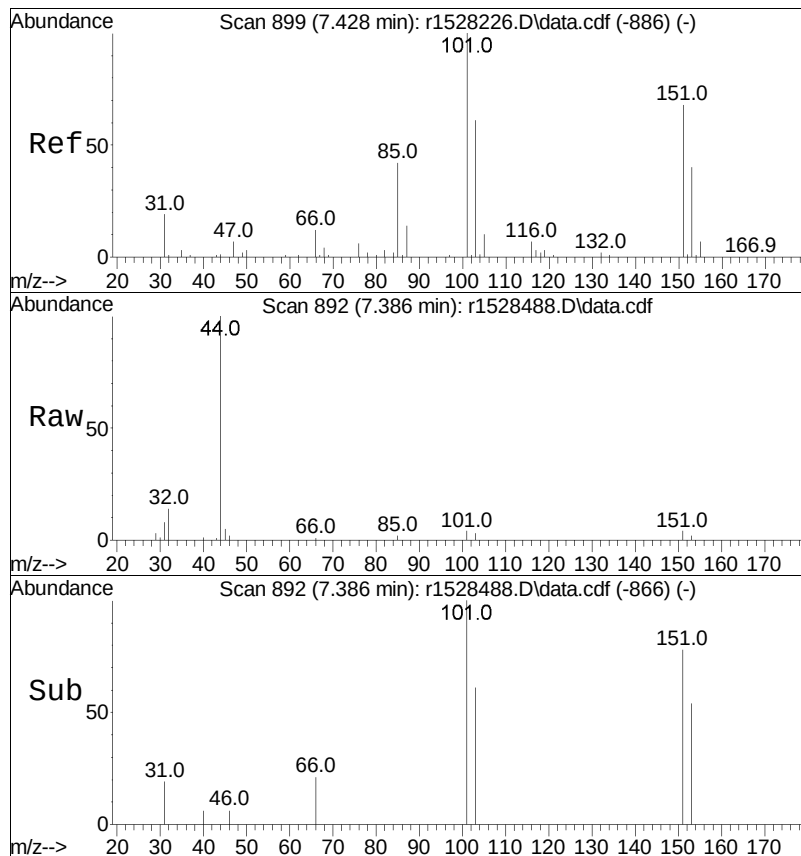




#30
carbon disulfide
Concen: 0.07 ppbV
RT: 7.34 min Scan# 885
Delta R.T. -0.048 min
Lab File: r1528488.D
Acq: 21 Sep 2021 11:03 PM

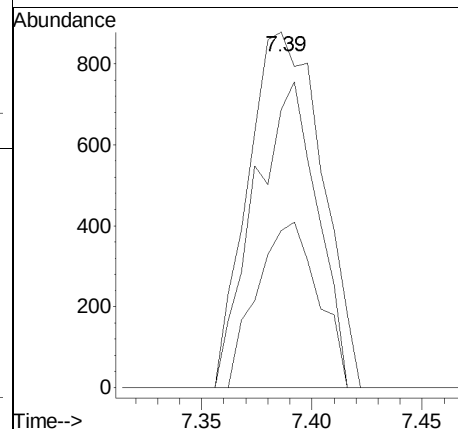
Tgt Ion	Ratio	Lower	Upper
76	100		
44	1221.4	8.8	13.2#

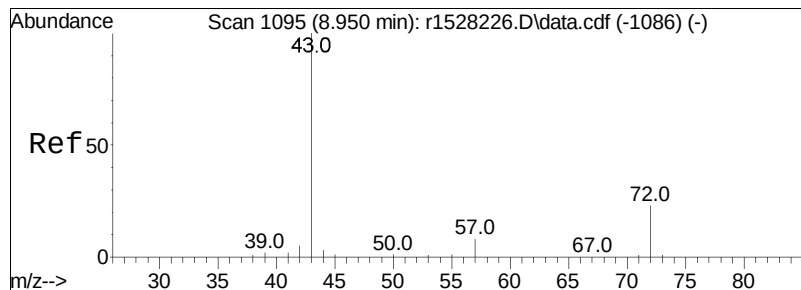




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 7.39 min Scan# 892
 Delta R.T. -0.042 min
 Lab File: r1528488.D
 Acq: 21 Sep 2021 11:03 PM

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	2051		
85	44.1		33.5	50.3
151	78.2		54.3	81.5





#36

2-butanone

Concen: 3.44 ppbV

RT: 8.92 min Scan# 1091

Delta R.T. -0.033 min

Lab File: r1528488.D

Acq: 21 Sep 2021 11:03 PM

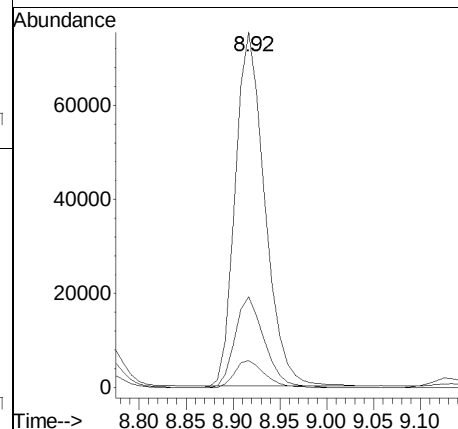
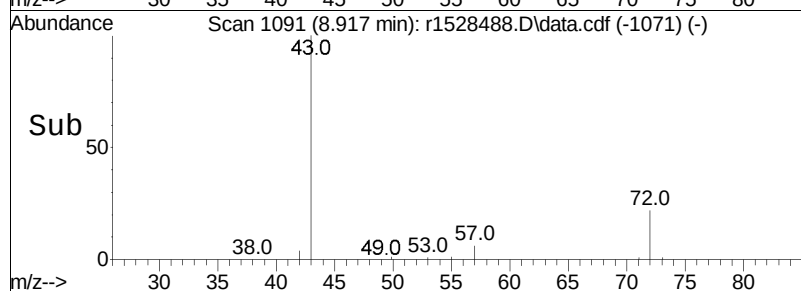
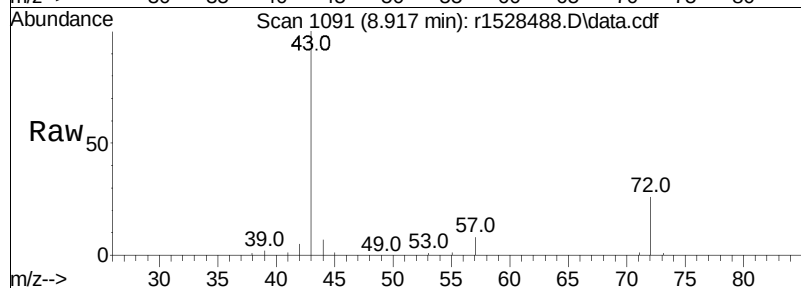
Tgt Ion: 43 Resp: 164838

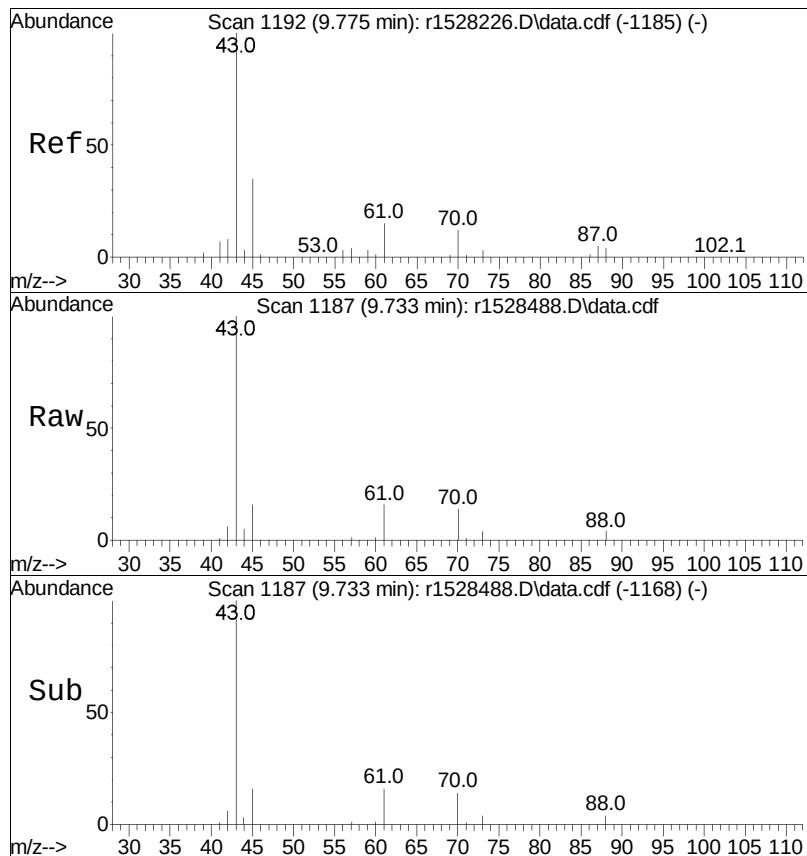
Ion Ratio Lower Upper

43 100

72 25.5 18.3 27.5

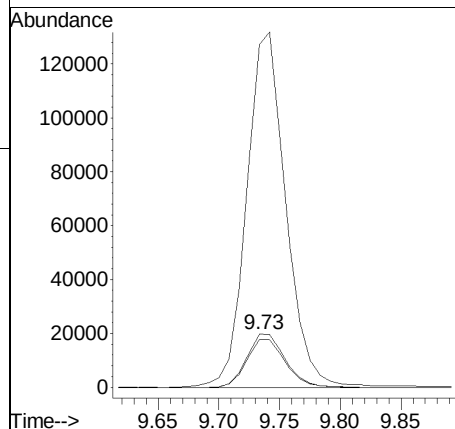
57 7.6 6.6 10.0

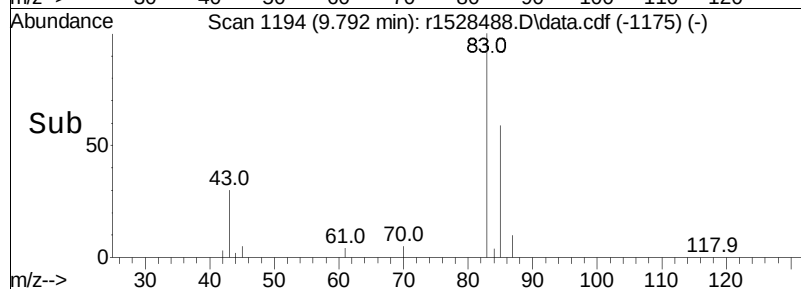
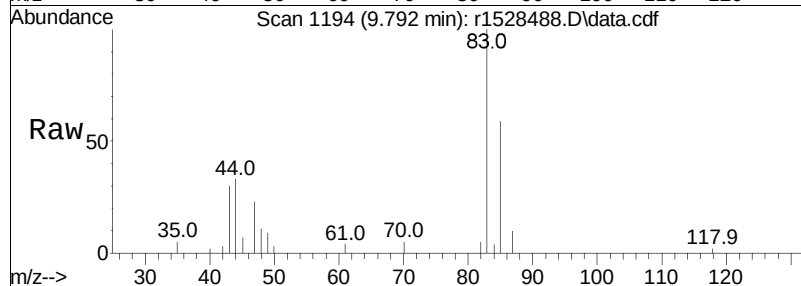
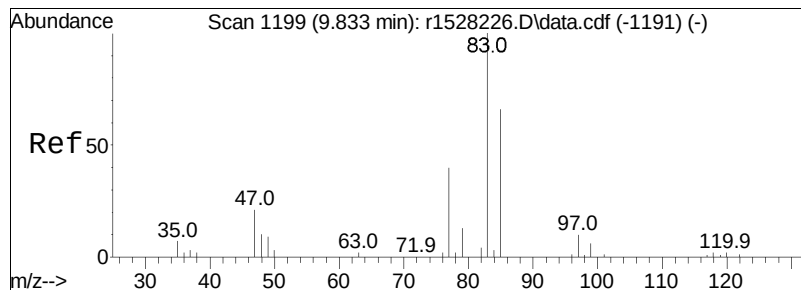




#38
 Ethyl Acetate
 Concen: 4.88 ppbV
 RT: 9.73 min Scan# 1187
 Delta R.T. -0.042 min
 Lab File: r1528488.D
 Acq: 21 Sep 2021 11:03 PM

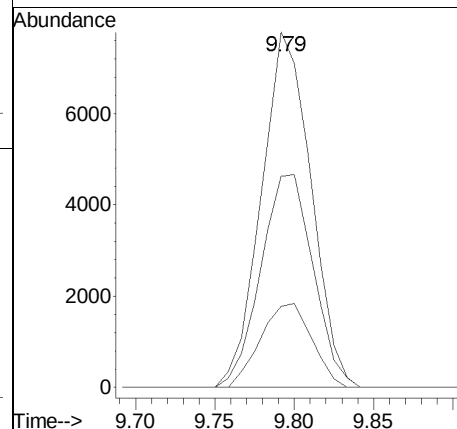
Tgt	Ion: 61	Resp:	43808
Ion	Ratio	Lower	Upper
61	100		
70	89.9	61.9	92.9
43	644.3	568.7	853.1

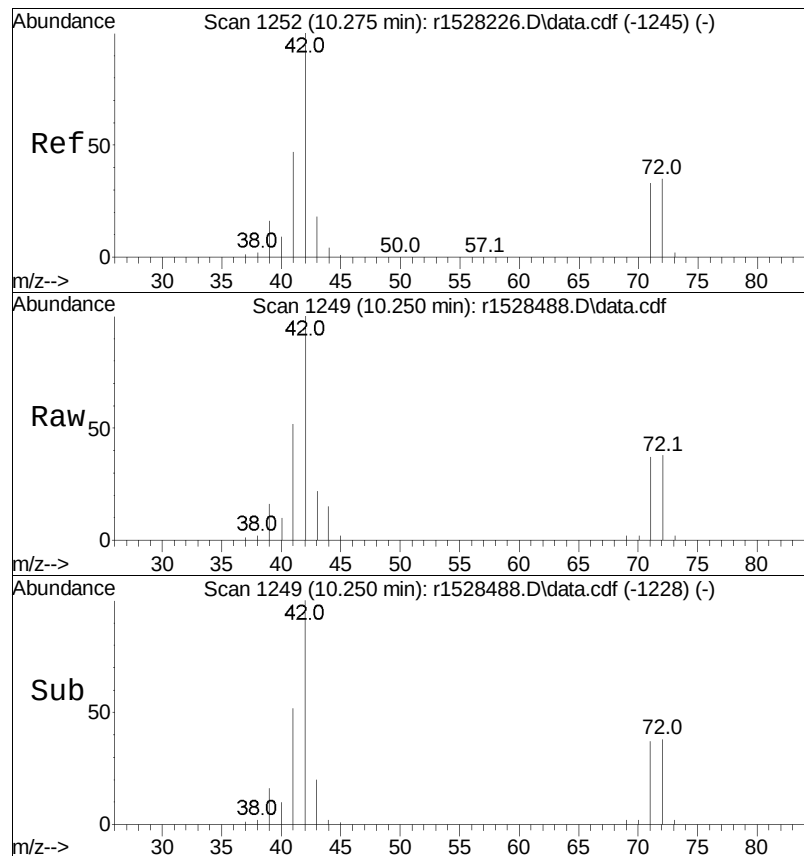




#39
chloroform
Concen: 0.50 ppbV
RT: 9.79 min Scan# 1194
Delta R.T. -0.042 min
Lab File: r1528488.D
Acq: 21 Sep 2021 11:03 PM

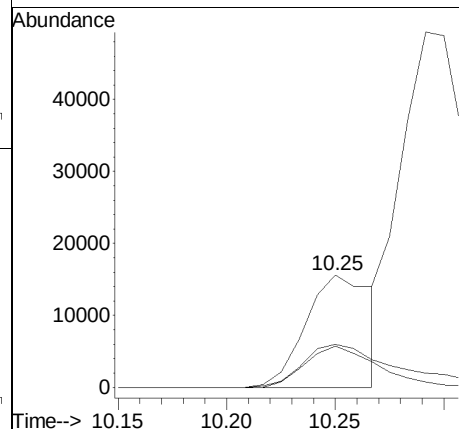
Tgt	Ion	Ratio	Resp	Lower	Upper
83	100		16914		
85	59.4	52.9		79.3	
47	22.8	17.4		26.0	

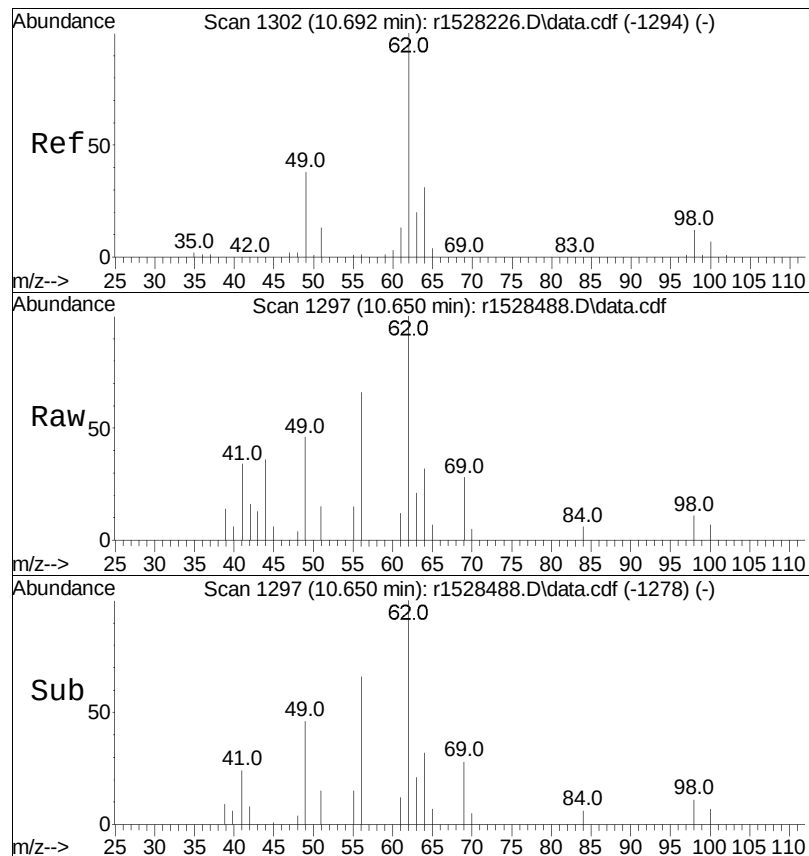




#40
 Tetrahydrofuran
 Concen: 1.07 ppbV m
 RT: 10.25 min Scan# 1249
 Delta R.T. -0.025 min
 Lab File: r1528488.D
 Acq: 21 Sep 2021 11:03 PM

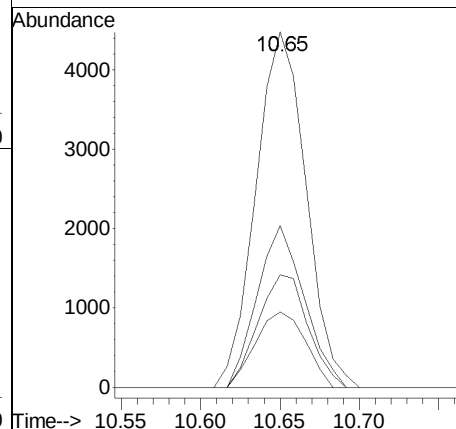
Tgt Ion:	42	Resp:	32846
Ion Ratio	Lower	Upper	
42	100		
71	36.7	26.8	40.2
72	38.3	27.9	41.9

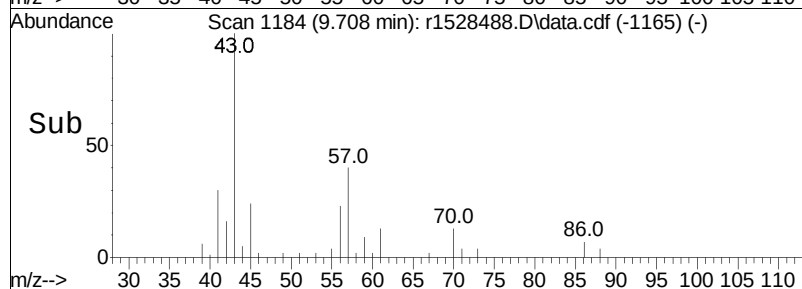
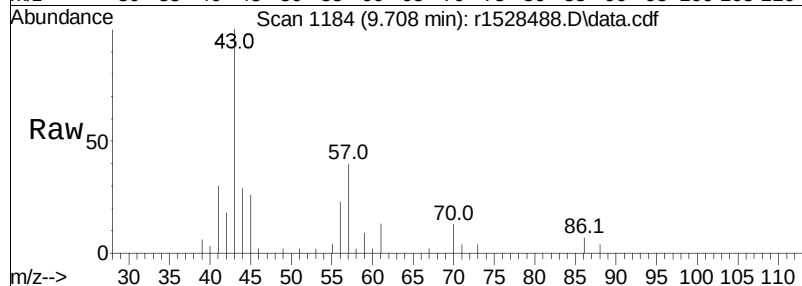
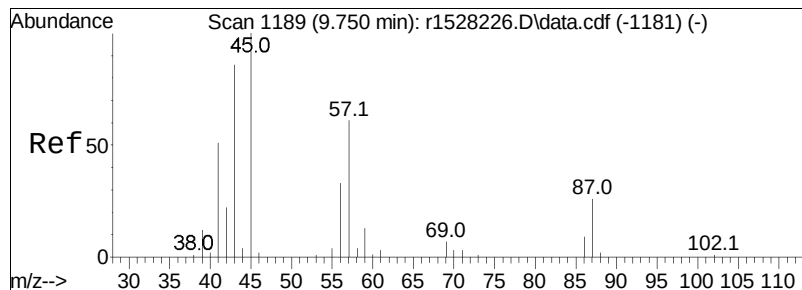




#42
 1,2-dichloroethane
 Concen: 0.43 ppbV
 RT: 10.65 min Scan# 1297
 Delta R.T. -0.042 min
 Lab File: r1528488.D
 Acq: 21 Sep 2021 11:03 PM

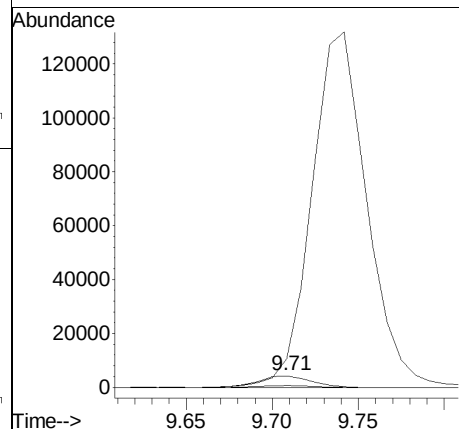
Tgt Ion:	62	Resp:	9828
Ion Ratio	Lower	Upper	
62	100		
64	31.7	24.7	37.1
49	45.5	30.4	45.6
63	21.2	16.2	24.4

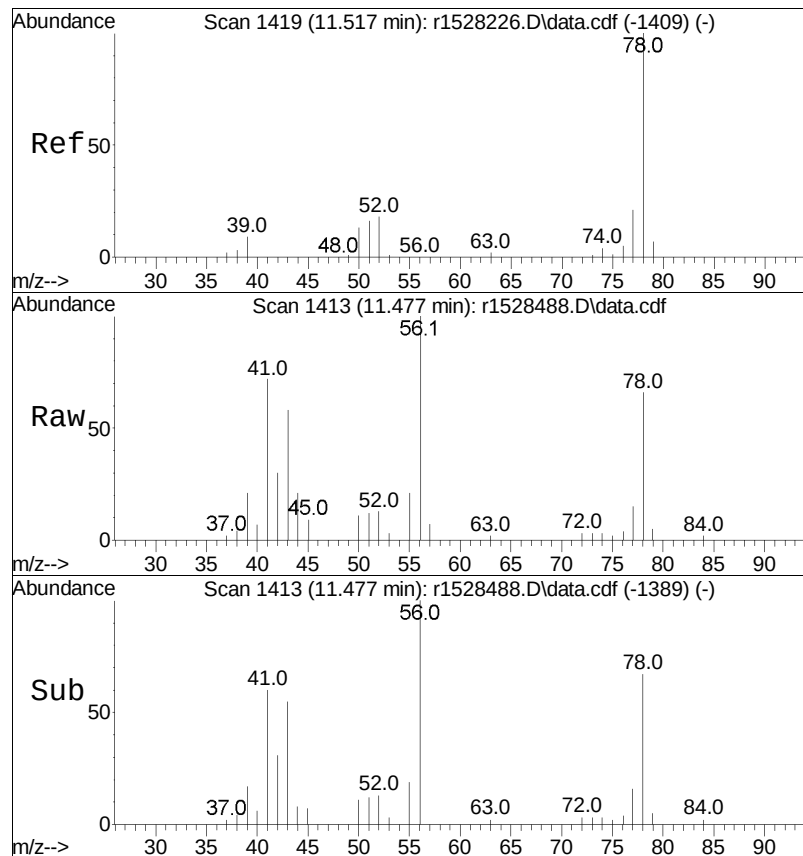




#44
hexane
Concen: 0.20 ppbV
RT: 9.71 min Scan# 1184
Delta R.T. -0.042 min
Lab File: r1528488.D
Acq: 21 Sep 2021 11:03 PM

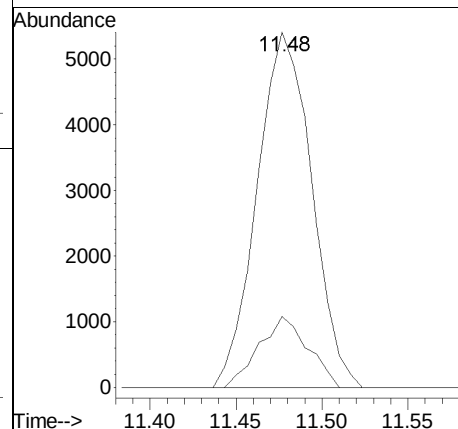
Tgt	Ion	Resp	Lower	Upper
57	100			
43	250.0	113.8	170.8#	
86	17.3	11.6	17.4	

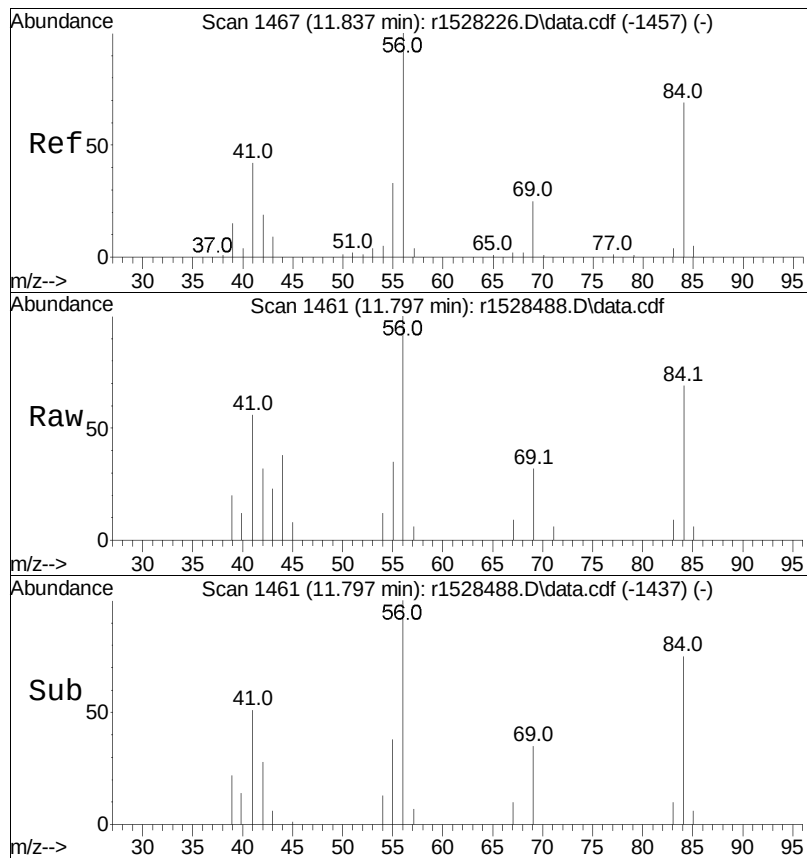




#50
benzene
Concen: 0.16 ppbV
RT: 11.48 min Scan# 1413
Delta R.T. -0.040 min
Lab File: r1528488.D
Acq: 21 Sep 2021 11:03 PM

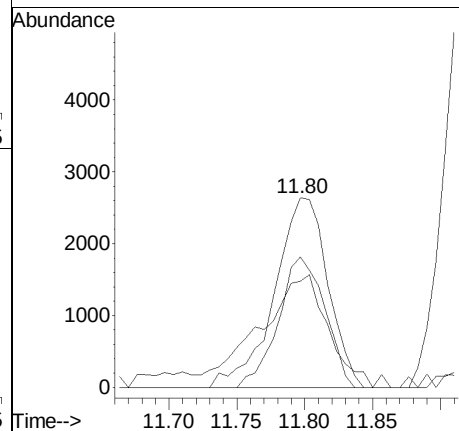
Tgt Ion	Ratio	Lower	Upper
78	100		
52	20.0	14.2	21.4

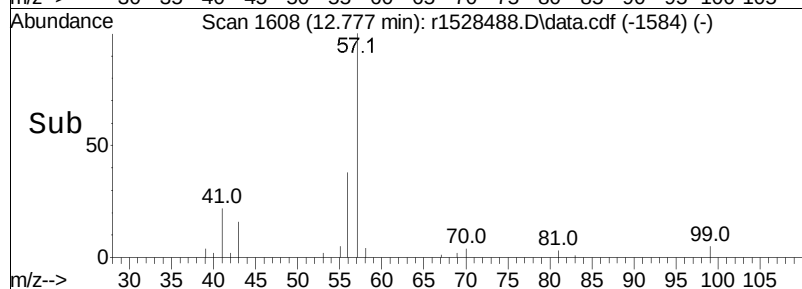
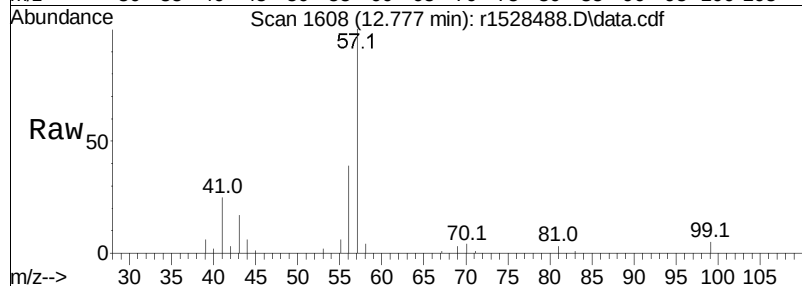
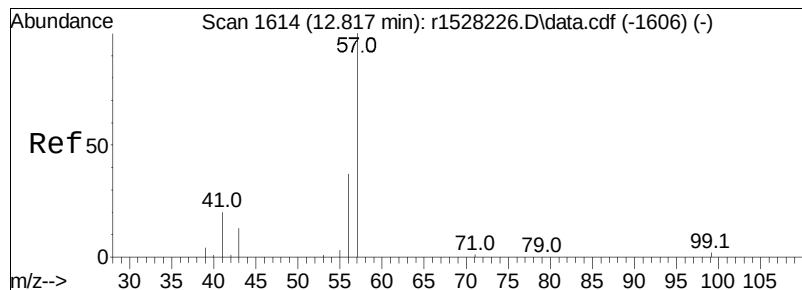




#53
cyclohexane
Concen: 0.14 ppbV
RT: 11.80 min Scan# 1461
Delta R.T. -0.040 min
Lab File: r1528488.D
Acq: 21 Sep 2021 11:03 PM

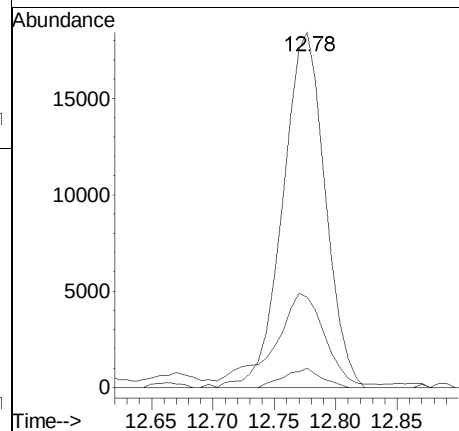
Tgt	Ion: 56	Resp:	7225
Ion	Ratio	Lower	Upper
56	100		
84	68.8	54.9	82.3
41	56.0	34.0	51.0#

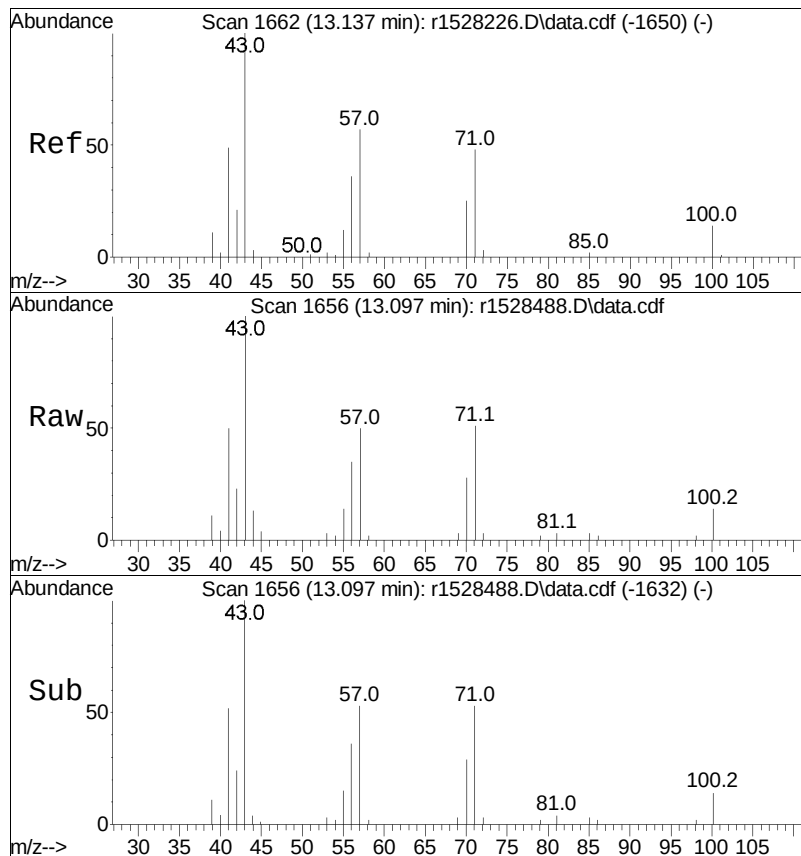




#60
 2,2,4-trimethylpentane
 Concen: 0.29 ppbV
 RT: 12.78 min Scan# 1608
 Delta R.T. -0.040 min
 Lab File: r1528488.D
 Acq: 21 Sep 2021 11:03 PM

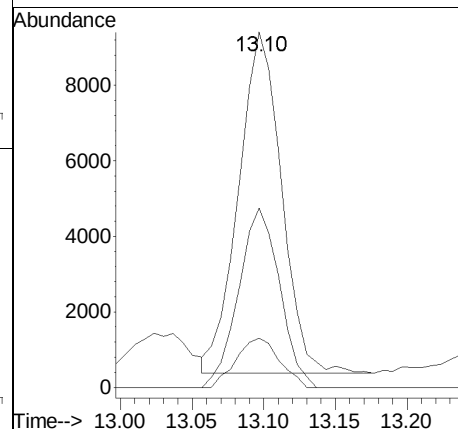
Tgt	Ion	Resp	Lower	Upper
57	100			
99	5.4	3.3	4.9#	
41	25.4	16.2	24.2#	

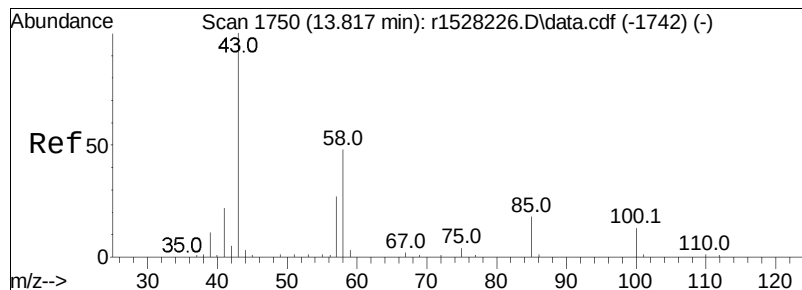




#62
 heptane
 Concen: 0.36 ppbV
 RT: 13.10 min Scan# 1656
 Delta R.T. -0.040 min
 Lab File: r1528488.D
 Acq: 21 Sep 2021 11:03 PM

Tgt Ion:	43	Resp:	18881
Ion Ratio	Lower	Upper	
43	100		
57	50.5	45.5	68.3
100	13.9	11.7	17.5





#64

4-methyl-2-pentanone

Concen: 0.14 ppbV

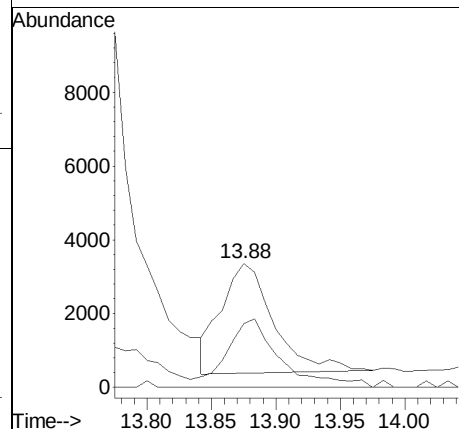
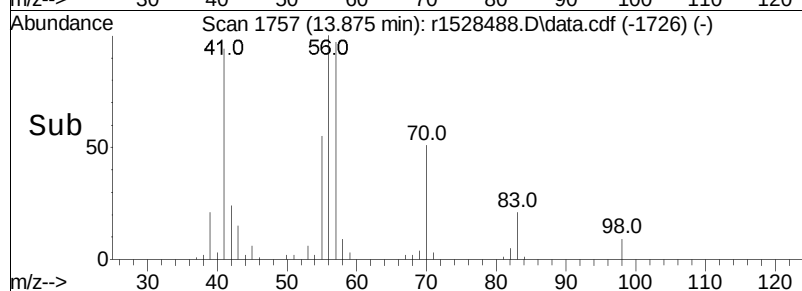
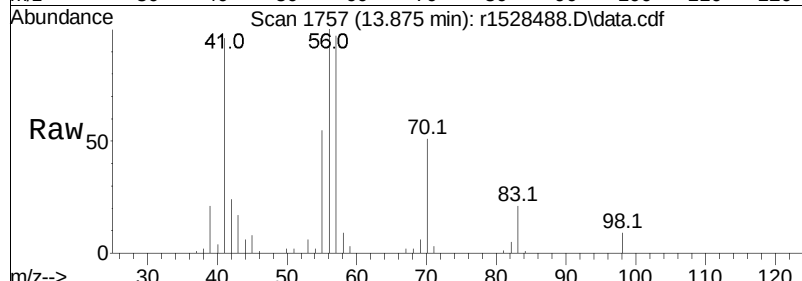
RT: 13.88 min Scan# 1757

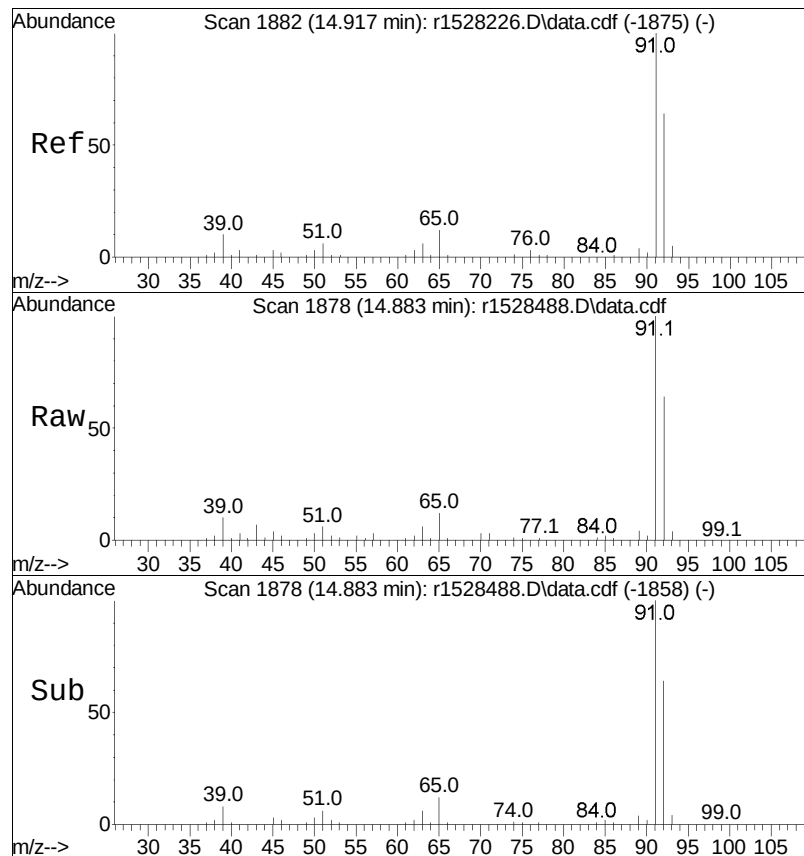
Delta R.T. 0.058 min

Lab File: r1528488.D

Acq: 21 Sep 2021 11:03 PM

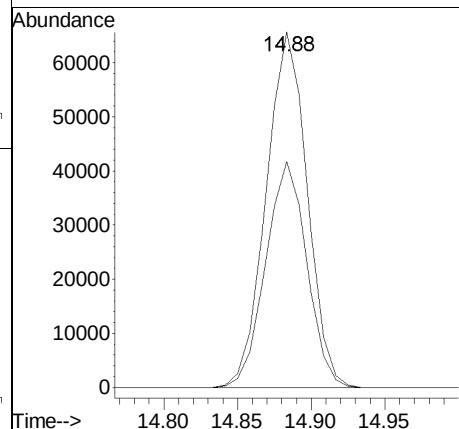
Tgt	Ion: 43	Resp:	8466
Ion	Ratio	Lower	Upper
43	100		
58	51.5	38.5	57.7
100	0.0	10.6	16.0#

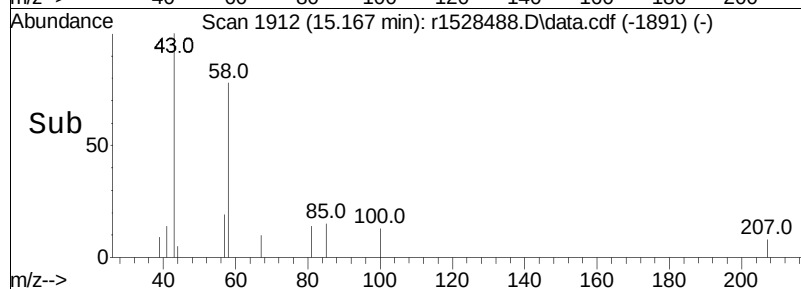
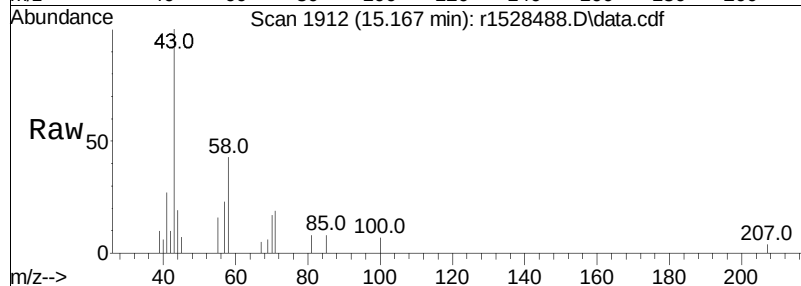
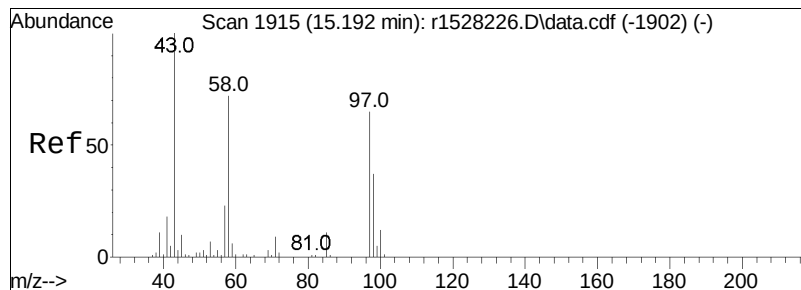




#68
toluene
Concen: 1.57 ppbV
RT: 14.88 min Scan# 1878
Delta R.T. -0.033 min
Lab File: r1528488.D
Acq: 21 Sep 2021 11:03 PM

Tgt	Ion	Resp	Lower	Upper
91	100	126982		
92	63.5	51.6	77.4	





#72

2-hexanone

Concen: 0.17 ppbV

RT: 15.17 min Scan# 1912

Delta R.T. -0.025 min

Lab File: r1528488.D

Acq: 21 Sep 2021 11:03 PM

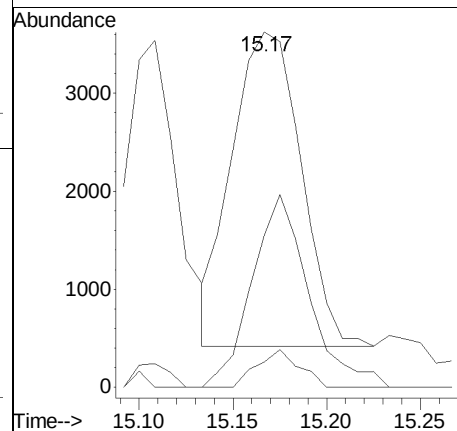
Tgt Ion: 43 Resp: 8199

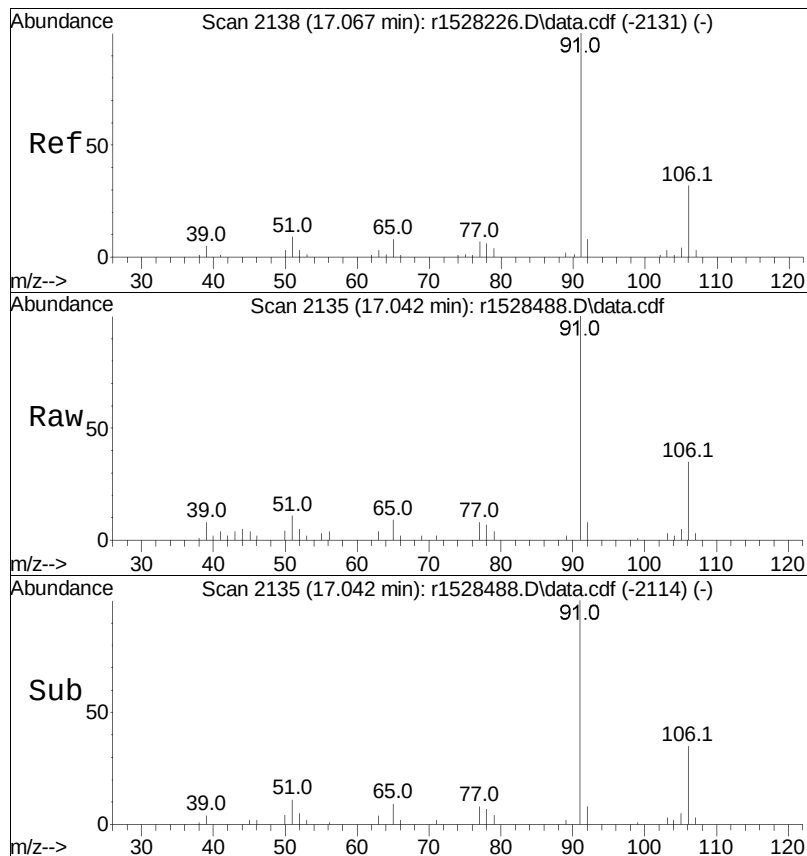
Ion Ratio Lower Upper

43 100

58 42.8 57.9 86.9#

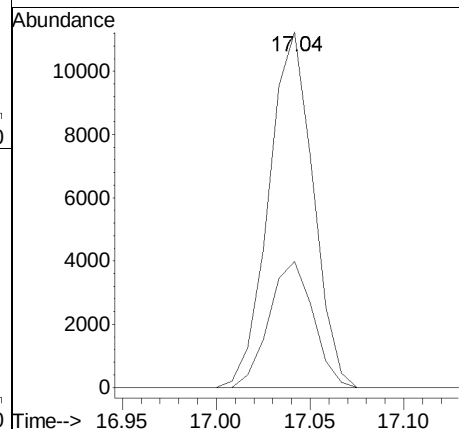
100 7.2 9.8 14.8#

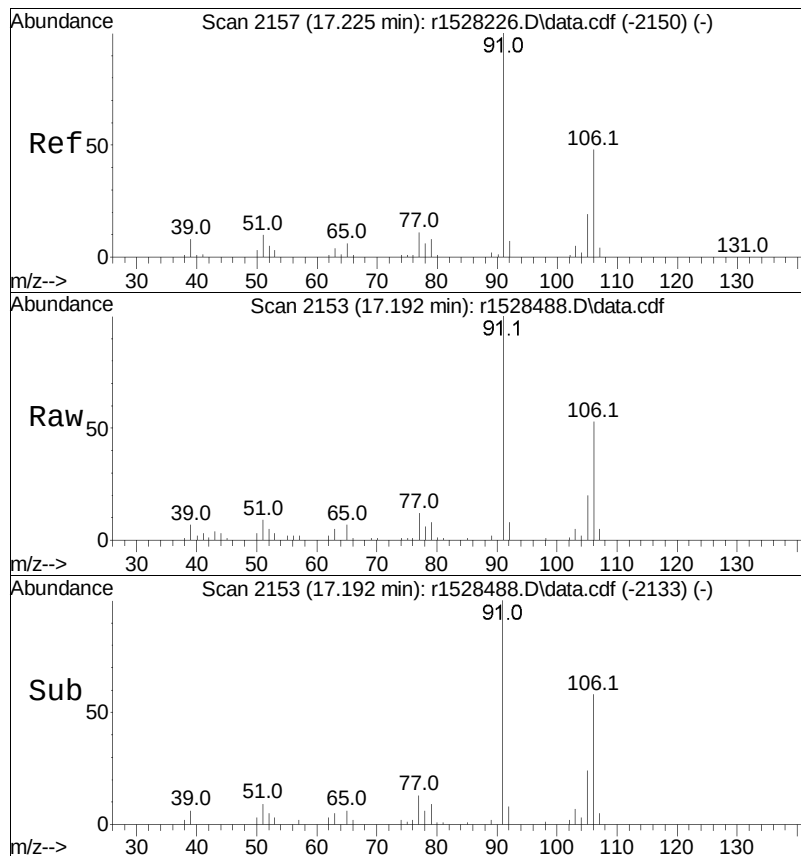




#81
ethylbenzene
Concen: 0.19 ppbV
RT: 17.04 min Scan# 2135
Delta R.T. -0.025 min
Lab File: r1528488.D
Acq: 21 Sep 2021 11:03 PM

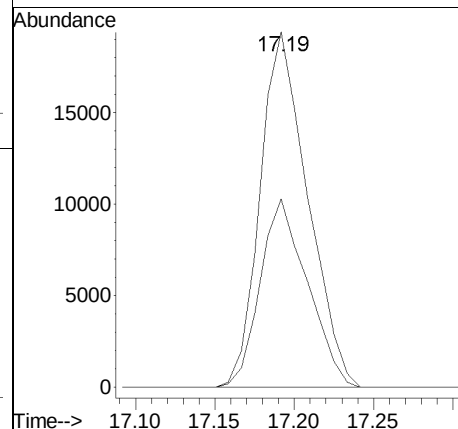
Tgt	Ion	Resp	Lower	Upper
91	100	18468		
106	35.5	25.3	37.9	

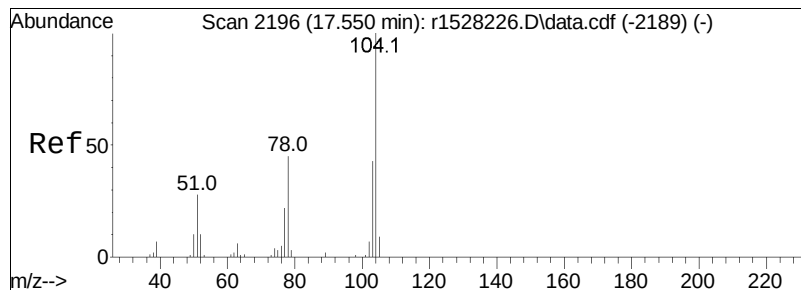




#83
 m+p-xylene
 Concen: 0.52 ppbV
 RT: 17.19 min Scan# 2153
 Delta R.T. -0.033 min
 Lab File: r1528488.D
 Acq: 21 Sep 2021 11:03 PM

Tgt	Ion	Resp	Lower	Upper
91	100	40403		
106	53.1	38.6	58.0	





#85

styrene

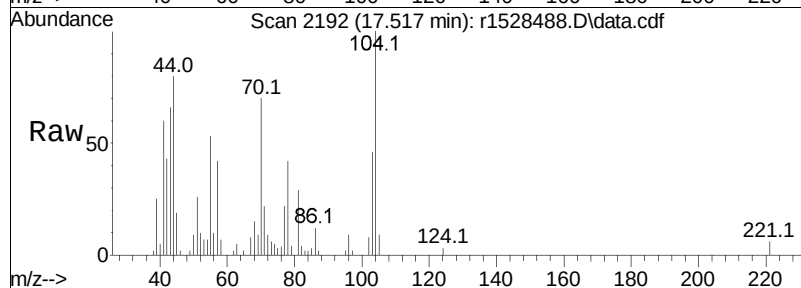
Concen: 0.27 ppbV

RT: 17.52 min Scan# 2192

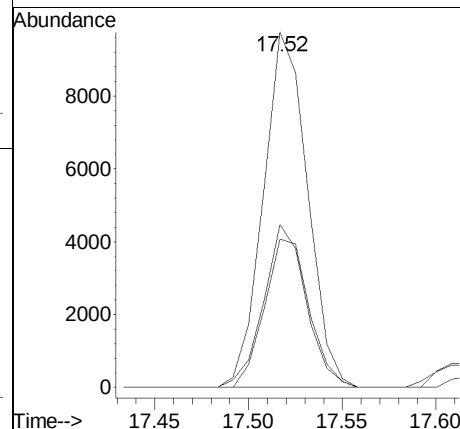
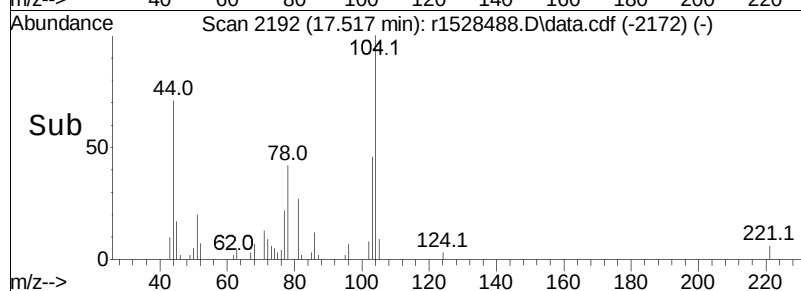
Delta R.T. -0.033 min

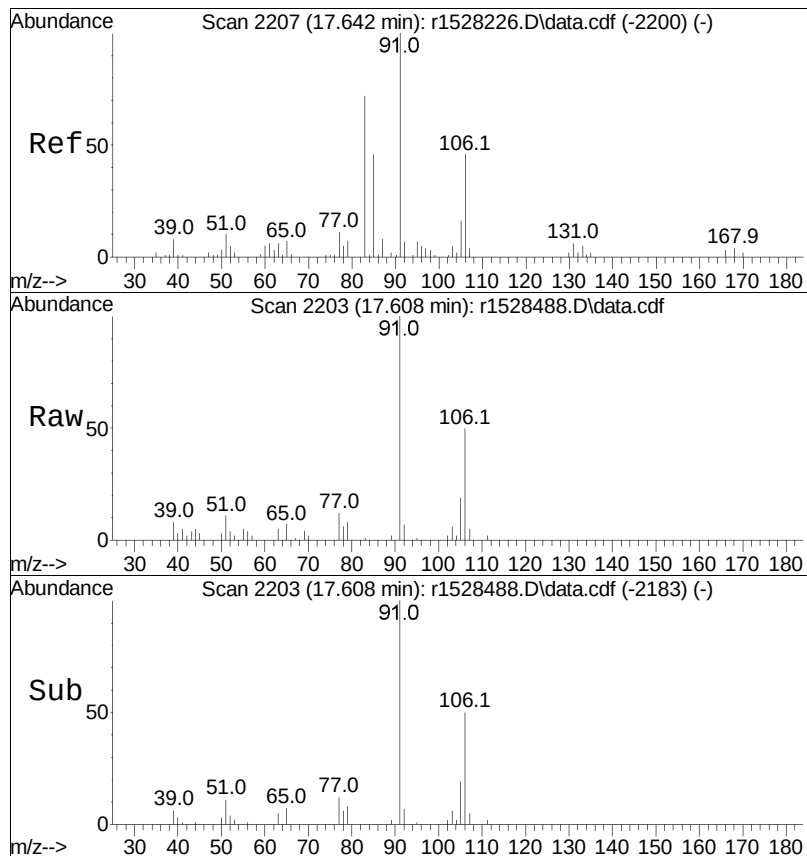
Lab File: r1528488.D

Acq: 21 Sep 2021 11:03 PM



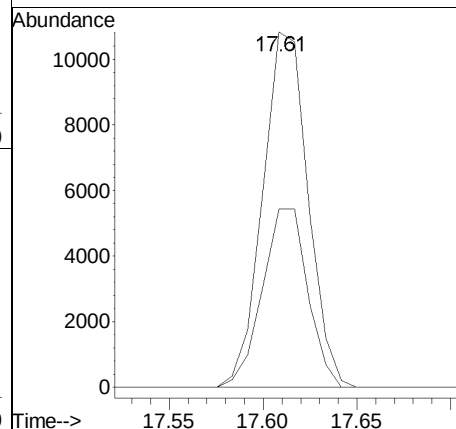
Tgt	Ion:104	Resp:	15967
Ion	Ratio	Lower	Upper
104	100		
103	45.8	34.1	51.1
78	41.7	35.8	53.8

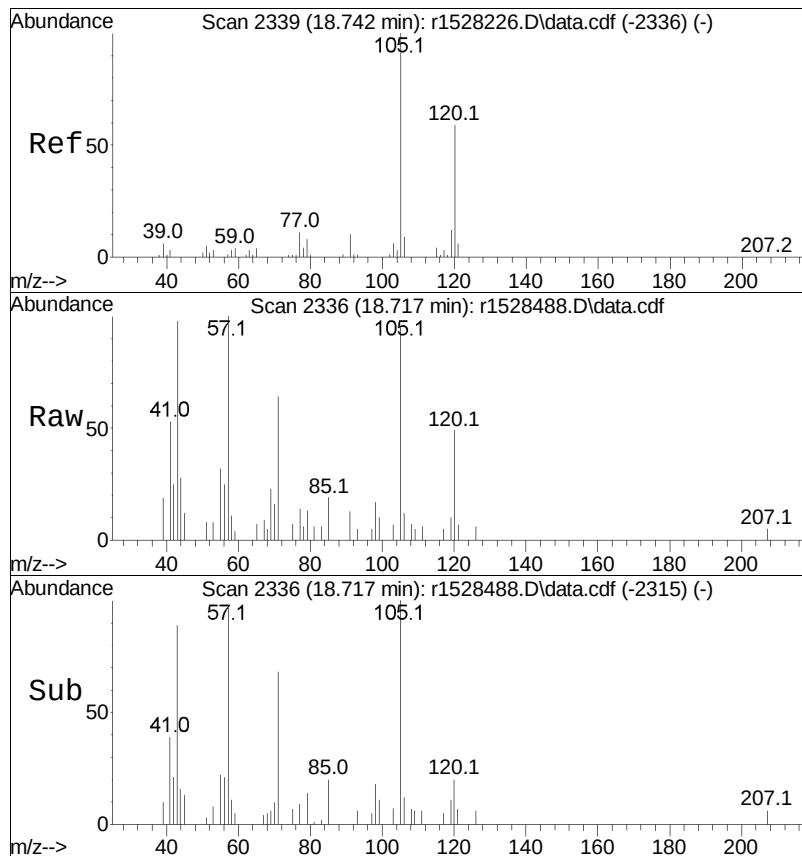




#87
 o-xylene
 Concen: 0.24 ppbV
 RT: 17.61 min Scan# 2203
 Delta R.T. -0.033 min
 Lab File: r1528488.D
 Acq: 21 Sep 2021 11:03 PM

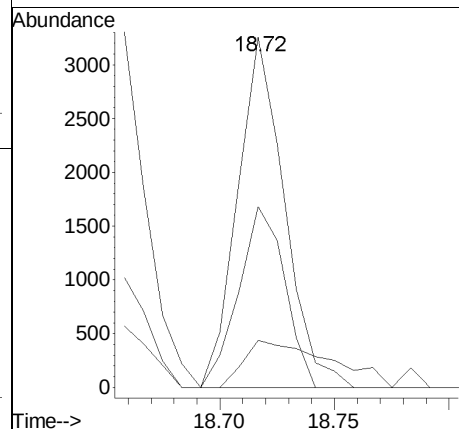
Tgt	Ion	Resp	Lower	Upper
91	100	18216		
106	50.1	36.5	54.7	

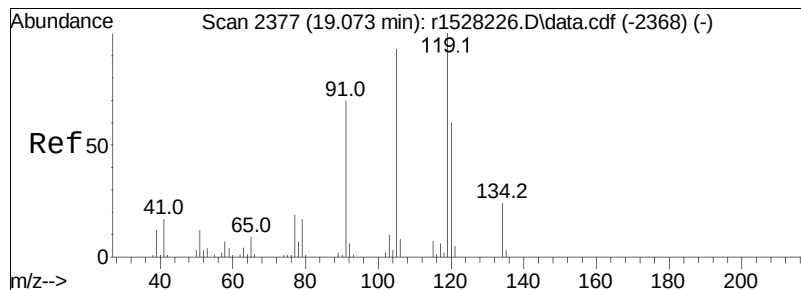




#97
 1,3,5-trimethylbenzene
 Concen: 0.06 ppbV
 RT: 18.72 min Scan# 2336
 Delta R.T. -0.025 min
 Lab File: r1528488.D
 Acq: 21 Sep 2021 11:03 PM

Tgt Ion:	105	Resp:	4620
Ion Ratio	Lower	Upper	
105	100		
120	51.6	47.4	71.0
91	13.4	7.9	11.9#





#99

1,2,4-trimethylbenzene

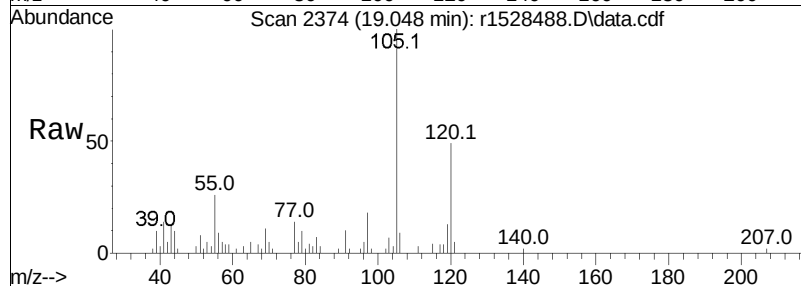
Concen: 0.18 ppbV

RT: 19.05 min Scan# 2374

Delta R.T. -0.025 min

Lab File: r1528488.D

Acq: 21 Sep 2021 11:03 PM



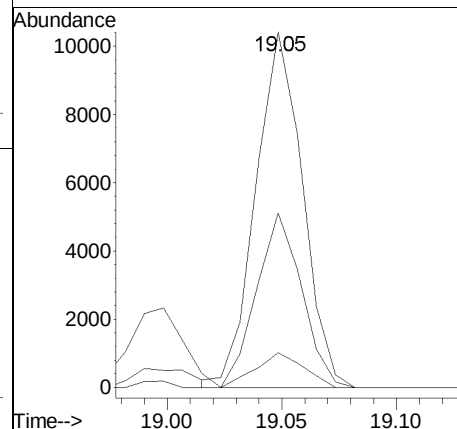
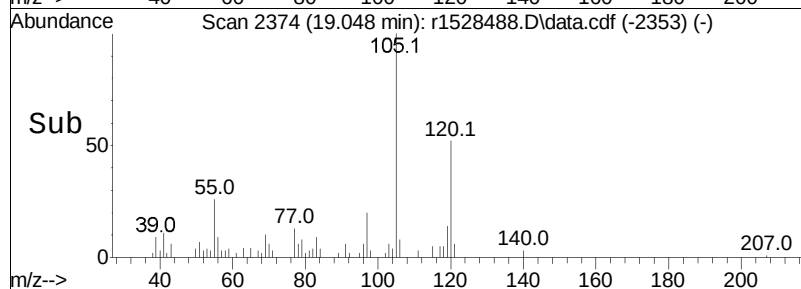
Tgt Ion:105 Resp: 14768

Ion Ratio Lower Upper

105 100

120 49.1 51.8 77.6#

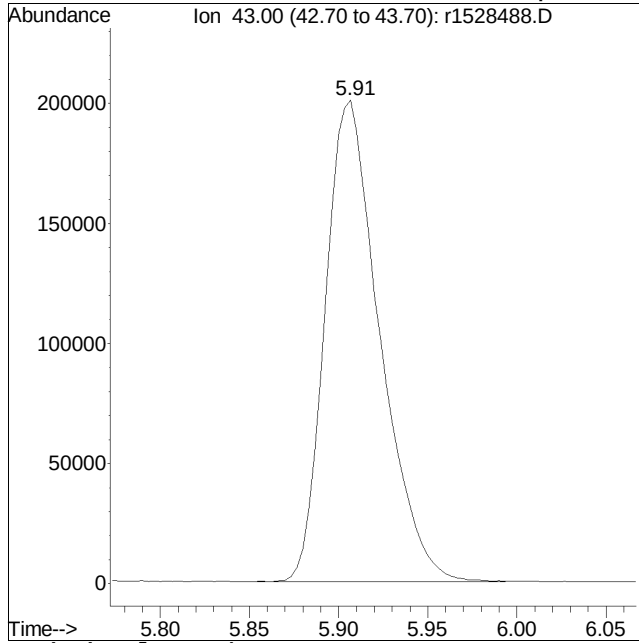
91 9.7 59.5 89.3#



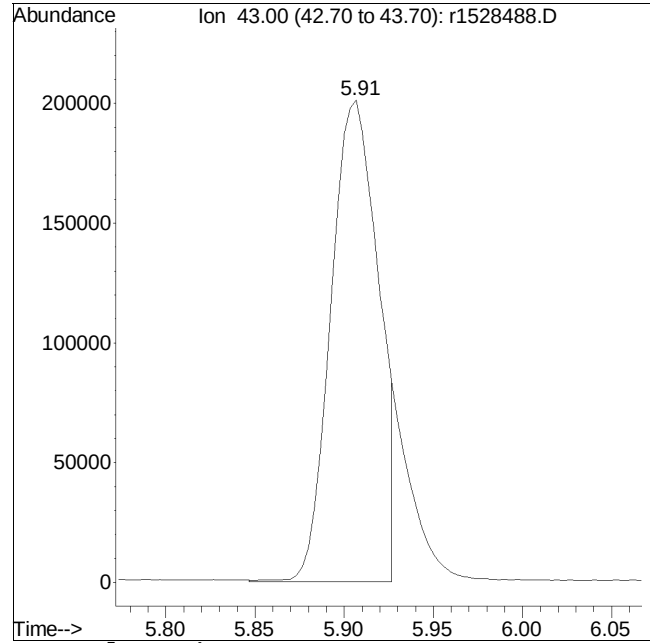
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528488.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:1: 3 Instrument :
Sample : L2150027-05,3,250,250 Quant Date : 9/22/2021 7:23 am

Compound #19: acetone



Original Peak Response = 427017



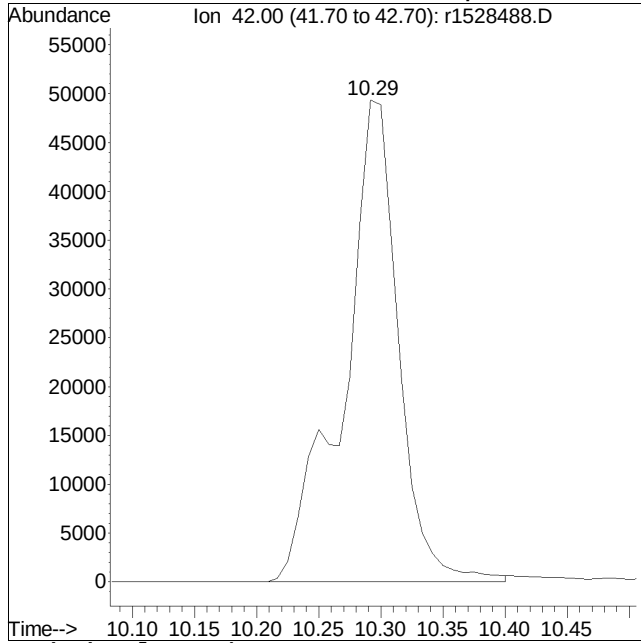
Manual Peak Response = 376944 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

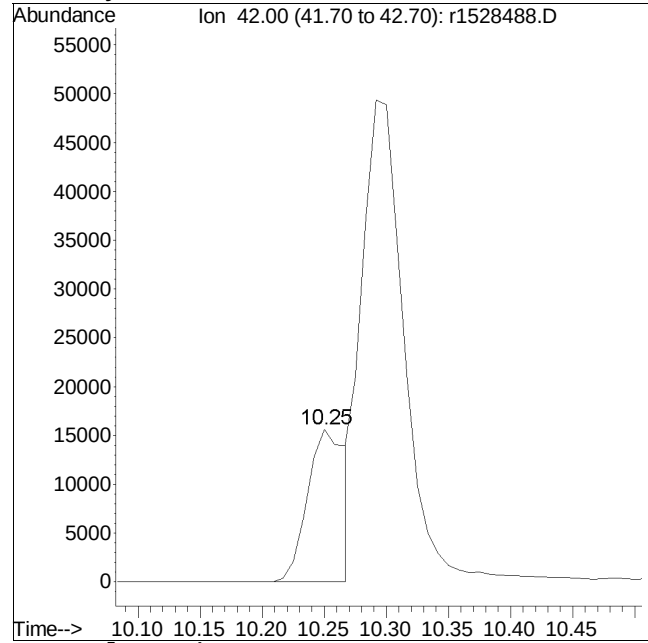
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528488.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:1: 3 Instrument :
Sample : L2150027-05,3,250,250 Quant Date : 9/22/2021 7:23 am

Compound #40: Tetrahydrofuran



Original Peak Response = 151403

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

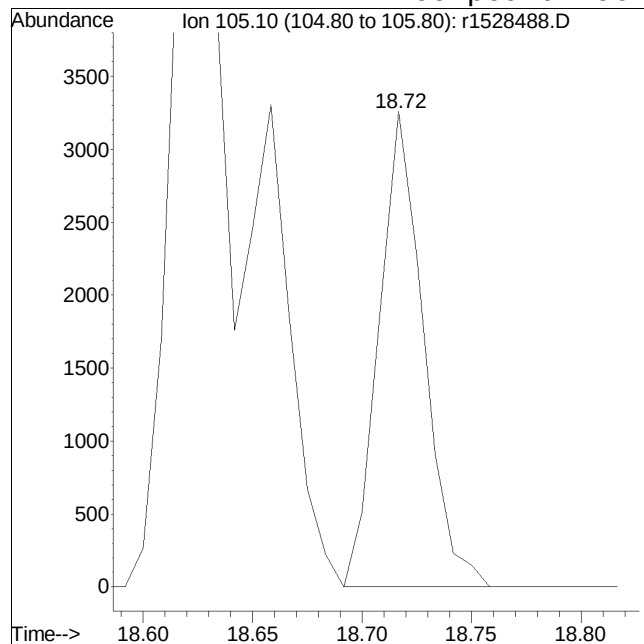


Manual Peak Response = 32846 M6

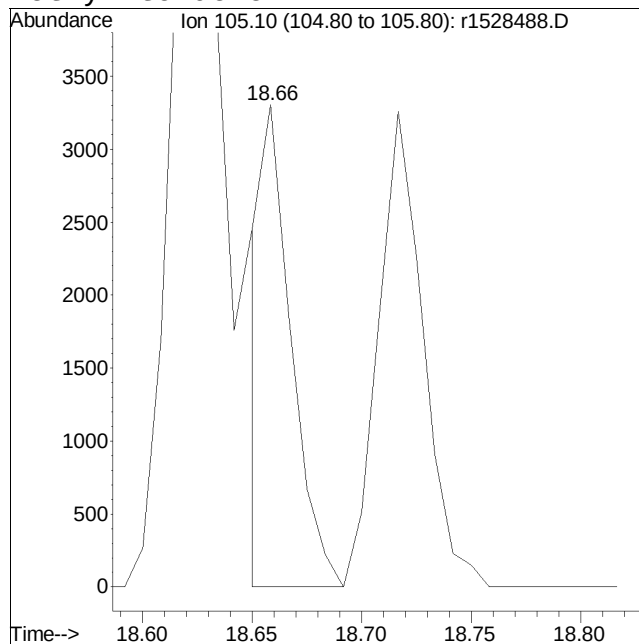
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
 Data File : r1528488.D Operator : AIRLAB15:RY
 Date Inj'd : 9/21/2020 0:1: 3 Instrument :
 Sample : L2150027-05,3,250,250 Quant Date : 9/22/2021 7:23 am

Compound #96: 4-ethyl toluene



Original Peak Response = 4620



Manual Peak Response = 3028 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528489.D
 Acq On : 21 Sep 2021 11:41 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-01D, 3, 200, 250
 Misc : WG1549026, ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:22:00 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.63	49	396292	10.000	ppbV	-0.05
Standard Area = 344610			Recovery =	115.00%		
43) 1,4-difluorobenzene	11.92	114	919513	10.000	ppbV	-0.04
Standard Area = 879831			Recovery =	104.51%		
67) chlorobenzene-D5	16.66	54	176983	10.000	ppbV	-0.02
Standard Area = 155534			Recovery =	113.79%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.99	85	26455	0.897	ppbV	93
6) chloromethane	4.17	50	9940	0.634	ppbV	95
7) Freon-114	4.31		0	N.D.		
9) vinyl chloride	4.43		0	N.D.		
10) 1,3-butadiene	4.60	54	2992M3	0.180	ppbV	
13) bromomethane	0.00		0	N.D.		
14) chloroethane	5.14		0	N.D.		
15) ethanol	5.31	31	632889	51.653	ppbV	91
17) vinyl bromide	5.45		0	N.D.		
19) acetone	5.88	43	3057166	116.986	ppbV	96
21) trichlorofluoromethane	6.11	101	43534	1.664	ppbV	99
22) isopropyl alcohol	6.21	45	647485	21.051	ppbV	98
26) 1,1-dichloroethene	0.00		0	N.D.	d	
27) tertiary butyl alcohol	6.95	59	178572	5.054	ppbV #	78
28) methylene chloride	7.05	49	17302	0.900	ppbV	95
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	7.34	76	47959	0.963	ppbV #	1
31) Freon 113	7.39	101	1849	0.060	ppbV	97
32) trans-1,2-dichloroethene	8.20		0	N.D.		
33) 1,1-dichloroethane	8.50		0	N.D.		
34) MTBE	0.00		0	N.D.	d	
36) 2-butanone	8.90	43	3125467	64.419	ppbV	95
37) cis-1,2-dichloroethene	9.43	61	20320	0.655	ppbV	93
38) Ethyl Acetate	9.74	61	2907	0.320	ppbV #	87
39) chloroform	9.79	83	13039	0.383	ppbV	92
40) Tetrahydrofuran	10.23	42	154315	4.972	ppbV	92
42) 1,2-dichloroethane	10.65	62	20206	0.879	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528489.D
 Acq On : 21 Sep 2021 11:41 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-01D, 3, 200, 250
 Misc : WG1549026, ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:22:00 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) hexane	9.71	57	51249	1.137	ppbV	#	47
48) 1,1,1-trichloroethane	0.00		0	N.D.			
50) benzene	11.48	78	68270	0.941	ppbV		98
52) carbon tetrachloride	11.65	117	1140	0.051	ppbV	#	90
53) cyclohexane	11.80	56	9332	0.191	ppbV	#	89
56) 1,2-dichloropropane	12.44		0	N.D.			
57) bromodichloromethane	0.00		0	N.D.	d		
58) 1,4-dioxane	0.00		0	N.D.			
59) trichloroethene	12.72	130	16710	0.609	ppbV		96
60) 2,2,4-trimethylpentane	0.00		0	N.D.	d		
62) heptane	13.10	43	40654	0.805	ppbV	#	87
63) cis-1,3-dichloropropene	13.77		0	N.D.			
64) 4-methyl-2-pentanone	13.79	43	14913	0.261	ppbV	#	87
65) trans-1,3-dichloropropene	14.38		0	N.D.			
66) 1,1,2-trichloroethane	14.66		0	N.D.			
68) toluene	14.88	91	110415	1.345	ppbV		97
72) 2-hexanone	15.17	43	357032	7.129	ppbV	#	84
74) dibromochloromethane	0.00		0	N.D.			
75) 1,2-dibromoethane	15.51		0	N.D.			
78) tetrachloroethene	16.05	166	222516	7.986	ppbV		96
80) chlorobenzene	16.71		0	N.D.			
81) ethylbenzene	17.04	91	19262	0.194	ppbV		98
83) m+p-xylene	17.19	91	49124	0.621	ppbV		89
84) bromoform	0.00		0	N.D.			
85) styrene	17.52	104	11490	0.193	ppbV	#	80
86) 1,1,2,2-tetrachloroethane	17.63	83	3945	0.067	ppbV	#	51
87) o-xylene	17.61	91	13362	0.171	ppbV		95
96) 4-ethyl toluene	18.66		0	N.D.			
97) 1,3,5-trimethylbenzene	18.72	105	4830	0.058	ppbV	#	88
99) 1,2,4-trimethylbenzene	19.05	105	15255	0.188	ppbV	#	52
101) Benzyl Chloride	19.16		0	N.D.			
102) 1,3-dichlorobenzene	19.23		0	N.D.			
103) 1,4-dichlorobenzene	0.00		0	N.D.	d		
107) 1,2-dichlorobenzene	19.52		0	N.D.			
115) 1,2,4-trichlorobenzene	0.00		0	N.D.			
119) hexachlorobutadiene	0.00		0	N.D.			

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528489.D
 Acq On : 21 Sep 2021 11:41 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-01D, 3, 200, 250
 Misc : WG1549026, ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:22:00 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : T015-NY - .

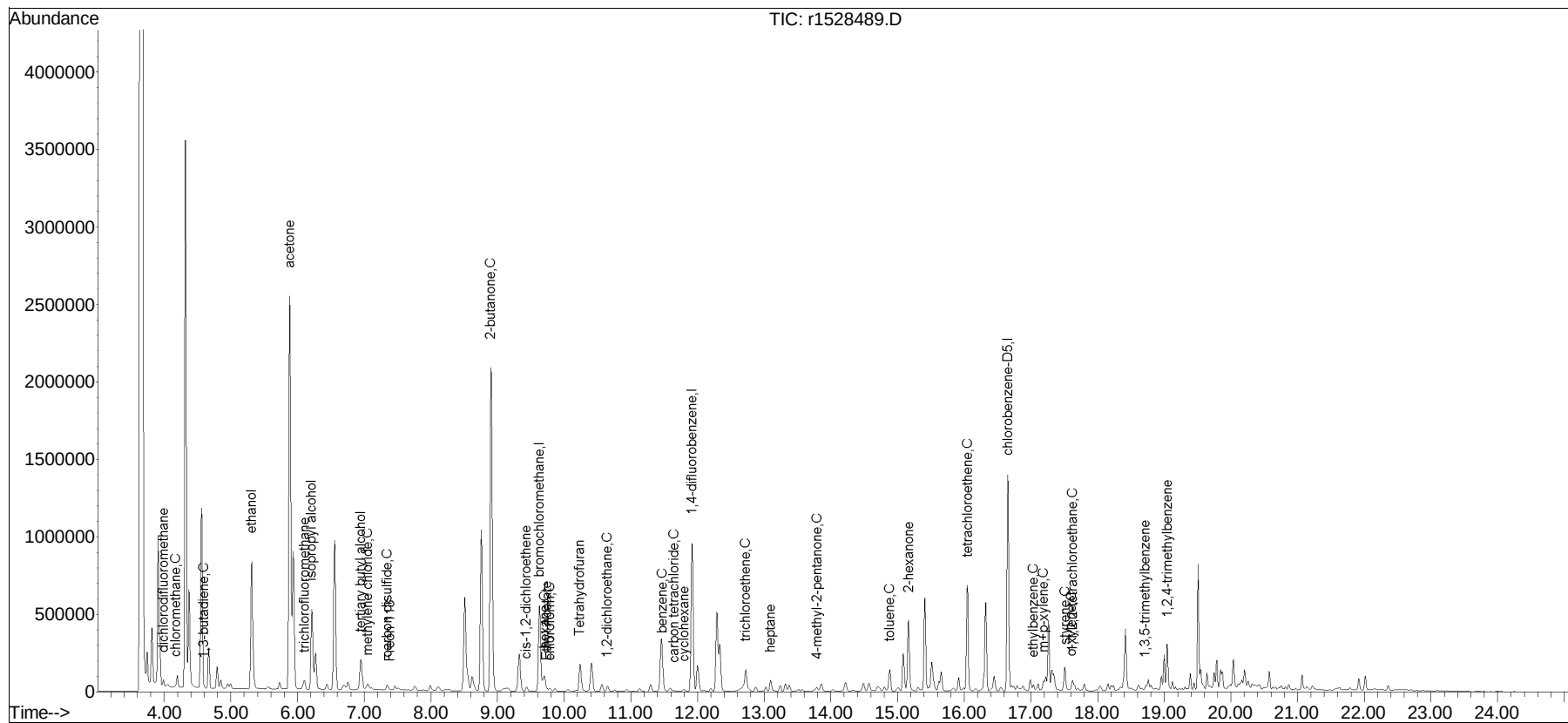
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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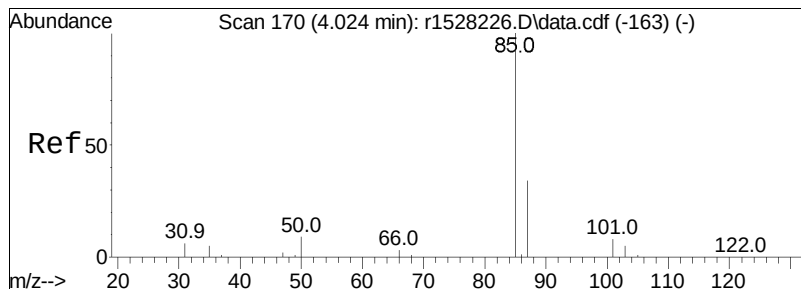
(QT Reviewed)

```
Data Path   : 0:\Forensics\Data\Airlab15\2021\09\0921T\
Data File  : r1528489.D
Acq On     : 21 Sep 2021  11:41 PM
Operator   : AIRLAB15:RY
Sample     : L2150027-01D,3,200,250
Misc       : WG1549026,ICAL18279
ALS Vial   : 0      Sample Multiplier: 1
```

Quant Time: Sep 22 13:22:00 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0921T\TFS15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 14:18:59 2021
Response via : Initial Calibration

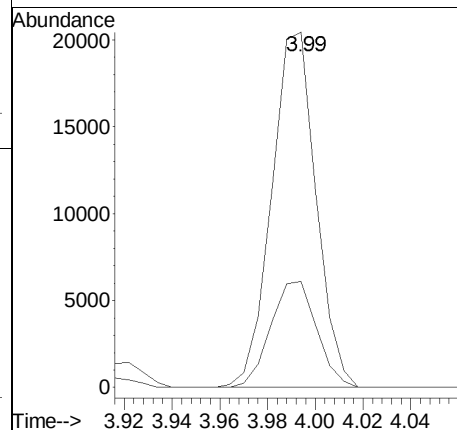
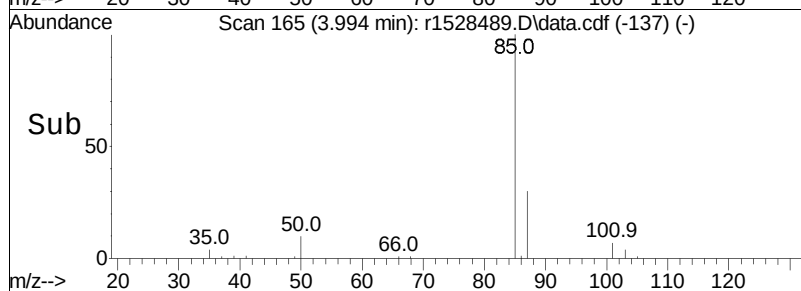
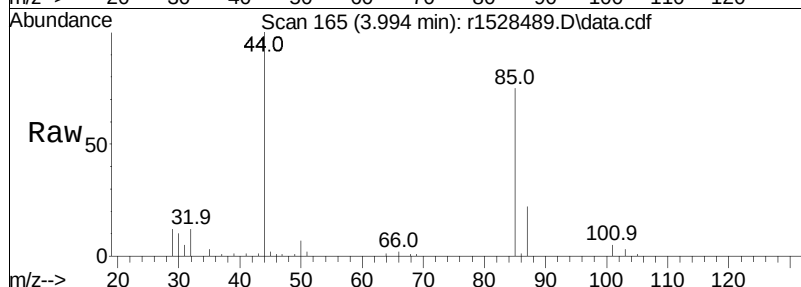
Sub List : T015-NY - .s\Data\AirLab15\2021\09\0921T\r1528475.D

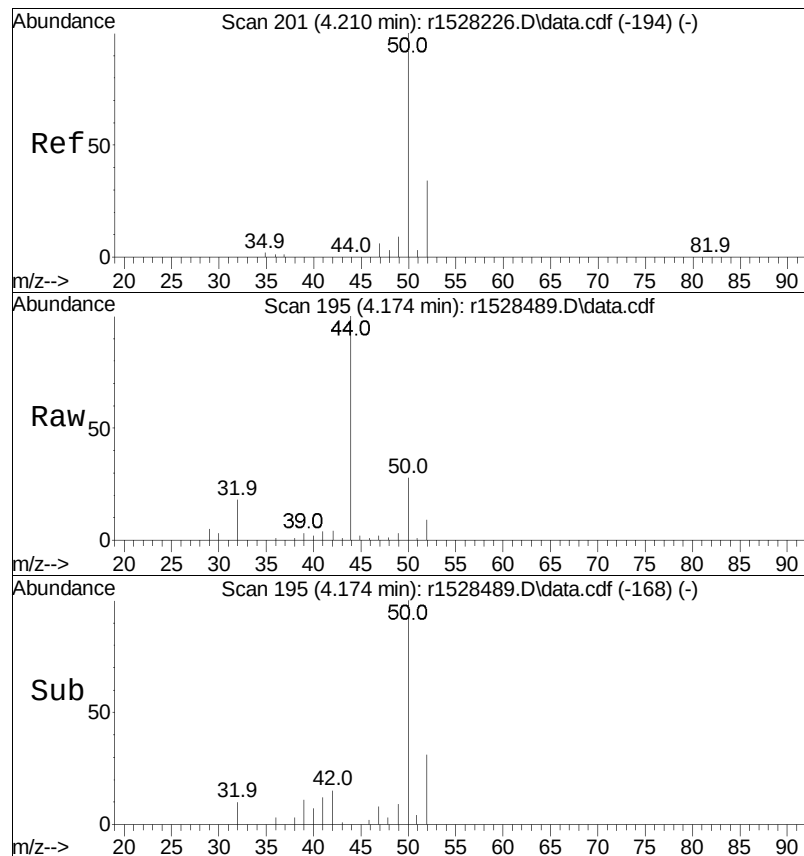




#5
dichlorodifluoromethane
Concen: 0.90 ppbV
RT: 3.99 min Scan# 165
Delta R.T. -0.030 min
Lab File: r1528489.D
Acq: 21 Sep 2021 11:41 PM

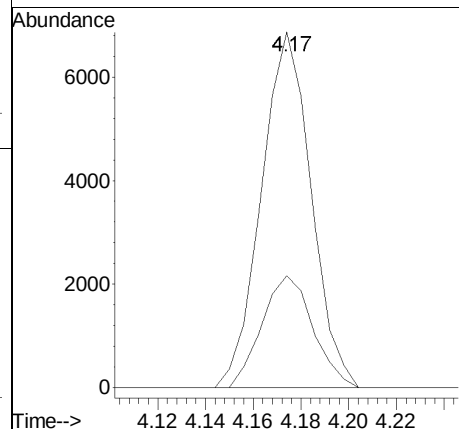
Tgt Ion: 85 Resp: 26455
Ion Ratio Lower Upper
85 100
87 29.8 27.1 40.7

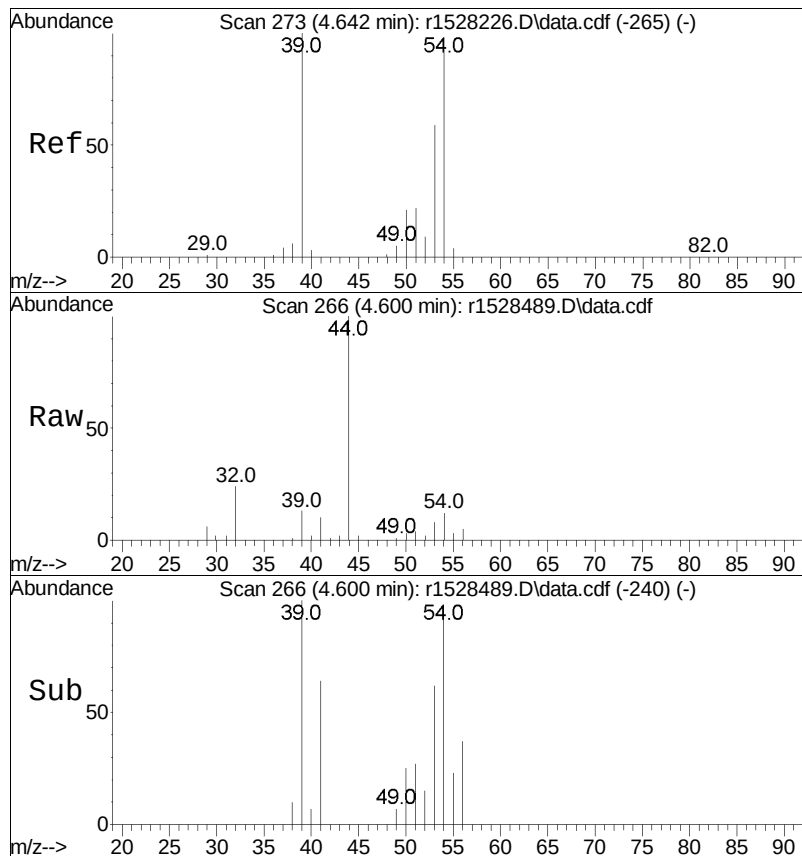




#6
 chloromethane
 Concen: 0.63 ppbV
 RT: 4.17 min Scan# 195
 Delta R.T. -0.036 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

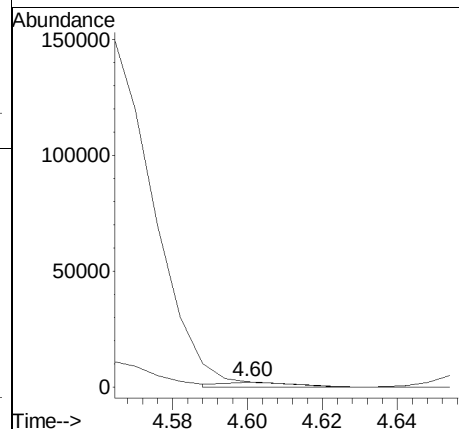
Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.4	27.6	41.4

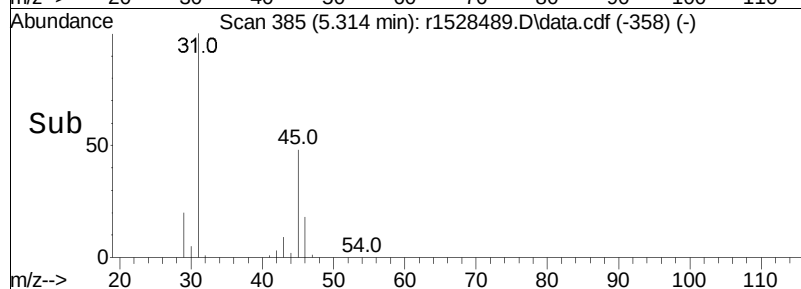
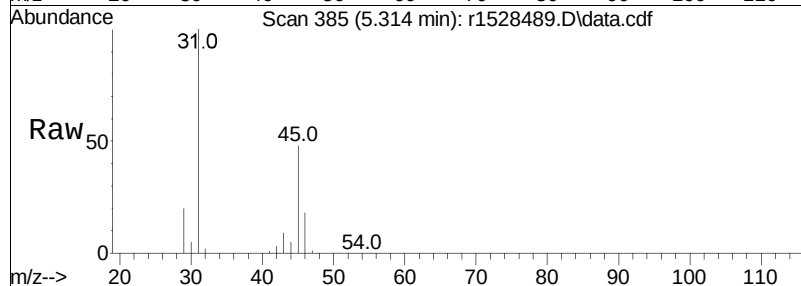
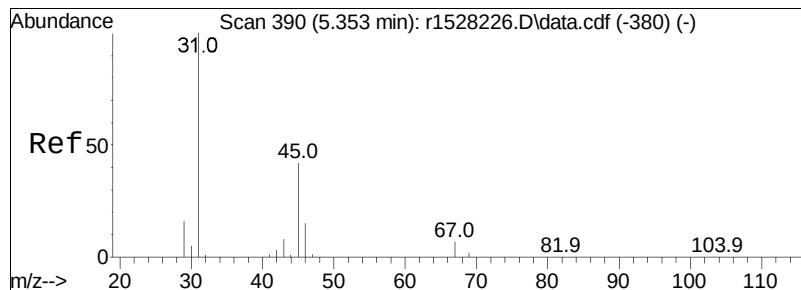




#10
 1,3-butadiene
 Concen: 0.18 ppbV m
 RT: 4.60 min Scan# 266
 Delta R.T. -0.042 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

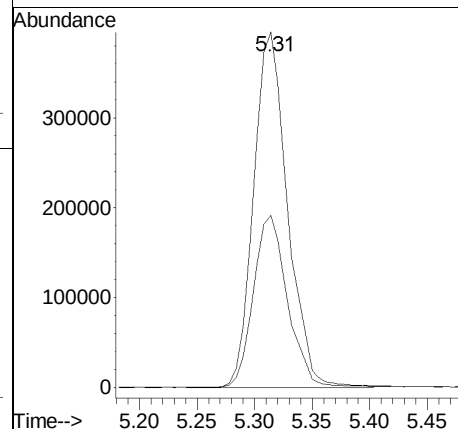
Tgt Ion	Ratio	Lower	Upper
54	100		
39	108.6	81.9	122.9

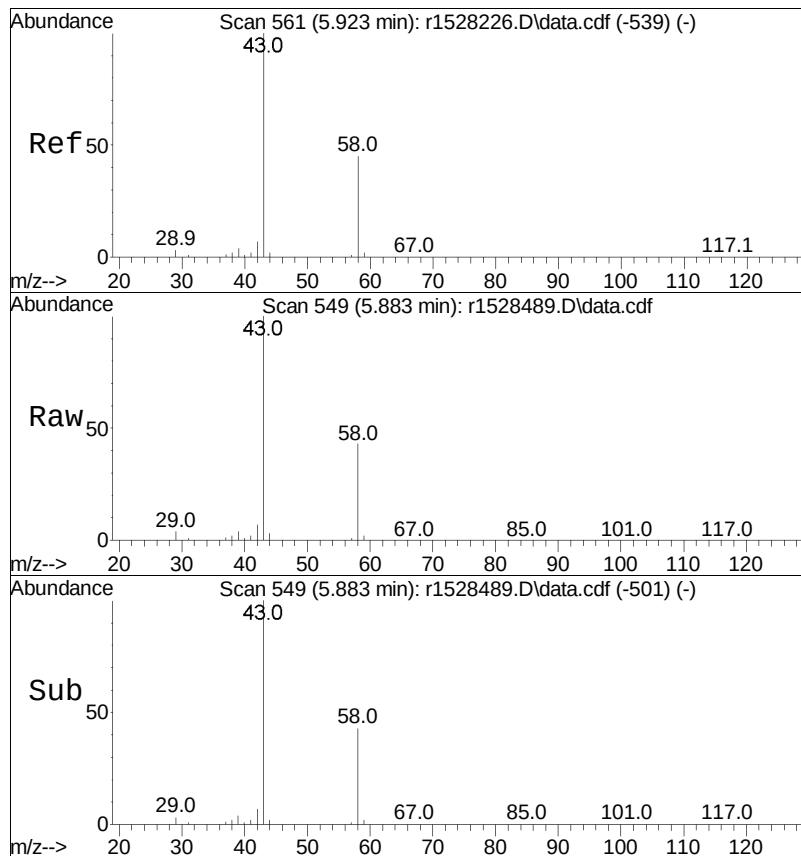




#15
ethanol
Concen: 51.65 ppbV
RT: 5.31 min Scan# 385
Delta R.T. -0.039 min
Lab File: r1528489.D
Acq: 21 Sep 2021 11:41 PM

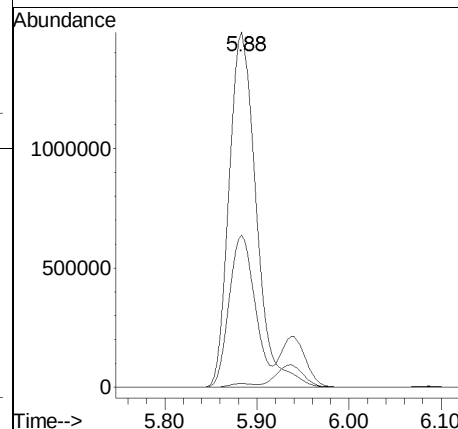
Tgt Ion	Ratio	Lower	Upper
31	100		
45	48.4	34.0	51.0

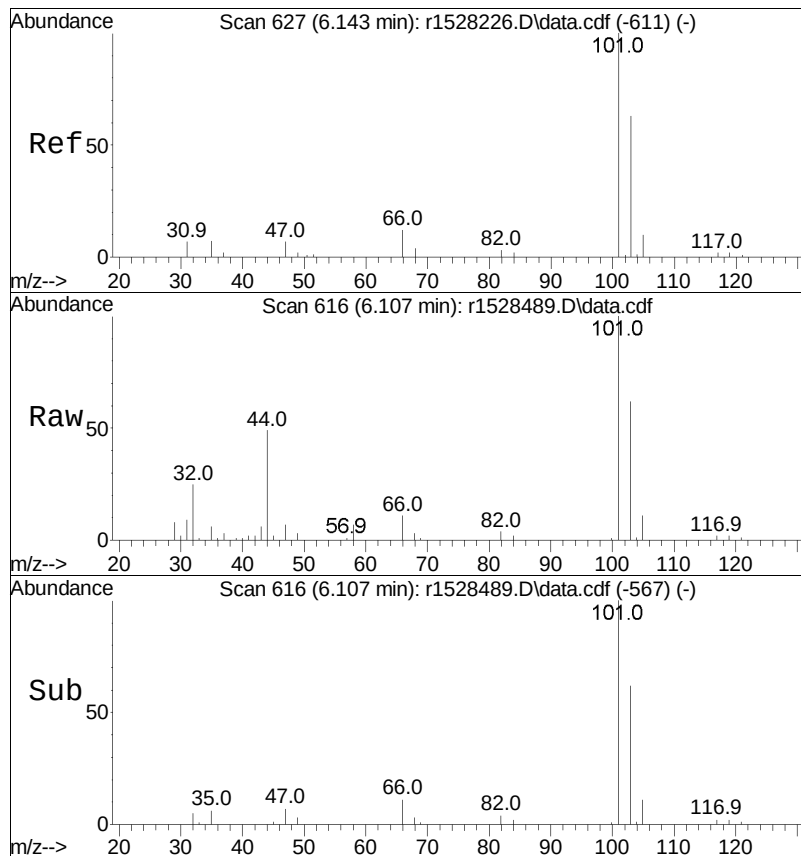




#19
 acetone
 Concen: 116.99 ppbV
 RT: 5.88 min Scan# 549
 Delta R.T. -0.040 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

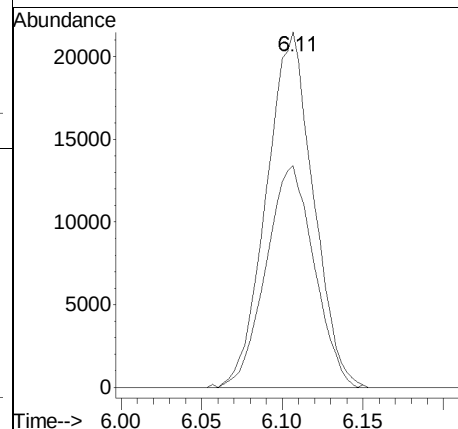
Tgt Ion:	43	Resp:	3057166
Ion Ratio	Lower	Upper	
43	100		
58	42.8	36.2	54.2
57	1.1	0.9	1.3

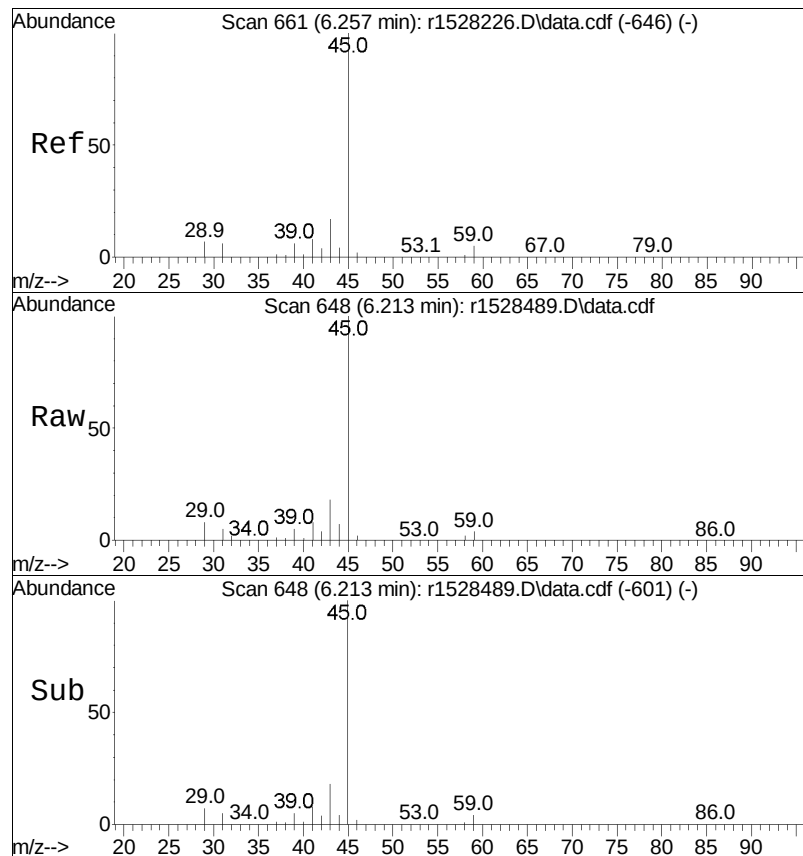




#21
 trichlorofluoromethane
 Concen: 1.66 ppbV
 RT: 6.11 min Scan# 616
 Delta R.T. -0.037 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

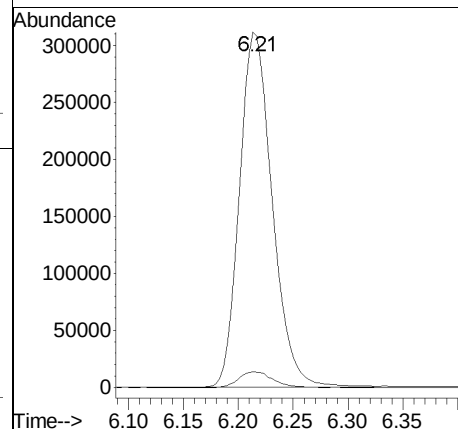
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	62.4	50.2	75.4	

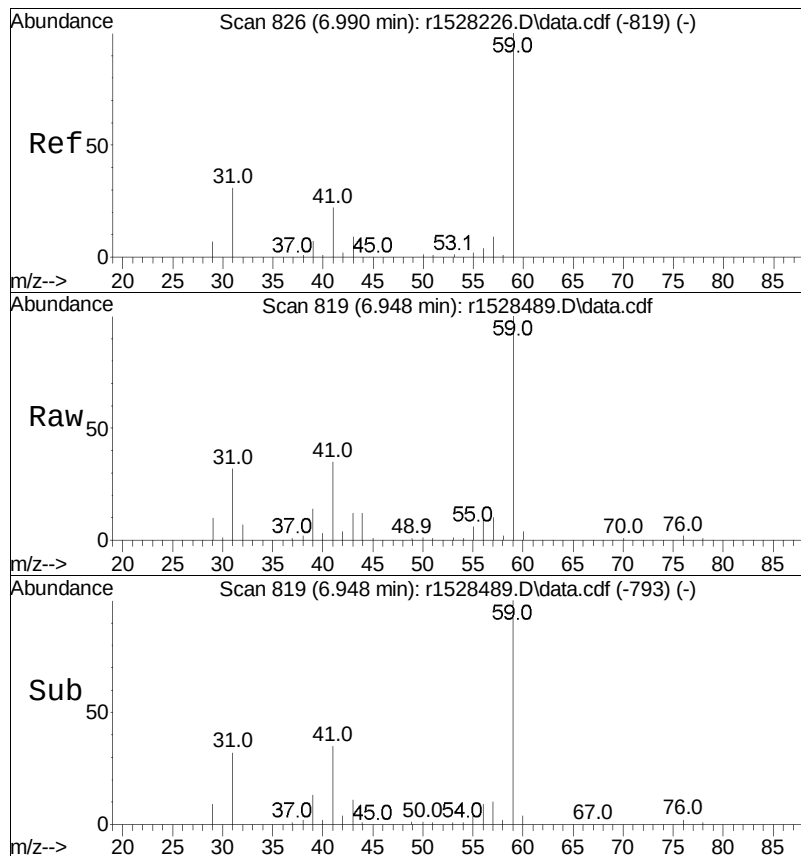




#22
 isopropyl alcohol
 Concen: 21.05 ppbV
 RT: 6.21 min Scan# 648
 Delta R.T. -0.043 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

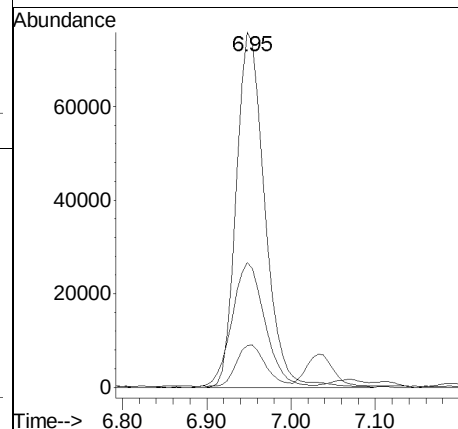
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.4	4.2	6.2

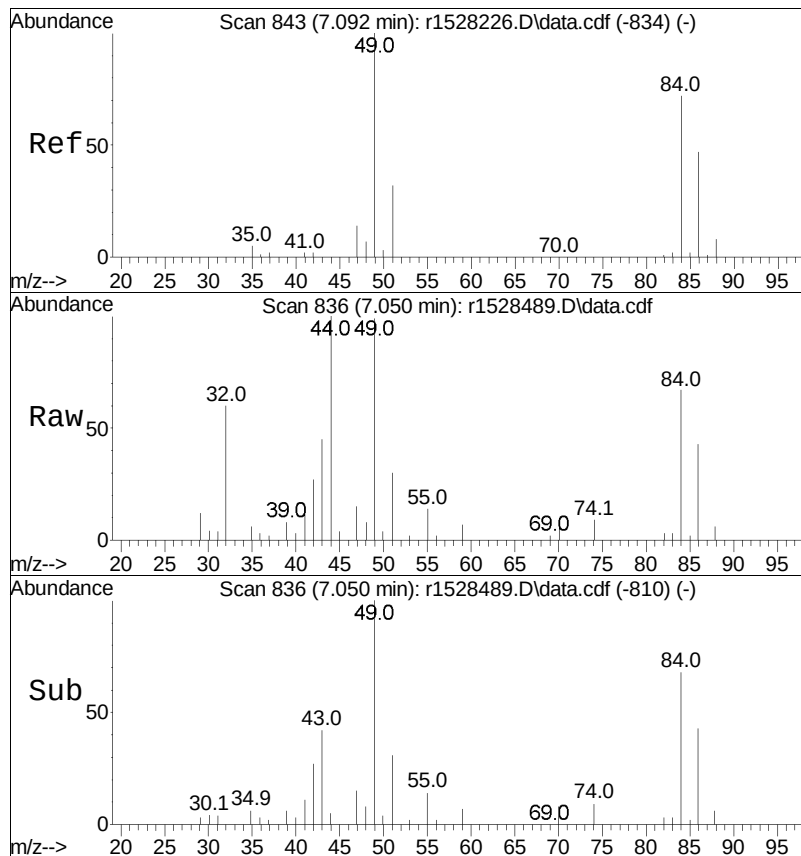




#27
 tertiary butyl alcohol
 Concen: 5.05 ppbV
 RT: 6.95 min Scan# 819
 Delta R.T. -0.042 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

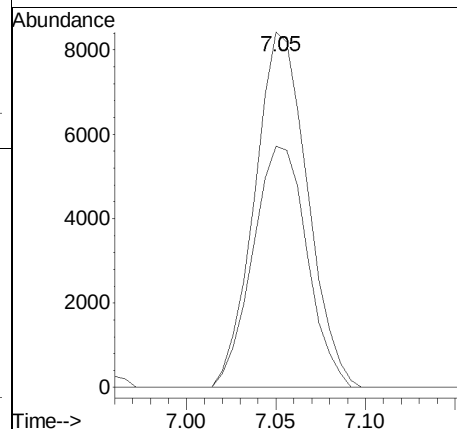
Tgt	Ion: 59	Resp: 178572
Ion	Ratio	Lower Upper
59	100	
41	35.1	17.4 26.0#
43	11.7	7.3 10.9#

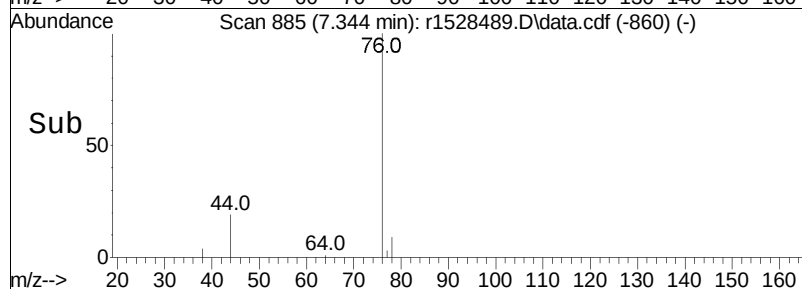
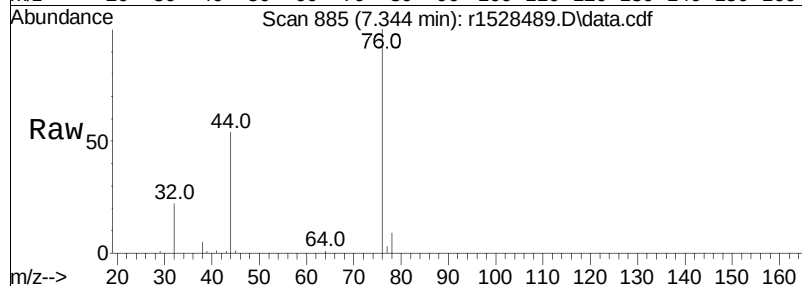
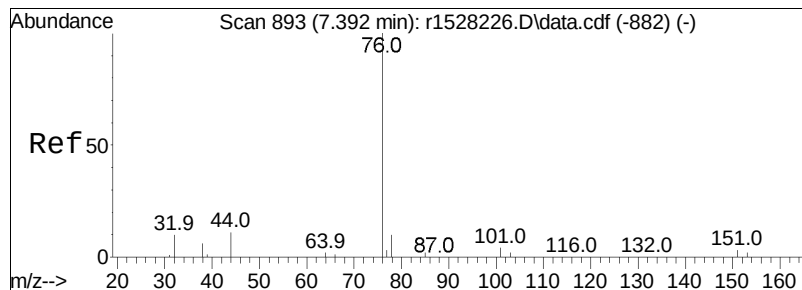




#28
 methylene chloride
 Concen: 0.90 ppbV
 RT: 7.05 min Scan# 836
 Delta R.T. -0.042 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

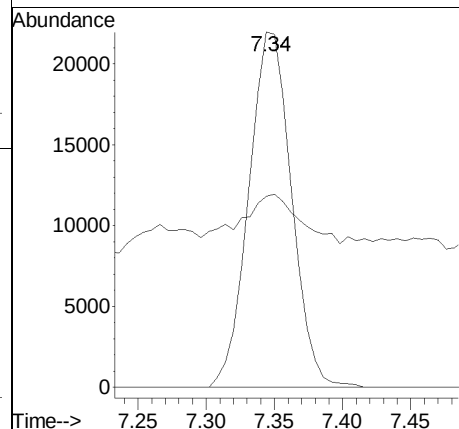
Tgt Ion:	49	Resp:	17302
Ion Ratio	Lower	Upper	
49	100		
84	67.9	57.4	86.0

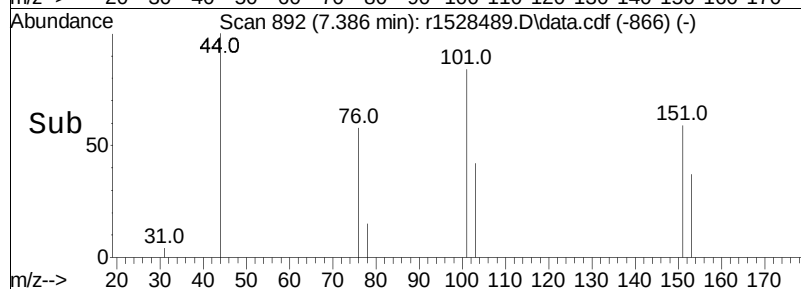
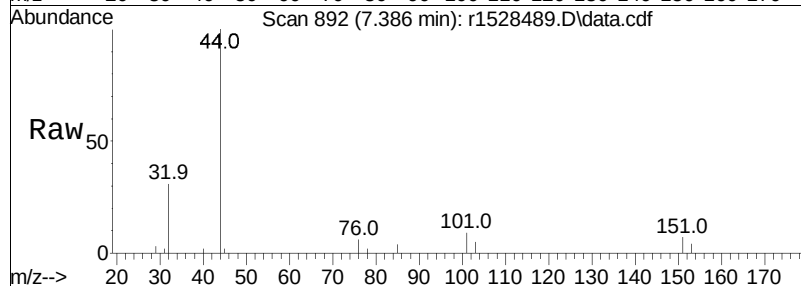
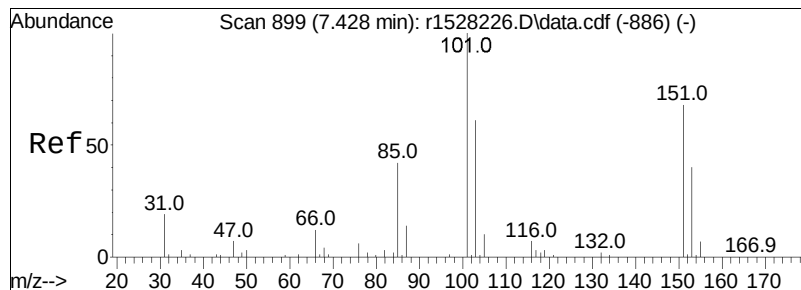




#30
carbon disulfide
Concen: 0.96 ppbV
RT: 7.34 min Scan# 885
Delta R.T. -0.048 min
Lab File: r1528489.D
Acq: 21 Sep 2021 11:41 PM

Tgt Ion:	76	Resp:	47959
Ion Ratio	100	Lower	Upper
44	53.8	8.8	13.2#





#31

Freon 113

Concen: 0.06 ppbV

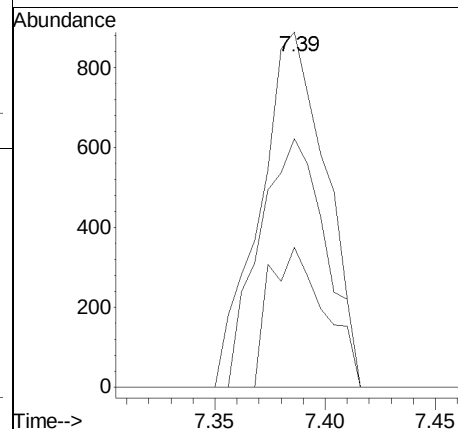
RT: 7.39 min Scan# 892

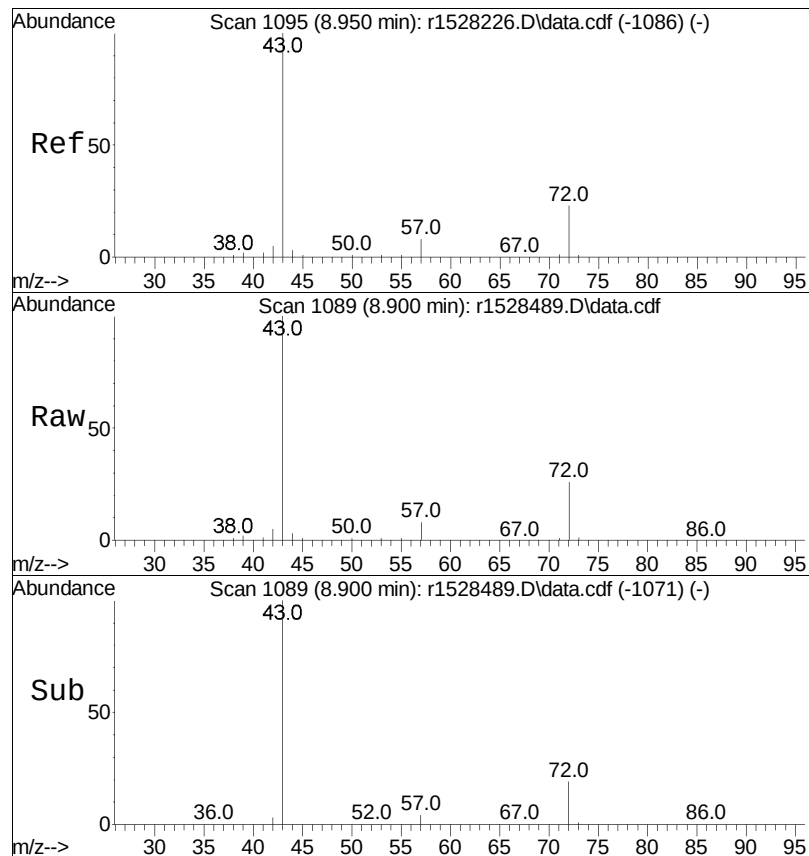
Delta R.T. -0.042 min

Lab File: r1528489.D

Acq: 21 Sep 2021 11:41 PM

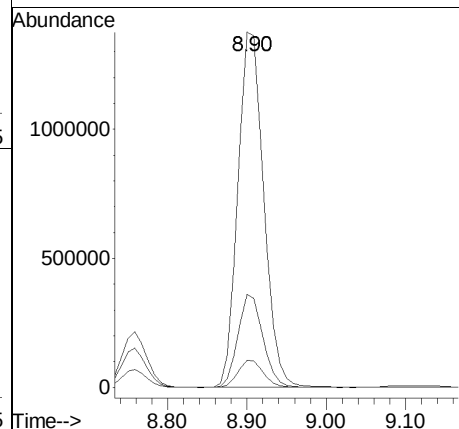
Tgt	Ion:101	Resp:	1849
Ion	Ratio	Lower	Upper
101	100		
85	39.4	33.5	50.3
151	70.0	54.3	81.5

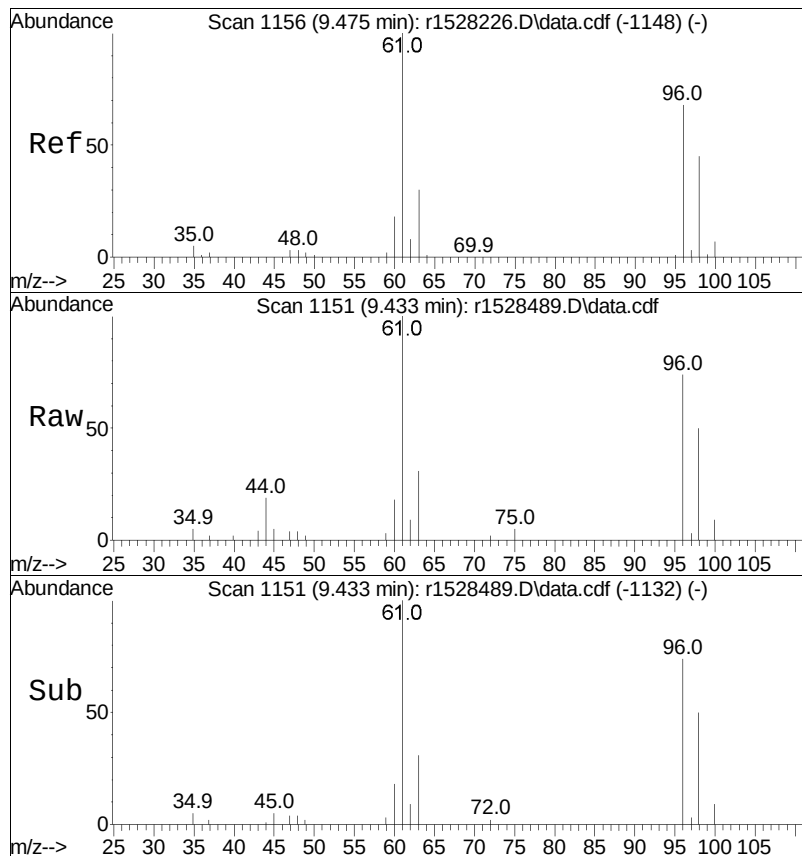




#36
 2-butanone
 Concen: 64.42 ppbV
 RT: 8.90 min Scan# 1089
 Delta R.T. -0.050 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

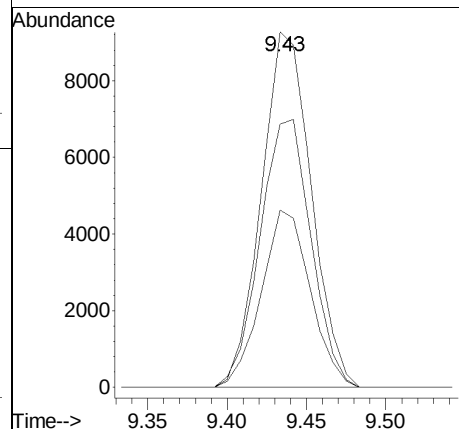
Tgt Ion:	43	Resp:	3125467
Ion Ratio	Lower	Upper	
43	100		
72	26.2	18.3	27.5
57	7.6	6.6	10.0

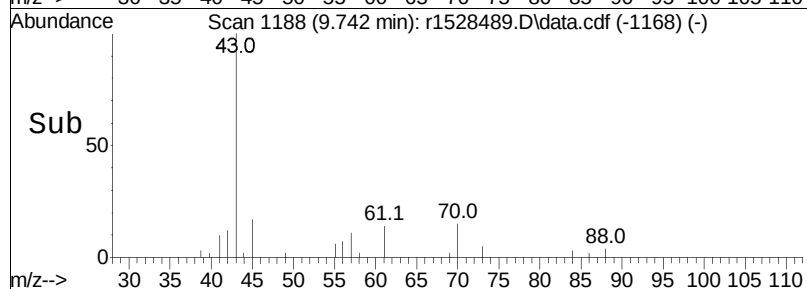
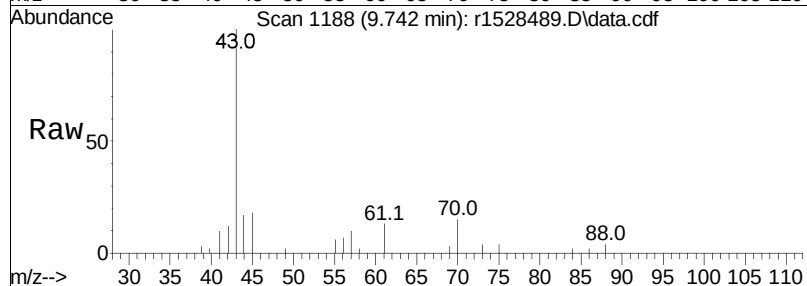
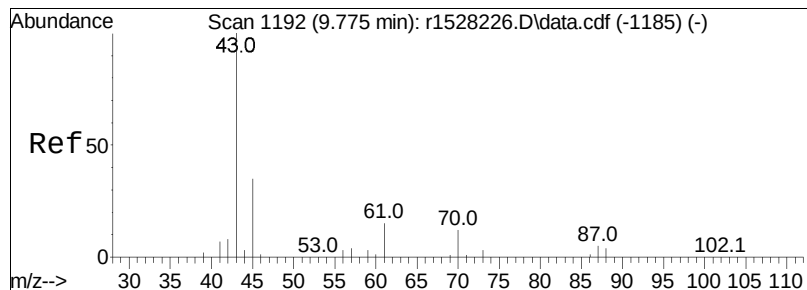




#37
 cis-1,2-dichloroethene
 Concen: 0.66 ppbV
 RT: 9.43 min Scan# 1151
 Delta R.T. -0.042 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

Tgt Ion:	61	Resp:	20320
Ion Ratio	Lower	Upper	
61	100		
96	74.1	54.8	82.2
98	49.9	35.7	53.5





#38

Ethyl Acetate

Concen: 0.32 ppbV

RT: 9.74 min Scan# 1188

Delta R.T. -0.033 min

Lab File: r1528489.D

Acq: 21 Sep 2021 11:41 PM

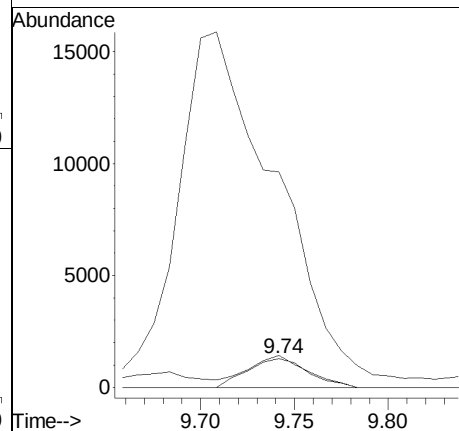
Tgt Ion: 61 Resp: 2907

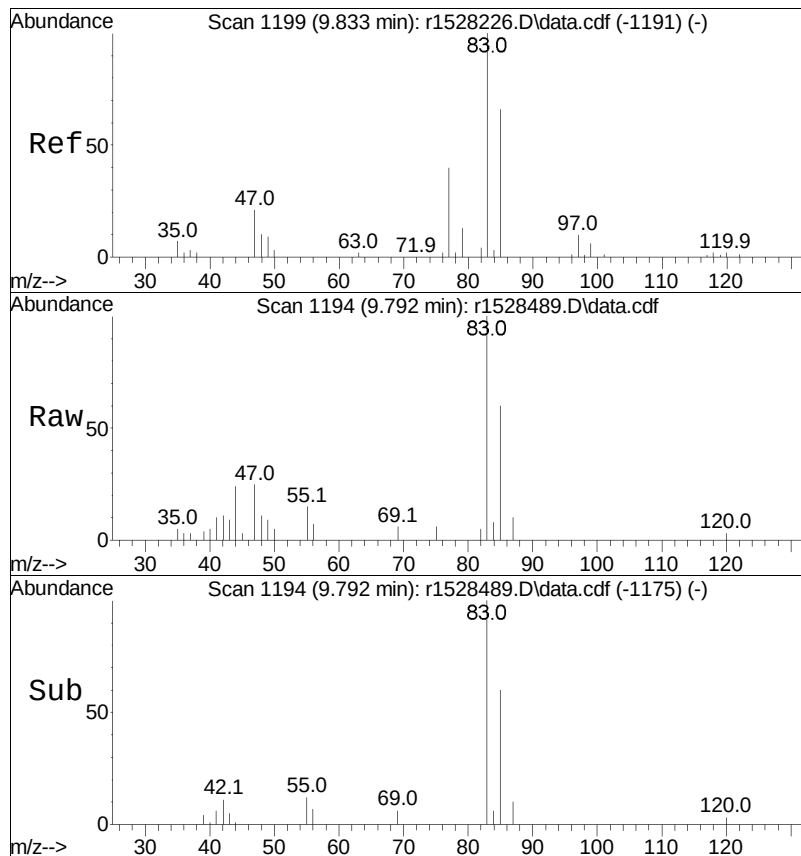
Ion Ratio Lower Upper

61 100

70 111.2 61.9 92.9#

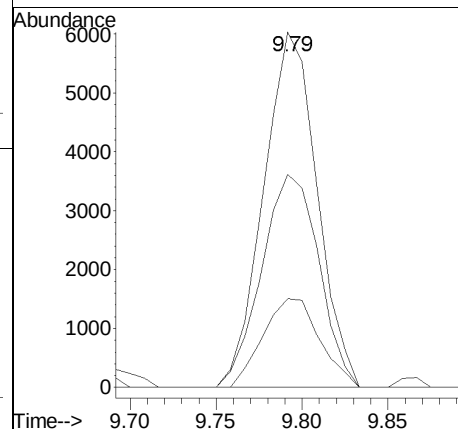
43 747.1 568.7 853.1

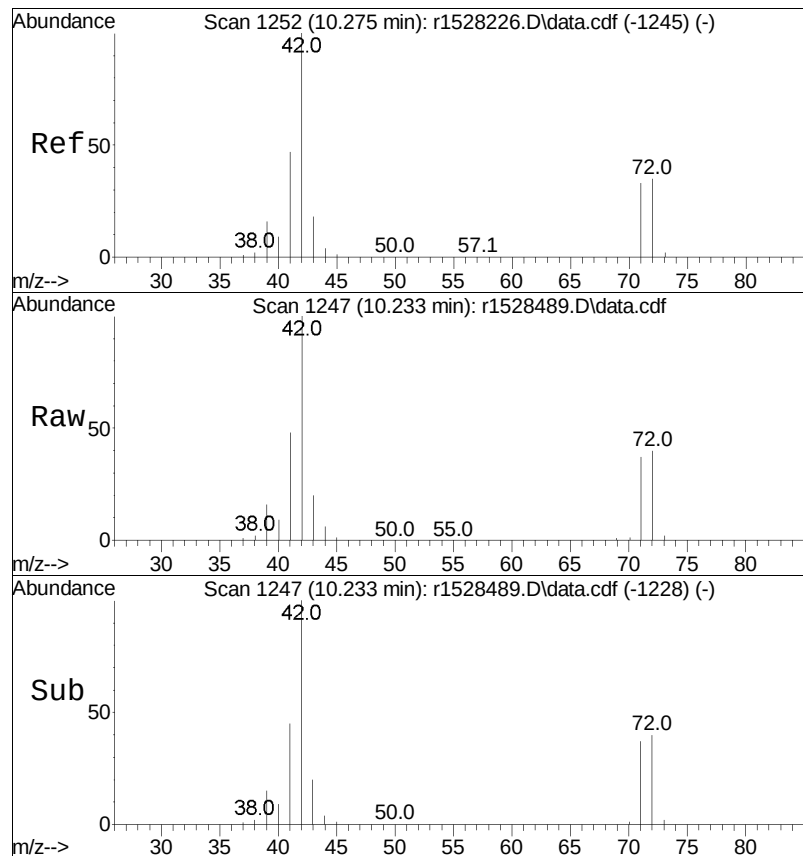




#39
 chloroform
 Concen: 0.38 ppbV
 RT: 9.79 min Scan# 1194
 Delta R.T. -0.042 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

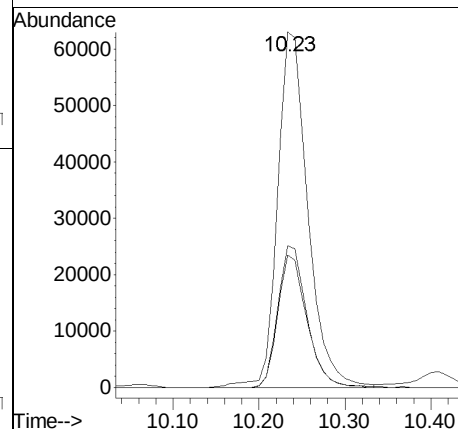
Tgt Ion:	83	Resp:	13039
Ion Ratio	Lower	Upper	
83	100		
85	59.9	52.9	79.3
47	25.0	17.4	26.0

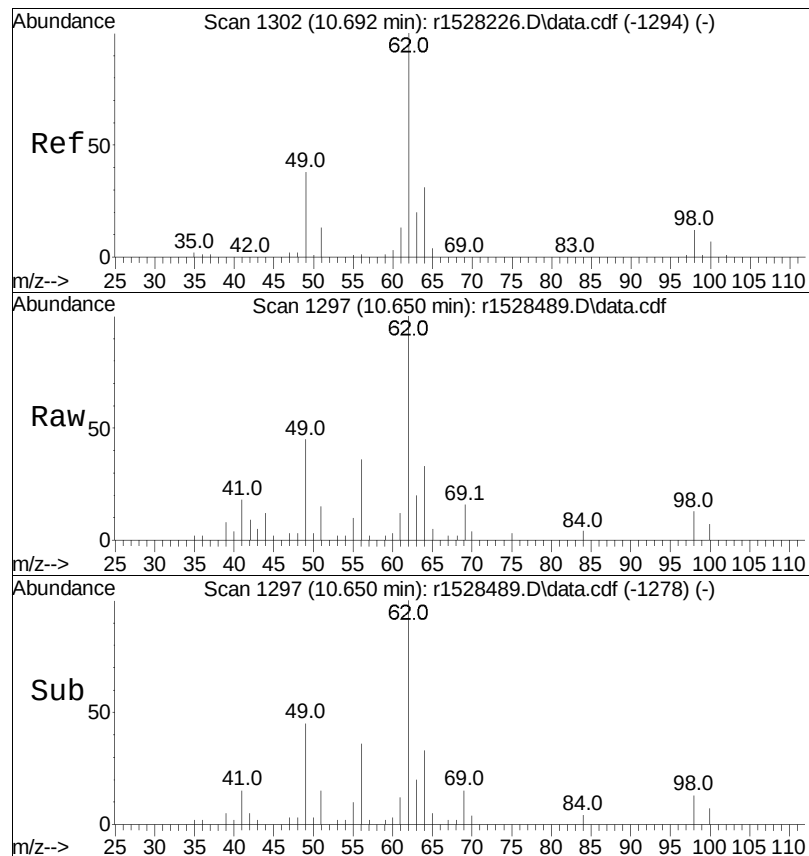




#40
Tetrahydrofuran
Concen: 4.97 ppbV
RT: 10.23 min Scan# 1247
Delta R.T. -0.042 min
Lab File: r1528489.D
Acq: 21 Sep 2021 11:41 PM

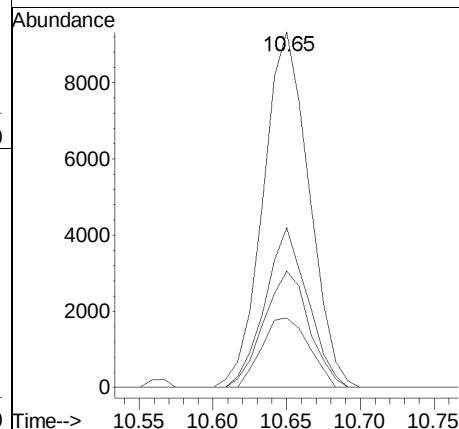
Tgt Ion	Ratio	Lower	Upper
42	100		
71	37.3	26.8	40.2
72	39.9	27.9	41.9

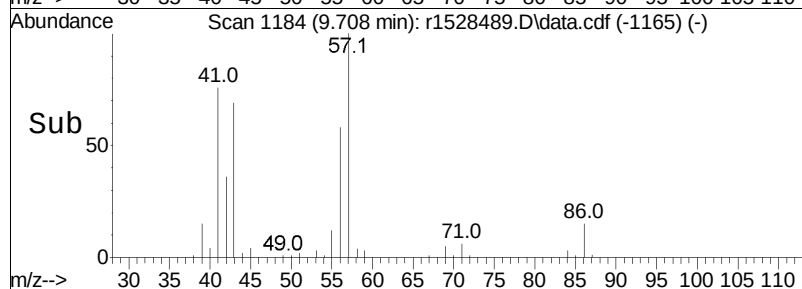
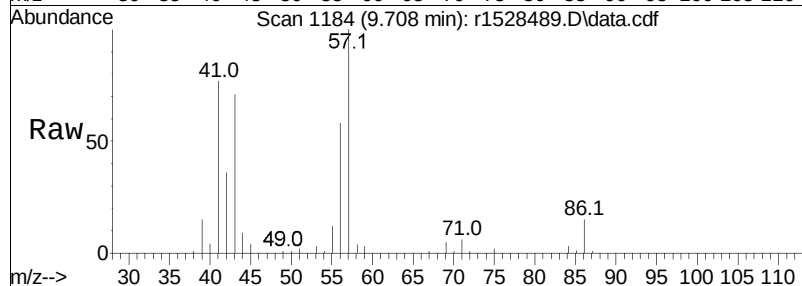
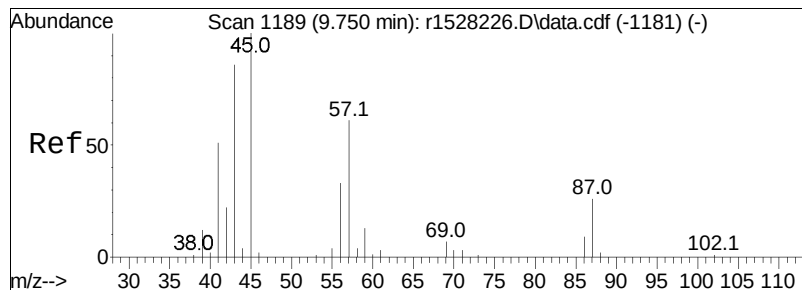




#42
 1,2-dichloroethane
 Concen: 0.88 ppbV
 RT: 10.65 min Scan# 1297
 Delta R.T. -0.042 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

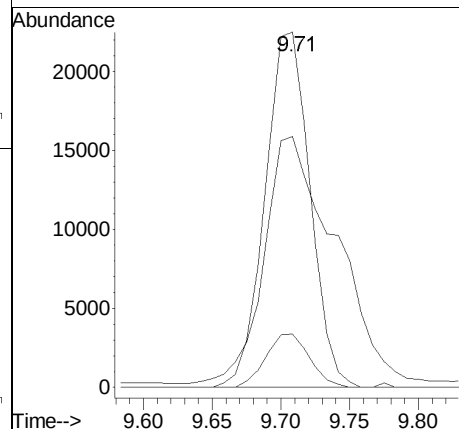
Tgt Ion:	62	Resp:	20206
Ion Ratio	Lower	Upper	
62	100		
64	32.7	24.7	37.1
49	44.9	30.4	45.6
63	19.6	16.2	24.4

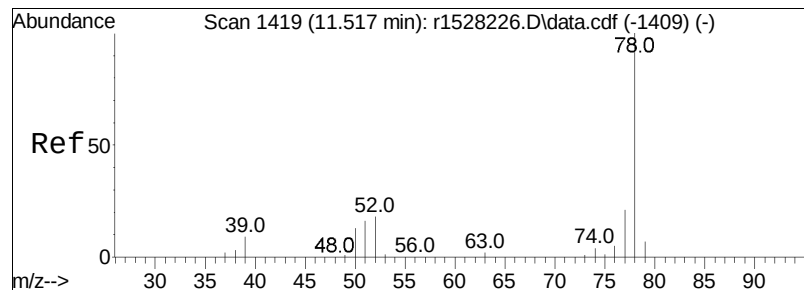




#44
hexane
Concen: 1.14 ppbV
RT: 9.71 min Scan# 1184
Delta R.T. -0.042 min
Lab File: r1528489.D
Acq: 21 Sep 2021 11:41 PM

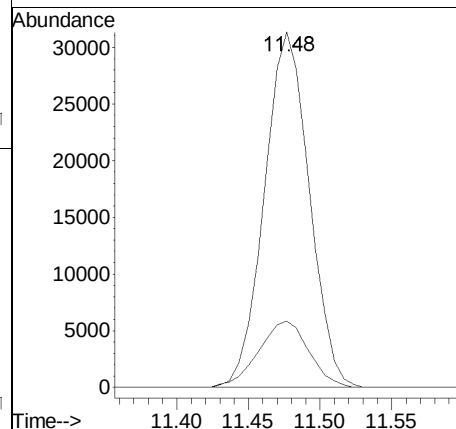
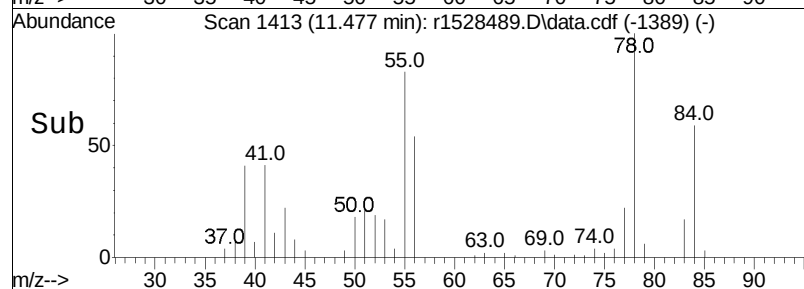
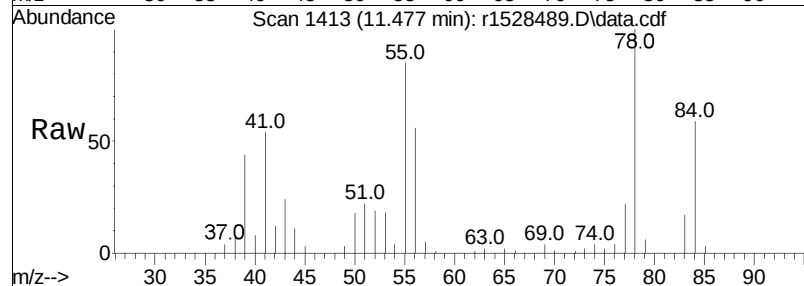
Tgt	Ion	Resp	Lower	Upper
57	100	51249		
43	70.6		113.8	170.8#
86	15.0		11.6	17.4

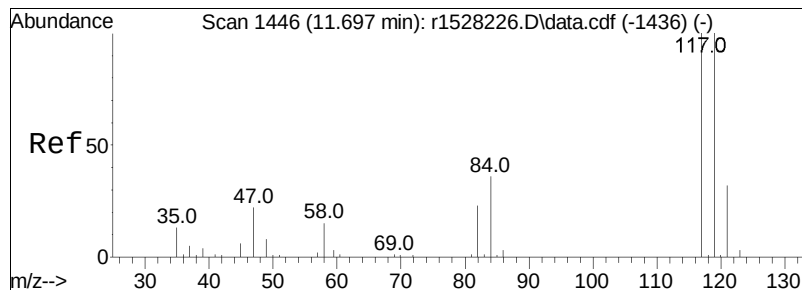




#50
benzene
Concen: 0.94 ppbV
RT: 11.48 min Scan# 1413
Delta R.T. -0.040 min
Lab File: r1528489.D
Acq: 21 Sep 2021 11:41 PM

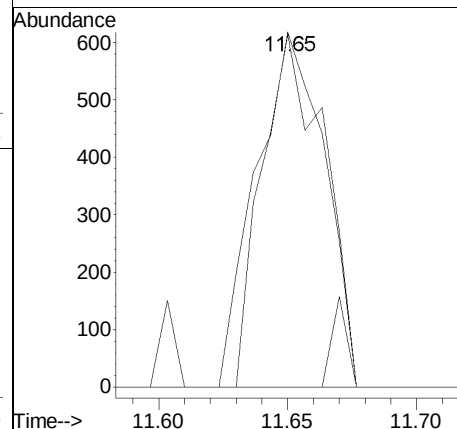
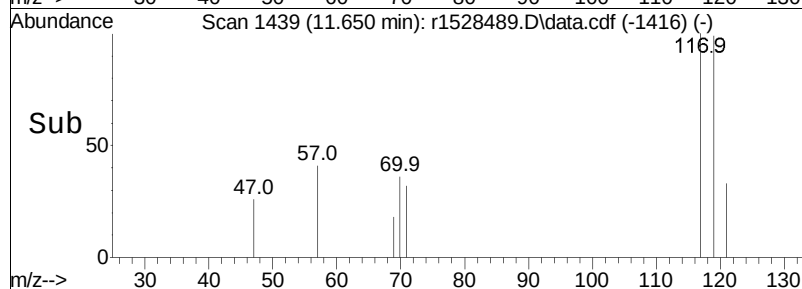
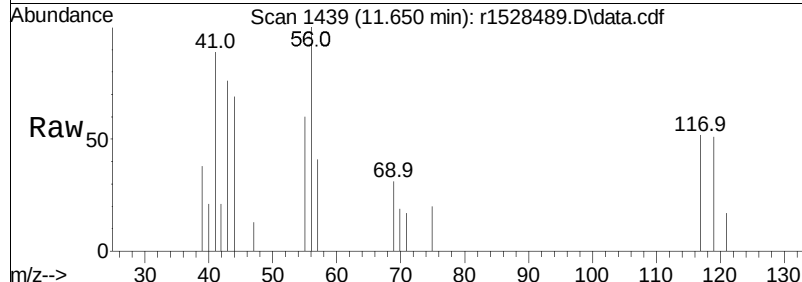
Tgt Ion	Ratio	Lower	Upper
78	100		
52	18.7	14.2	21.4

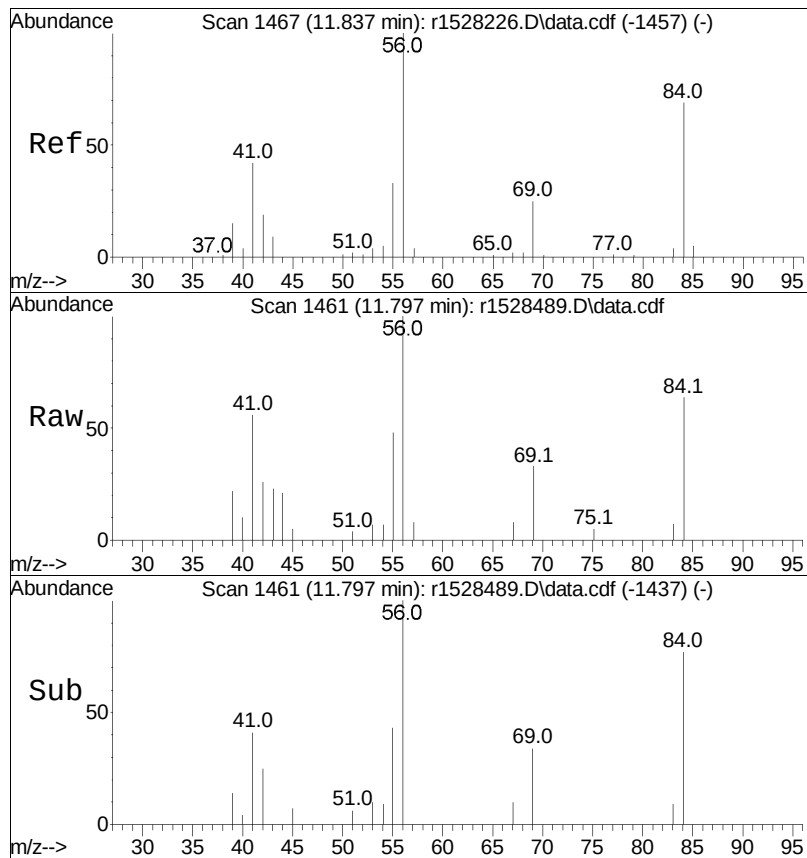




#52
 carbon tetrachloride
 Concen: 0.05 ppbV
 RT: 11.65 min Scan# 1439
 Delta R.T. -0.047 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

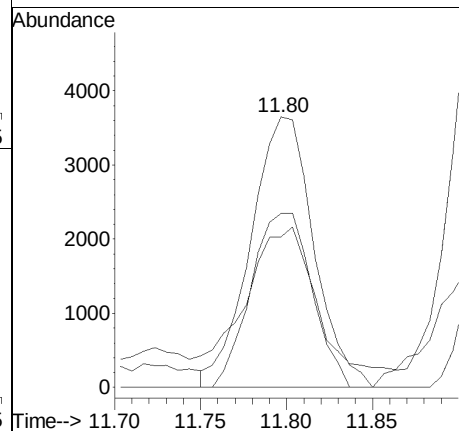
Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.4	80.2	120.4
82	0.0	18.6	27.8#

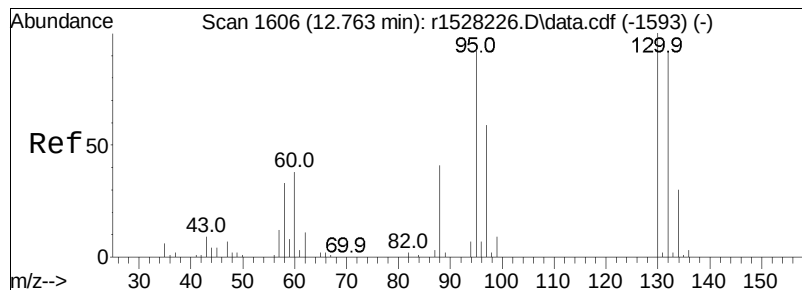




#53
cyclohexane
Concen: 0.19 ppbV
RT: 11.80 min Scan# 1461
Delta R.T. -0.040 min
Lab File: r1528489.D
Acq: 21 Sep 2021 11:41 PM

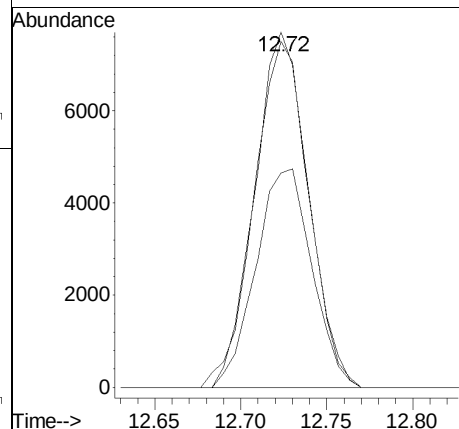
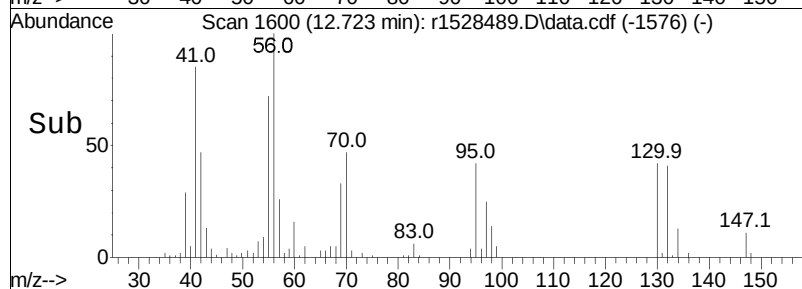
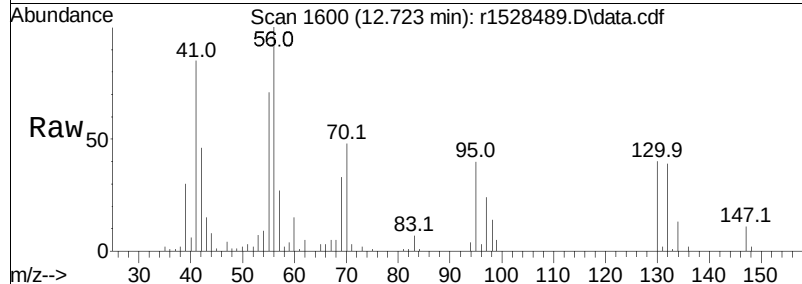
Tgt Ion	Ratio	Lower	Upper
56	100		
84	64.3	54.9	82.3
41	55.7	34.0	51.0#

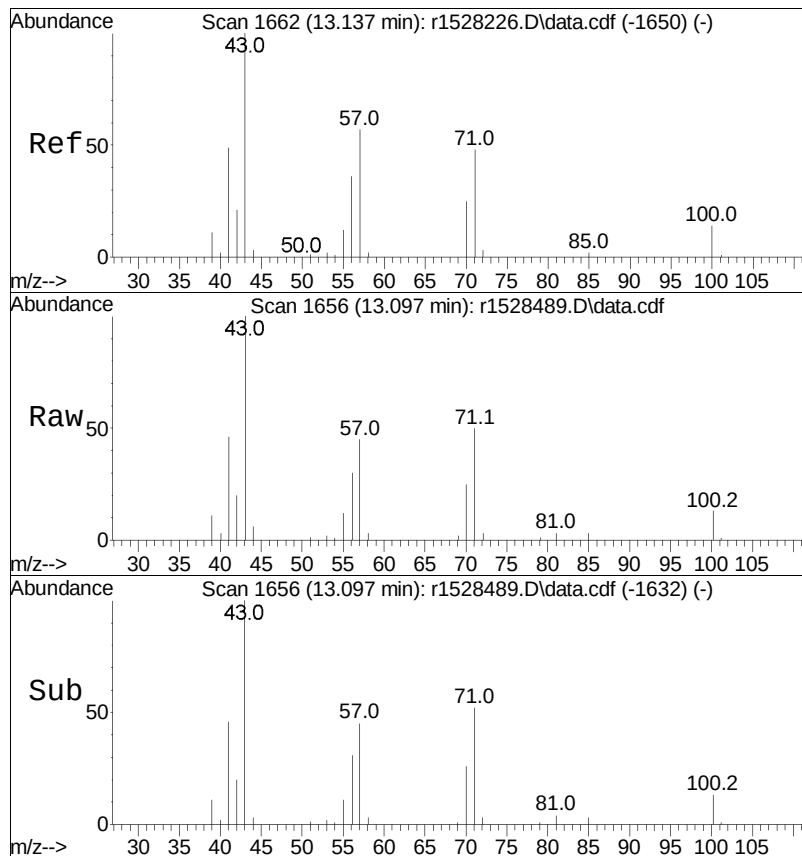




#59
 trichloroethene
 Concen: 0.61 ppbV
 RT: 12.72 min Scan# 1600
 Delta R.T. -0.040 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

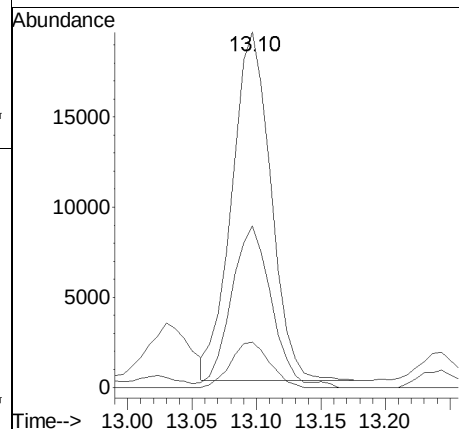
Tgt Ion	Ratio	Lower	Upper
130	100		
132	97.4	73.4	110.2
97	60.3	47.4	71.0

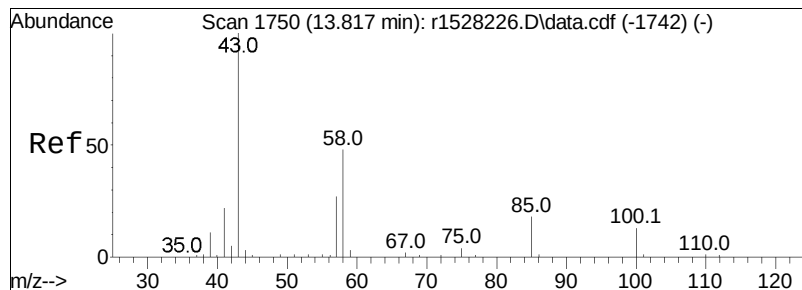




#62
 heptane
 Concen: 0.81 ppbV
 RT: 13.10 min Scan# 1656
 Delta R.T. -0.040 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

Tgt	Ion: 43	Resp:	40654
Ion	Ratio	Lower	Upper
43	100		
57	45.4	45.5	68.3#
100	12.7	11.7	17.5





#64

4-methyl-2-pentanone

Concen: 0.26 ppbV

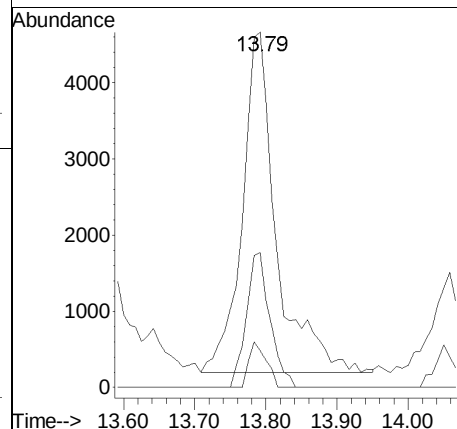
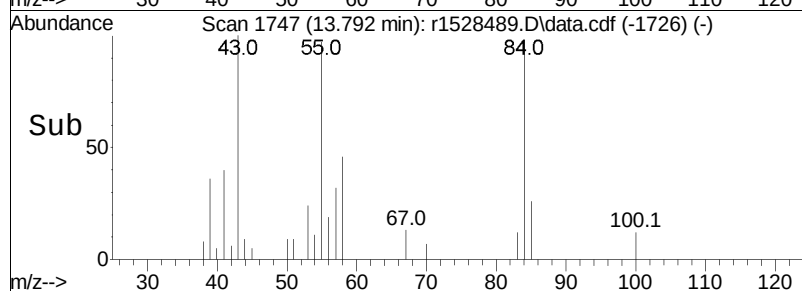
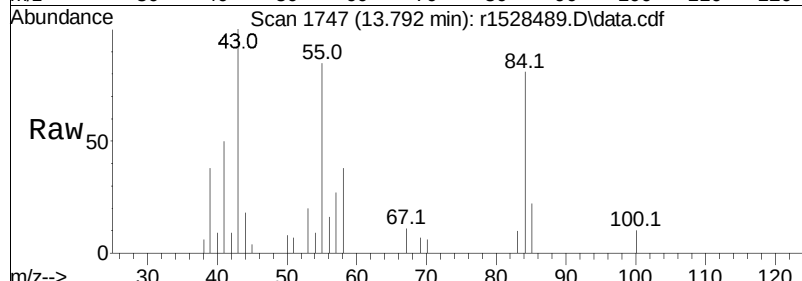
RT: 13.79 min Scan# 1747

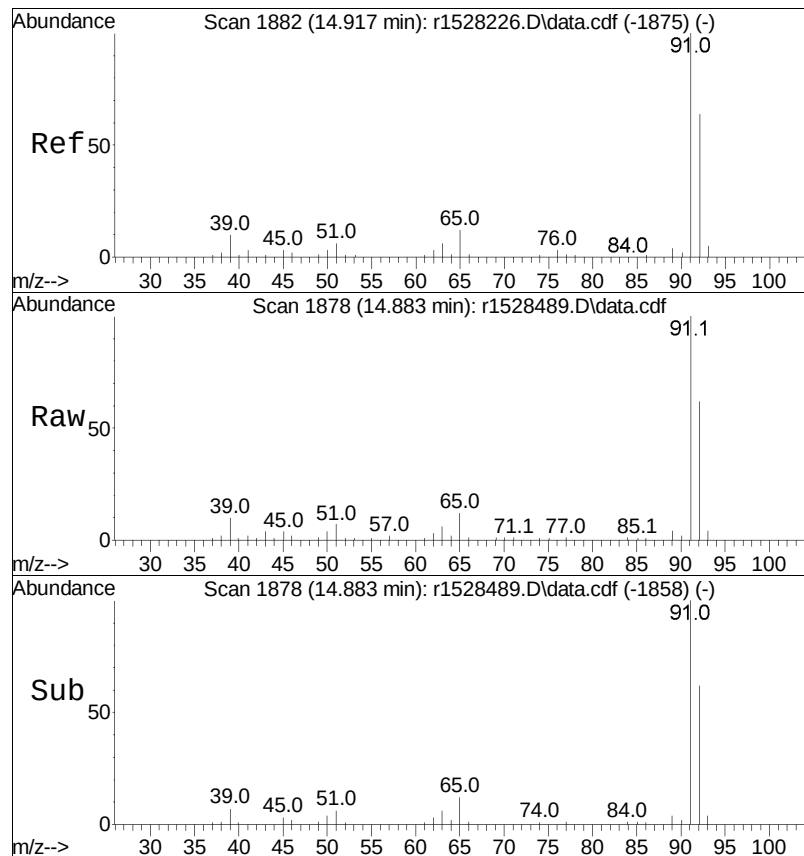
Delta R.T. -0.025 min

Lab File: r1528489.D

Acq: 21 Sep 2021 11:41 PM

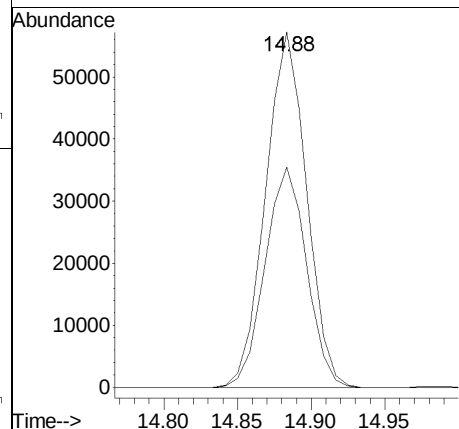
Tgt Ion:	43	Resp:	14913
Ion Ratio	Lower	Upper	
43	100		
58	38.0	38.5	57.7#
100	10.4	10.6	16.0#

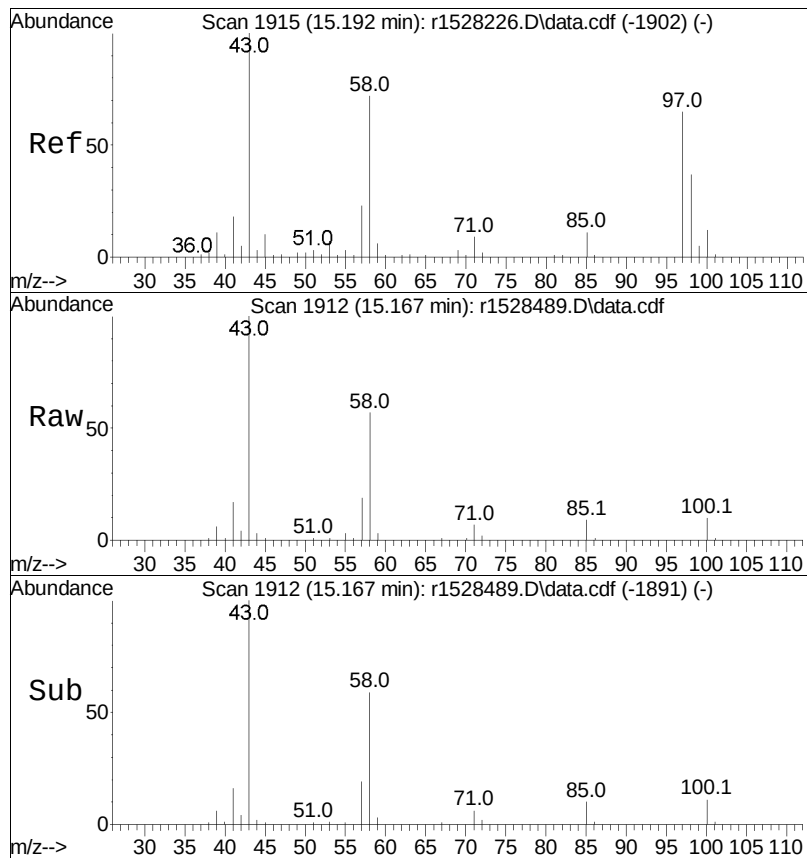




#68
toluene
Concen: 1.35 ppbV
RT: 14.88 min Scan# 1878
Delta R.T. -0.033 min
Lab File: r1528489.D
Acq: 21 Sep 2021 11:41 PM

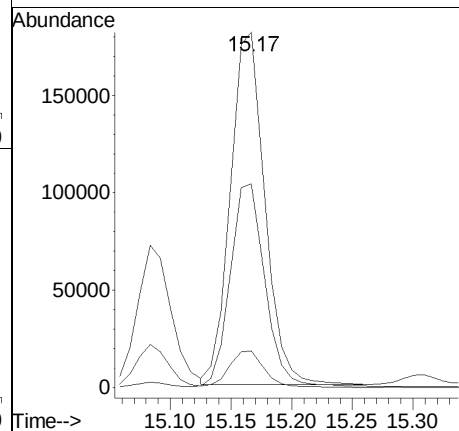
Tgt	Ion	Resp	Lower	Upper
91	100	110415		
92	62.0	51.6	77.4	

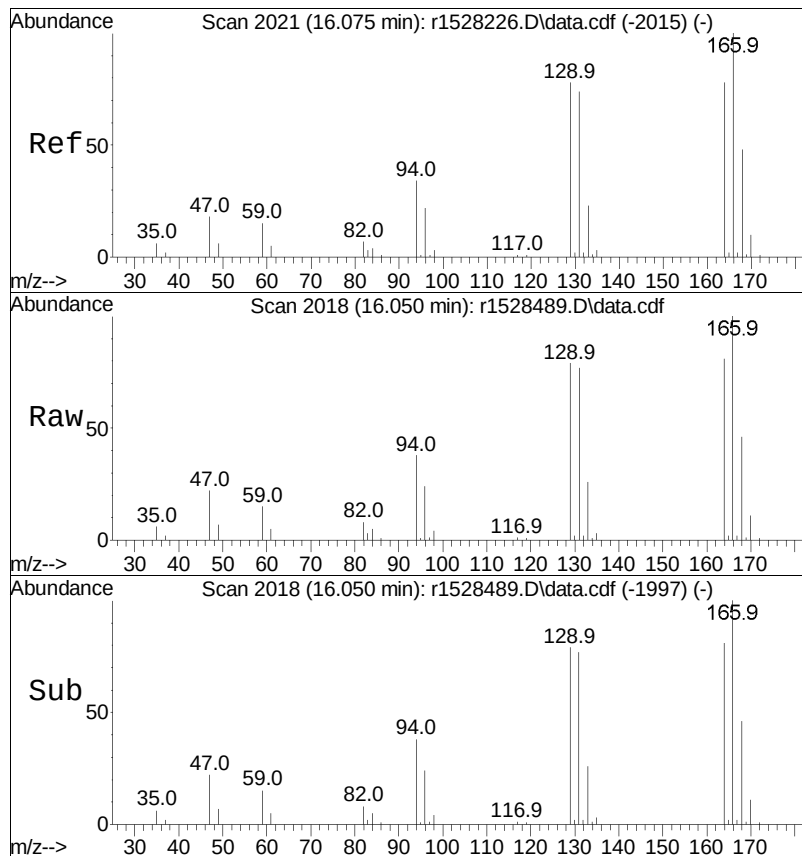




#72
 2-hexanone
 Concen: 7.13 ppbV
 RT: 15.17 min Scan# 1912
 Delta R.T. -0.025 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

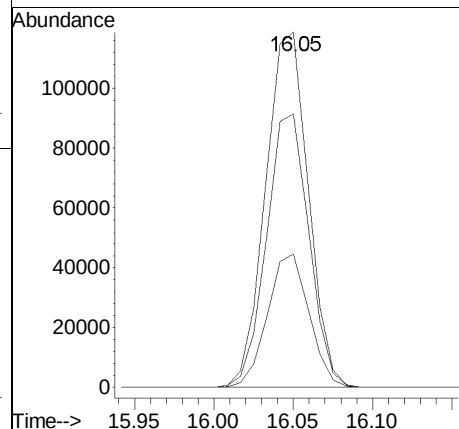
Tgt Ion:	43	58	100	Ratio	Lower	Upper
Resp:	357032					
Ion Ratio	100	57.3	10.3			
		57.9	9.8			
		86.9#	14.8			

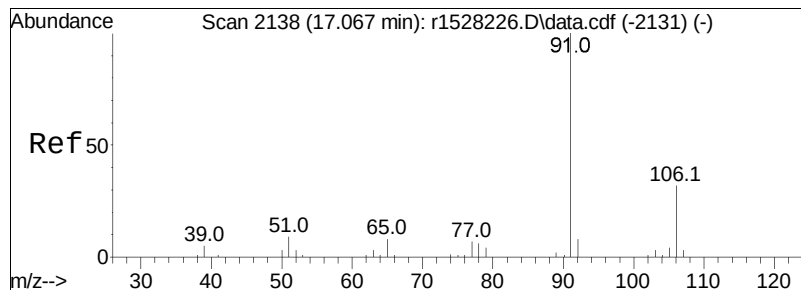




#78
 tetrachloroethene
 Concen: 7.99 ppbV
 RT: 16.05 min Scan# 2018
 Delta R.T. -0.025 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

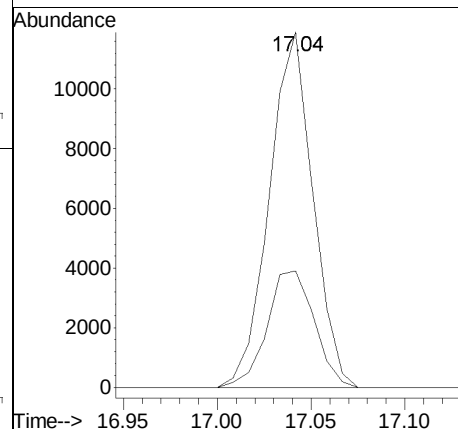
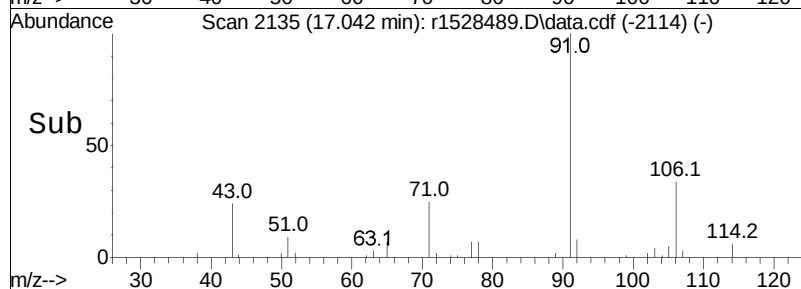
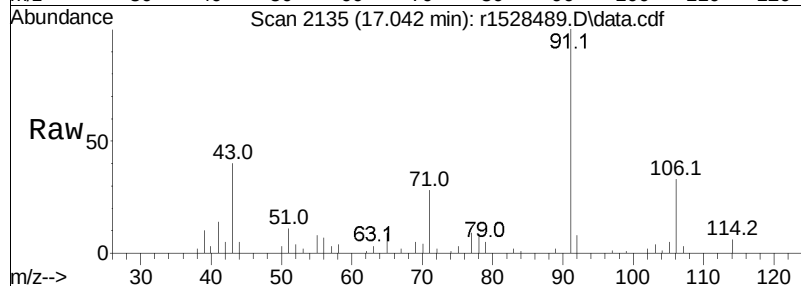
Tgt	Ion:166	Resp:	222516
Ion	Ratio	Lower	Upper
166	100		
131	77.0	59.5	89.3
94	37.5	27.4	41.0

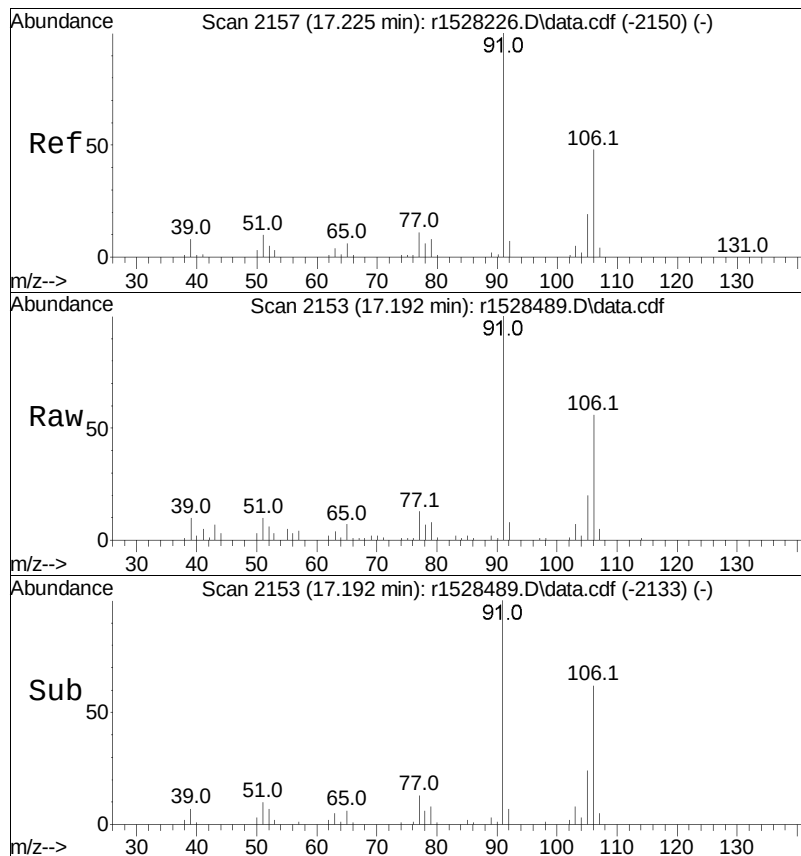




#81
ethylbenzene
Concen: 0.19 ppbV
RT: 17.04 min Scan# 2135
Delta R.T. -0.025 min
Lab File: r1528489.D
Acq: 21 Sep 2021 11:41 PM

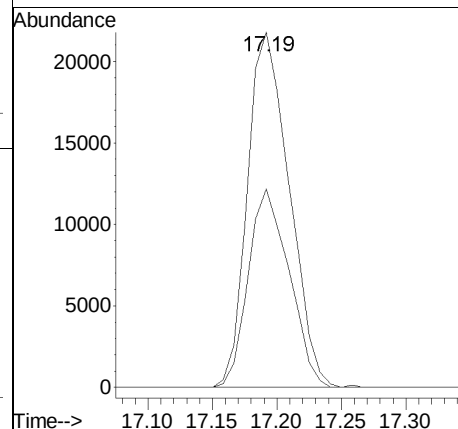
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.8	25.3	37.9

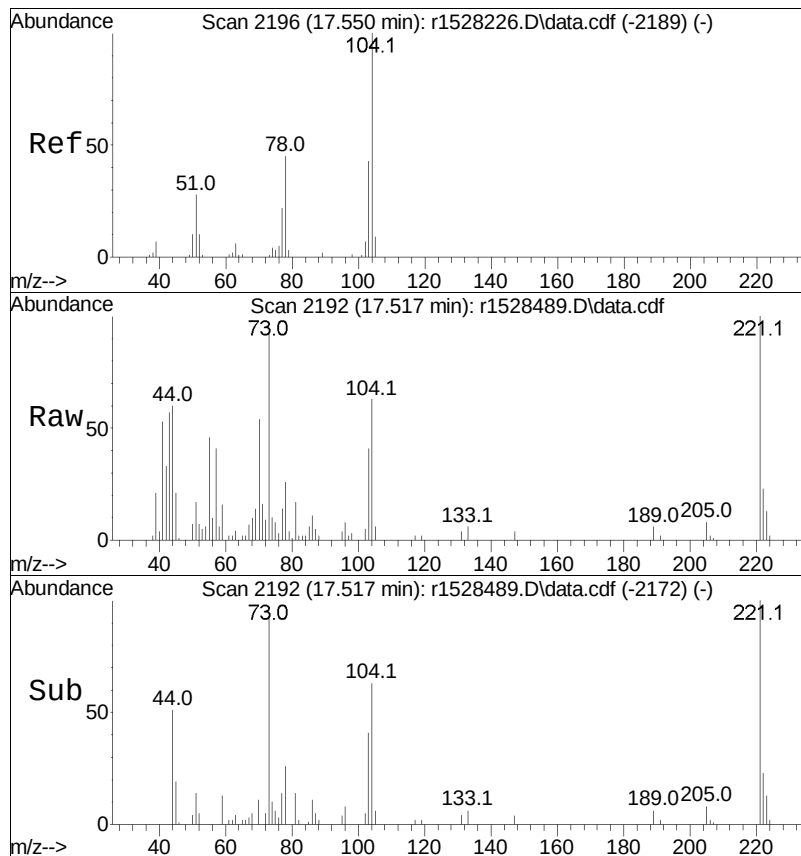




#83
 m+p-xylene
 Concen: 0.62 ppbV
 RT: 17.19 min Scan# 2153
 Delta R.T. -0.033 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

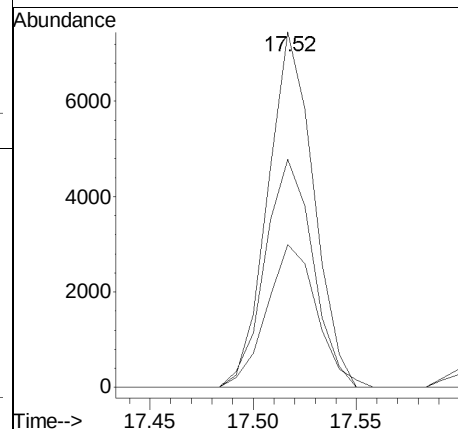
Tgt	Ion	Resp	Lower	Upper
91	100	49124		
106	55.9	38.6	58.0	

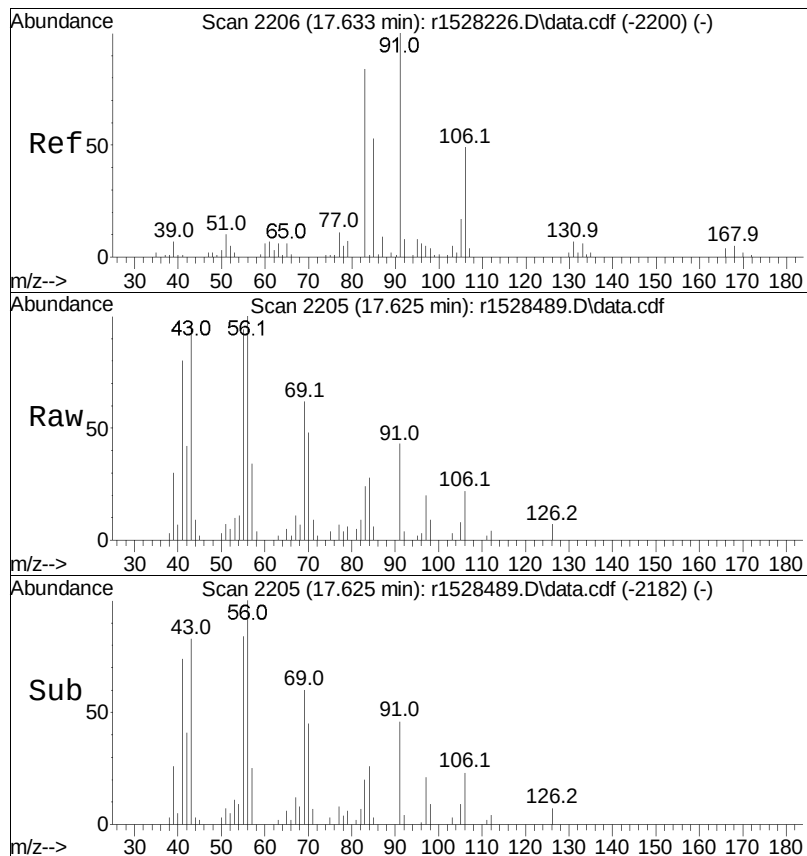




#85
styrene
Concen: 0.19 ppbV
RT: 17.52 min Scan# 2192
Delta R.T. -0.033 min
Lab File: r1528489.D
Acq: 21 Sep 2021 11:41 PM

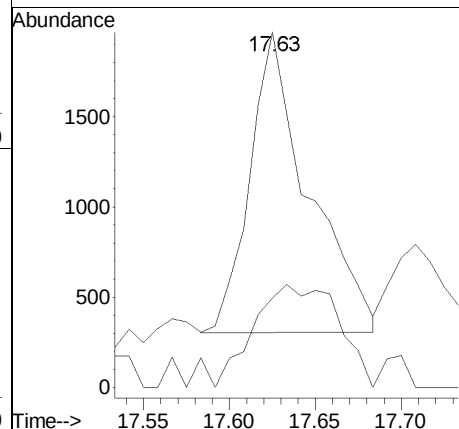
Tgt	Ion	Ratio	Lower	Upper
104	104	100		
103	103	64.2	34.1	51.1#
78	78	40.2	35.8	53.8

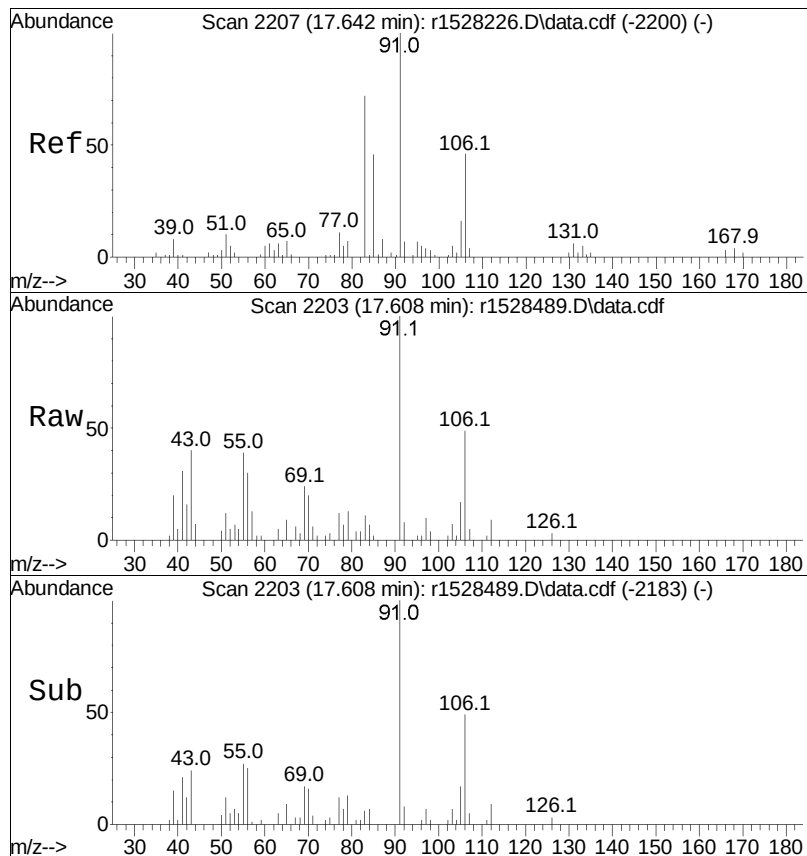




#86
 1,1,2,2-tetrachloroethane
 Concen: 0.07 ppbV
 RT: 17.63 min Scan# 2205
 Delta R.T. -0.008 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

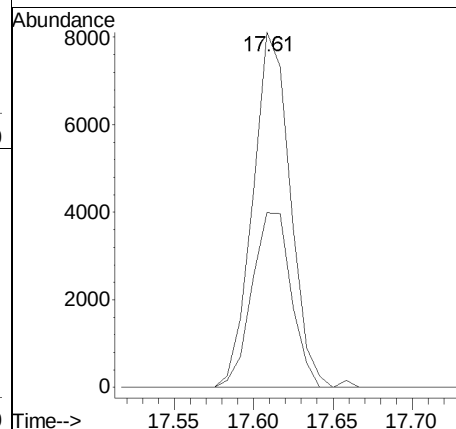
Tgt	Ion	Resp	Lower	Upper
83	100			
85	25.1	50.9	76.3#	

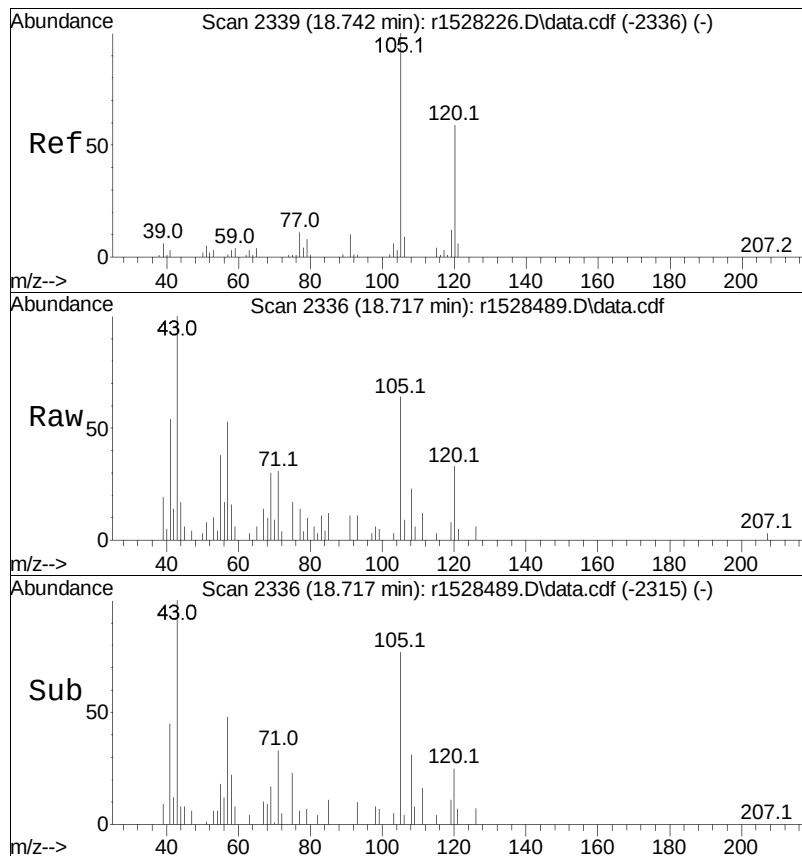




#87
o-xylene
Concen: 0.17 ppbV
RT: 17.61 min Scan# 2203
Delta R.T. -0.033 min
Lab File: r1528489.D
Acq: 21 Sep 2021 11:41 PM

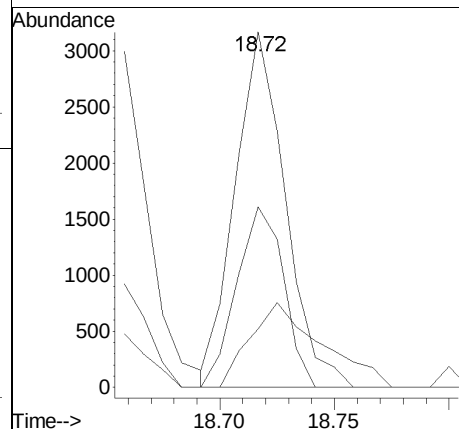
Tgt Ion: 91 Resp: 13362
Ion Ratio Lower Upper
91 100
106 49.2 36.5 54.7

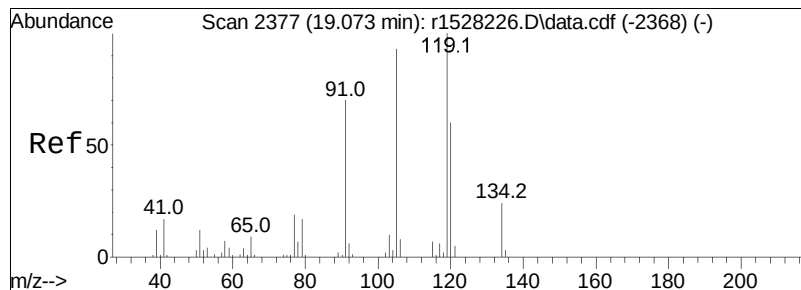




#97
 1,3,5-trimethylbenzene
 Concen: 0.06 ppbV
 RT: 18.72 min Scan# 2336
 Delta R.T. -0.025 min
 Lab File: r1528489.D
 Acq: 21 Sep 2021 11:41 PM

Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.8	47.4	71.0
91	16.5	7.9	11.9#





#99

1,2,4-trimethylbenzene

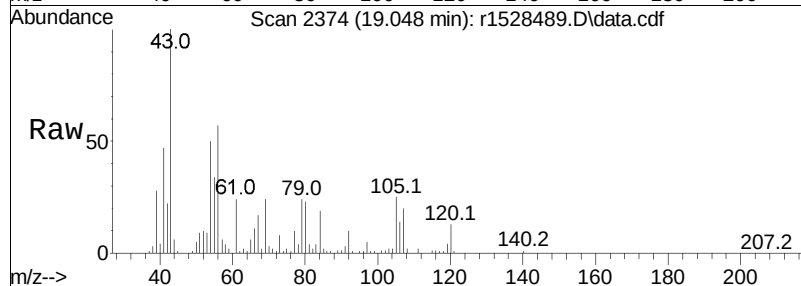
Concen: 0.19 ppbV

RT: 19.05 min Scan# 2374

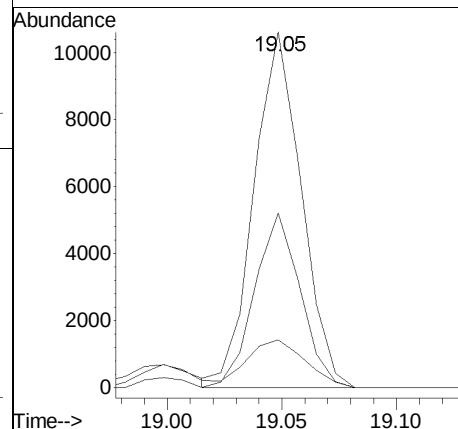
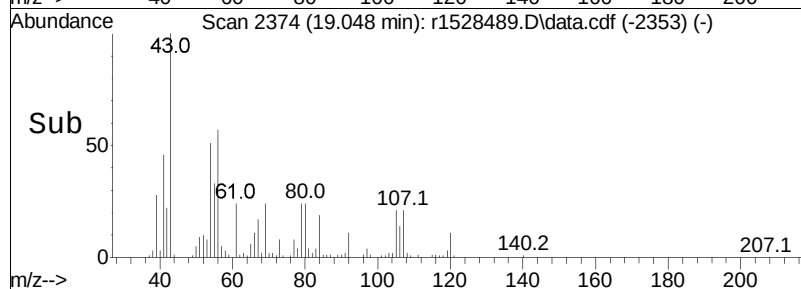
Delta R.T. -0.025 min

Lab File: r1528489.D

Acq: 21 Sep 2021 11:41 PM



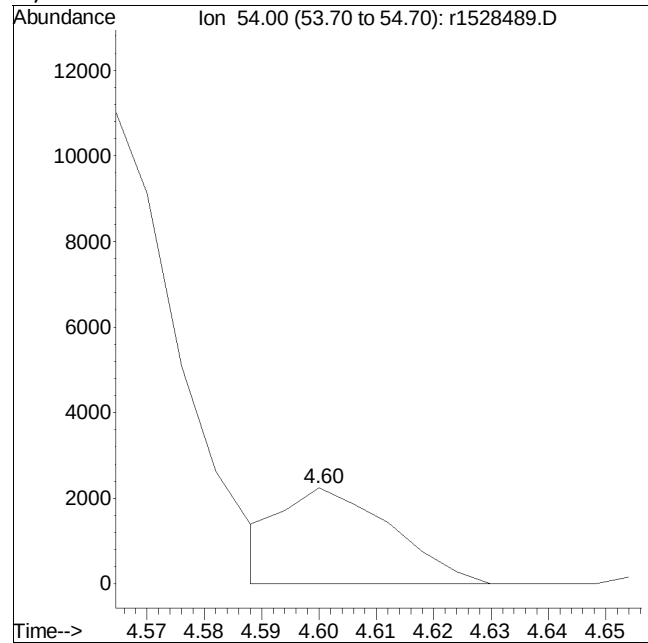
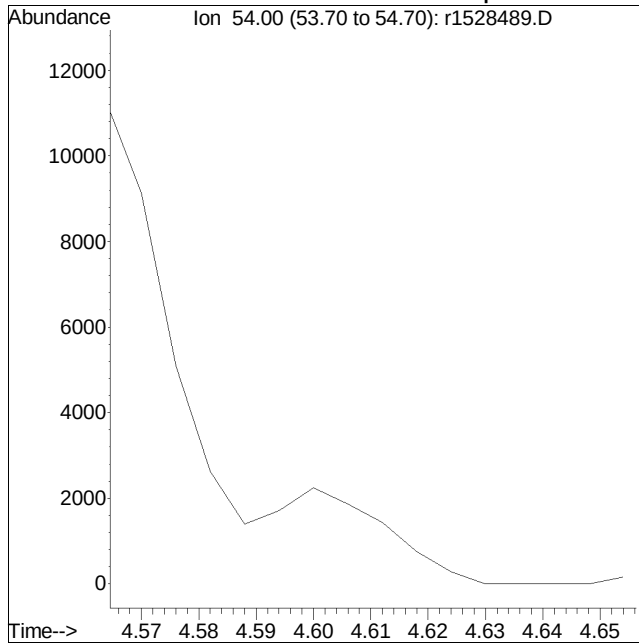
Tgt	Ion:105	Resp:	15255
Ion	Ratio	Lower	Upper
105	100		
120	49.1	51.8	77.6#
91	13.4	59.5	89.3#



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528489.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:1: 1 Instrument :
Sample : L2150027-01D,3,200,250 Quant Date : 9/22/2021 7:25 am

Compound #10: 1,3-butadiene



Original Peak Response =

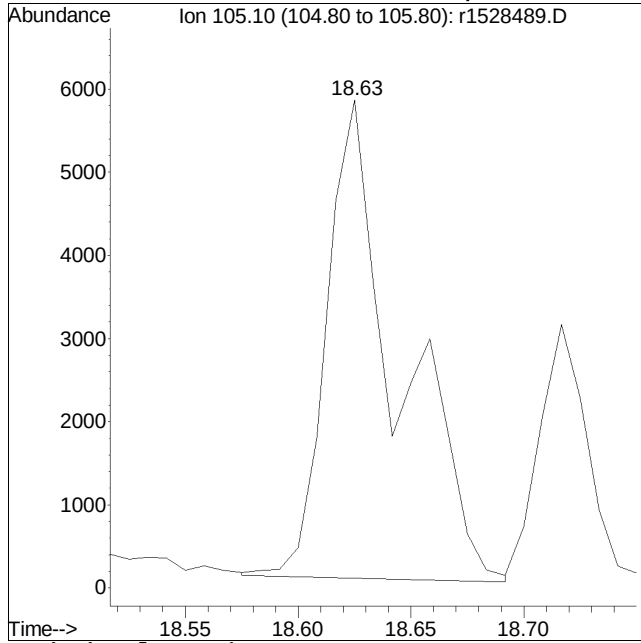
Manual Peak Response = 2992 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration/Negative Proof Report

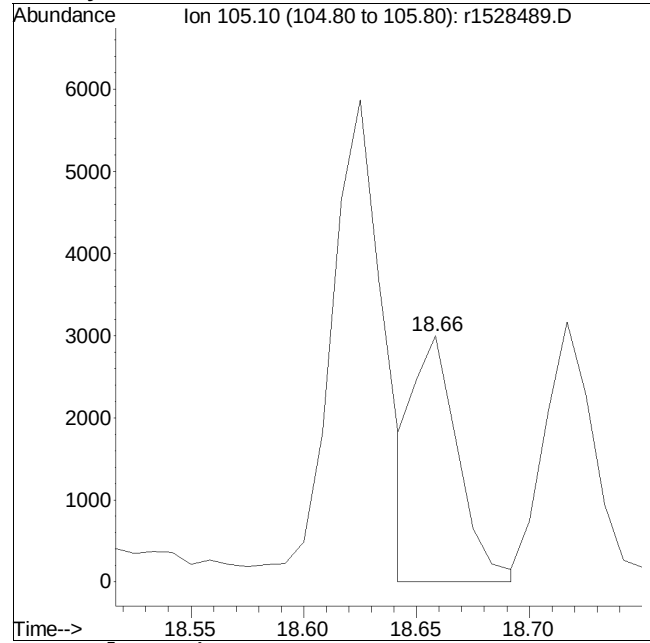
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528489.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:1: 1 Instrument :
Sample : L2150027-01D,3,200,250 Quant Date : 9/22/2021 7:25 am

Compound #96: 4-ethyl toluene



Original Peak Response = 12741

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 4162 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528490.D
 Acq On : 22 Sep 2021 12:19 AM
 Operator : AIRLAB15:RY
 Sample : L2150027-04D, 3, 138.61, 250
 Misc : WG1549026, ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:24:20 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.63	49	403171	10.000	ppbV	-0.05
Standard Area = 344610			Recovery =	116.99%		
43) 1,4-difluorobenzene	11.92	114	907031	10.000	ppbV	-0.04
Standard Area = 879831			Recovery =	103.09%		
67) chlorobenzene-D5	16.66	54	178107	10.000	ppbV	-0.02
Standard Area = 155534			Recovery =	114.51%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.99	85	8784	0.293	ppbV	96
6) chloromethane	4.18	50	23941	1.502	ppbV	97
7) Freon-114	4.32		0	N.D.		
9) vinyl chloride	0.00		0	N.D.		
10) 1,3-butadiene	4.61	54	1633M3	0.097	ppbV	
13) bromomethane	0.00		0	N.D.		
14) chloroethane	5.15		0	N.D.		
15) ethanol	5.32	31	6156	0.494	ppbV #	82
17) vinyl bromide	0.00		0	N.D.		
19) acetone	5.89	43	591585M4	22.252	ppbV	
21) trichlorofluoromethane	6.11	101	9300	0.349	ppbV	100
22) isopropyl alcohol	6.23	45	3105	0.099	ppbV #	84
26) 1,1-dichloroethene	0.00		0	N.D.	d	
27) tertiary butyl alcohol	6.96	59	24283	0.676	ppbV #	71
28) methylene chloride	7.06	49	18041	0.923	ppbV	93
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	7.35	76	46478	0.917	ppbV #	27
31) Freon 113	7.39		0	N.D.		
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	8.52		0	N.D.		
36) 2-butanone	8.91	43	705625	14.295	ppbV	97
37) cis-1,2-dichloroethene	0.00		0	N.D.		
38) Ethyl Acetate	9.75	61	757	0.082	ppbV	73
39) chloroform	9.79	83	2762	0.080	ppbV #	93
40) Tetrahydrofuran	10.24	42	161658	5.120	ppbV	94
42) 1,2-dichloroethane	10.65	62	1935	0.083	ppbV #	87

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528490.D
 Acq On : 22 Sep 2021 12:19 AM
 Operator : AIRLAB15:RY
 Sample : L2150027-04D, 3, 138.61, 250
 Misc : WG1549026, ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:24:20 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) hexane	9.71	57	36568	0.822	ppbV	#	46
48) 1,1,1-trichloroethane	0.00		0	N.D.			
50) benzene	11.48	78	281623	3.937	ppbV		98
52) carbon tetrachloride	11.65		0	N.D.			
53) cyclohexane	11.80	56	22430	0.465	ppbV	#	92
56) 1,2-dichloropropane	0.00		0	N.D.			
57) bromodichloromethane	0.00		0	N.D.	d		
58) 1,4-dioxane	12.75		0	N.D.			
59) trichloroethene	12.72		0	N.D.			
60) 2,2,4-trimethylpentane	12.77	57	8962	0.061	ppbV	#	29
62) heptane	13.10	43	25614	0.514	ppbV		88
63) cis-1,3-dichloropropene	0.00		0	N.D.			
64) 4-methyl-2-pentanone	13.80	43	4723	0.084	ppbV		89
65) trans-1,3-dichloropropene	0.00		0	N.D.			
66) 1,1,2-trichloroethane	14.66		0	N.D.			
68) toluene	14.88	91	32219	0.390	ppbV		97
72) 2-hexanone	15.18	43	78279	1.553	ppbV	#	80
74) dibromochloromethane	0.00		0	N.D.			
75) 1,2-dibromoethane	0.00		0	N.D.			
78) tetrachloroethene	16.05	166	3036	0.108	ppbV		92
80) chlorobenzene	0.00		0	N.D.	d		
81) ethylbenzene	17.04	91	5562	0.056	ppbV		93
83) m+p-xylene	17.19	91	14706	0.185	ppbV	#	83
84) bromoform	0.00		0	N.D.			
85) styrene	17.52	104	5660	0.095	ppbV		98
86) 1,1,2,2-tetrachloroethane	0.00		0	N.D.	d		
87) o-xylene	17.62	91	4941	0.063	ppbV		99
96) 4-ethyl toluene	18.66		0	N.D.			
97) 1,3,5-trimethylbenzene	18.73		0	N.D.			
99) 1,2,4-trimethylbenzene	19.05	105	6858	0.084	ppbV	#	55
101) Benzyl Chloride	0.00		0	N.D.	d		
102) 1,3-dichlorobenzene	0.00		0	N.D.	d		
103) 1,4-dichlorobenzene	19.23		0	N.D.			
107) 1,2-dichlorobenzene	0.00		0	N.D.			
115) 1,2,4-trichlorobenzene	0.00		0	N.D.			
119) hexachlorobutadiene	0.00		0	N.D.			

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528490.D
 Acq On : 22 Sep 2021 12:19 AM
 Operator : AIRLAB15:RY
 Sample : L2150027-04D, 3, 138.61, 250
 Misc : WG1549026, ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:24:20 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : T015-NY - .

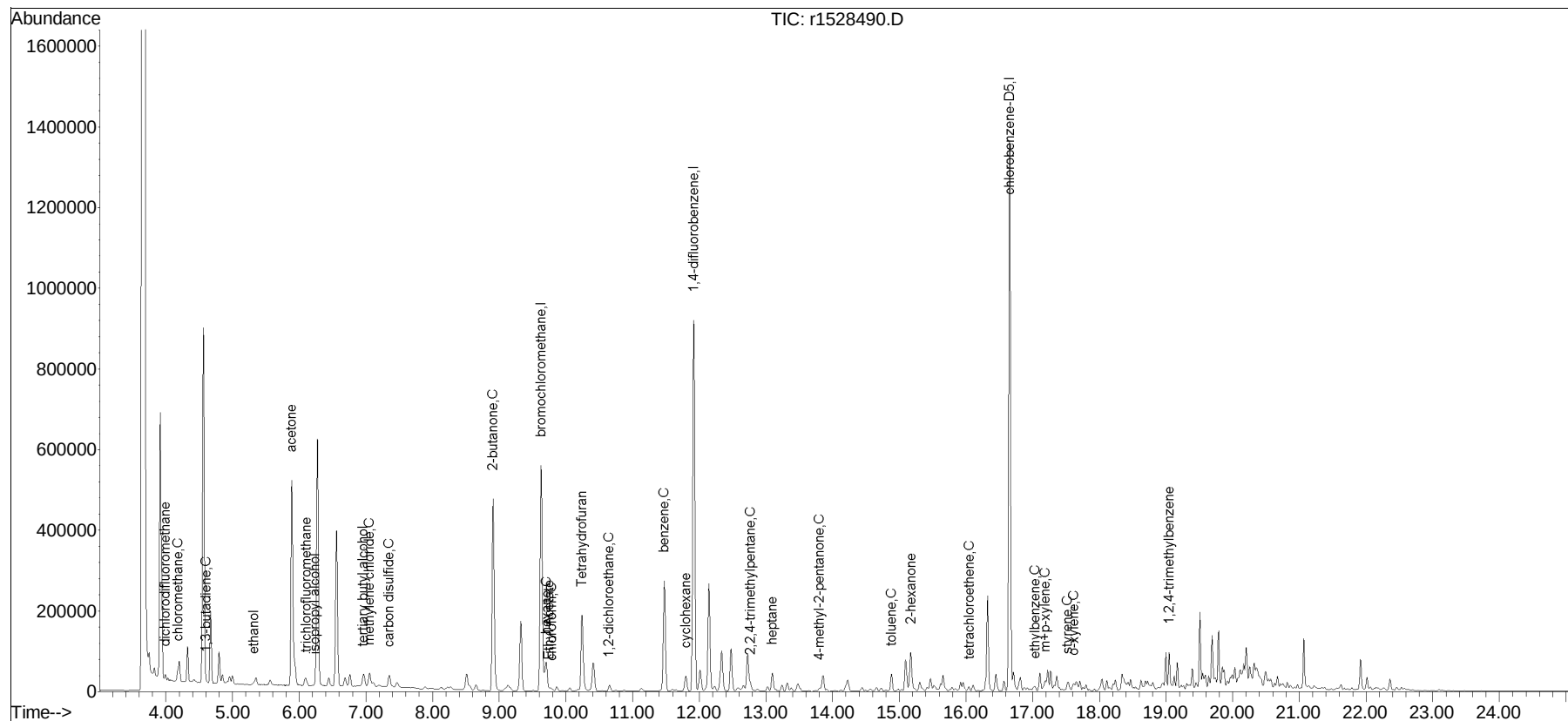
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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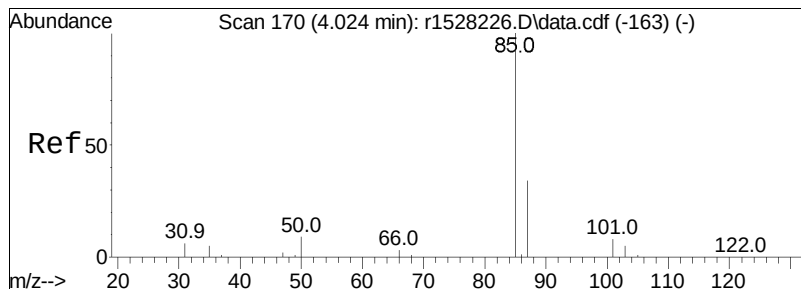
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528490.D
 Acq On : 22 Sep 2021 12:19 AM
 Operator : AIRLAB15:RY
 Sample : L2150027-04D, 3, 138.61, 250
 Misc : WG1549026, ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 13:24:20 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

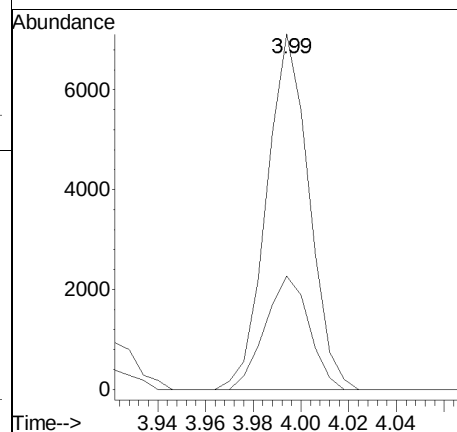
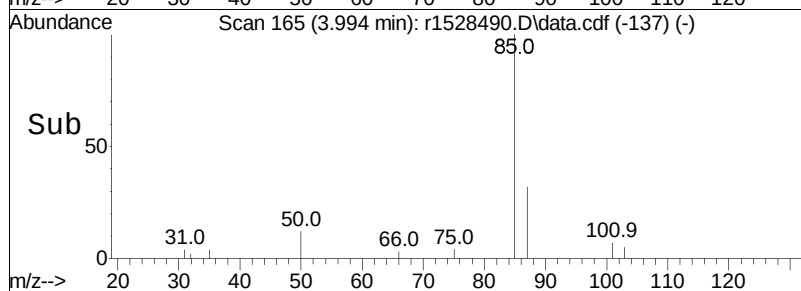
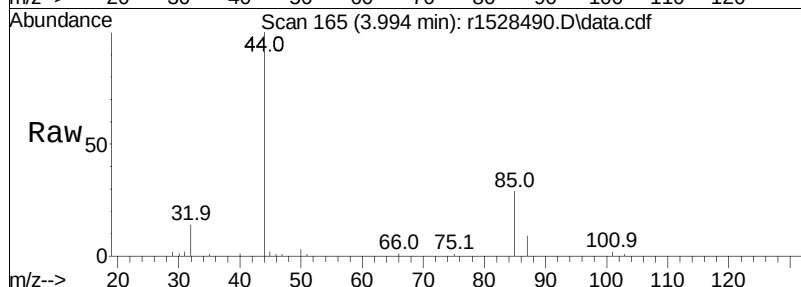
Sub List : T015-NY - .s\Data\Airlab15\2021\09\0921T\r1528475.D

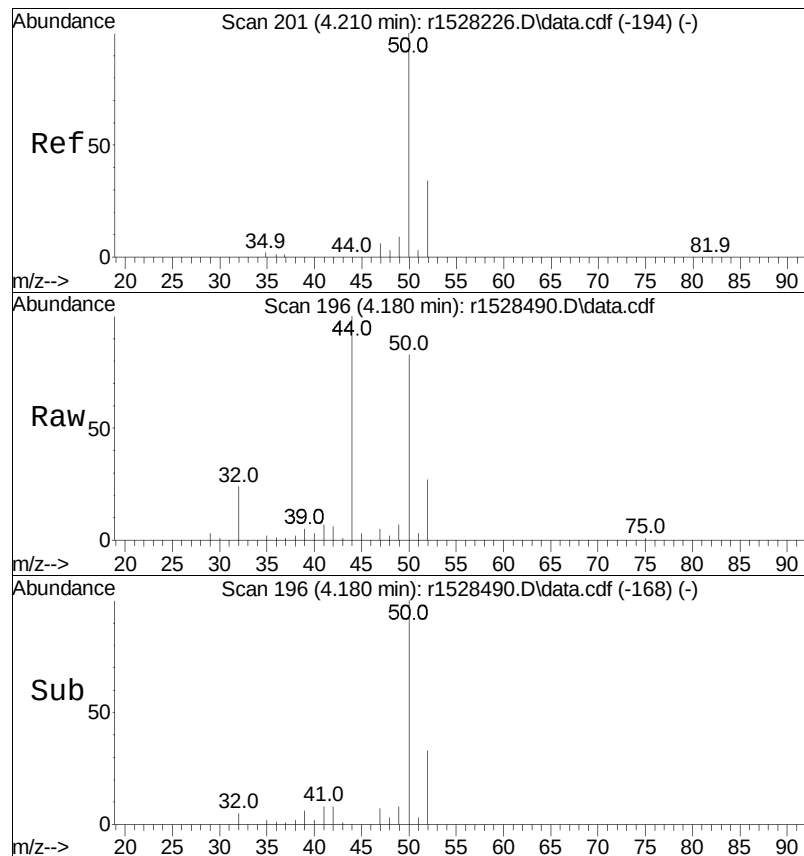




#5
 dichlorodifluoromethane
 Concen: 0.29 ppbV
 RT: 3.99 min Scan# 165
 Delta R.T. -0.030 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

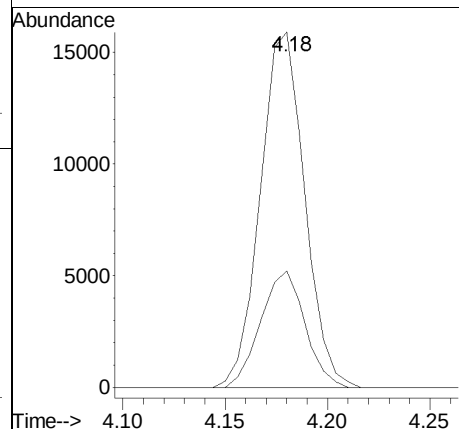
Tgt Ion	85	87	Ratio	Lower	Upper	Resp
85	100					8784
87	31.9	27.1	40.7			

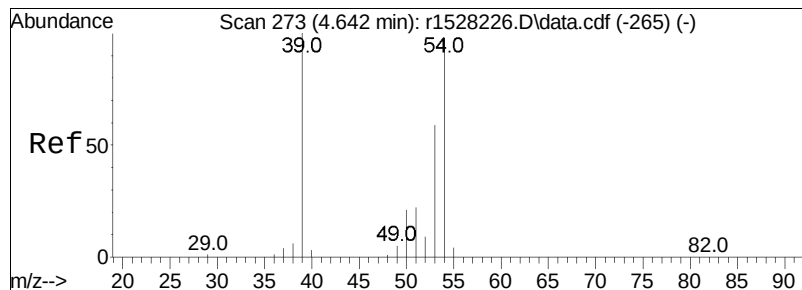




#6
 chloromethane
 Concen: 1.50 ppbV
 RT: 4.18 min Scan# 196
 Delta R.T. -0.030 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

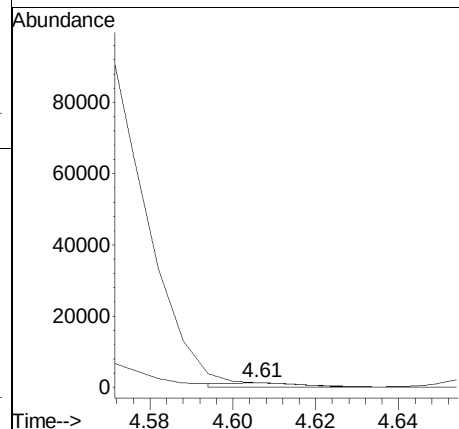
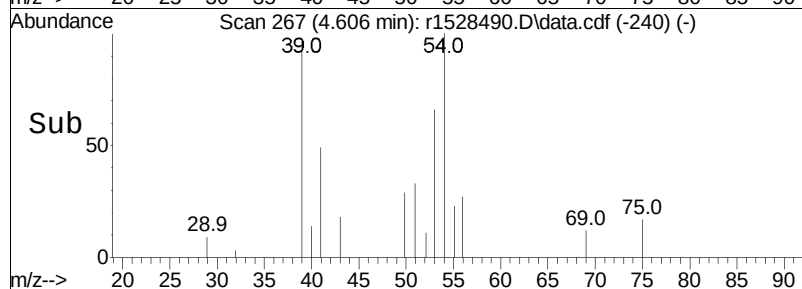
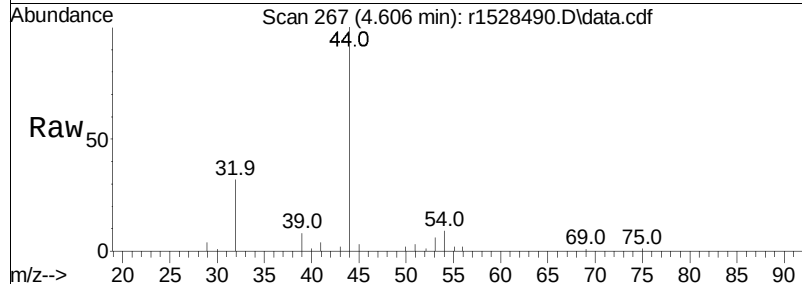
Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.8	27.6	41.4

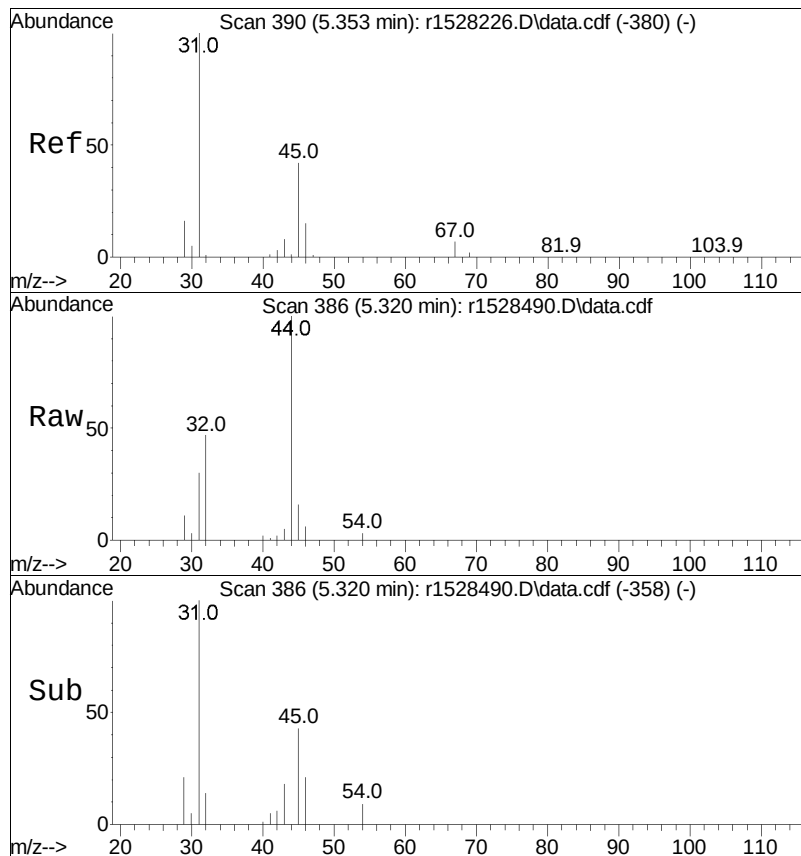




#10
 1,3-butadiene
 Concen: 0.10 ppbV m
 RT: 4.61 min Scan# 267
 Delta R.T. -0.036 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

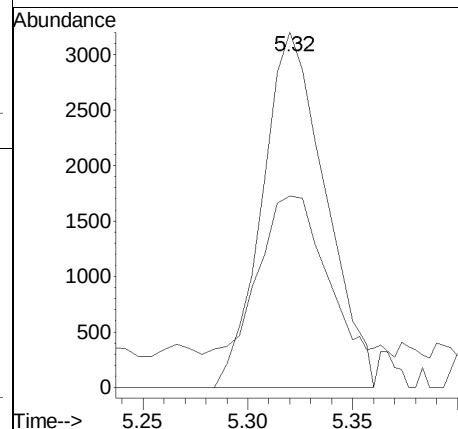
Tgt Ion	Ratio	Lower	Upper
54	100		
39	97.9	81.9	122.9

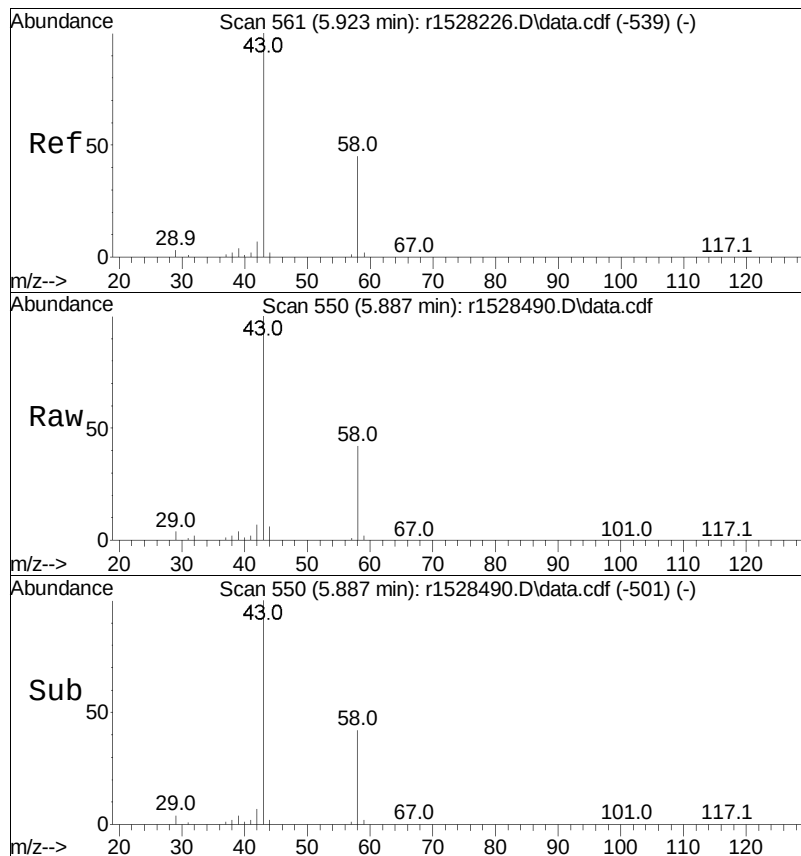




#15
ethanol
Concen: 0.49 ppbV
RT: 5.32 min Scan# 386
Delta R.T. -0.033 min
Lab File: r1528490.D
Acq: 22 Sep 2021 12:19 AM

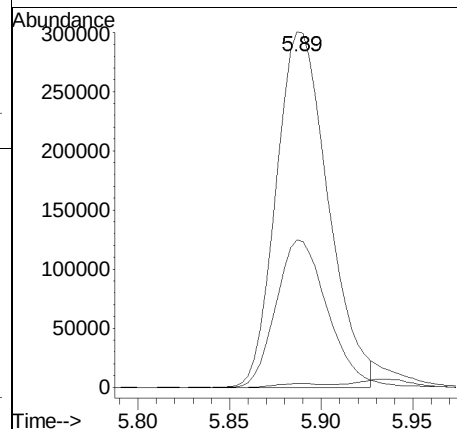
Tgt	Ion	Ratio	Resp	Lower	Upper
31	100		6156		
45	53.9	34.0	51.0#		

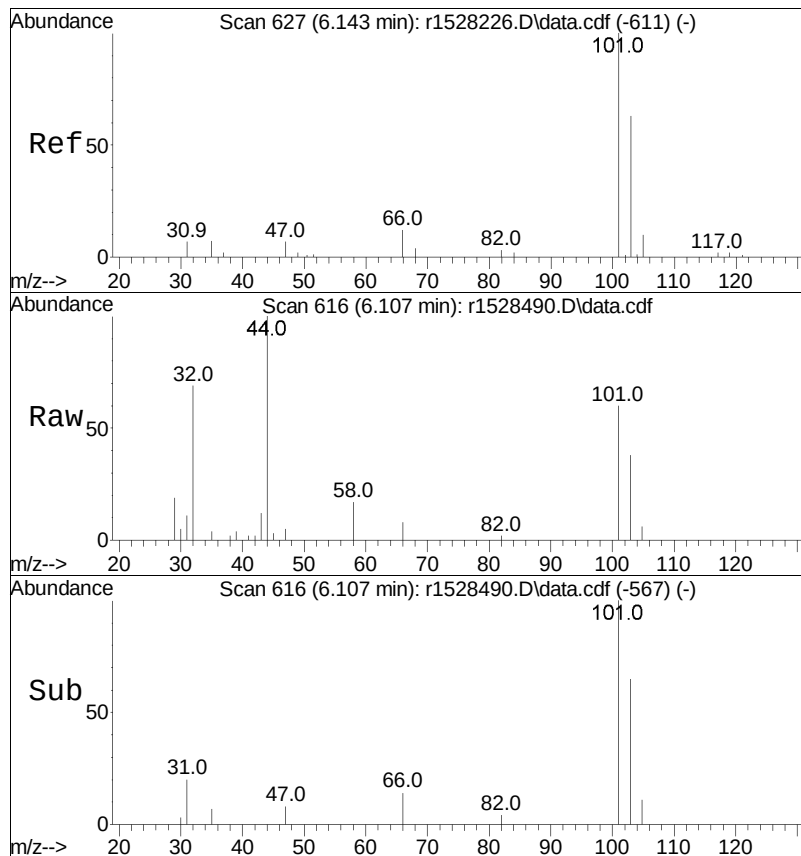




#19
 acetone
 Concen: 22.25 ppbV m
 RT: 5.89 min Scan# 550
 Delta R.T. -0.037 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

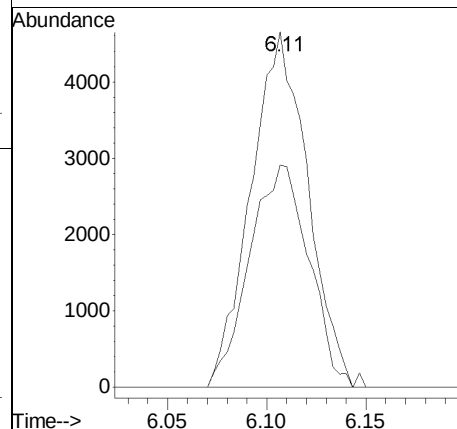
Tgt Ion:	43	Resp:	591585
Ion Ratio	Lower	Upper	
43	100		
58	41.5	36.2	54.2
57	1.1	0.9	1.3

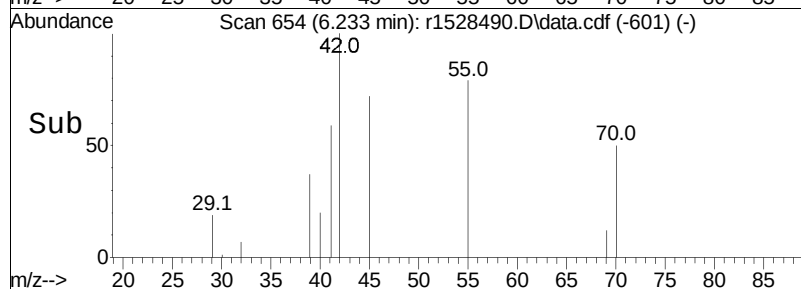
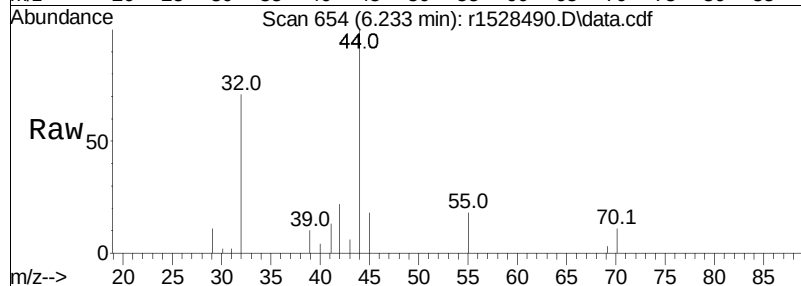
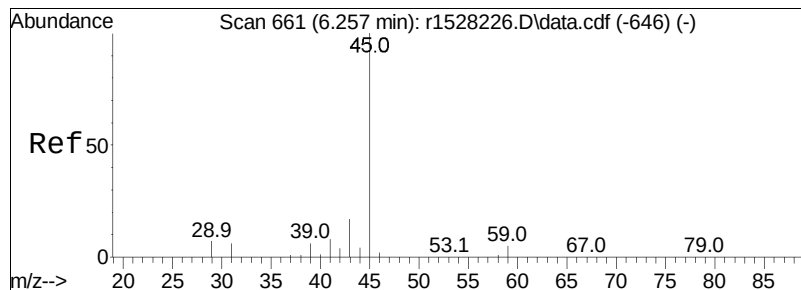




#21
trichlorofluoromethane
Concen: 0.35 ppbV
RT: 6.11 min Scan# 616
Delta R.T. -0.037 min
Lab File: r1528490.D
Acq: 22 Sep 2021 12:19 AM

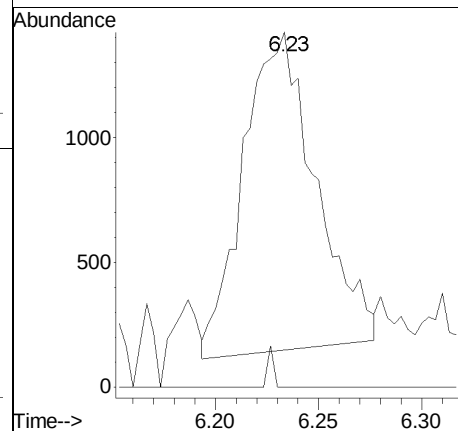
Tgt	Ion:101	Resp:	9300
Ion	Ratio	Lower	Upper
101	100		
103	62.5	50.2	75.4

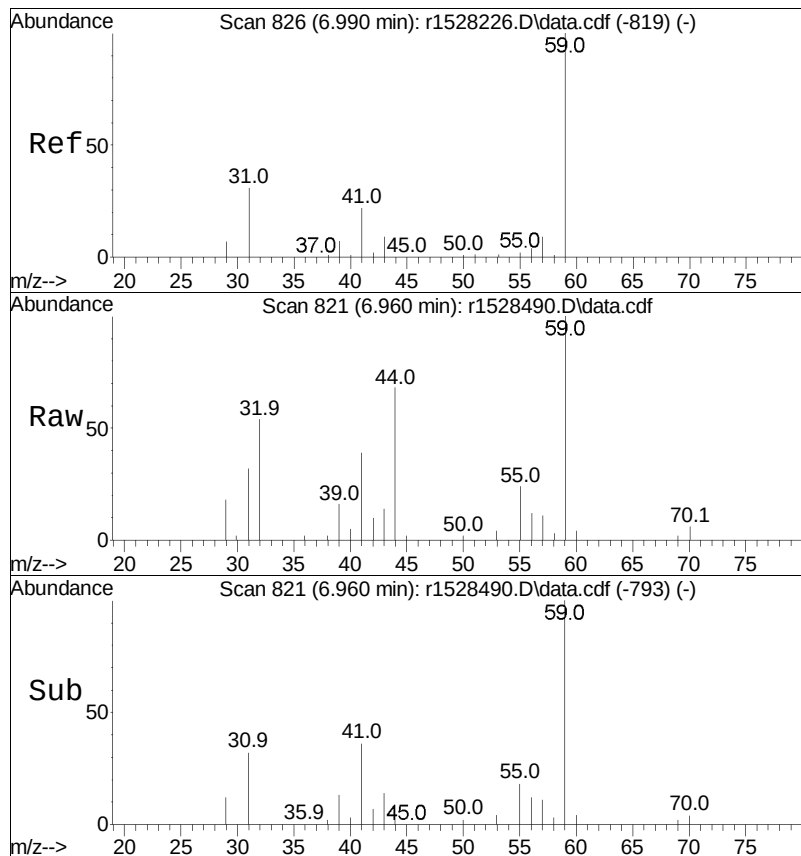




#22
isopropyl alcohol
Concen: 0.10 ppbV
RT: 6.23 min Scan# 654
Delta R.T. -0.023 min
Lab File: r1528490.D
Acq: 22 Sep 2021 12:19 AM

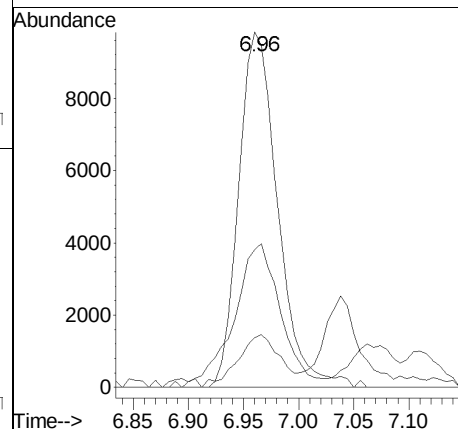
Tgt Ion	Ratio	Lower	Upper
45	100		
59	0.0	4.2	6.2#

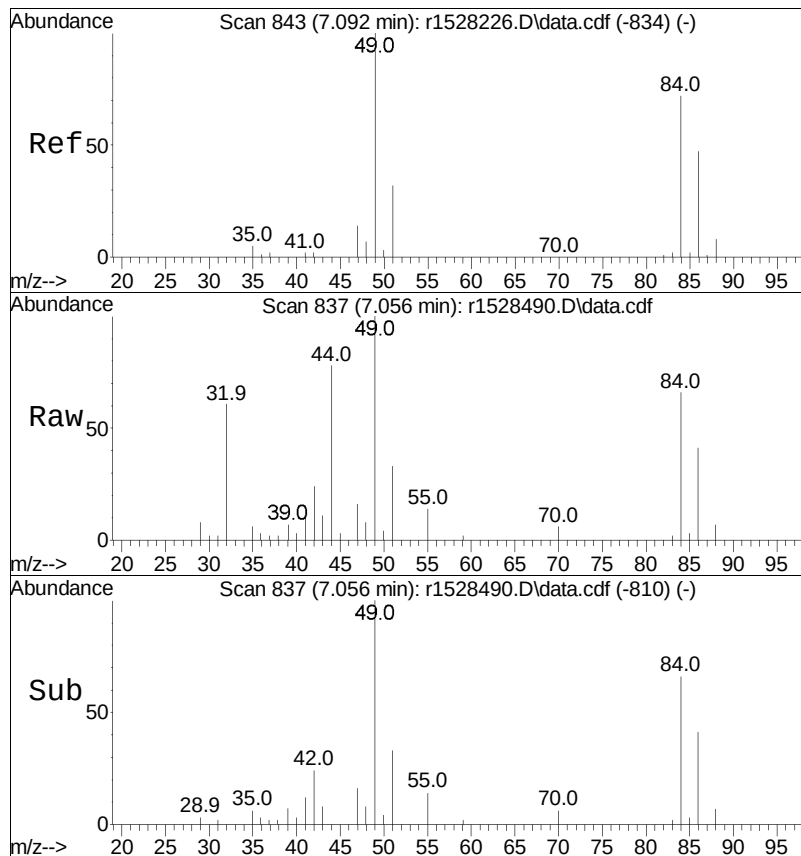




#27
 tertiary butyl alcohol
 Concen: 0.68 ppbV
 RT: 6.96 min Scan# 821
 Delta R.T. -0.030 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

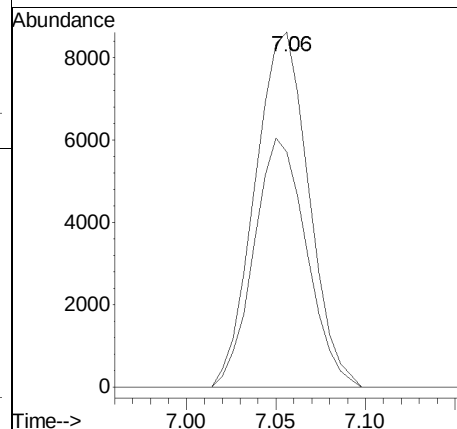
Tgt Ion	Ratio	Lower	Upper
59	100		
41	38.8	17.4	26.0#
43	14.0	7.3	10.9#

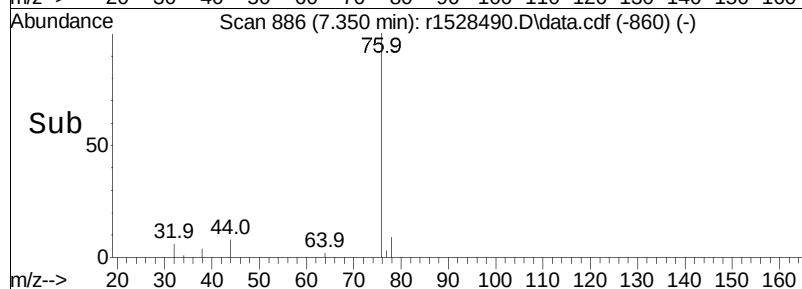
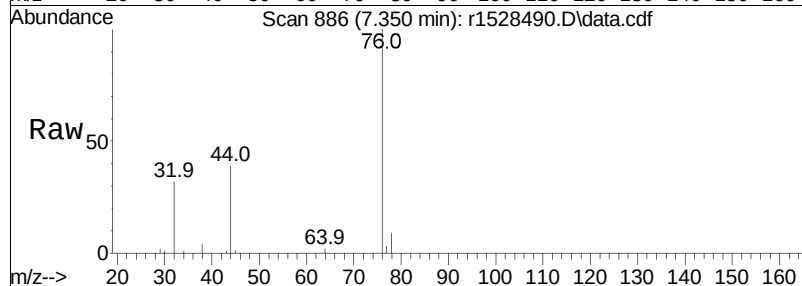
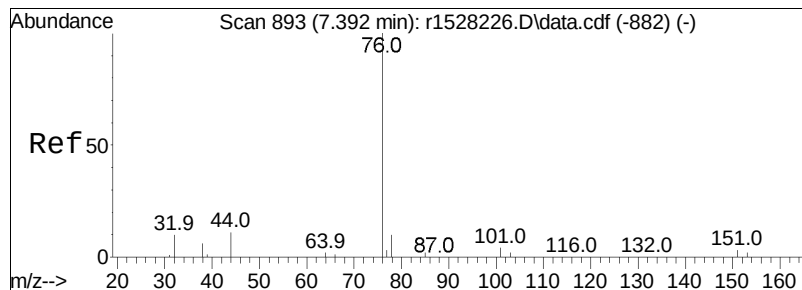




#28
 methylene chloride
 Concen: 0.92 ppbV
 RT: 7.06 min Scan# 837
 Delta R.T. -0.036 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

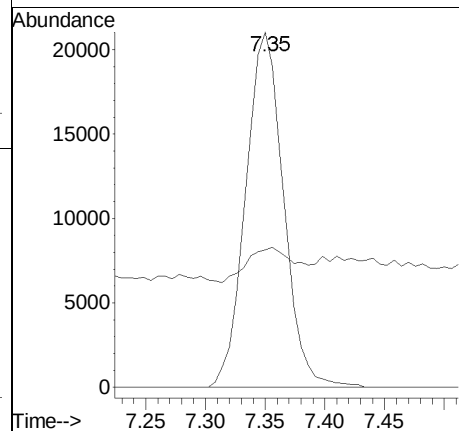
Tgt Ion:	49	84	Ratio	100	66.2	Resp:	18041	Lower	Upper
								57.4	86.0

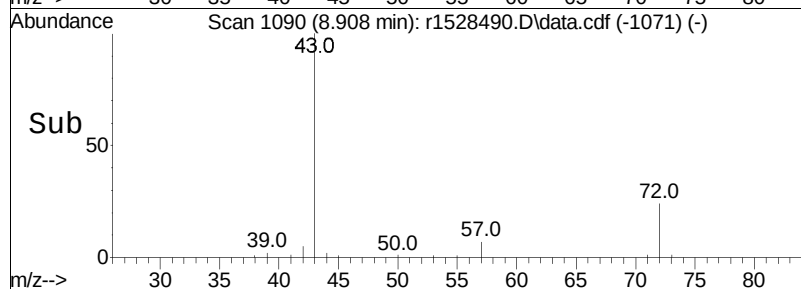
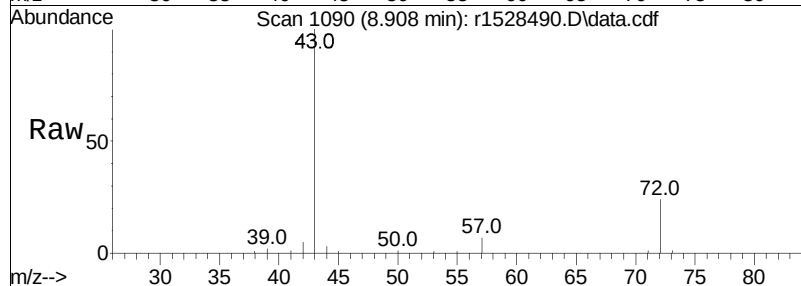
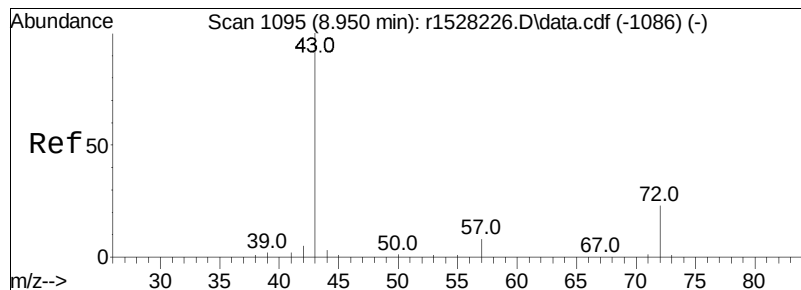




#30
carbon disulfide
Concen: 0.92 ppbV
RT: 7.35 min Scan# 886
Delta R.T. -0.042 min
Lab File: r1528490.D
Acq: 22 Sep 2021 12:19 AM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	38.7	8.8	13.2#





#36

2-butanone

Concen: 14.30 ppbV

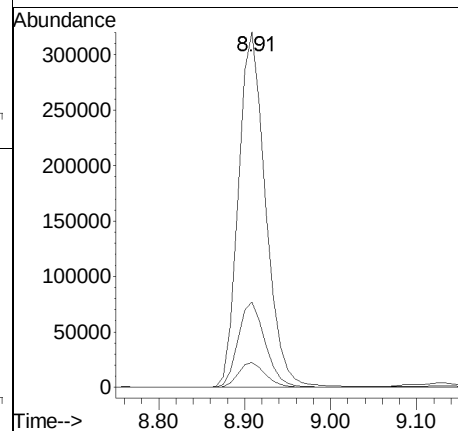
RT: 8.91 min Scan# 1090

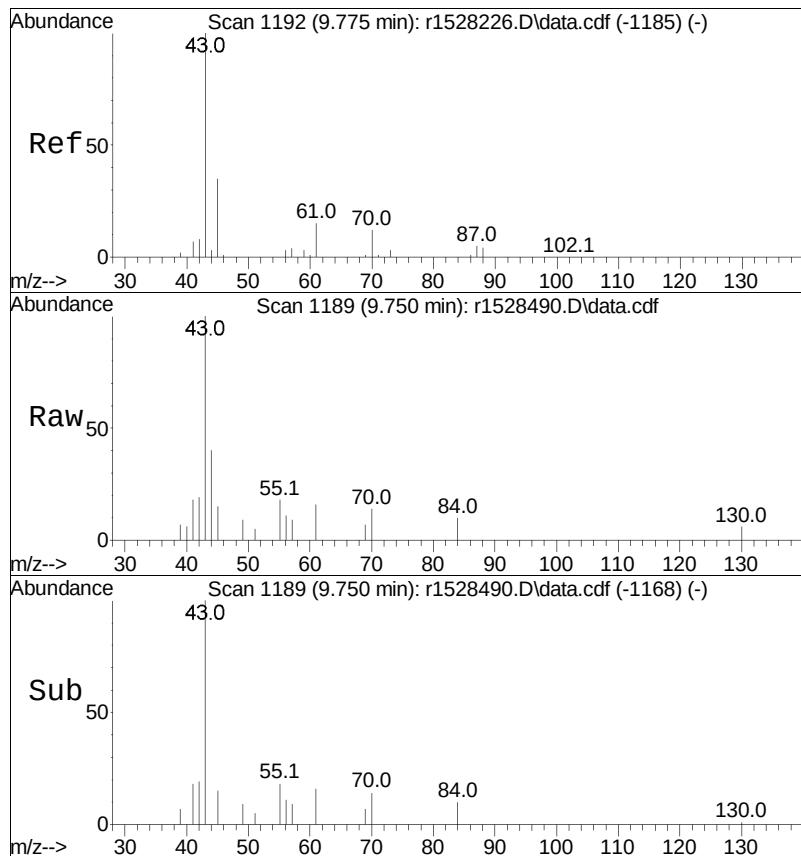
Delta R.T. -0.042 min

Lab File: r1528490.D

Acq: 22 Sep 2021 12:19 AM

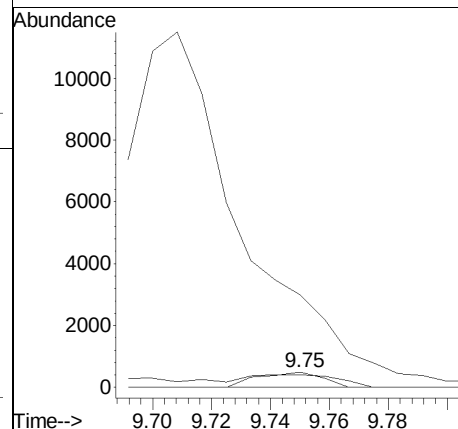
Tgt	Ion: 43	Resp:	705625
Ion	Ratio	Lower	Upper
43	100		
72	24.1	18.3	27.5
57	7.0	6.6	10.0

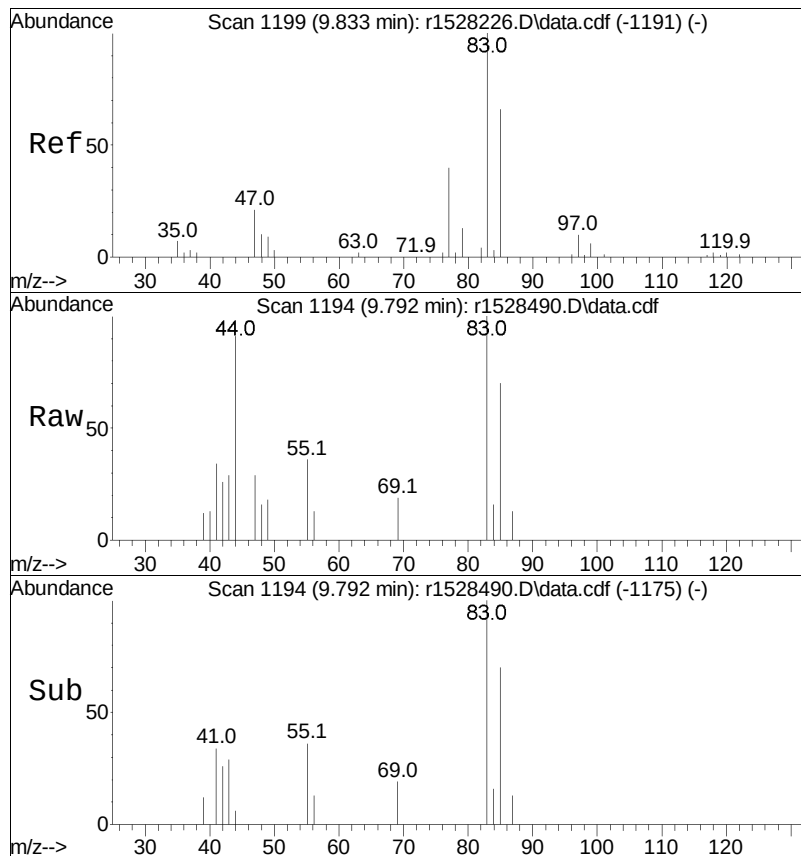




#38
 Ethyl Acetate
 Concen: 0.08 ppbV
 RT: 9.75 min Scan# 1189
 Delta R.T. -0.025 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

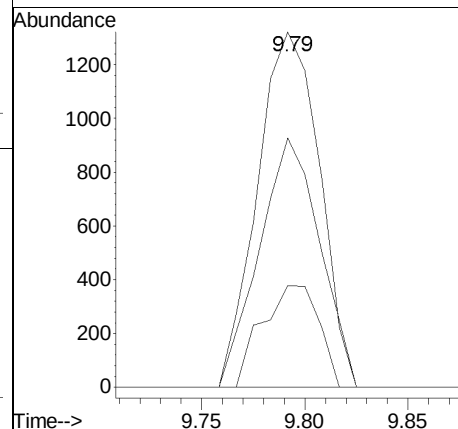
Tgt	Ion	Ratio	Lower	Upper
61	100			
70	82.2	61.9	92.9	
43	606.3	568.7	853.1	

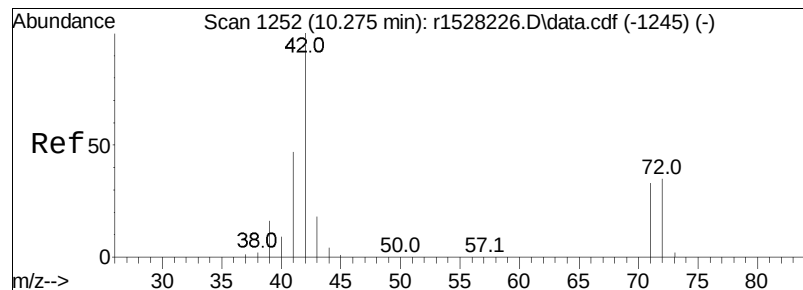




#39
 chloroform
 Concen: 0.08 ppbV
 RT: 9.79 min Scan# 1194
 Delta R.T. -0.042 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

Tgt Ion:	83	Resp:	2762
Ion Ratio	Lower	Upper	
83	100		
85	70.2	52.9	79.3
47	28.6	17.4	26.0#





#40

Tetrahydrofuran

Concen: 5.12 ppbV

RT: 10.24 min Scan# 1248

Delta R.T. -0.033 min

Lab File: r1528490.D

Acq: 22 Sep 2021 12:19 AM

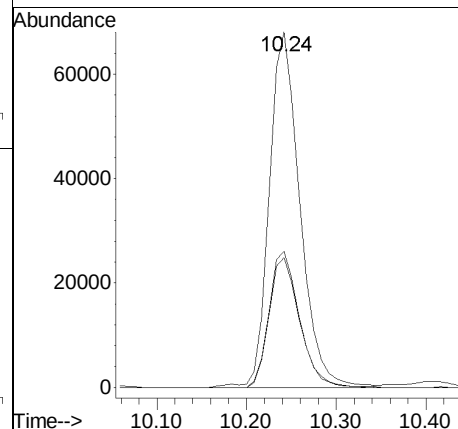
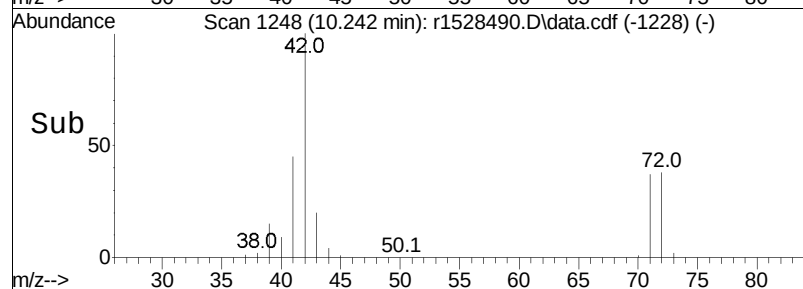
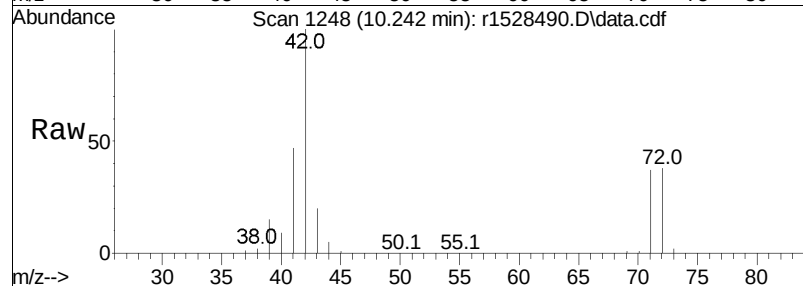
Tgt Ion: 42 Resp: 161658

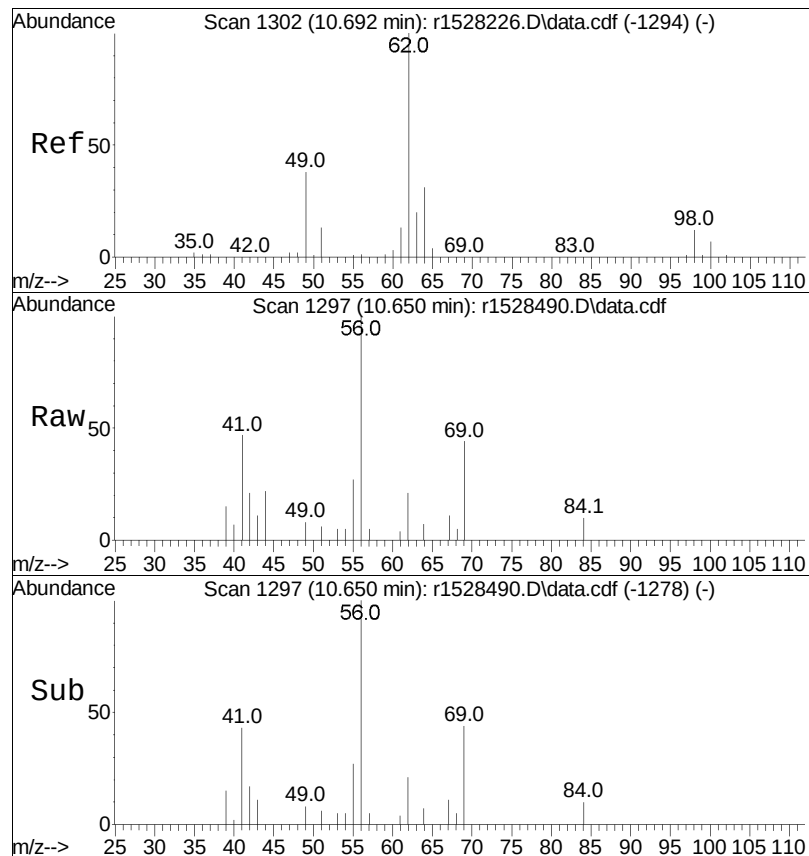
Ion Ratio Lower Upper

42 100

71 36.5 26.8 40.2

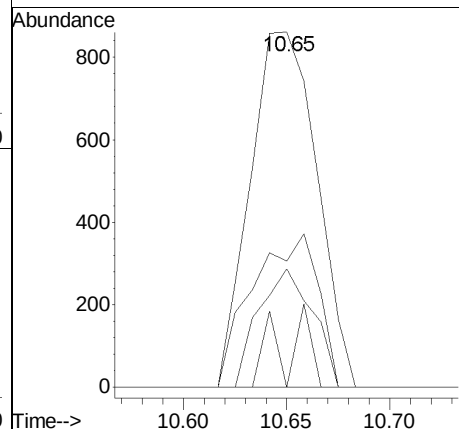
72 38.3 27.9 41.9

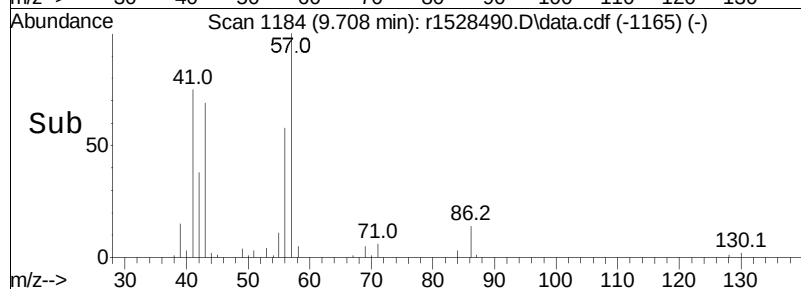
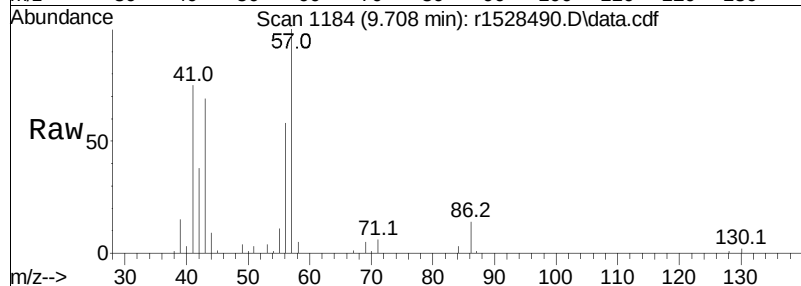
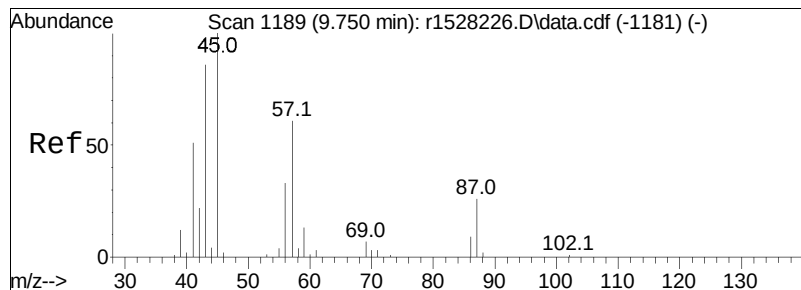




#42
 1,2-dichloroethane
 Concen: 0.08 ppbV
 RT: 10.65 min Scan# 1297
 Delta R.T. -0.042 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

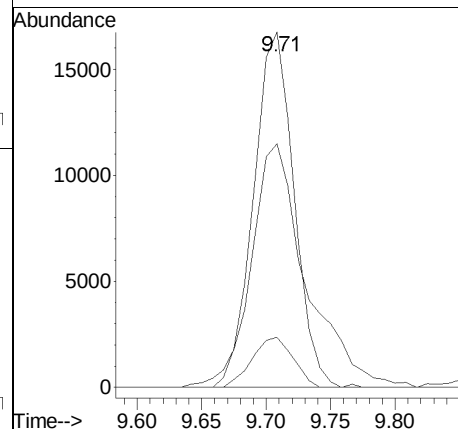
Tgt	Ion: 62	Resp:	1935
Ion	Ratio	Lower	Upper
62	100		
64	33.3	24.7	37.1
49	35.5	30.4	45.6
63	0.0	16.2	24.4#

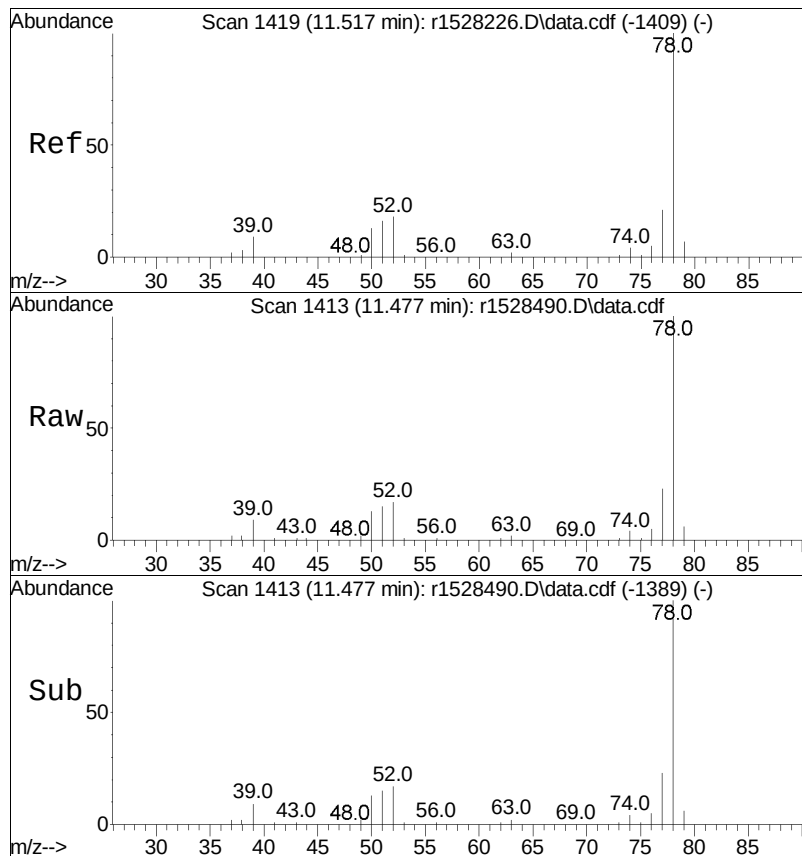




#44
hexane
Concen: 0.82 ppbV
RT: 9.71 min Scan# 1184
Delta R.T. -0.042 min
Lab File: r1528490.D
Acq: 22 Sep 2021 12:19 AM

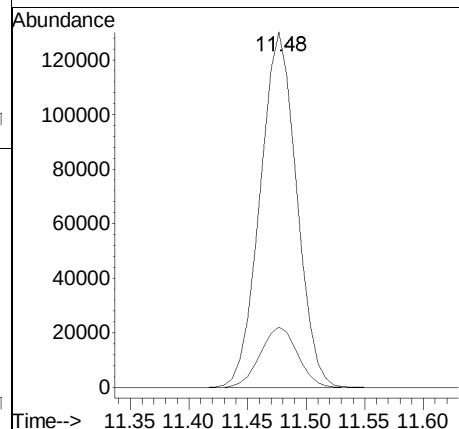
Tgt	Ion	Ratio	Lower	Upper
57	100			
43	68.6	113.8	170.8#	
86	14.1	11.6	17.4	

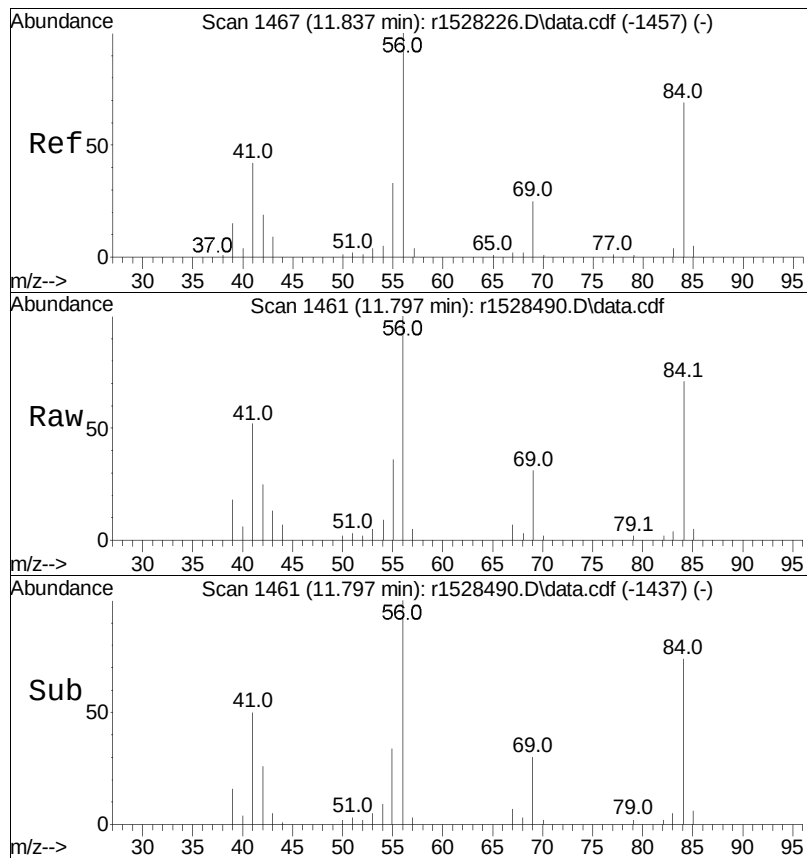




#50
benzene
Concen: 3.94 ppbV
RT: 11.48 min Scan# 1413
Delta R.T. -0.040 min
Lab File: r1528490.D
Acq: 22 Sep 2021 12:19 AM

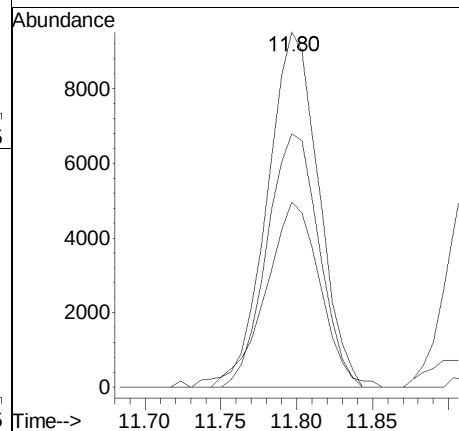
Tgt Ion	Ratio	Lower	Upper
78	100		
52	17.0	14.2	21.4

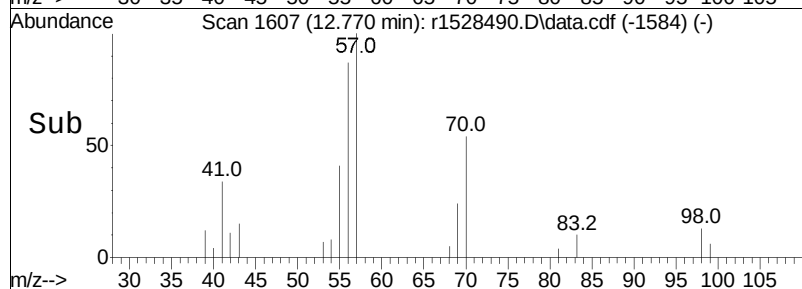
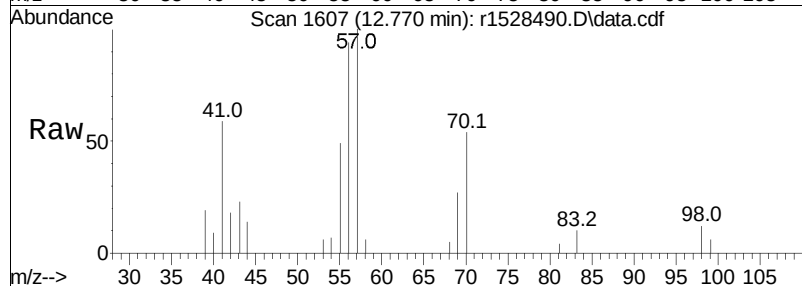
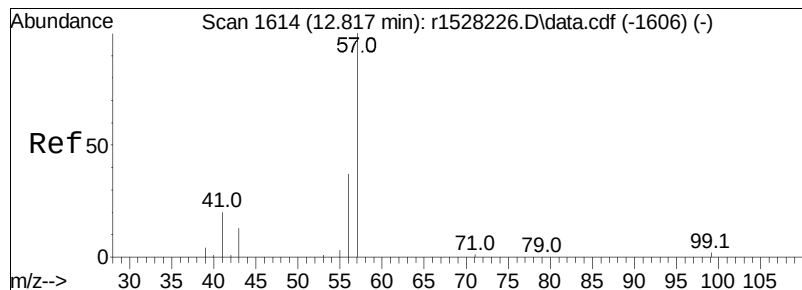




#53
cyclohexane
Concen: 0.46 ppbV
RT: 11.80 min Scan# 1461
Delta R.T. -0.040 min
Lab File: r1528490.D
Acq: 22 Sep 2021 12:19 AM

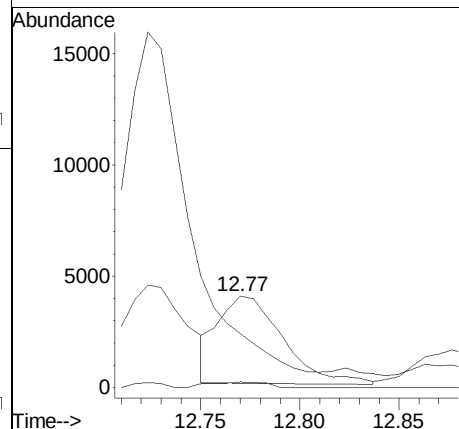
Tgt	Ion	Resp	Lower	Upper
56	100	22430		
84	71.4		54.9	82.3
41	52.2		34.0	51.0#

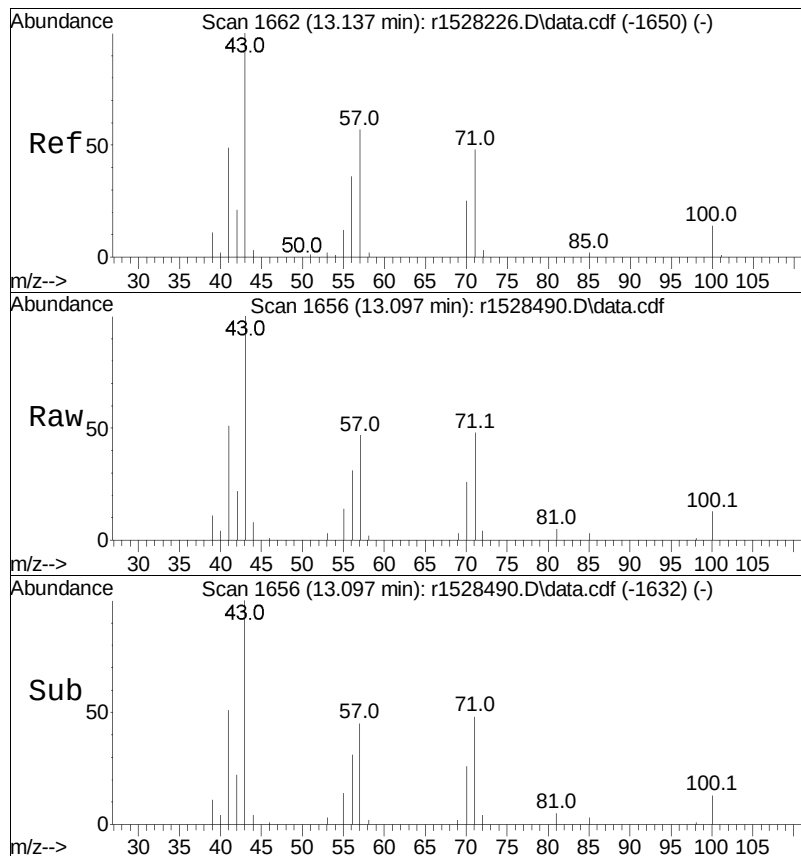




#60
 2,2,4-trimethylpentane
 Concen: 0.06 ppbV
 RT: 12.77 min Scan# 1607
 Delta R.T. -0.047 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

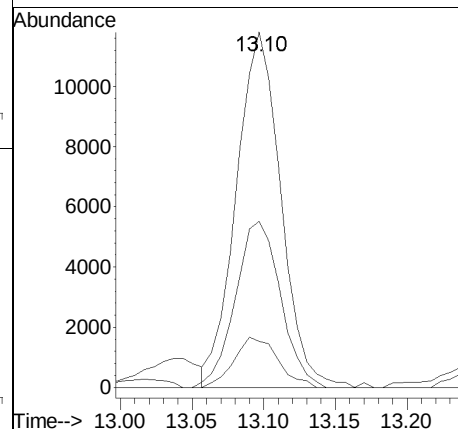
Tgt Ion	Ratio	Lower	Upper
57	100		
99	6.1	3.3	4.9#
41	58.9	16.2	24.2#

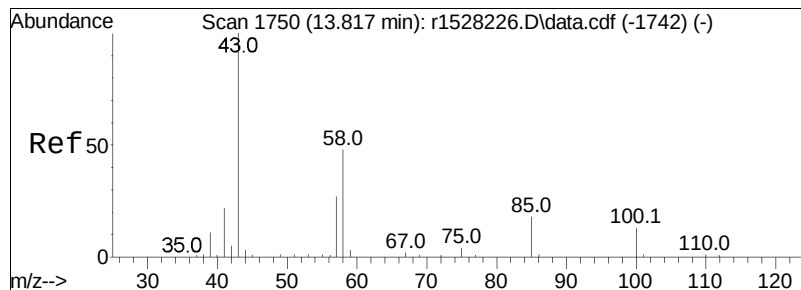




#62
 heptane
 Concen: 0.51 ppbV
 RT: 13.10 min Scan# 1656
 Delta R.T. -0.040 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

Tgt	Ion: 43	Resp:	25614
Ion	Ratio	Lower	Upper
43	100		
57	46.7	45.5	68.3
100	13.0	11.7	17.5





#64

4-methyl-2-pentanone

Concen: 0.08 ppbV

RT: 13.80 min Scan# 1748

Delta R.T. -0.017 min

Lab File: r1528490.D

Acq: 22 Sep 2021 12:19 AM

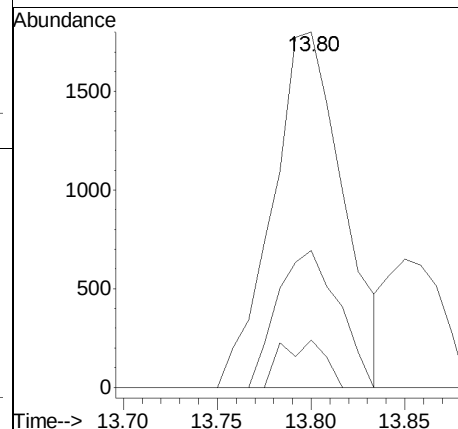
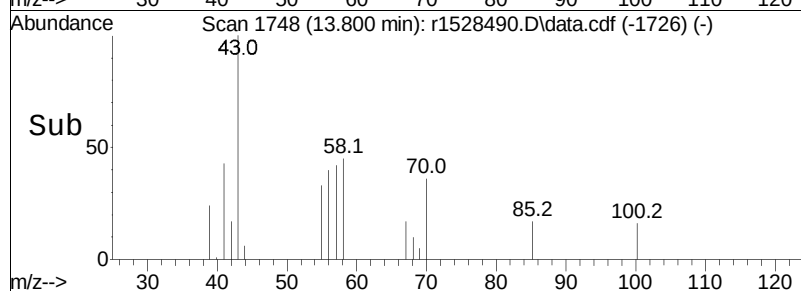
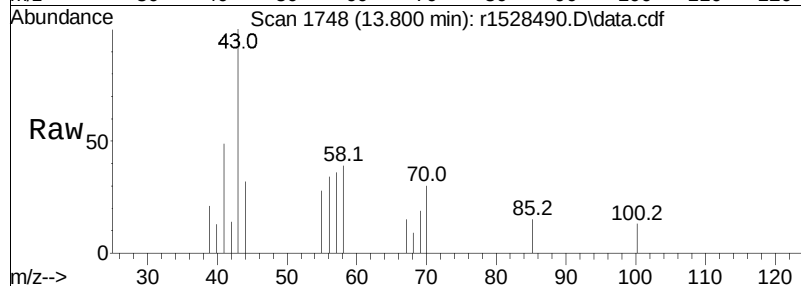
Tgt Ion: 43 Resp: 4723

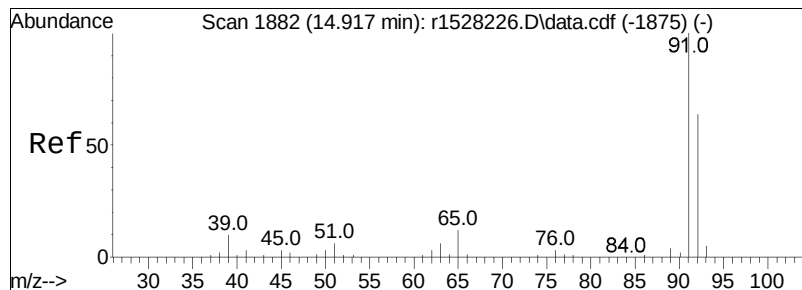
Ion Ratio Lower Upper

43 100

58 38.5 38.5 57.7

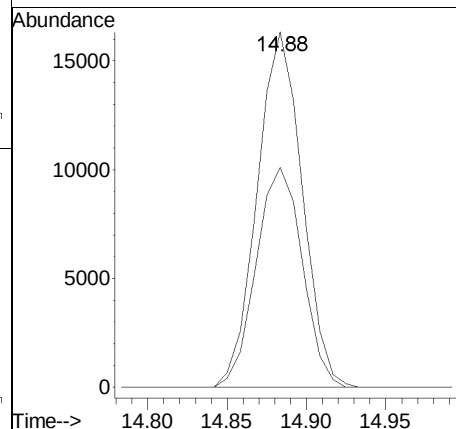
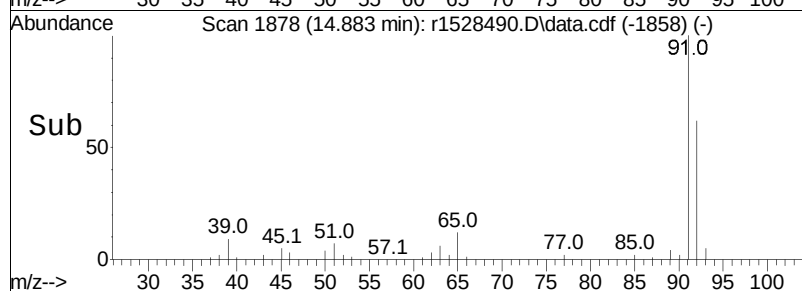
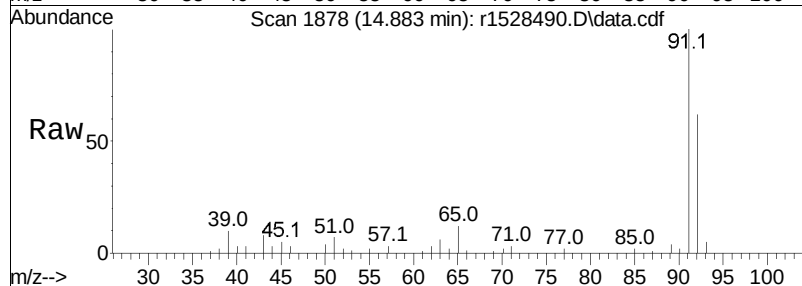
100 13.4 10.6 16.0

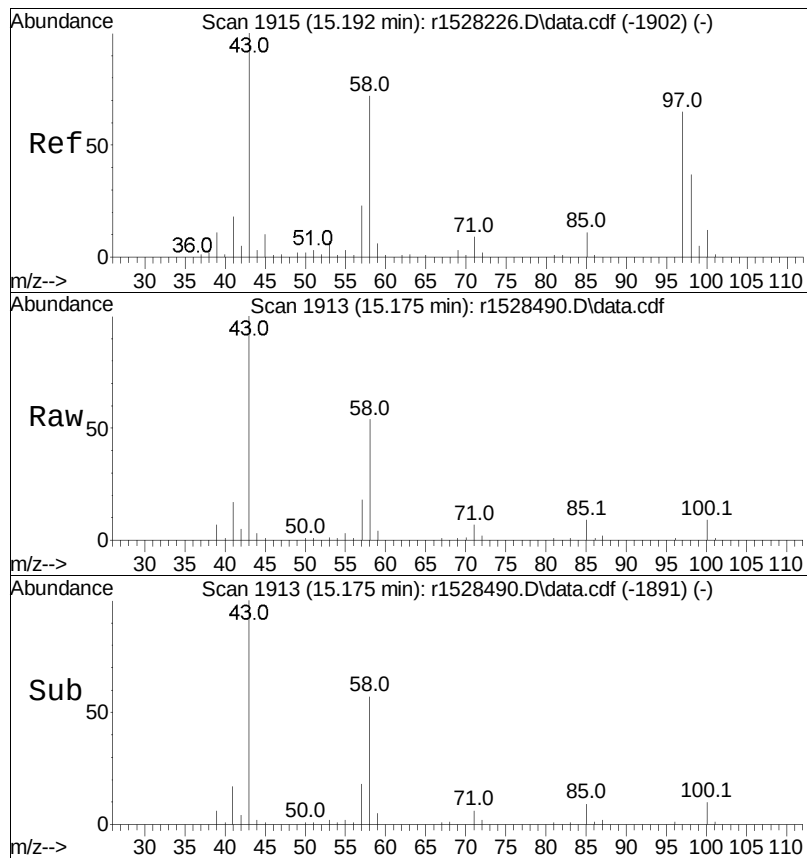




#68
toluene
Concen: 0.39 ppbV
RT: 14.88 min Scan# 1878
Delta R.T. -0.033 min
Lab File: r1528490.D
Acq: 22 Sep 2021 12:19 AM

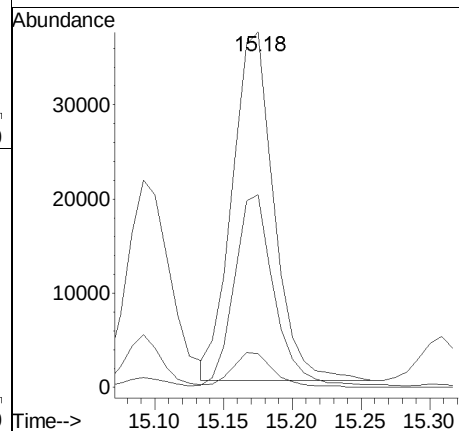
Tgt	Ion	Resp	Lower	Upper
91	100	32219		
92	61.9	51.6	77.4	

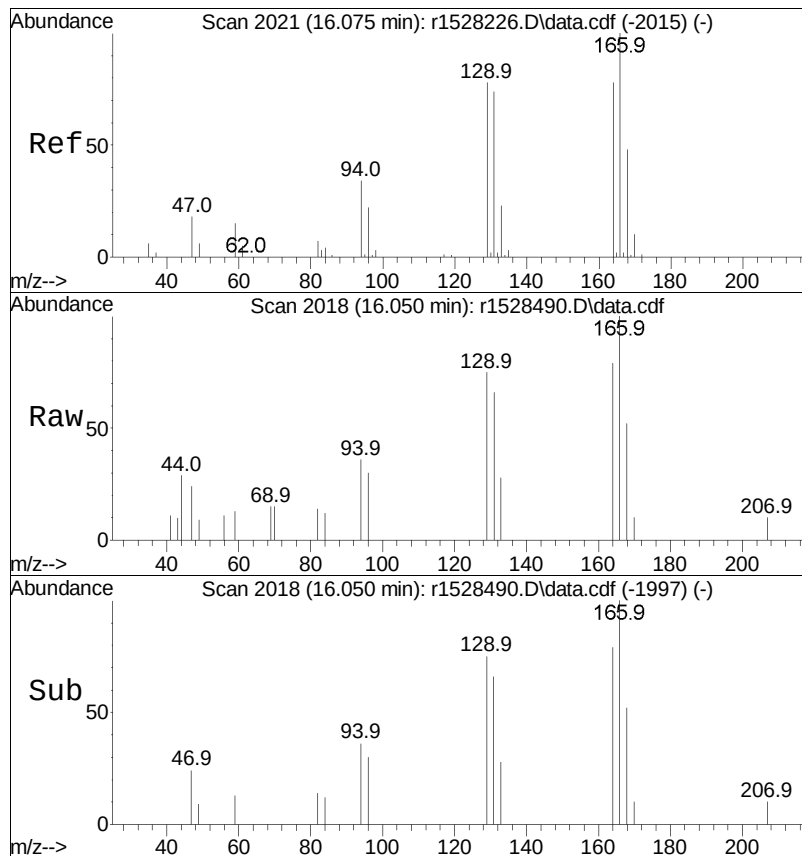




#72
 2-hexanone
 Concen: 1.55 ppbV
 RT: 15.18 min Scan# 1913
 Delta R.T. -0.017 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

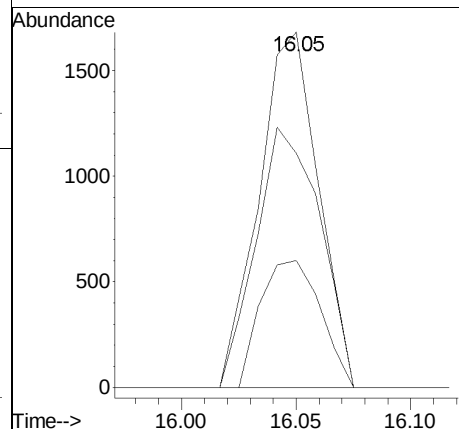
Tgt Ion	Ratio	Lower	Upper
43	100		
58	54.2	57.9	86.9#
100	9.5	9.8	14.8#

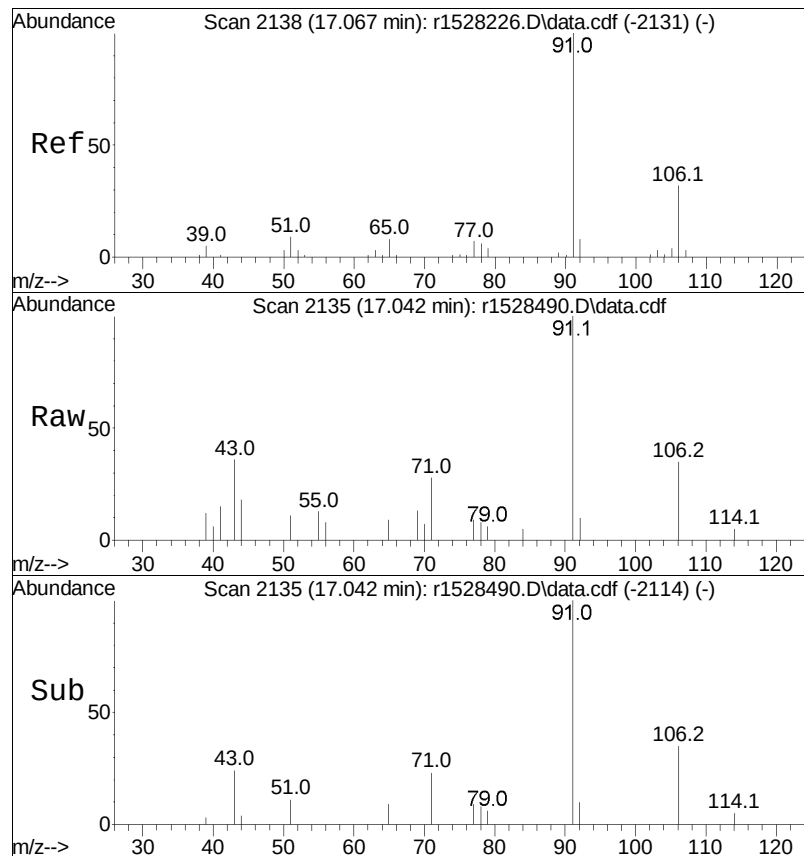




#78
 tetrachloroethene
 Concen: 0.11 ppbV
 RT: 16.05 min Scan# 2018
 Delta R.T. -0.025 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

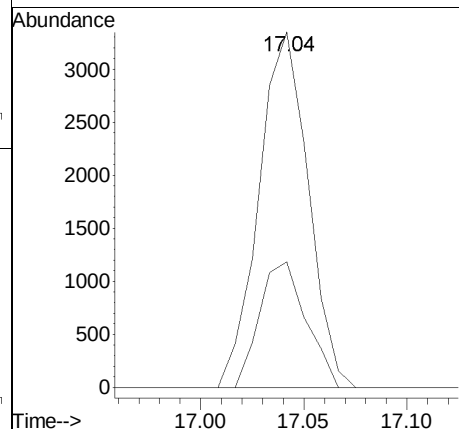
Tgt	Ion:166	Resp:	3036
Ion	Ratio	Lower	Upper
166	100		
131	65.9	59.5	89.3
94	35.7	27.4	41.0

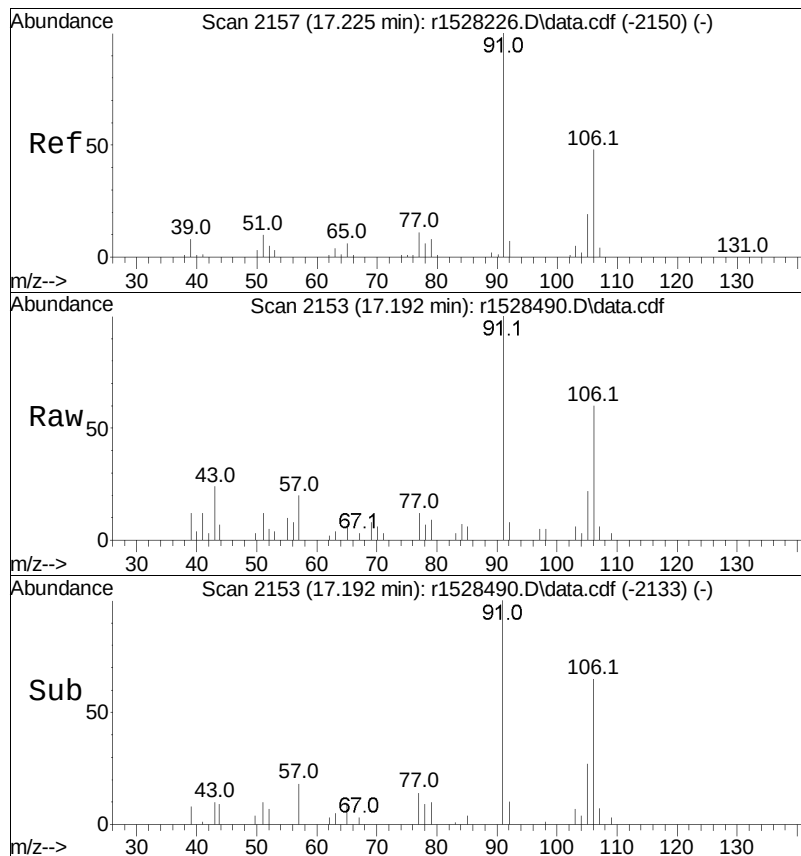




#81
ethylbenzene
Concen: 0.06 ppbV
RT: 17.04 min Scan# 2135
Delta R.T. -0.025 min
Lab File: r1528490.D
Acq: 22 Sep 2021 12:19 AM

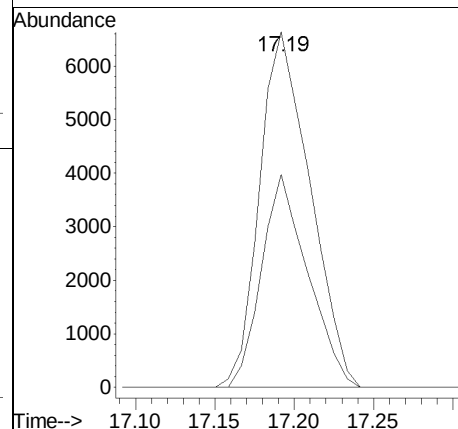
Tgt	Ion	Ratio	Lower	Upper
91	100			
106	35.3	25.3	37.9	

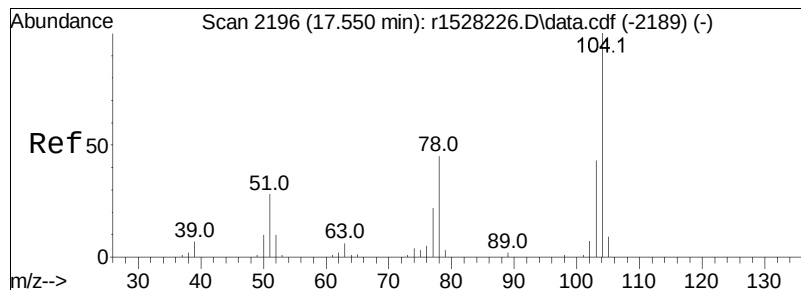




#83
 m+p-xylene
 Concen: 0.18 ppbV
 RT: 17.19 min Scan# 2153
 Delta R.T. -0.033 min
 Lab File: r1528490.D
 Acq: 22 Sep 2021 12:19 AM

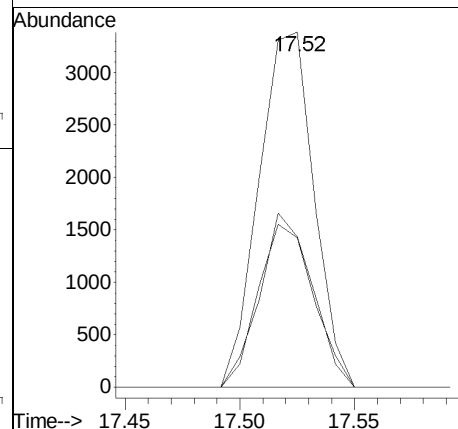
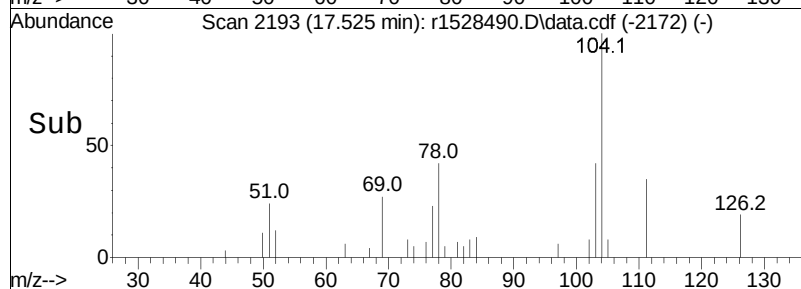
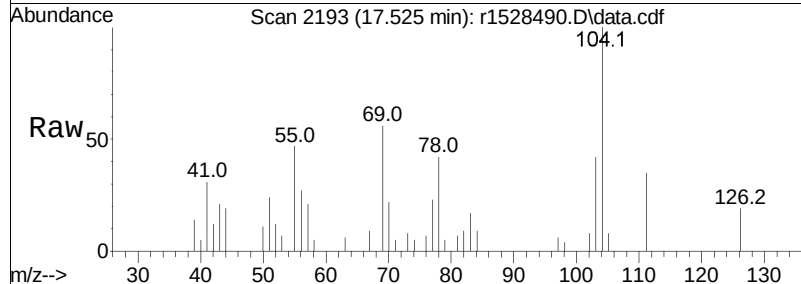
Tgt	Ion	Resp	Lower	Upper
91	100	14706		
106	59.9	38.6	58.0#	

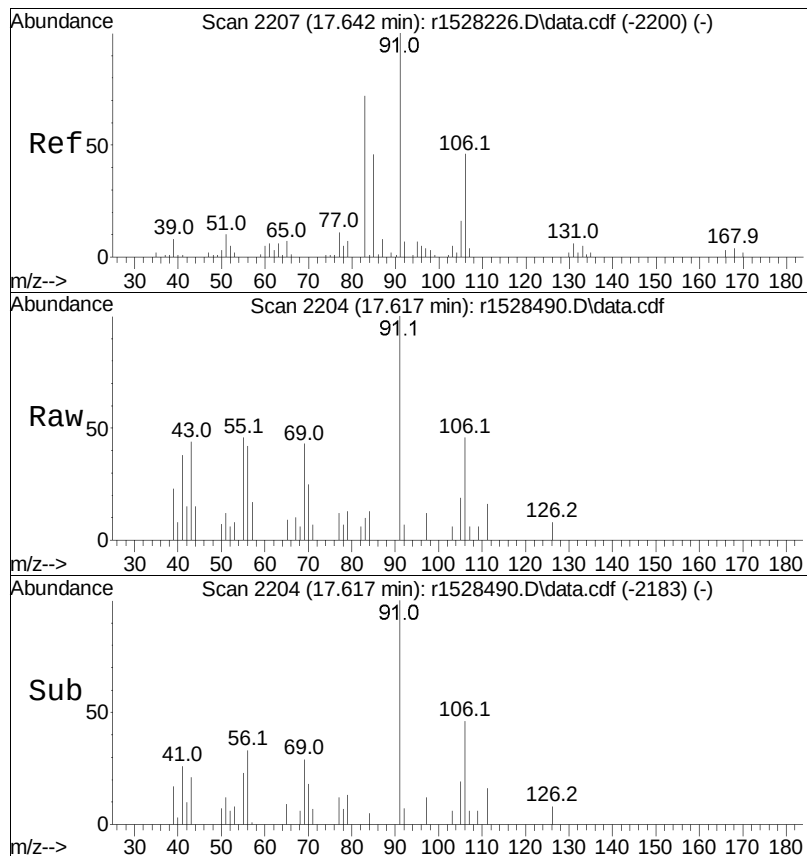




#85
styrene
Concen: 0.09 ppbV
RT: 17.52 min Scan# 2193
Delta R.T. -0.025 min
Lab File: r1528490.D
Acq: 22 Sep 2021 12:19 AM

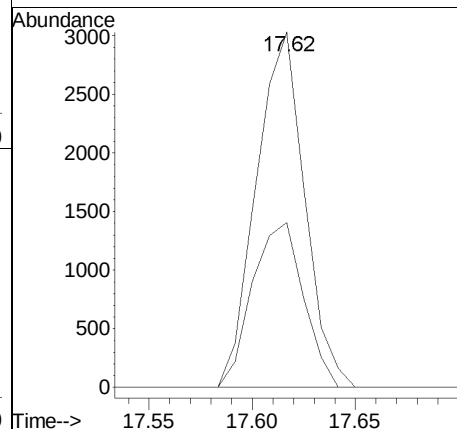
Tgt Ion	Ratio	Lower	Upper
104	100		
103	42.4	34.1	51.1
78	42.1	35.8	53.8

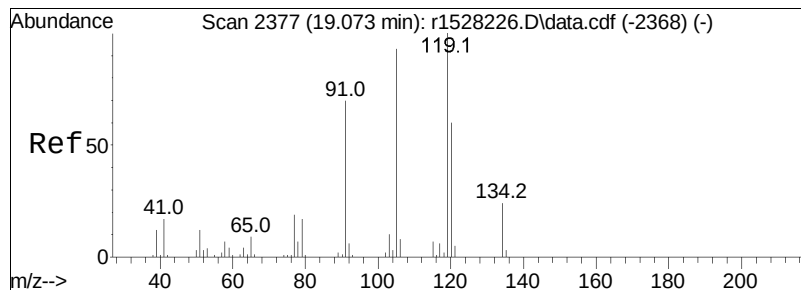




#87
o-xylene
Concen: 0.06 ppbV
RT: 17.62 min Scan# 2204
Delta R.T. -0.025 min
Lab File: r1528490.D
Acq: 22 Sep 2021 12:19 AM

Tgt	Ion	Ratio	Lower	Upper
91	100			
106	46.4	36.5	54.7	





#99

1,2,4-trimethylbenzene

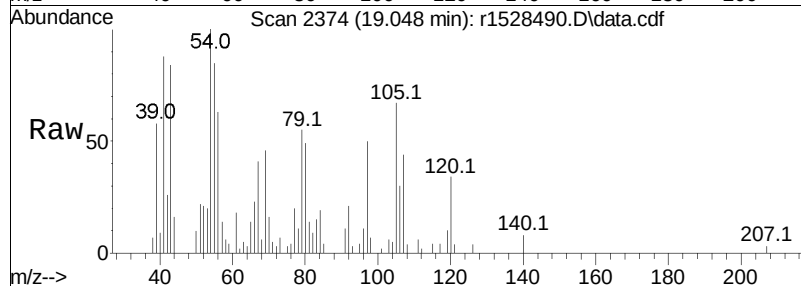
Concen: 0.08 ppbV

RT: 19.05 min Scan# 2374

Delta R.T. -0.025 min

Lab File: r1528490.D

Acq: 22 Sep 2021 12:19 AM



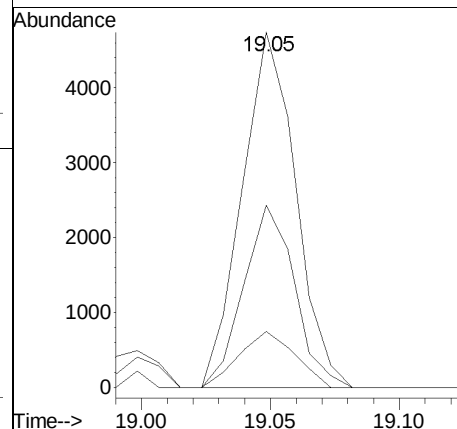
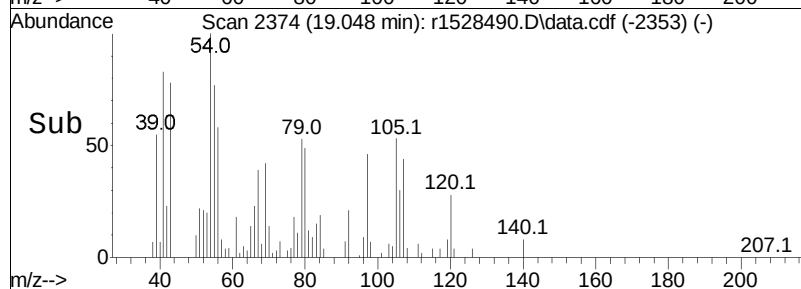
Tgt Ion:105 Resp: 6858

Ion Ratio Lower Upper

105 100

120 51.3 51.8 77.6#

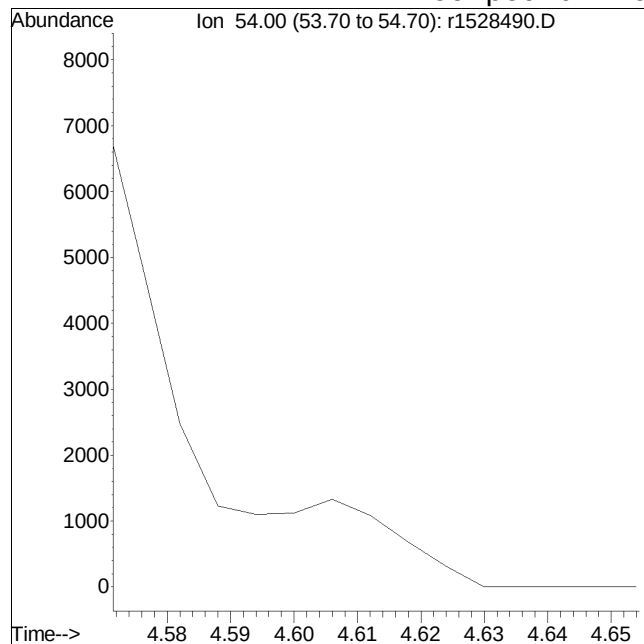
91 15.7 59.5 89.3#



Manual Integration/Negative Proof Report

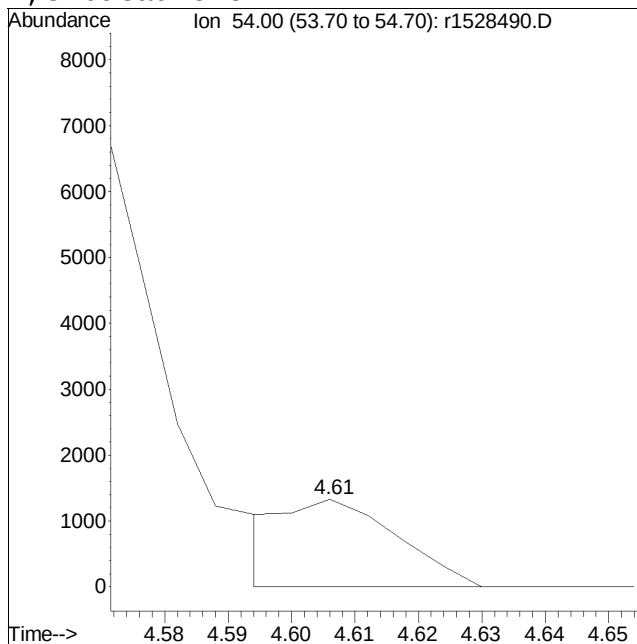
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
 Data File : r1528490.D Operator : AIRLAB15:RY
 Date Inj'd : 9/22/2020 0:2: 9 Instrument :
 Sample : L2150027-04D,3,138.61,250 Quant Date : 9/22/2021 7:25 am

Compound #10: 1,3-butadiene



Original Peak Response =

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

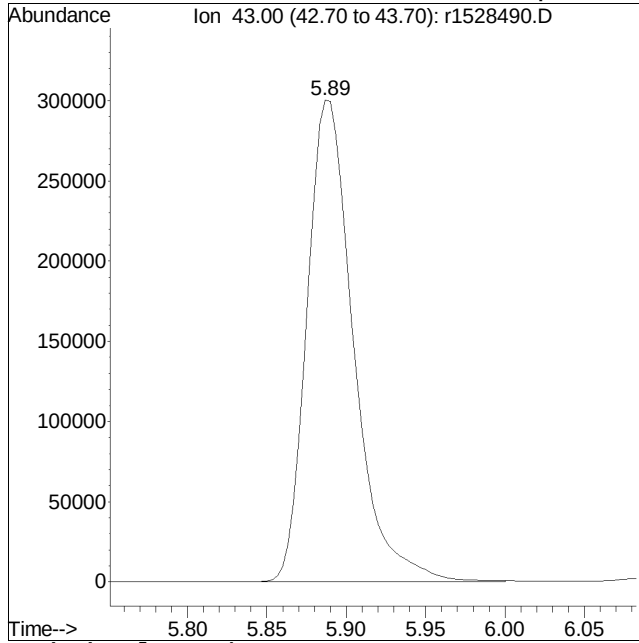


Manual Peak Response = 1633 M3

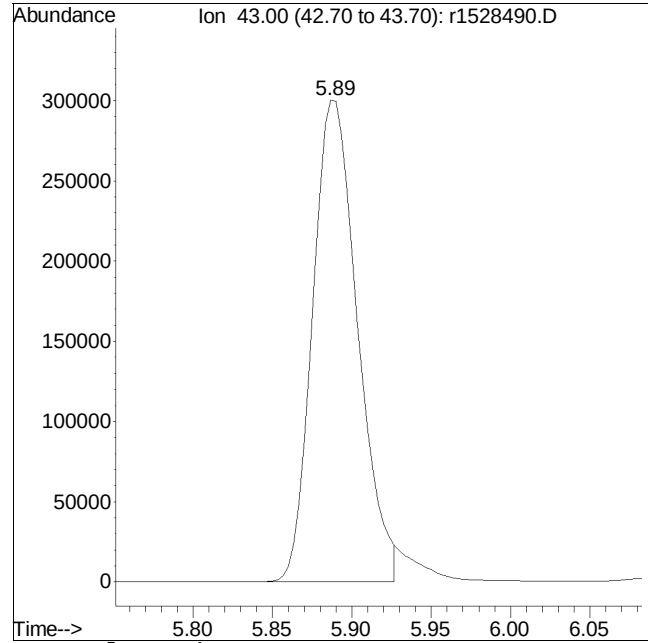
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528490.D Operator : AIRLAB15:RY
Date Inj'd : 9/22/2020 0:2: 9 Instrument :
Sample : L2150027-04D,3,138.61,250 Quant Date : 9/22/2021 7:25 am

Compound #19: acetone



Original Peak Response = 615658



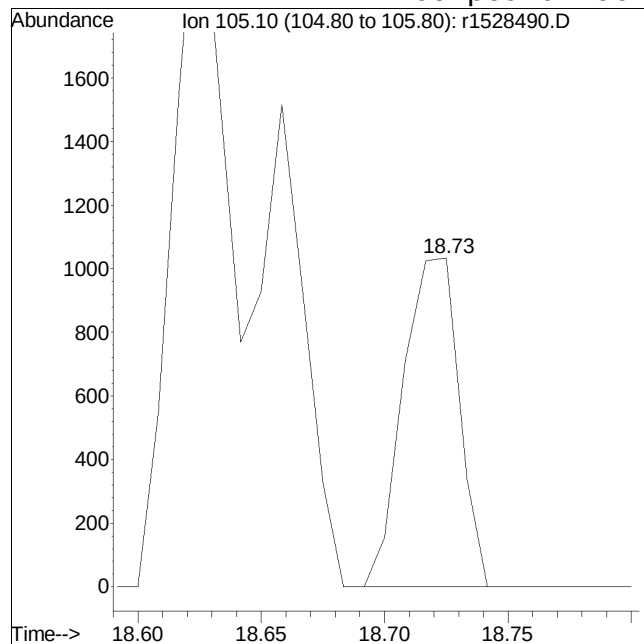
Manual Peak Response = 591585 M4

M4 = Poor automated baseline construction.

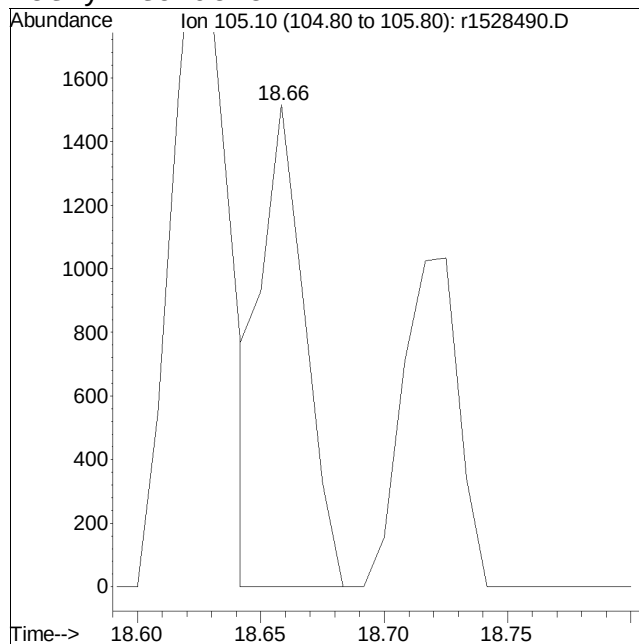
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
 Data File : r1528490.D Operator : AIRLAB15:RY
 Date Inj'd : 9/22/2020 0:2: 9 Instrument :
 Sample : L2150027-04D,3,138.61,250 Quant Date : 9/22/2021 7:25 am

Compound #96: 4-ethyl toluene



Original Peak Response = 1633



Manual Peak Response = 1855 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528496.D
 Acq On : 22 Sep 2021 7:54 AM
 Operator : AIRLAB15:RY
 Sample : L2150027-02D, 3, 75, 250
 Misc : WG1549026, ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 09:21:36 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : IPA_ONLY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.63	49	397812	10.000	ppbV	-0.04
Standard Area = 344610			Recovery = 115.44%			
43) 1,4-difluorobenzene	11.92	114	893941	10.000	ppbV	-0.03
Standard Area = 879831			Recovery = 101.60%			
67) chlorobenzene-D5	16.66	54	175864	10.000	ppbV	-0.02
Standard Area = 155534			Recovery = 113.07%			

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
22) isopropyl alcohol	6.22	45	5107174	165.410	ppbV	98

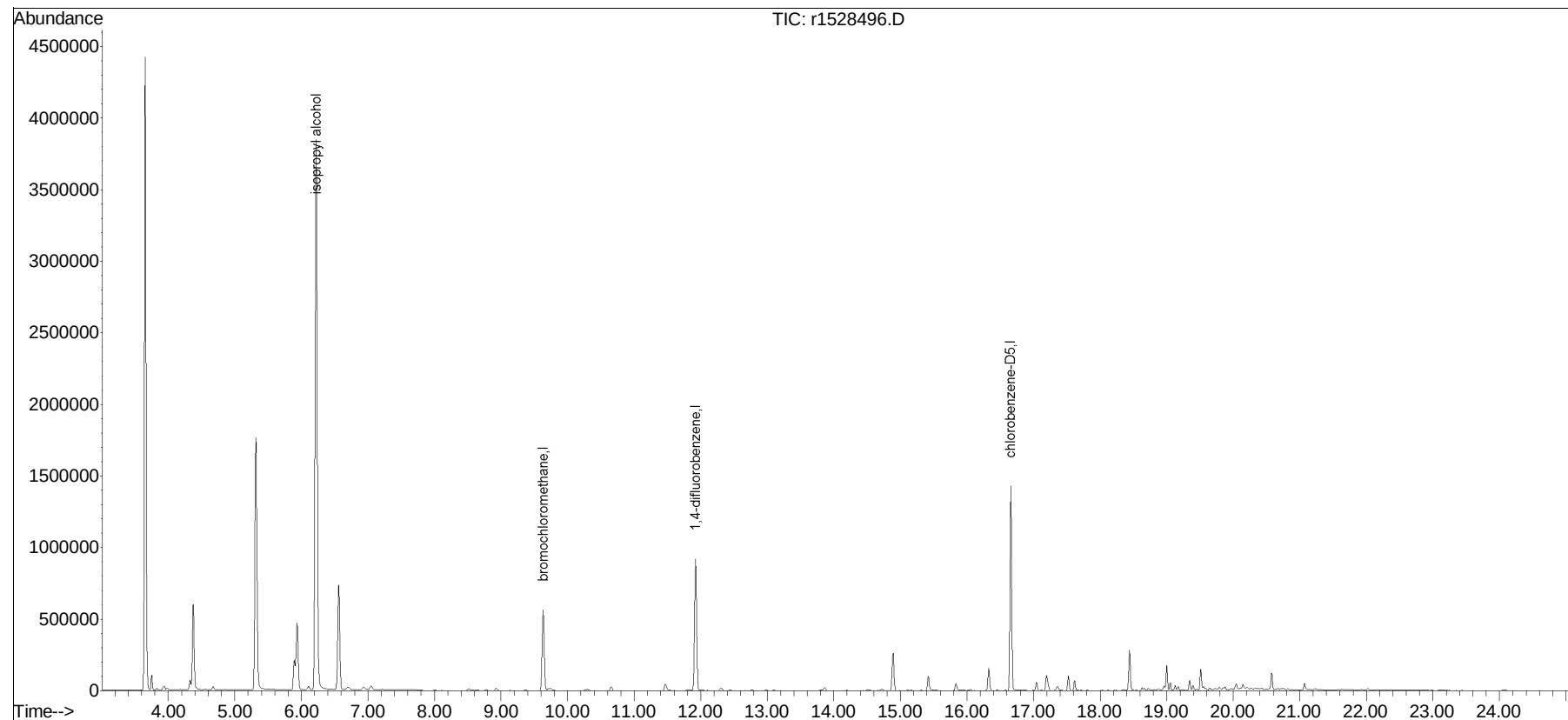
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

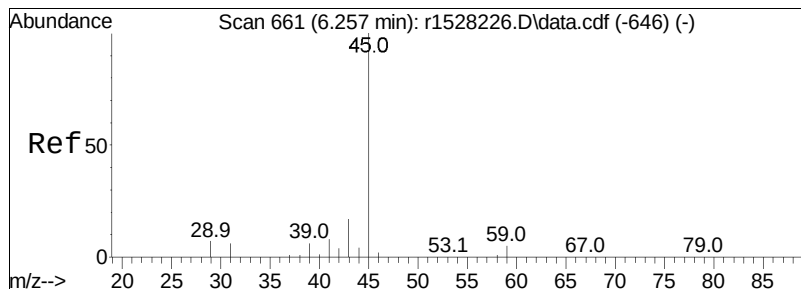
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
Data File : r1528496.D
Acq On : 22 Sep 2021 7:54 AM
Operator : AIRLAB15:RY
Sample : L2150027-02D,3,75,250
Misc : WG1549026,ICAL18279
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 09:21:36 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 14:18:59 2021
Response via : Initial Calibration

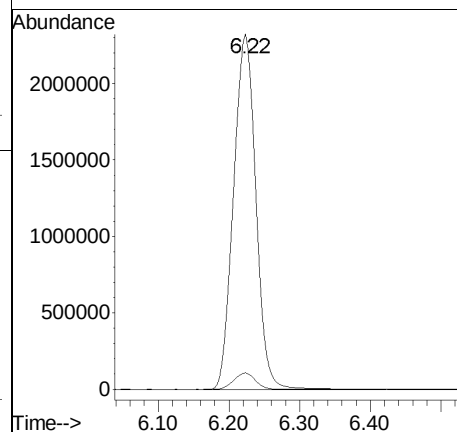
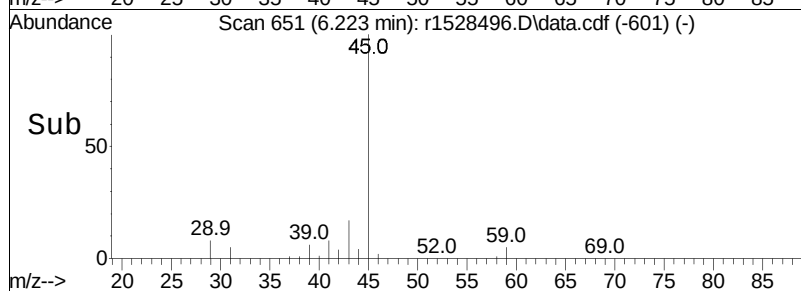
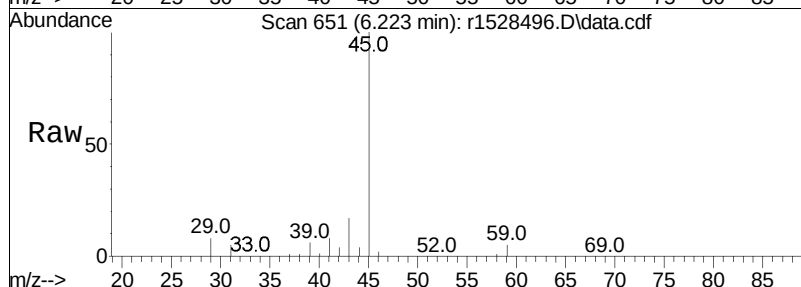
Sub List : IPA_ONLY - .\Data\Airlab15\2021\09\0921T\r1528475.D





#22
isopropyl alcohol
Concen: 165.41 ppbV
RT: 6.22 min Scan# 651
Delta R.T. -0.033 min
Lab File: r1528496.D
Acq: 22 Sep 2021 7:54 AM

Tgt Ion: 45 Resp: 5107174
Ion Ratio Lower Upper
45 100
59 4.7 4.2 6.2



Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\Airlab15\QMethod	: TFS15_210902.M
Data File	: r1528496.D	Operator : AIRLAB15:RY
Date Inj'd	: 9/22/2020 0:7: 4	Instrument :
Sample	: L2150027-02D,3,75,250	Quant Date : 9/22/2021 10:06 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528497.D
 Acq On : 22 Sep 2021 8:30 AM
 Operator : AIRLAB15:RY
 Sample : L2150027-03D, 3, 75, 250
 Misc : WG1549026, ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 09:21:48 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : IPA_ONLY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.63	49	397540	10.000	ppbV	-0.04
Standard Area = 344610			Recovery = 115.36%			
43) 1,4-difluorobenzene	11.92	114	888943	10.000	ppbV	-0.03
Standard Area = 879831			Recovery = 101.04%			
67) chlorobenzene-D5	16.66	54	176250	10.000	ppbV	-0.02
Standard Area = 155534			Recovery = 113.32%			

System Monitoring Compounds

Target Compounds					Qvalue	
22) isopropyl alcohol	6.22	45	4247281	137.654	ppbV	98

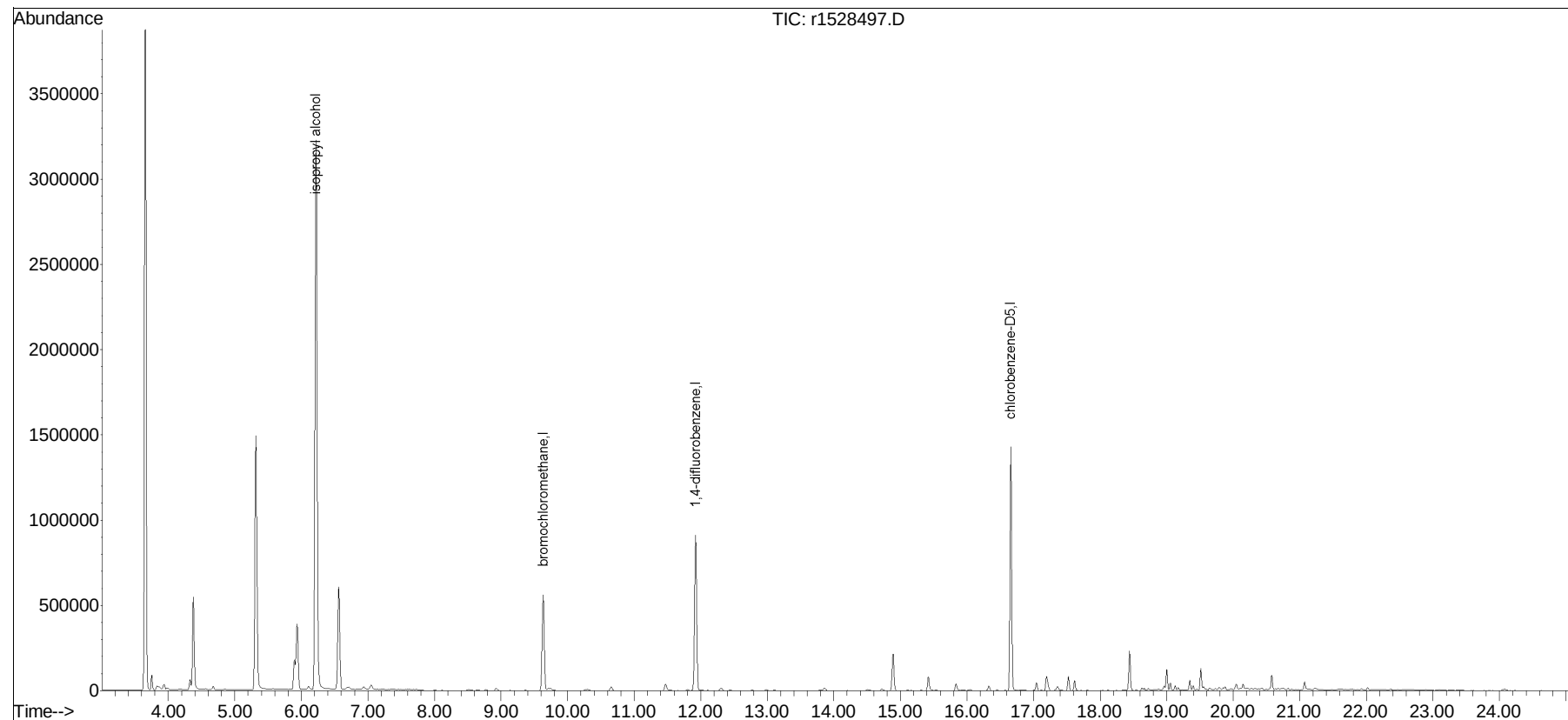
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

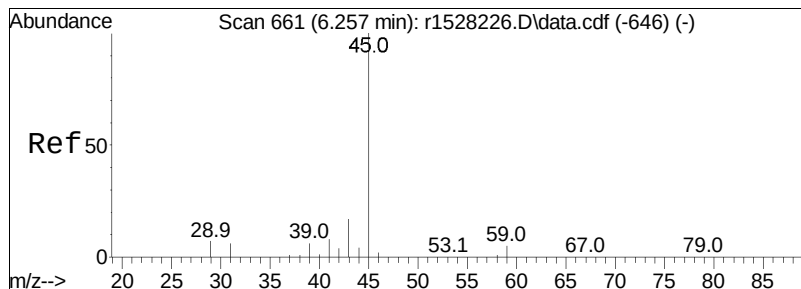
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
Data File : r1528497.D
Acq On : 22 Sep 2021 8:30 AM
Operator : AIRLAB15:RY
Sample : L2150027-03D, 3, 75, 250
Misc : WG1549026, ICAL18279
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 09:21:48 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 14:18:59 2021
Response via : Initial Calibration

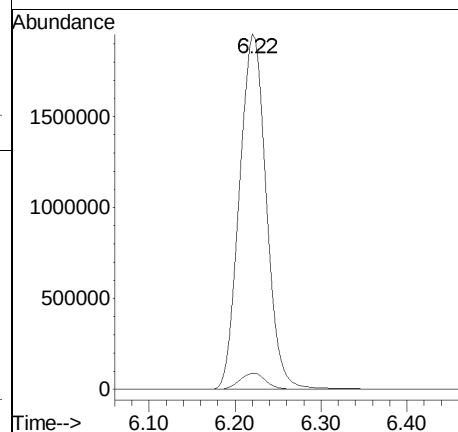
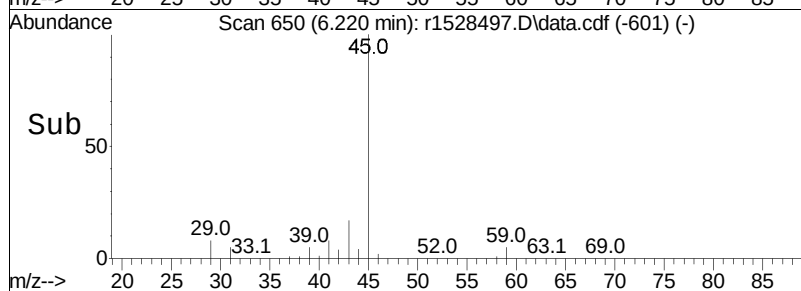
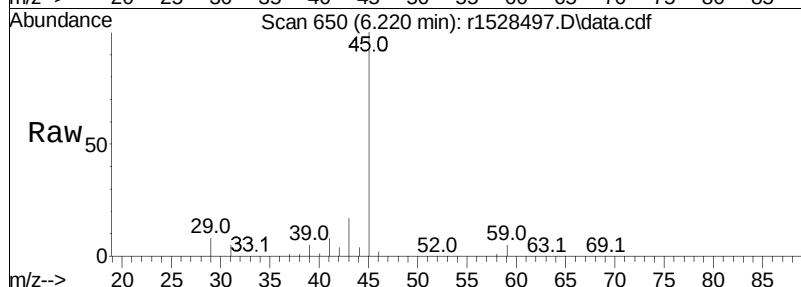
Sub List : IPA_ONLY - .\Data\Airlab15\2021\09\0921T\r1528475.D





#22
isopropyl alcohol
Concen: 137.65 ppbV
RT: 6.22 min Scan# 650
Delta R.T. -0.037 min
Lab File: r1528497.D
Acq: 22 Sep 2021 8:30 AM

Tgt Ion: 45 Resp: 4247281
Ion Ratio Lower Upper
45 100
59 4.6 4.2 6.2



Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\Airlab15\QMethod	: TFS15_210902.M
Data File	: r1528497.D	Operator : AIRLAB15:RY
Date Inj'd	: 9/22/2020 0:8: 0	Instrument :
Sample	: L2150027-03D,3,75,250	Quant Date : 9/22/2021 10:06 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528498.D
 Acq On : 22 Sep 2021 9:06 AM
 Operator : AIRLAB15:RY
 Sample : L2150027-05D, 3, 2.51, 250
 Misc : WG1549026, ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 09:48:42 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : ETOH_Only - Sub List Unknown

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.63	49	403239	10.000	ppbV	-0.04
Standard Area = 344610			Recovery = 117.01%			
43) 1,4-difluorobenzene	11.92	114	903748	10.000	ppbV	-0.03
Standard Area = 879831			Recovery = 102.72%			
67) chlorobenzene-D5	16.63	54	173436	10.000	ppbV	-0.05
Standard Area = 155534			Recovery = 111.51%			

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) ethanol	5.32	31	1271028	101.948	ppbV	89

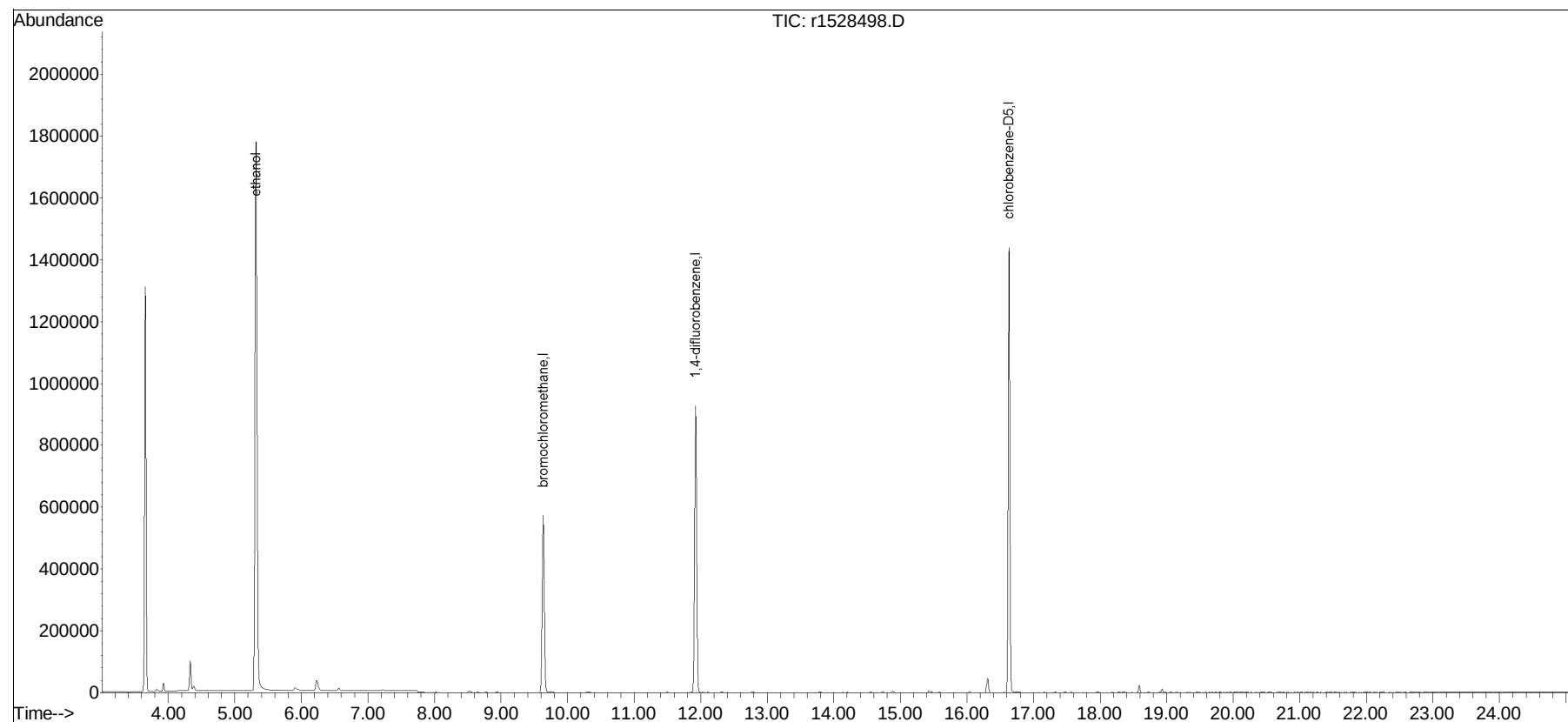
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

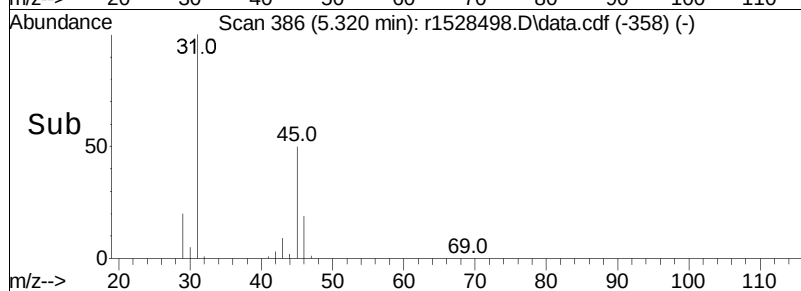
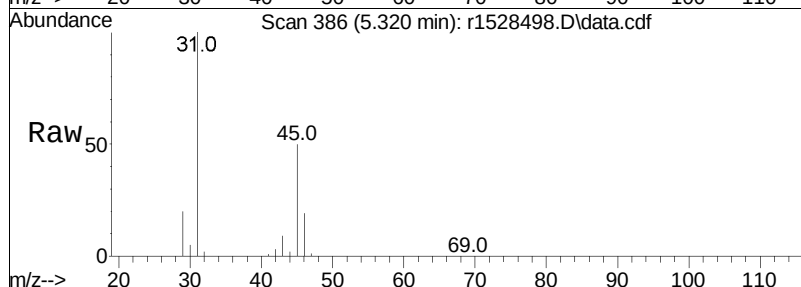
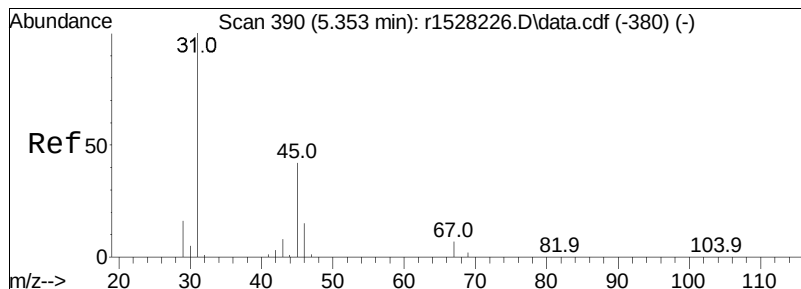
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
Data File : r1528498.D
Acq On : 22 Sep 2021 9:06 AM
Operator : AIRLAB15:RY
Sample : L2150027-05D, 3, 2.51, 250
Misc : WG1549026, ICAL18279
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 09:48:42 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 14:18:59 2021
Response via : Initial Calibration

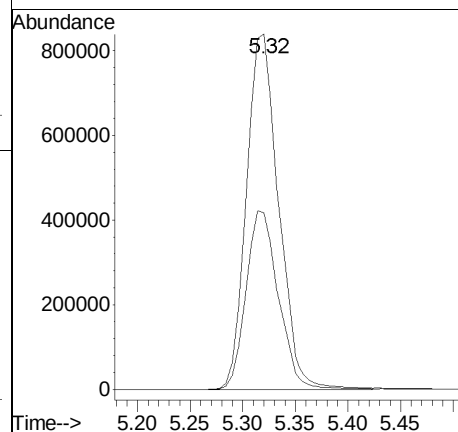
Sub List : ETOH_Only - Sub List Unknown021\09\0921T\r1528475.D





#15
ethanol
Concen: 101.95 ppbV
RT: 5.32 min Scan# 386
Delta R.T. -0.033 min
Lab File: r1528498.D
Acq: 22 Sep 2021 9:06 AM

Tgt Ion: 31 Resp: 1271028
Ion Ratio Lower Upper
31 100
45 49.7 34.0 51.0



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528498.D Operator : AIRLAB15:RY
Date Inj'd : 9/22/2020 0:9: 6 Instrument :
Sample : L2150027-05D,3,2.51,250 Quant Date : 9/22/2021 10:47 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2150027
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : AIRLAB15 **Ical Ref** : ICAL18279
Calibration dates : 09/02/21 21:27 09/03/21 02:04

Calibration Files

0.2 =r1528222.D 0.5 =r1528223.D 1.0 =r1528224.D 5.0 =r1528225.D 10 =r1528226.D 20 =r1528227.D
 50 =r1528228.D 100 =r1528229.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoromethane	0.816	0.841	0.856	0.717	0.700	0.657	0.636	0.583	0.7257	14.00
3) propylene		0.572	0.580	0.476	0.457	0.456	0.438	0.420	0.4857	13.20
4) propane		0.755	0.741	0.624	0.606	0.563	0.543	0.492	0.6176	16.01
5) dichlorodifluoromethane	0.825	0.869	0.888	0.747	0.748	0.677	0.642	0.555	0.7439	15.55
6) C chloromethane	0.435	0.468	0.441	0.394	0.368	0.365	0.362	0.330	0.3954	12.11
7) Freon-114	1.095	1.140	1.161	0.974	0.926	0.873	0.773	0.614	0.9447	20.11
8) C methanol			0.300	0.230	0.216	0.208	0.199	0.176	0.2214	19.07
9) C vinyl chloride	0.620	0.644	0.637	0.547	0.540	0.531	0.530	0.507	0.5697	9.58
10) C 1,3-butadiene	0.480	0.475	0.482	0.418	0.404	0.392	0.372	0.333	0.4194	13.17
11) butane	0.933	0.867	0.803	0.689	0.671	0.656	0.646	0.621	0.7357	15.76
12) C acetaldehyde		0.359	0.336	0.285	0.263	0.245	0.208	0.158	0.2649	26.46
13) C bromomethane	0.465	0.493	0.499	0.422	0.416	0.402	0.390	0.357	0.4306	11.73
14) C chloroethane	0.295	0.298	0.307	0.261	0.259	0.250	0.256	0.250	0.2719	8.73
15) ethanol			0.453	0.296	0.348	0.249	0.253	0.256	0.3092	25.85
16) dichlorofluoromethane	0.758	0.710	0.695	0.599	0.508	0.527	0.567	0.511	0.6096	16.18
17) C vinyl bromide	0.429	0.425	0.429	0.376	0.377	0.360	0.363	0.349	0.3886	8.66
18) C acrolein		0.255	0.247	0.208	0.205	0.195	0.190	0.176	0.2107	14.03
19) acetone	0.790	0.782	0.787	0.643	0.629	0.592	0.555	0.498	0.6594	17.32
20) C acetonitrile	0.560	0.512	0.478	0.423	0.416	0.400	0.402	0.385	0.4471	14.02
21) trichlorofluoromethane	0.727	0.754	0.776	0.651	0.633	0.601	0.589	0.552	0.6602	12.50
22) isopropyl alcohol	0.923	0.898	0.900	0.754	0.733	0.705	0.673	0.624	0.7761	14.84
23) C acrylonitrile	0.382	0.386	0.401	0.350	0.339	0.327	0.317	0.296	0.3497	10.64
24) pentane	0.837	0.720	0.712	0.559	0.551	0.536	0.538	0.518	0.6214	19.05
25) ethyl ether	0.880	0.896	0.944	0.789	0.741	0.672	0.626	0.527	0.7593	19.13
26) C 1,1-dichloroethene	0.754	0.790	0.806	0.688	0.677	0.649	0.629	0.590	0.6980	11.18
27) tertiary butyl alcohol		1.015	1.042	0.891	0.884	0.836	0.815	0.758	0.8915	11.66
28) C methylene chloride		0.552	0.544	0.457	0.628	0.429	0.408	0.377	0.4850	18.81
29) C 3-chloropropene	0.876	0.933	0.751	0.639	0.806	0.610	0.609	0.599	0.7281	18.23
30) C carbon disulfide	1.225	1.667	1.327	1.146	1.501	1.103	1.072	1.013	1.2567	18.13
31) Freon 113	0.831	0.943	0.891	0.724	0.813	0.699	0.685	0.632	0.7773	14.02
32) trans-1,2-dichloroethene	0.928	0.966	0.994	0.860	0.873	0.833	0.832	0.797	0.8853	7.89
33) C 1,1-dichloroethane	1.064	1.127	1.140	0.964	0.982	0.954	0.955	0.938	1.0155	8.13
34) C MTBE	1.299	1.354	1.384	1.208	1.209	1.162	1.132	1.080	1.2288	8.79
35) C vinyl acetate	1.274	1.271	1.383	1.187	1.210	1.174	1.176	1.140	1.2268	6.41
36) C 2-butanone		1.375	1.417	1.215	1.219	1.133	1.130	1.082	1.2243	10.40



Initial Calibration Summary

Form 6

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2150027
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : AIRLAB15 **Ical Ref** : ICAL18279
Calibration dates : 09/02/21 21:27 09/03/21 02:04

Calibration Files

0.2 =r1528222.D 0.5 =r1528223.D 1.0 =r1528224.D 5.0 =r1528225.D 10 =r1528226.D 20 =r1528227.D
 50 =r1528228.D 100 =r1528229.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)	cis-1,2-dichloroethene	0.828	0.868	0.865	0.755	0.763	0.736	0.734	0.710	0.7825	7.95
38)	Ethyl Acetate		0.255	0.249	0.225	0.228	0.216	0.220	0.212	0.2293	7.17
39) C	chloroform	0.955	0.973	1.022	0.869	0.854	0.791	0.750	0.656	0.8588	14.37
40)	Tetrahydrofuran		0.864	0.879	0.772	0.780	0.739	0.736	0.711	0.7831	8.28
41)	2,2-dichloropropane	0.635	0.690	0.702	0.607	0.599	0.562	0.540	0.499	0.6041	11.69
42) C	1,2-dichloroethane	0.617	0.649	0.669	0.568	0.559	0.528	0.521	0.530	0.5800	9.96
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.532	0.576	0.559	0.486	0.488	0.463	0.435	0.382	0.4902	13.24
45)	diisopropyl ether	0.228	0.245	0.246	0.217	0.216	0.205	0.192	0.169	0.2148	12.13
46)	tert-butyl ethyl ether	0.823	0.883	0.881	0.771	0.778	0.742	0.721	0.693	0.7864	8.98
47) s	1,2-dichloroethane-D4	0.275	0.271	0.265	0.270	0.276	0.269	0.266	0.271	0.2705	1.40
48) C	1,1,1-trichloroethane	0.329	0.329	0.329	0.286	0.283	0.271	0.266	0.262	0.2945	10.11
49)	1,1-dichloropropene	0.327	0.346	0.338	0.296	0.294	0.281	0.270	0.260	0.3016	10.65
50) C	benzene	1.029	0.934	0.898	0.738	0.736	0.698	0.660	0.617	0.7887	18.59
51)	thiophene	0.493	0.508	0.525	0.445	0.447	0.424	0.410	0.374	0.4531	11.45
52) C	carbon tetrachloride	0.255	0.272	0.275	0.240	0.240	0.229	0.223	0.211	0.2433	9.33
53)	cyclohexane	0.571	0.604	0.595	0.518	0.522	0.502	0.485	0.458	0.5320	9.88
54)	tert-amyl methyl ether	0.620	0.647	0.654	0.571	0.579	0.564	0.546	0.528	0.5886	7.94
55)	dibromomethane	0.280	0.267	0.268	0.225	0.227	0.221	0.217	0.201	0.2381	12.19
56) C	1,2-dichloropropane	0.319	0.336	0.337	0.295	0.297	0.288	0.284	0.278	0.3043	7.64
57)	bromodichloromethane	0.412	0.442	0.447	0.402	0.404	0.384	0.360	0.328	0.3975	10.02
58) C	1,4-dioxane	0.213	0.218	0.211	0.195	0.197	0.188	0.181	0.164	0.1959	9.23
59) C	trichloroethene	0.321	0.332	0.332	0.290	0.294	0.286	0.275	0.256	0.2983	9.28
60) C	2,2,4-trimethylpentane	1.780	1.866	1.885	1.628	1.595	1.508	1.421	1.292	1.6220	13.12
61)	methyl methacrylate		0.455	0.462	0.408	0.413	0.397	0.386	0.372	0.4133	8.23
62)	heptane	0.597	0.624	0.628	0.548	0.549	0.511	0.485	0.450	0.5491	11.83
63) C	cis-1,3-dichloropropene	0.357	0.370	0.383	0.343	0.349	0.338	0.326	0.309	0.3469	6.88
64) C	4-methyl-2-pentanone		0.699	0.696	0.630	0.632	0.598	0.568	0.537	0.6226	9.79
65)	trans-1,3-dichloropropene	0.311	0.322	0.348	0.313	0.317	0.306	0.300	0.291	0.3137	5.42
66) C	1,1,2-trichloroethane	0.306	0.301	0.308	0.269	0.271	0.266	0.262	0.260	0.2804	7.46
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	5.932	5.408	5.095	4.200	4.327	4.228	4.126	3.782	4.6373	16.15
69) s	toluene-D8	4.863	4.789	4.695	4.855	5.016	5.196	5.355	5.535	5.0381	5.89
70)	2-methylthiophene	3.286	3.379	3.375	2.899	2.993	2.974	2.985	2.966	3.1071	6.52
71)	1,3-dichloropropane	2.000	2.082	2.032	1.768	1.785	1.707	1.672	1.571	1.8270	10.26
72)	2-hexanone	2.879	3.097	3.024	2.907	2.901	2.752	2.641	2.436	2.8298	7.55



Initial Calibration Summary

Form 6

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC
Project Name : FORMER CLEAN ZONE DRY CLEANERS
Instrument ID : AIRLAB15
Calibration dates : 09/02/21 21:27 09/03/21 02:04
Lab Number : L2150027
Project Number : 2546.0007Y002
Ical Ref : ICAL18279

Calibration Files

0.2 =r1528222.D 0.5 =r1528223.D 1.0 =r1528224.D 5.0 =r1528225.D 10 =r1528226.D 20 =r1528227.D
 50 =r1528228.D 100 =r1528229.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)	3-methylthiophene	3.286	3.443	3.490	2.998	3.074	3.075	3.057	2.909	3.1664	6.74
74)	dibromochloromethane	1.679	1.814	1.835	1.735	1.786	1.775	1.729	1.628	1.7476	3.98
75) C	1,2-dibromoethane	1.967	2.010	1.996	1.761	1.801	1.758	1.755	1.698	1.8432	6.84
76)	butyl acetate		0.479	0.502	0.457	0.474	0.460	0.466	0.462	0.4714	3.27
77)	octane	1.817	1.991	1.888	1.689	1.707	1.623	1.598	1.426	1.7175	10.39
78) C	tetrachloroethene	1.671	1.733	1.763	1.548	1.549	1.527	1.461	1.343	1.5743	8.98
79)	1,1,1,2-tetrachloroethane	1.387	1.433	1.417	1.288	1.338	1.294	1.272	1.101	1.3165	8.06
80) C	chlorobenzene	3.393	3.614	3.599	3.104	3.118	3.000	2.867	2.560	3.1568	11.55
81) C	ethylbenzene	6.045	6.264	6.147	5.419	5.526	5.428	5.297	4.798	5.6156	8.87
82)	2-ethylthiophene	3.722	3.954	3.972	3.476	3.549	3.510	3.490	3.334	3.6259	6.44
83) C	m+p-xylene	4.836	5.160	5.046	4.349	4.473	4.325	4.082	3.471	4.4677	12.34
84) C	bromoform	1.246	1.416	1.459	1.447	1.583	1.556	1.561	1.423	1.4614	7.49
85) C	styrene	3.409	3.610	3.662	3.270	3.331	3.285	3.226	3.073	3.3583	5.86
86) C	1,1,2,2-tetrachloroethane	3.568	3.911	3.895	3.392	3.449	3.241	2.828	2.165	3.3062	17.50
87) C	o-xylene	4.749	5.130	5.068	4.478	4.498	4.328	3.915	3.137	4.4129	14.71
88)	1,2,3-trichloropropane	2.445	2.644	2.651	2.304	2.343	2.222	2.152	1.990	2.3438	9.85
89)	nonane	4.215	4.368	4.445	3.831	3.797	3.614	3.353	2.885	3.8134	13.95
90) s	bromofluorobenzene	3.206	3.274	3.350	3.397	3.583	3.744	3.957	4.185	3.5872	9.74
91) C	isopropylbenzene	5.639	5.959	5.872	5.145	5.107	4.970	4.672	4.386	5.2186	10.80
92)	bromobenzene	3.259	3.467	3.483	3.075	3.112	2.938	2.806	2.482	3.0778	10.98
93)	2-chlorotoluene	1.652	1.838	1.820	1.603	1.644	1.619	1.573	1.422	1.6464	8.13
94)	n-propylbenzene	1.945	2.078	2.103	1.877	1.866	1.836	1.738	1.519	1.8702	10.00
95)	4-chlorotoluene	1.686	1.760	1.751	1.586	1.633	1.581	1.583	1.435	1.6268	6.54
96)	4-ethyl toluene	6.057	6.795	6.676	5.915	6.017	5.669	5.463	4.912	5.9380	10.36
97)	1,3,5-trimethylbenzene	4.730	5.136	4.963	4.580	4.523	4.953	4.664	3.778	4.6656	8.92
98)	tert-butylbenzene	5.610	6.127	6.013	5.260	5.205	4.828	4.153	3.195	5.0490	19.47
99)	1,2,4-trimethylbenzene	4.867	5.418	5.325	4.634	4.704	4.436	4.017	3.186	4.5735	15.76
100)	decane	5.356	5.762	5.746	5.117	5.203	4.961	4.650	3.726	5.0651	12.99
101) C	Benzyl Chloride	2.703	3.105	3.340	3.486	3.811	3.924	3.945	3.246	3.4450	12.67
102)	1,3-dichlorobenzene	3.066	3.359	3.287	3.012	3.121	3.043	2.934	2.631	3.0567	7.29
103) C	1,4-dichlorobenzene	3.027	3.211	3.301	2.924	3.061	2.996	2.962	2.604	3.0109	6.91
104)	sec-butylbenzene	7.126	7.666	7.631	6.765	6.765	6.427	6.196	5.415	6.7487	11.13
105)	1,2,3-trimethylbenzene	5.602	6.095	6.043	5.329	5.282	4.967	4.502	3.500	5.1650	16.56
106)	p-isopropyltoluene	6.924	7.570	7.377	6.595	6.560	6.016	4.970	3.800	6.2265	20.47
107)	1,2-dichlorobenzene	2.845	3.154	3.242	2.855	2.956	2.845	2.853	2.692	2.9302	6.19
108)	n-butylbenzene	6.015	6.506	6.530	5.987	6.104	5.763	5.514	4.634	5.8816	10.35



Initial Calibration Summary

Form 6

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2150027
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : AIRLAB15 **Ical Ref** : ICAL18279
Calibration dates : 09/02/21 21:27 09/03/21 02:04

Calibration Files

0.2 =r1528222.D 0.5 =r1528223.D 1.0 =r1528224.D 5.0 =r1528225.D 10 =r1528226.D 20 =r1528227.D
 50 =r1528228.D 100 =r1528229.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)	indan	6.564	7.286	7.332	6.406	6.417	5.968	5.462	4.575	6.2514	14.69
110)	indene	4.770	5.326	5.484	5.028	5.111	4.812	4.555	4.031	4.8897	9.41
111) C	1,2-dibromo-3-chloropropane	1.083	1.262	1.313	1.231	1.265	1.179	1.168	1.085	1.1982	7.06
112)	undecane	5.510	6.145	6.378	5.847	5.949	5.525	5.177	4.003	5.5668	13.27
113)	1,2,4,5-tetramethylbenzene	3.465	3.878	3.840	3.371	3.425	3.335	3.295	3.039	3.4560	8.10
114)	dodecane	4.530	5.654	6.124	6.401	6.460	5.519	5.203	4.044	5.4919	15.84
115) C	1,2,4-trichlorobenzene	1.732	2.035	2.242	2.281	2.413	2.256	2.399	2.197	2.1945	10.08
116)	naphthalene	6.281	7.248	7.632	7.188	7.531	6.650	6.753	6.048	6.9162	8.34
117)	1,2,3-trichlorobenzene	1.796	2.124	2.211	2.324	2.404	2.104	2.255	2.059	2.1596	8.67
118)	benzothiophene		0.904	1.015	1.019	1.083	1.018	1.001	0.818	0.9798	9.06
119) C	hexachlorobutadiene	1.715	2.003	2.046	1.924	1.985	1.731	1.741	1.527	1.8339	9.93
120)	2-methylnaphthalene			1.636	1.448	1.587	1.490	1.842	1.881	1.6474	10.88
121)	1-methylnaphthalene			3.094	2.914	3.039	2.767	3.231	3.171	3.0360	5.65

Response Factor Report

Method Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Method File : TFS15_210902.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Fri Sep 03 14:18:58 2021
 Response Via : Initial Calibration

Calibration Files

0.2 =r1528222.D 0.5 =r1528223.D 1.0 =r1528224.D 5.0 =r1528225.D 10 =r1528226.D 20 =r1528227.D
 50 =r1528228.D 100 =r1528229.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
-----ISTD-----											
1) I	bromochloromethane										
2)	chlorodifluoromethane	0.816	0.841	0.856	0.717	0.700	0.657	0.636	0.583	0.7257	14.00
3)	propylene		0.572	0.580	0.476	0.457	0.456	0.438	0.420	0.4857	13.20
4)	propane		0.755	0.741	0.624	0.606	0.563	0.543	0.492	0.6176	16.01
5)	dichlorodifluoromethane	0.825	0.869	0.888	0.747	0.748	0.677	0.642	0.555	0.7439	15.55
6) C	chloromethane	0.435	0.468	0.441	0.394	0.368	0.365	0.362	0.330	0.3954	12.11
7)	Freon-114	1.095	1.140	1.161	0.974	0.926	0.873	0.773	0.614	0.9447	20.11
8) C	methanol			0.300	0.230	0.216	0.208	0.199	0.176	0.2214	19.07
9) C	vinyl chloride	0.620	0.644	0.637	0.547	0.540	0.531	0.530	0.507	0.5697	9.58
10) C	1,3-butadiene	0.480	0.475	0.482	0.418	0.404	0.392	0.372	0.333	0.4194	13.17
11)	butane	0.933	0.867	0.803	0.689	0.671	0.656	0.646	0.621	0.7357	15.76
12) C	acetaldehyde		0.359	0.336	0.285	0.263	0.245	0.208	0.158	0.2649	26.46
13) C	bromomethane	0.465	0.493	0.499	0.422	0.416	0.402	0.390	0.357	0.4306	11.73
14) C	chloroethane	0.295	0.298	0.307	0.261	0.259	0.250	0.256	0.250	0.2719	8.73
15)	ethanol			0.453	0.296	0.348	0.249	0.253	0.256	0.3092	25.85
16)	dichlorofluoromethane	0.758	0.710	0.695	0.599	0.508	0.527	0.567	0.511	0.6096	16.18
17) C	vinyl bromide	0.429	0.425	0.429	0.376	0.377	0.360	0.363	0.349	0.3886	8.66
18) C	acrolein		0.255	0.247	0.208	0.205	0.195	0.190	0.176	0.2107	14.03
19)	acetone	0.790	0.782	0.787	0.643	0.629	0.592	0.555	0.498	0.6594	17.32
20) C	acetonitrile	0.560	0.512	0.478	0.423	0.416	0.400	0.402	0.385	0.4471	14.02
21)	trichlorofluoromethane	0.727	0.754	0.776	0.651	0.633	0.601	0.589	0.552	0.6602	12.50
22)	isopropyl alcohol	0.923	0.898	0.900	0.754	0.733	0.705	0.673	0.624	0.7761	14.84
23) C	acrylonitrile	0.382	0.386	0.401	0.350	0.339	0.327	0.317	0.296	0.3497	10.64
24)	pentane	0.837	0.720	0.712	0.559	0.551	0.536	0.538	0.518	0.6214	19.05
25)	ethyl ether	0.880	0.896	0.944	0.789	0.741	0.672	0.626	0.527	0.7593	19.13
26) C	1,1-dichloroethene	0.754	0.790	0.806	0.688	0.677	0.649	0.629	0.590	0.6980	11.18
27)	tertiary butyl alcohol		1.015	1.042	0.891	0.884	0.836	0.815	0.758	0.8915	11.66
28) C	methylene chloride		0.552	0.544	0.457	0.628	0.429	0.408	0.377	0.4850	18.81
29) C	3-chloropropene	0.876	0.933	0.751	0.639	0.806	0.610	0.609	0.599	0.7281	18.23
30) C	carbon disulfide	1.225	1.667	1.327	1.146	1.501	1.103	1.072	1.013	1.2567	18.13
31)	Freon 113	0.831	0.943	0.891	0.724	0.813	0.699	0.685	0.632	0.7773	14.02

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2021\09\0902T_I\
Method File : TFS15_210902.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Sep 03 14:18:58 2021
Response Via : Initial Calibration

Calibration Files

0.2 =r1528222.D 0.5 =r1528223.D 1.0 =r1528224.D 5.0 =r1528225.D 10 =r1528226.D 20 =r1528227.D
50 =r1528228.D 100 =r1528229.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)	trans-1,2-dichloroethene	0.928	0.966	0.994	0.860	0.873	0.833	0.832	0.797	0.8853	7.89
33) C	1,1-dichloroethane	1.064	1.127	1.140	0.964	0.982	0.954	0.955	0.938	1.0155	8.13
34) C	MTBE	1.299	1.354	1.384	1.208	1.209	1.162	1.132	1.080	1.2288	8.79
35) C	vinyl acetate	1.274	1.271	1.383	1.187	1.210	1.174	1.176	1.140	1.2268	6.41
36) C	2-butanone		1.375	1.417	1.215	1.219	1.133	1.130	1.082	1.2243	10.40
37)	cis-1,2-dichloroethene	0.828	0.868	0.865	0.755	0.763	0.736	0.734	0.710	0.7825	7.95
38)	Ethyl Acetate		0.255	0.249	0.225	0.228	0.216	0.220	0.212	0.2293	7.17
39) C	chloroform	0.955	0.973	1.022	0.869	0.854	0.791	0.750	0.656	0.8588	14.37
40)	Tetrahydrofuran		0.864	0.879	0.772	0.780	0.739	0.736	0.711	0.7831	8.28
41)	2,2-dichloropropane	0.635	0.690	0.702	0.607	0.599	0.562	0.540	0.499	0.6041	11.69
42) C	1,2-dichloroethane	0.617	0.649	0.669	0.568	0.559	0.528	0.521	0.530	0.5800	9.96
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.532	0.576	0.559	0.486	0.488	0.463	0.435	0.382	0.4902	13.24
45)	diisopropyl ether	0.228	0.245	0.246	0.217	0.216	0.205	0.192	0.169	0.2148	12.13
46)	tert-butyl ethyl ether	0.823	0.883	0.881	0.771	0.778	0.742	0.721	0.693	0.7864	8.98
47) s	1,2-dichloroethane-D4	0.275	0.271	0.265	0.270	0.276	0.269	0.266	0.271	0.2705	1.40
48) C	1,1,1-trichloroethane	0.329	0.329	0.329	0.286	0.283	0.271	0.266	0.262	0.2945	10.11
49)	1,1-dichloropropene	0.327	0.346	0.338	0.296	0.294	0.281	0.270	0.260	0.3016	10.65
50) C	benzene	1.029	0.934	0.898	0.738	0.736	0.698	0.660	0.617	0.7887	18.59
51)	thiophene	0.493	0.508	0.525	0.445	0.447	0.424	0.410	0.374	0.4531	11.45
52) C	carbon tetrachloride	0.255	0.272	0.275	0.240	0.240	0.229	0.223	0.211	0.2433	9.33
53)	cyclohexane	0.571	0.604	0.595	0.518	0.522	0.502	0.485	0.458	0.5320	9.88
54)	tert-amyl methyl ether	0.620	0.647	0.654	0.571	0.579	0.564	0.546	0.528	0.5886	7.94
55)	dibromomethane	0.280	0.267	0.268	0.225	0.227	0.221	0.217	0.201	0.2381	12.19
56) C	1,2-dichloropropane	0.319	0.336	0.337	0.295	0.297	0.288	0.284	0.278	0.3043	7.64
57)	bromodichloromethane	0.412	0.442	0.447	0.402	0.404	0.384	0.360	0.328	0.3975	10.02
58) C	1,4-dioxane	0.213	0.218	0.211	0.195	0.197	0.188	0.181	0.164	0.1959	9.23
59) C	trichloroethene	0.321	0.332	0.332	0.290	0.294	0.286	0.275	0.256	0.2983	9.28
60) C	2,2,4-trimethylpentane	1.780	1.866	1.885	1.628	1.595	1.508	1.421	1.292	1.6220	13.12
61)	methyl methacrylate		0.455	0.462	0.408	0.413	0.397	0.386	0.372	0.4133	8.23
62)	heptane	0.597	0.624	0.628	0.548	0.549	0.511	0.485	0.450	0.5491	11.83

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Method File : TFS15_210902.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Fri Sep 03 14:18:58 2021
 Response Via : Initial Calibration

Calibration Files

0.2 =r1528222.D 0.5 =r1528223.D 1.0 =r1528224.D 5.0 =r1528225.D 10 =r1528226.D 20 =r1528227.D
 50 =r1528228.D 100 =r1528229.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63) C	cis-1,3-dichloropropene	0.357	0.370	0.383	0.343	0.349	0.338	0.326	0.309	0.3469	6.88
64) C	4-methyl-2-pentanone		0.699	0.696	0.630	0.632	0.598	0.568	0.537	0.6226	9.79
65)	trans-1,3-dichloropropene	0.311	0.322	0.348	0.313	0.317	0.306	0.300	0.291	0.3137	5.42
66) C	1,1,2-trichloroethane	0.306	0.301	0.308	0.269	0.271	0.266	0.262	0.260	0.2804	7.46
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	5.932	5.408	5.095	4.200	4.327	4.228	4.126	3.782	4.6373	16.15
69) s	toluene-D8	4.863	4.789	4.695	4.855	5.016	5.196	5.355	5.535	5.0381	5.89
70)	2-methylthiophene	3.286	3.379	3.375	2.899	2.993	2.974	2.985	2.966	3.1071	6.52
71)	1,3-dichloropropane	2.000	2.082	2.032	1.768	1.785	1.707	1.672	1.571	1.8270	10.26
72)	2-hexanone	2.879	3.097	3.024	2.907	2.901	2.752	2.641	2.436	2.8298	7.55
73)	3-methylthiophene	3.286	3.443	3.490	2.998	3.074	3.075	3.057	2.909	3.1664	6.74
74)	dibromochloromethane	1.679	1.814	1.835	1.735	1.786	1.775	1.729	1.628	1.7476	3.98
75) C	1,2-dibromoethane	1.967	2.010	1.996	1.761	1.801	1.758	1.755	1.698	1.8432	6.84
76)	butyl acetate		0.479	0.502	0.457	0.474	0.460	0.466	0.462	0.4714	3.27
77)	octane	1.817	1.991	1.888	1.689	1.707	1.623	1.598	1.426	1.7175	10.39
78) C	tetrachloroethene	1.671	1.733	1.763	1.548	1.549	1.527	1.461	1.343	1.5743	8.98
79)	1,1,1,2-tetrachloroethane	1.387	1.433	1.417	1.288	1.338	1.294	1.272	1.101	1.3165	8.06
80) C	chlorobenzene	3.393	3.614	3.599	3.104	3.118	3.000	2.867	2.560	3.1568	11.55
81) C	ethylbenzene	6.045	6.264	6.147	5.419	5.526	5.428	5.297	4.798	5.6156	8.87
82)	2-ethylthiophene	3.722	3.954	3.972	3.476	3.549	3.510	3.490	3.334	3.6259	6.44
83) C	m+p-xylene	4.836	5.160	5.046	4.349	4.473	4.325	4.082	3.471	4.4677	12.34
84) C	bromoform	1.246	1.416	1.459	1.447	1.583	1.556	1.561	1.423	1.4614	7.49
85) C	styrene	3.409	3.610	3.662	3.270	3.331	3.285	3.226	3.073	3.3583	5.86
86) C	1,1,2,2-tetrachloroethane	3.568	3.911	3.895	3.392	3.449	3.241	2.828	2.165	3.3062	17.50
87) C	o-xylene	4.749	5.130	5.068	4.478	4.498	4.328	3.915	3.137	4.4129	14.71
88)	1,2,3-trichloropropane	2.445	2.644	2.651	2.304	2.343	2.222	2.152	1.990	2.3438	9.85
89)	nonane	4.215	4.368	4.445	3.831	3.797	3.614	3.353	2.885	3.8134	13.95
90) s	bromofluorobenzene	3.206	3.274	3.350	3.397	3.583	3.744	3.957	4.185	3.5872	9.74
91) C	isopropylbenzene	5.639	5.959	5.872	5.145	5.107	4.970	4.672	4.386	5.2186	10.80
92)	bromobenzene	3.259	3.467	3.483	3.075	3.112	2.938	2.806	2.482	3.0778	10.98
93)	2-chlorotoluene	1.652	1.838	1.820	1.603	1.644	1.619	1.573	1.422	1.6464	8.13

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2021\09\0902T_I\
Method File : TFS15_210902.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Sep 03 14:18:58 2021
Response Via : Initial Calibration

Calibration Files

0.2 =r1528222.D 0.5 =r1528223.D 1.0 =r1528224.D 5.0 =r1528225.D 10 =r1528226.D 20 =r1528227.D
50 =r1528228.D 100 =r1528229.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)	n-propylbenzene	1.945	2.078	2.103	1.877	1.866	1.836	1.738	1.519	1.8702	10.00
95)	4-chlorotoluene	1.686	1.760	1.751	1.586	1.633	1.581	1.583	1.435	1.6268	6.54
96)	4-ethyl toluene	6.057	6.795	6.676	5.915	6.017	5.669	5.463	4.912	5.9380	10.36
97)	1,3,5-trimethylbenzene	4.730	5.136	4.963	4.580	4.523	4.953	4.664	3.778	4.6656	8.92
98)	tert-butylbenzene	5.610	6.127	6.013	5.260	5.205	4.828	4.153	3.195	5.0490	19.47
99)	1,2,4-trimethylbenzene	4.867	5.418	5.325	4.634	4.704	4.436	4.017	3.186	4.5735	15.76
100)	decane	5.356	5.762	5.746	5.117	5.203	4.961	4.650	3.726	5.0651	12.99
101) C	Benzyl Chloride	2.703	3.105	3.340	3.486	3.811	3.924	3.945	3.246	3.4450	12.67
102)	1,3-dichlorobenzene	3.066	3.359	3.287	3.012	3.121	3.043	2.934	2.631	3.0567	7.29
103) C	1,4-dichlorobenzene	3.027	3.211	3.301	2.924	3.061	2.996	2.962	2.604	3.0109	6.91
104)	sec-butylbenzene	7.126	7.666	7.631	6.765	6.765	6.427	6.196	5.415	6.7487	11.13
105)	1,2,3-trimethylbenzene	5.602	6.095	6.043	5.329	5.282	4.967	4.502	3.500	5.1650	16.56
106)	p-isopropyltoluene	6.924	7.570	7.377	6.595	6.560	6.016	4.970	3.800	6.2265	20.47
107)	1,2-dichlorobenzene	2.845	3.154	3.242	2.855	2.956	2.845	2.853	2.692	2.9302	6.19
108)	n-butylbenzene	6.015	6.506	6.530	5.987	6.104	5.763	5.514	4.634	5.8816	10.35
109)	indan	6.564	7.286	7.332	6.406	6.417	5.968	5.462	4.575	6.2514	14.69
110)	indene	4.770	5.326	5.484	5.028	5.111	4.812	4.555	4.031	4.8897	9.41
111) C	1,2-dibromo-3-chloropropane	1.083	1.262	1.313	1.231	1.265	1.179	1.168	1.085	1.1982	7.06
112)	undecane	5.510	6.145	6.378	5.847	5.949	5.525	5.177	4.003	5.5668	13.27
113)	1,2,4,5-tetramethylbenzene	3.465	3.878	3.840	3.371	3.425	3.335	3.295	3.039	3.4560	8.10
114)	dodecane	4.530	5.654	6.124	6.401	6.460	5.519	5.203	4.044	5.4919	15.84
115) C	1,2,4-trichlorobenzene	1.732	2.035	2.242	2.281	2.413	2.256	2.399	2.197	2.1945	10.08
116)	naphthalene	6.281	7.248	7.632	7.188	7.531	6.650	6.753	6.048	6.9162	8.34
117)	1,2,3-trichlorobenzene	1.796	2.124	2.211	2.324	2.404	2.104	2.255	2.059	2.1596	8.67
118)	benzothiophene		0.904	1.015	1.019	1.083	1.018	1.001	0.818	0.9798	9.06
119) C	hexachlorobutadiene	1.715	2.003	2.046	1.924	1.985	1.731	1.741	1.527	1.8339	9.93
120)	2-methylnaphthalene			1.636	1.448	1.587	1.490	1.842	1.881	1.6474	10.88
121)	1-methylnaphthalene			3.094	2.914	3.039	2.767	3.231	3.171	3.0360	5.65

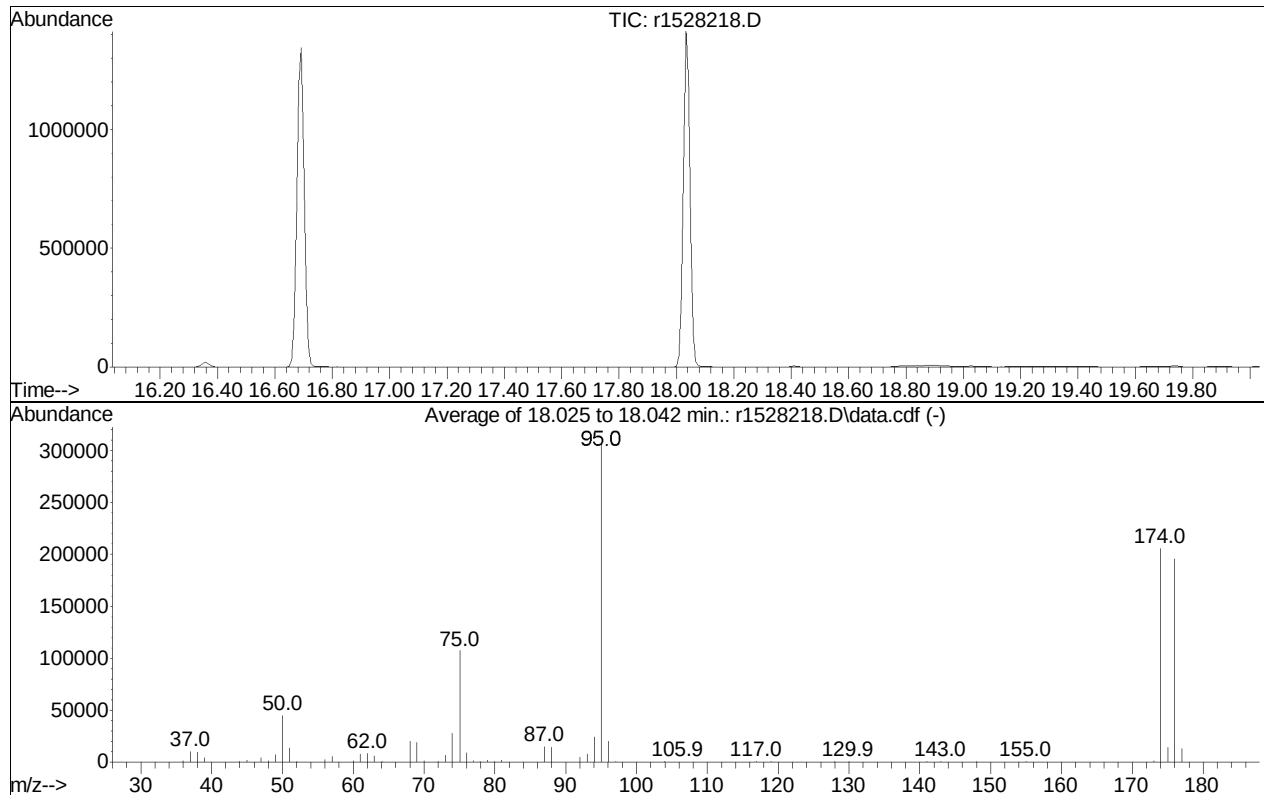
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528218.D
 Acq On : 2 Sep 2021 7:00 PM
 Operator : AIRLAB15:RY
 Sample : WG1542862-1,3,250,250
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Fri Sep 03 14:18:58 2021



Spectrum Information: Average of 18.025 to 18.042 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.6	44885	PASS
75	95	30	66	34.9	107382	PASS
95	95	100	100	100.0	307665	PASS
96	95	5	9	6.5	20102	PASS
173	174	0.00	2	0.5	1090	PASS
174	95	50	120	66.9	205785	PASS
175	174	4	9	6.8	14067	PASS
176	174	93	101	95.2	195930	PASS
177	176	5	9	6.6	12970	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528222.D
 Acq On : 2 Sep 2021 9:27 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:05:37 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:12 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.68	49	349067	10.000	ppbV	0.00
Standard Area = 356116			Recovery =		98.02%	
43) 1,4-difluorobenzene	11.96	114	823180	10.000	ppbV	0.00
Standard Area = 841922			Recovery =		97.77%	
67) chlorobenzene-D5	16.68	54	175068	10.000	ppbV	0.00
Standard Area = 177986			Recovery =		98.36%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.57	65	226209	12.016	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		120.16%	
69) toluene-D8	14.81	98	851354	8.766	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		87.66%	
90) bromofluorobenzene	18.03	95	561298	8.617	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		86.17%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.91	51	5694	0.237	ppbV	97
3) propylene	3.95	41	4104M6	0.195	ppbV	
4) propane	3.97	29	5291	0.261	ppbV #	84
5) dichlorodifluoromethane	4.02	85	5761	0.241	ppbV	99
6) chloromethane	4.21	50	3037	0.171	ppbV	94
7) Freon-114	4.34	85	7643	0.204	ppbV	91
8) methanol	4.41	31	11426	1.511	ppbV #	62
9) vinyl chloride	4.47	62	4326	0.202	ppbV	98
10) 1,3-butadiene	4.64	54	3348	0.213	ppbV	90
11) butane	4.71	43	6511	0.167	ppbV #	87
12) acetaldehyde	4.36	29	12716	1.241	ppbV #	77
13) bromomethane	4.96	94	3243	0.202	ppbV	98
14) chloroethane	5.19	64	2060	0.190	ppbV	89
15) ethanol	5.36	31	18811	1.630	ppbV #	68
16) dichlorofluoromethane	5.33	67	5295	0.226	ppbV	93
17) vinyl bromide	5.62	106	2998	0.208	ppbV	81
18) acrolein	5.78	56	2003	0.256	ppbV #	88
19) acetone	5.94	43	27584	0.888	ppbV #	85
20) acetonitrile	5.62	41	3908	0.169	ppbV	97
21) trichlorofluoromethane	6.14	101	5075	0.278	ppbV	94
22) isopropyl alcohol	6.27	45	16104	0.408	ppbV #	97
23) acrylonitrile	6.52	53	2669	0.188	ppbV #	93
24) pentane	6.60	43	5844M4	0.150	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528222.D
 Acq On : 2 Sep 2021 9:27 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:05:37 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:12 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528222.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) ethyl ether	6.65	31	6141	0.219	ppbV	#	89
26) 1,1-dichloroethene	6.92	61	5261	0.214	ppbV		94
27) tertiary butyl alcohol	7.02	59	6800	0.237	ppbV	#	91
28) methylene chloride	7.10	49	3936	0.182	ppbV		99
29) 3-chloropropene	7.24	41	6116	0.173	ppbV	#	82
30) carbon disulfide	7.39	76	8553	0.165	ppbV	#	1
31) Freon 113	7.43	101	5804	0.205	ppbV		95
32) trans-1,2-dichloroethene	8.23	61	6477	0.206	ppbV		97
33) 1,1-dichloroethane	8.47	63	7426	0.202	ppbV		99
34) MTBE	8.57	73	9072	0.222	ppbV		98
35) vinyl acetate	8.70	43	8894	0.175	ppbV		97
36) 2-butanone	8.97	43	9405	0.179	ppbV		96
37) cis-1,2-dichloroethene	9.47	61	5783	0.212	ppbV		97
38) Ethyl Acetate	9.79	61	1850	0.218	ppbV	#	47
39) chloroform	9.83	83	6664	0.238	ppbV		98
40) Tetrahydrofuran	10.32	42	5735	0.165	ppbV		94
41) 2,2-dichloropropane	9.84	77	4435	0.264	ppbV		88
42) 1,2-dichloroethane	10.69	62	4304	0.261	ppbV	#	90
44) hexane	9.75	57	8761	0.212	ppbV	#	56
45) diisopropyl ether	9.76	87	3747	0.216	ppbV		76
46) tert-butyl ethyl ether	10.39	59	13545	0.224	ppbV		97
48) 1,1,1-trichloroethane	10.99	97	5421	0.285	ppbV	#	89
49) 1,1-dichloropropene	11.36	75	5385	0.213	ppbV		89
50) benzene	11.52	78	16936	0.248	ppbV		93
51) thiophene	11.67	84	8109	0.218	ppbV		95
52) carbon tetrachloride	11.69	117	4191	0.273	ppbV		99
53) cyclohexane	11.84	56	9404	0.215	ppbV		87
54) tert-amyl methyl ether	12.24	73	10202	0.212	ppbV		95
55) dibromomethane	12.45	93	4605	0.246	ppbV		93
56) 1,2-dichloropropane	12.48	63	5260	0.189	ppbV		95
57) bromodichloromethane	12.72	83	6787	0.228	ppbV		96
58) 1,4-dioxane	12.78	88	3507	0.220	ppbV		94
59) trichloroethene	12.76	130	5279	0.222	ppbV		98
60) 2,2,4-trimethylpentane	12.82	57	29311	0.219	ppbV		93
61) methyl methacrylate	13.02	41	7116	0.169	ppbV	#	85
62) heptane	13.14	43	9831	0.171	ppbV	#	83
63) cis-1,3-dichloropropene	13.79	75	5880	0.204	ppbV		98
64) 4-methyl-2-pentanone	13.84	43	10773	0.166	ppbV	#	85
65) trans-1,3-dichloropropene	14.42	75	5125	0.213	ppbV		97
66) 1,1,2-trichloroethane	14.61	97	5036	0.220	ppbV		90

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528222.D
 Acq On : 2 Sep 2021 9:27 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:05:37 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:12 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528222.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.92	91	20770	0.230	ppbV	97
70) 2-methylthiophene	14.99	97	11507	0.191	ppbV	99
71) 1,3-dichloropropane	14.95	76	7001	0.184	ppbV	87
72) 2-hexanone	15.22	43	10081	0.142	ppbV	92
73) 3-methylthiophene	15.18	97	11506	0.188	ppbV	95
74) dibromochloromethane	15.37	129	5879	0.192	ppbV	99
75) 1,2-dibromoethane	15.61	107	6886	0.183	ppbV	94
76) butyl acetate	15.86	73	1469	0.149	ppbV	85
77) octane	15.95	85	6363	0.190	ppbV #	74
78) tetrachloroethene	16.07	166	5850	0.197	ppbV	96
79) 1,1,1,2-tetrachloroethane	16.71	131	4857	0.215	ppbV #	93
80) chlorobenzene	16.73	112	11881	0.184	ppbV	96
81) ethylbenzene	17.07	91	21166	0.203	ppbV	91
82) 2-ethylthiophene	17.11	97	13032	0.193	ppbV	96
83) m+p-xylene	17.23	91	33865	0.408	ppbV	91
84) bromoform	17.30	173	4362	0.172	ppbV	95
85) styrene	17.55	104	11936	0.176	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.64	83	12494	0.182	ppbV	96
87) o-xylene	17.64	91	16627	0.201	ppbV	98
88) 1,2,3-trichloropropane	17.75	75	8562	0.176	ppbV #	92
89) nonane	17.83	43	14757	0.158	ppbV #	86
91) isopropylbenzene	18.14	105	19743	0.191	ppbV	98
92) bromobenzene	18.22	77	11410	0.180	ppbV	93
93) 2-chlorotoluene	18.54	126	5784	0.187	ppbV	80
94) n-propylbenzene	18.57	120	6811	0.189	ppbV	80
95) 4-chlorotoluene	18.60	126	5904	0.192	ppbV	90
96) 4-ethyl toluene	18.68	105	21206	0.181	ppbV #	97
97) 1,3,5-trimethylbenzene	18.74	105	16561	0.177	ppbV	94
98) tert-butylbenzene	19.07	119	19644	0.200	ppbV	97
99) 1,2,4-trimethylbenzene	19.07	105	17040	0.181	ppbV	88
100) decane	19.15	57	18755	0.178	ppbV	90
101) Benzyl Chloride	19.19	91	9463	0.182	ppbV	97
102) 1,3-dichlorobenzene	19.21	146	10735	0.167	ppbV	92
103) 1,4-dichlorobenzene	19.26	146	10600	0.168	ppbV	98
104) sec-butylbenzene	19.29	105	24949	0.181	ppbV	99
105) 1,2,3-trimethylbenzene	19.42	105	19615	0.186	ppbV	97
106) p-isopropyltoluene	19.41	119	24242	0.204	ppbV	97
107) 1,2-dichlorobenzene	19.54	146	9962	0.165	ppbV	96
108) n-butylbenzene	19.77	91	21059	0.190	ppbV	92
109) indan	19.59	117	22983	0.192	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528222.D
 Acq On : 2 Sep 2021 9:27 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:05:37 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:12 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.66	115	16703	0.172	ppbV	92
111)	1,2-dibromo-3-chloropr...	19.91	75	3792	0.177	ppbV	91
112)	undecane	20.16	57	19291	0.166	ppbV	91
113)	1,2,4,5-tetramethylben...	20.40	119	12131	0.188	ppbV	97
114)	dodecane	21.10	57	15860	0.134	ppbV	91
115)	1,2,4-trichlorobenzene	21.05	180	6065	0.151	ppbV	93
116)	naphthalene	21.17	128	21992	0.171	ppbV	97
117)	1,2,3-trichlorobenzene	21.43	180	6288	0.158	ppbV	94
118)	benzothiophene	21.23	134	25282	0.134	ppbV	100
119)	hexachlorobutadiene	21.50	225	6005	0.186	ppbV #	90
120)	2-methylnaphthalene	22.32	142	2723	0.083	ppbV	97
121)	1-methylnaphthalene	22.53	142	6608	0.110	ppbV	99

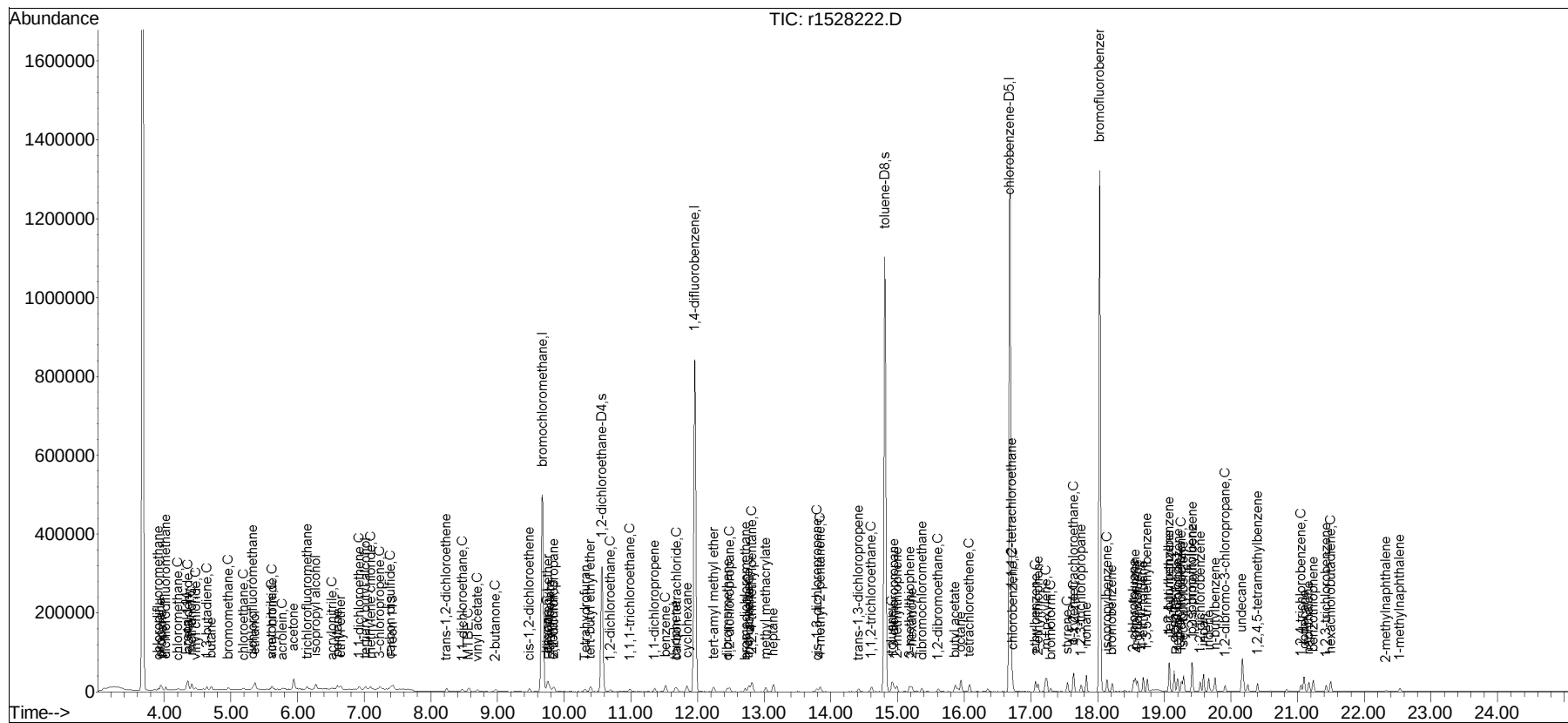
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
Data File  : r1528222.D
Acq On     :  2 Sep 2021    9:27 PM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD0.2
Misc       : WG1542862
ALS Vial   : 0    Sample Multiplier: 1
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Quant Time: Sep 03 14:05:37 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Aug 23 07:10:12 2021
Response via : Initial Calibration

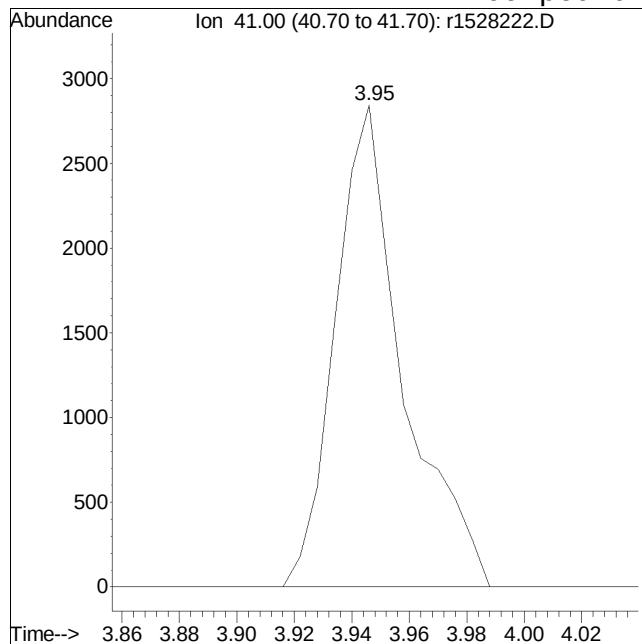
Sub List : Default - All compounds listed1\09\0902T_I\r1528226.D



Manual Integration/Negative Proof Report

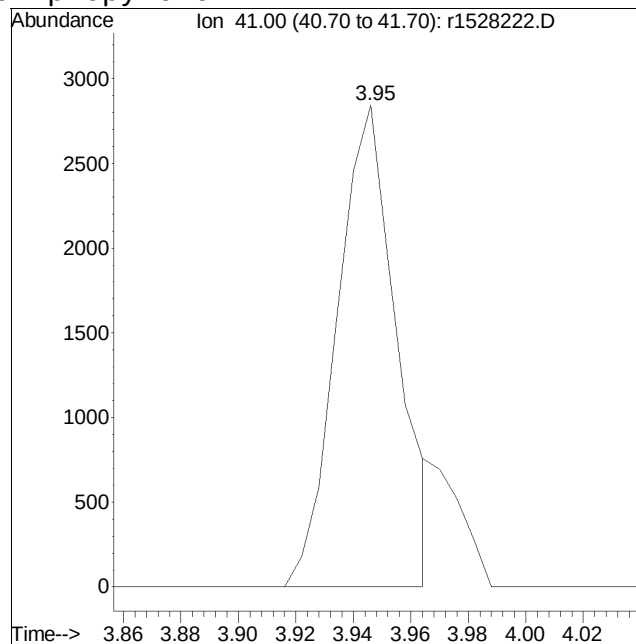
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TFS15_210902.M
Data File : r1528222.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:9: 7 Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 9/3/2021 5:45 am

Compound #3: propylene



Original Peak Response = 4641

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

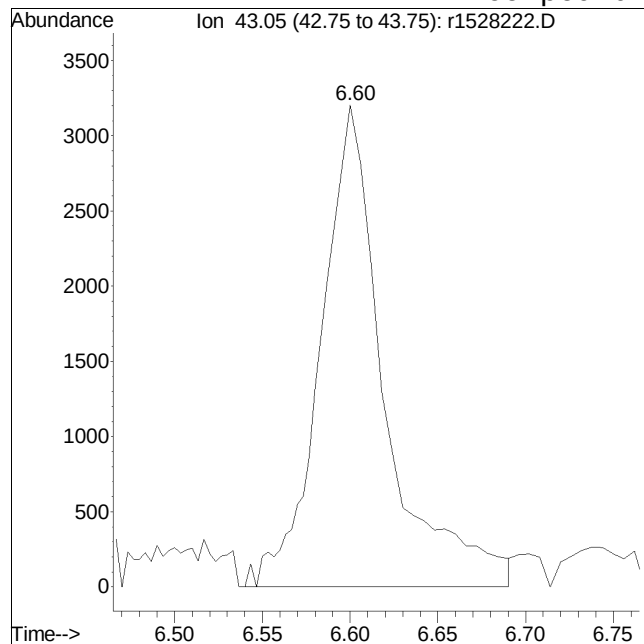


Manual Peak Response = 4104 M6

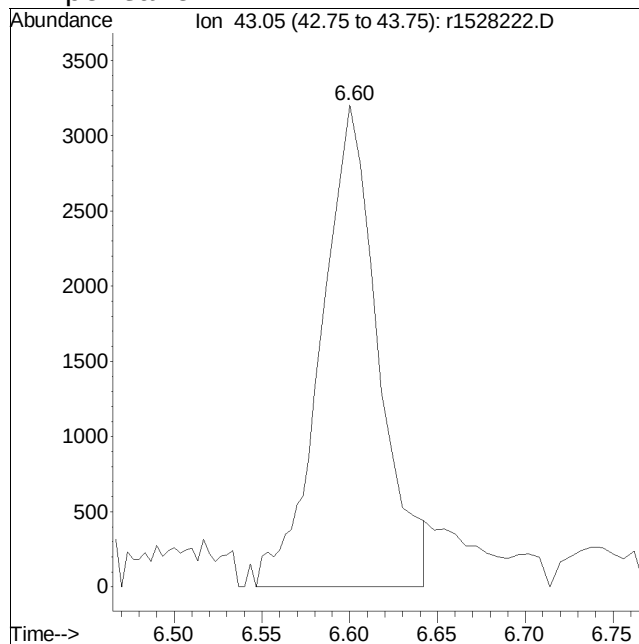
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528222.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:9: 7 Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 9/3/2021 5:45 am

Compound #24: pentane



Original Peak Response = 6861



Manual Peak Response = 5844 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528223.D
 Acq On : 2 Sep 2021 10:06 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:08:24 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.68	49	355167	10.000	ppbV	0.00
Standard Area = 356116			Recovery =	99.73%		
43) 1,4-difluorobenzene	11.96	114	836272	10.000	ppbV	0.00
Standard Area = 841922			Recovery =	99.33%		
67) chlorobenzene-D5	16.68	54	176076	10.000	ppbV	0.00
Standard Area = 177986			Recovery =	98.93%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.57	65	226965	11.868	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	118.68%		
69) toluene-D8	14.81	98	843264	8.633	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	86.33%		
90) bromofluorobenzene	18.03	95	576458	8.799	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.99%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.92	51	14936	0.612	ppbV #	93
3) propylene	3.95	41	10155M6	0.474	ppbV	
4) propane	3.97	29	13409	0.650	ppbV #	82
5) dichlorodifluoromethane	4.02	85	15440	0.634	ppbV	98
6) chloromethane	4.21	50	8307	0.460	ppbV	90
7) Freon-114	4.34	85	20250	0.532	ppbV	94
8) methanol	4.41	31	27576	3.584	ppbV #	84
9) vinyl chloride	4.47	62	11445	0.527	ppbV	97
10) 1,3-butadiene	4.64	54	8432	0.528	ppbV	87
11) butane	4.71	43	15389	0.388	ppbV #	88
12) acetaldehyde	4.36	29	31886	3.058	ppbV #	68
13) bromomethane	4.97	94	8763	0.538	ppbV	94
14) chloroethane	5.19	64	5284	0.480	ppbV	90
15) ethanol	5.36	31	43865	3.737	ppbV #	66
16) dichlorofluoromethane	5.33	67	12613	0.528	ppbV	98
17) vinyl bromide	5.62	106	7542	0.514	ppbV	90
18) acrolein	5.78	56	4533	0.568	ppbV #	89
19) acetone	5.94	43	69411	2.197	ppbV #	87
20) acetonitrile	5.61	41	9094	0.387	ppbV #	83
21) trichlorofluoromethane	6.15	101	13382	0.720	ppbV	93
22) isopropyl alcohol	6.27	45	39871	0.992	ppbV #	93
23) acrylonitrile	6.52	53	6854	0.475	ppbV	94
24) pentane	6.60	43	12779M4	0.322	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528223.D
 Acq On : 2 Sep 2021 10:06 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:08:24 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) ethyl ether	6.64	31	15906	0.558	ppbV	#	88
26) 1,1-dichloroethene	6.92	61	14035	0.561	ppbV		98
27) tertiary butyl alcohol	7.01	59	18027	0.616	ppbV	#	86
28) methylene chloride	7.09	49	9811	0.445	ppbV		100
29) 3-chloropropene	7.24	41	16575	0.462	ppbV	#	86
30) carbon disulfide	7.39	76	29601	0.560	ppbV	#	85
31) Freon 113	7.43	101	16742	0.582	ppbV		95
32) trans-1,2-dichloroethene	8.24	61	17147	0.537	ppbV		99
33) 1,1-dichloroethane	8.47	63	20017	0.536	ppbV		98
34) MTBE	8.57	73	24052	0.578	ppbV		98
35) vinyl acetate	8.70	43	22563	0.437	ppbV	#	95
36) 2-butanone	8.97	43	24412	0.456	ppbV	#	96
37) cis-1,2-dichloroethene	9.48	61	15409	0.555	ppbV		99
38) Ethyl Acetate	9.79	61	4535	0.526	ppbV	#	55
39) chloroform	9.83	83	17275	0.607	ppbV		96
40) Tetrahydrofuran	10.30	42	15346	0.433	ppbV		91
41) 2,2-dichloropropane	9.85	77	12256	0.717	ppbV		88
42) 1,2-dichloroethane	10.69	62	11530	0.688	ppbV		91
44) hexane	9.75	57	24083	0.573	ppbV	#	59
45) diisopropyl ether	9.76	87	10265	0.582	ppbV		72
46) tert-butyl ethyl ether	10.39	59	36906	0.600	ppbV		98
48) 1,1,1-trichloroethane	10.99	97	13762	0.713	ppbV	#	92
49) 1,1-dichloropropene	11.36	75	14464	0.562	ppbV		92
50) benzene	11.52	78	39069	0.564	ppbV		93
51) thiophene	11.67	84	21255	0.562	ppbV		96
52) carbon tetrachloride	11.70	117	11374	0.730	ppbV		96
53) cyclohexane	11.84	56	25248	0.569	ppbV		93
54) tert-amyl methyl ether	12.24	73	27070	0.553	ppbV		94
55) dibromomethane	12.45	93	11165	0.588	ppbV		95
56) 1,2-dichloropropane	12.48	63	14043	0.495	ppbV		98
57) bromodichloromethane	12.72	83	18488	0.611	ppbV		99
58) 1,4-dioxane	12.77	88	9112	0.563	ppbV		94
59) trichloroethene	12.76	130	13888	0.575	ppbV		90
60) 2,2,4-trimethylpentane	12.82	57	78018	0.573	ppbV		93
61) methyl methacrylate	13.02	41	19032	0.445	ppbV	#	86
62) heptane	13.14	43	26095	0.446	ppbV	#	85
63) cis-1,3-dichloropropene	13.79	75	15488	0.530	ppbV		95
64) 4-methyl-2-pentanone	13.83	43	29209	0.442	ppbV		90
65) trans-1,3-dichloropropene	14.42	75	13483	0.551	ppbV		98
66) 1,1,2-trichloroethane	14.61	97	12601	0.541	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528223.D
 Acq On : 2 Sep 2021 10:06 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:08:24 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.92	91	47609	0.525	ppbV	100
70) 2-methylthiophene	14.99	97	29746	0.491	ppbV	99
71) 1,3-dichloropropane	14.95	76	18329	0.479	ppbV	88
72) 2-hexanone	15.21	43	27267	0.382	ppbV	90
73) 3-methylthiophene	15.18	97	30312	0.491	ppbV	98
74) dibromochloromethane	15.37	129	15971	0.518	ppbV	98
75) 1,2-dibromoethane	15.62	107	17697	0.467	ppbV	97
76) butyl acetate	15.86	73	4213	0.425	ppbV	78
77) octane	15.95	85	17528	0.521	ppbV #	74
78) tetrachloroethene	16.08	166	15253	0.511	ppbV	93
79) 1,1,1,2-tetrachloroethane	16.71	131	12618	0.555	ppbV	95
80) chlorobenzene	16.73	112	31819	0.490	ppbV	98
81) ethylbenzene	17.07	91	55150	0.525	ppbV	92
82) 2-ethylthiophene	17.11	97	34810	0.512	ppbV	94
83) m+p-xylene	17.23	91	90854	1.087	ppbV	92
84) bromoform	17.30	173	12470	0.488	ppbV	92
85) styrene	17.55	104	31786	0.466	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.64	83	34432	0.499	ppbV	98
87) o-xylene	17.64	91	45162	0.544	ppbV	94
88) 1,2,3-trichloropropane	17.75	75	23274	0.476	ppbV	97
89) nonane	17.83	43	38456	0.410	ppbV #	84
91) isopropylbenzene	18.14	105	52459	0.504	ppbV	98
92) bromobenzene	18.22	77	30527	0.479	ppbV	98
93) 2-chlorotoluene	18.54	126	16184	0.520	ppbV	90
94) n-propylbenzene	18.57	120	18292	0.504	ppbV	87
95) 4-chlorotoluene	18.60	126	15498	0.502	ppbV	92
96) 4-ethyl toluene	18.68	105	59826	0.508	ppbV	99
97) 1,3,5-trimethylbenzene	18.74	105	45217	0.479	ppbV	100
98) tert-butylbenzene	19.07	119	53940	0.547	ppbV	99
99) 1,2,4-trimethylbenzene	19.07	105	47701	0.504	ppbV	92
100) decane	19.15	57	50724	0.478	ppbV	88
101) Benzyl Chloride	19.19	91	27335	0.522	ppbV	99
102) 1,3-dichlorobenzene	19.21	146	29576M3	0.457	ppbV	
103) 1,4-dichlorobenzene	19.26	146	28271	0.444	ppbV	95
104) sec-butylbenzene	19.29	105	67486	0.486	ppbV	98
105) 1,2,3-trimethylbenzene	19.42	105	53662	0.505	ppbV	100
106) p-isopropyltoluene	19.41	119	66648	0.557	ppbV	95
107) 1,2-dichlorobenzene	19.54	146	27763	0.458	ppbV	97
108) n-butylbenzene	19.76	91	57275	0.515	ppbV	99
109) indan	19.59	117	64145	0.533	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528223.D
 Acq On : 2 Sep 2021 10:06 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:08:24 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.66	115	46889	0.481	ppbV	91
111)	1,2-dibromo-3-chloropr...	19.91	75	11113	0.516	ppbV	89
112)	undecane	20.16	57	54098	0.464	ppbV	92
113)	1,2,4,5-tetramethylben...	20.40	119	34138	0.526	ppbV	99
114)	dodecane	21.09	57	49776	0.418	ppbV	87
115)	1,2,4-trichlorobenzene	21.05	180	17917	0.445	ppbV	96
116)	naphthalene	21.17	128	63807	0.493	ppbV	99
117)	1,2,3-trichlorobenzene	21.43	180	18695	0.466	ppbV	95
118)	benzothiophene	21.23	134	79621	0.420	ppbV	98
119)	hexachlorobutadiene	21.49	225	17634	0.543	ppbV	96
120)	2-methylnaphthalene	22.32	142	10782	0.326	ppbV	97
121)	1-methylnaphthalene	22.53	142	22232	0.369	ppbV	96

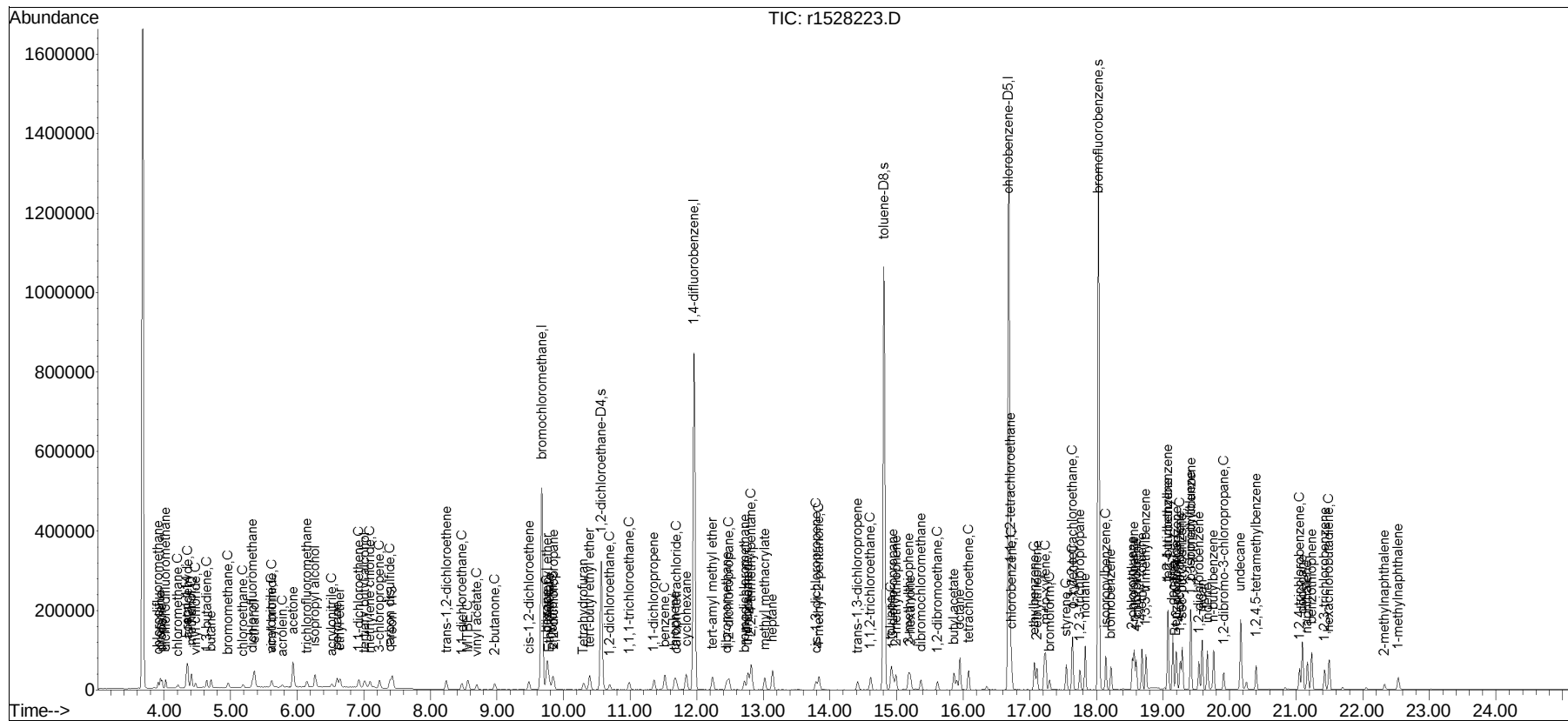
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
Data File  : r1528223.D
Acq On     : 2 Sep 2021 10:06 PM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD0.5
Misc       : WG1542862
ALS Vial   : 0 Sample Multiplier: 1
```

Quant Time: Sep 03 14:08:24 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Aug 23 07:10:13 2021
Response via : Initial Calibration

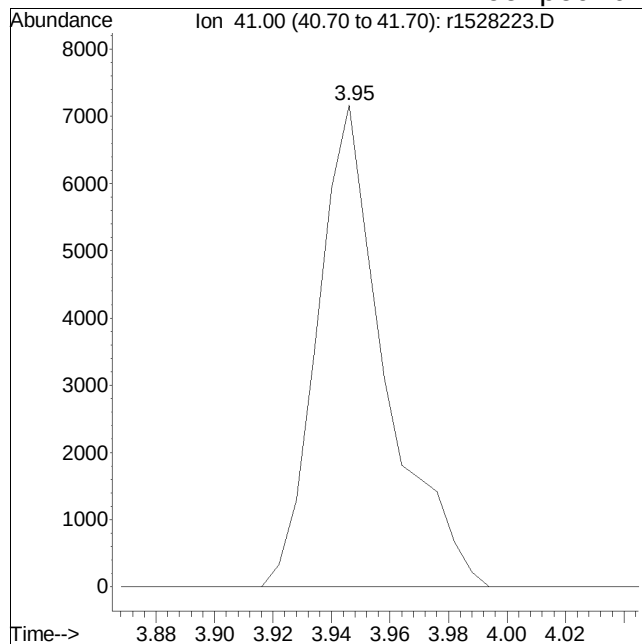
Sub List : Default - All compounds listed1\09\0902T_I\r1528226.D



Manual Integration/Negative Proof Report

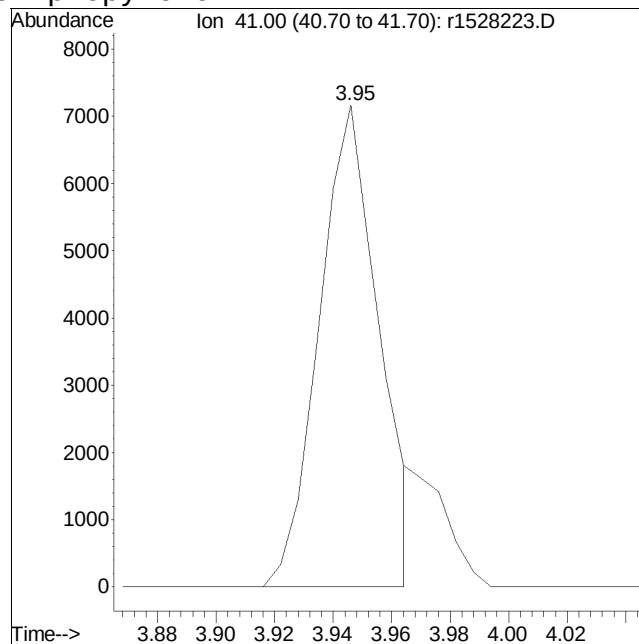
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TFS15_210902.M
Data File : r1528223.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:0: 6 Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 9/3/2021 5:45 am

Compound #3: propylene



Original Peak Response = 11570

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

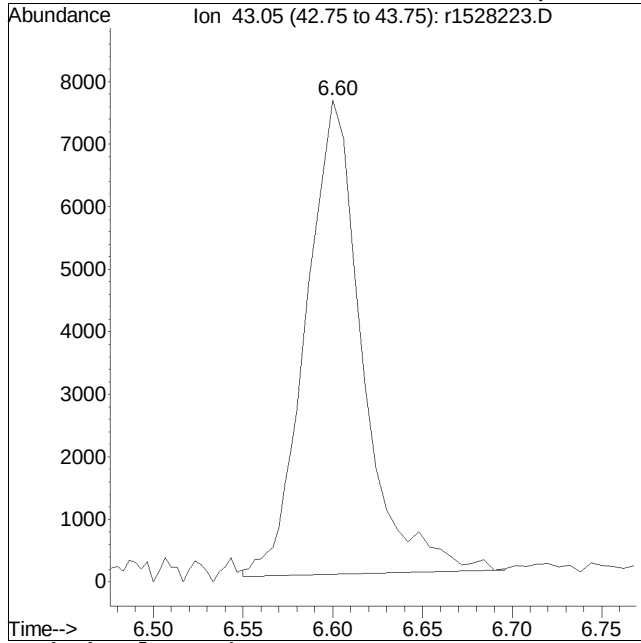


Manual Peak Response = 10155 M6

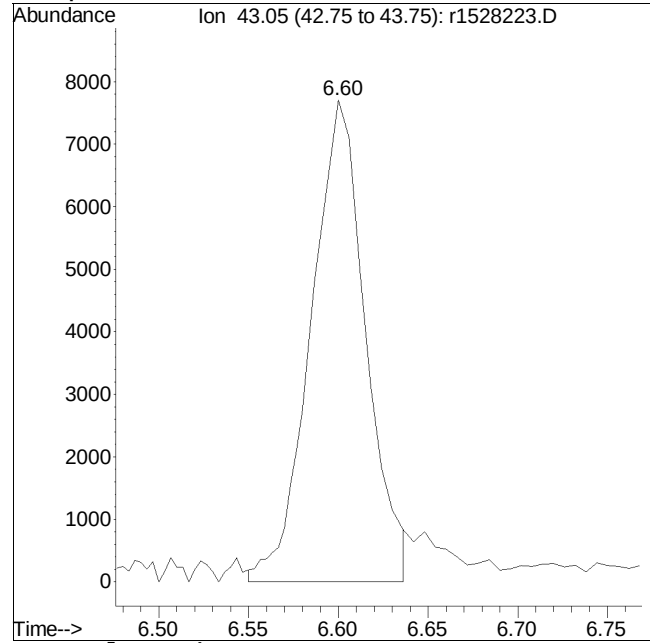
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528223.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:0: 6 Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 9/3/2021 5:45 am

Compound #24: pentane



Original Peak Response = 14051



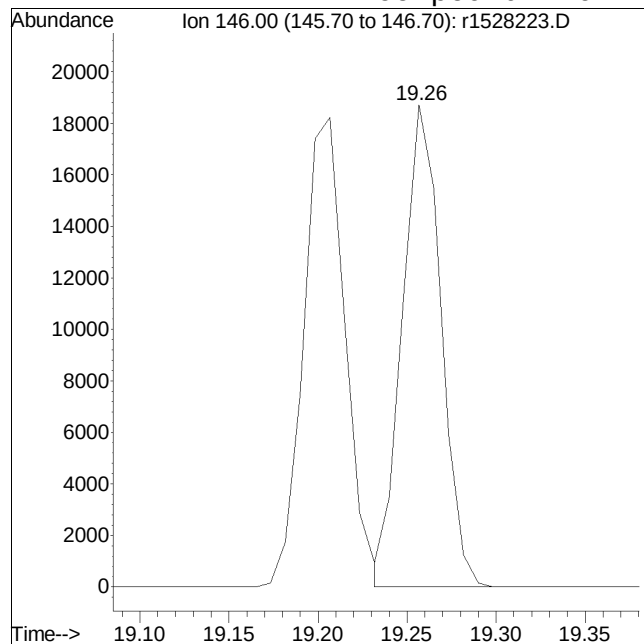
Manual Peak Response = 12779 M4

M4 = Poor automated baseline construction.

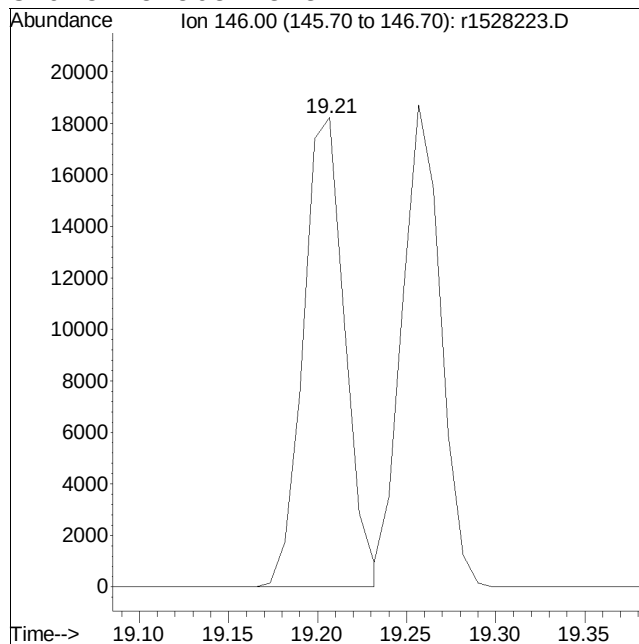
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528223.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:0: 6 Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 9/3/2021 5:45 am

Compound #102: 1,3-dichlorobenzene



Original Peak Response = 28271



Manual Peak Response = 29576 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528224.D
 Acq On : 2 Sep 2021 10:47 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:09:43 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.68	49	354093	10.000	ppbV	0.00
Standard Area = 356116			Recovery =	99.43%		
43) 1,4-difluorobenzene	11.96	114	846492	10.000	ppbV	0.00
Standard Area = 841922			Recovery =	100.54%		
67) chlorobenzene-D5	16.68	54	181929	10.000	ppbV	0.00
Standard Area = 177986			Recovery =	102.22%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.57	65	224686	11.607	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	116.07%		
69) toluene-D8	14.81	98	854148	8.464	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	84.64%		
90) bromofluorobenzene	18.03	95	609539	9.005	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	90.05%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.91	51	30315	1.246	ppbV #	94
3) propylene	3.94	41	20533M4	0.961	ppbV	
4) propane	3.97	29	26244	1.276	ppbV #	82
5) dichlorodifluoromethane	4.02	85	31429	1.294	ppbV	97
6) chloromethane	4.21	50	15631	0.868	ppbV	89
7) Freon-114	4.34	85	41126	1.083	ppbV	94
8) methanol	4.41	31	53034	6.914	ppbV	93
9) vinyl chloride	4.47	62	22549	1.041	ppbV	99
10) 1,3-butadiene	4.64	54	17062	1.072	ppbV	86
11) butane	4.71	43	28423	0.719	ppbV #	90
12) acetaldehyde	4.35	29	59517	5.725	ppbV #	69
13) bromomethane	4.96	94	17665	1.087	ppbV	94
14) chloroethane	5.19	64	10879	0.992	ppbV	99
15) ethanol	5.35	31	80196	6.852	ppbV #	67
16) dichlorofluoromethane	5.33	67	24595	1.034	ppbV	98
17) vinyl bromide	5.62	106	15206	1.039	ppbV	100
18) acrolein	5.77	56	8735	1.099	ppbV #	92
19) acetone	5.93	43	139375	4.424	ppbV #	85
20) acetonitrile	5.61	41	16937	0.722	ppbV	89
21) trichlorofluoromethane	6.14	101	27461	1.482	ppbV	92
22) isopropyl alcohol	6.26	45	79639	1.987	ppbV #	96
23) acrylonitrile	6.52	53	14209	0.987	ppbV	93
24) pentane	6.60	43	25215M4	0.638	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528224.D
 Acq On : 2 Sep 2021 10:47 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:09:43 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) ethyl ether	6.64	31	33420	1.175	ppbV	#	87
26) 1,1-dichloroethene	6.92	61	28545	1.145	ppbV		95
27) tertiary butyl alcohol	7.00	59	36900	1.265	ppbV	#	85
28) methylene chloride	7.09	49	19276	0.876	ppbV		93
29) 3-chloropropene	7.24	41	26607	0.743	ppbV	#	85
30) carbon disulfide	7.39	76	46975	0.892	ppbV	#	78
31) Freon 113	7.43	101	31562	1.101	ppbV		95
32) trans-1,2-dichloroethene	8.23	61	35184	1.106	ppbV		98
33) 1,1-dichloroethane	8.47	63	40379	1.084	ppbV		99
34) MTBE	8.56	73	49015	1.181	ppbV		99
35) vinyl acetate	8.69	43	48970	0.951	ppbV	#	93
36) 2-butanone	8.96	43	50168	0.940	ppbV		97
37) cis-1,2-dichloroethene	9.47	61	30645	1.107	ppbV		96
38) Ethyl Acetate	9.78	61	8801	1.024	ppbV		76
39) chloroform	9.83	83	36206	1.275	ppbV		98
40) Tetrahydrofuran	10.29	42	31131	0.880	ppbV		91
41) 2,2-dichloropropane	9.85	77	24840	1.458	ppbV		85
42) 1,2-dichloroethane	10.69	62	23687	1.417	ppbV		94
44) hexane	9.75	57	47317	1.112	ppbV	#	74
45) diisopropyl ether	9.76	87	20792	1.165	ppbV		76
46) tert-butyl ethyl ether	10.39	59	74610	1.198	ppbV		99
48) 1,1,1-trichloroethane	10.98	97	27865	1.426	ppbV	#	93
49) 1,1-dichloropropene	11.36	75	28644	1.100	ppbV		96
50) benzene	11.52	78	76006	1.083	ppbV		94
51) thiophene	11.67	84	44402	1.160	ppbV		94
52) carbon tetrachloride	11.70	117	23306	1.478	ppbV		97
53) cyclohexane	11.84	56	50325	1.120	ppbV		94
54) tert-amyl methyl ether	12.23	73	55375	1.118	ppbV	#	93
55) dibromomethane	12.45	93	22662	1.179	ppbV		94
56) 1,2-dichloropropane	12.48	63	28518	0.994	ppbV		96
57) bromodichloromethane	12.72	83	37860	1.236	ppbV		94
58) 1,4-dioxane	12.76	88	17854	1.090	ppbV		98
59) trichloroethene	12.76	130	28108	1.151	ppbV		96
60) 2,2,4-trimethylpentane	12.82	57	159590	1.158	ppbV		93
61) methyl methacrylate	13.02	41	39133	0.904	ppbV	#	88
62) heptane	13.14	43	53157	0.898	ppbV	#	83
63) cis-1,3-dichloropropene	13.79	75	32457	1.096	ppbV		93
64) 4-methyl-2-pentanone	13.83	43	58894	0.881	ppbV	#	89
65) trans-1,3-dichloropropene	14.42	75	29480	1.190	ppbV		92
66) 1,1,2-trichloroethane	14.61	97	26096	1.107	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528224.D
 Acq On : 2 Sep 2021 10:47 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:09:43 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.92	91	92701	0.989	ppbV	98
70)	2-methylthiophene	14.99	97	61407	0.981	ppbV	98
71)	1,3-dichloropropane	14.95	76	36960	0.935	ppbV	89
72)	2-hexanone	15.20	43	55024	0.746	ppbV	89
73)	3-methylthiophene	15.18	97	63492	0.996	ppbV	98
74)	dibromochloromethane	15.37	129	33378	1.047	ppbV	99
75)	1,2-dibromoethane	15.62	107	36315	0.928	ppbV	95
76)	butyl acetate	15.86	73	9127	0.892	ppbV	77
77)	octane	15.95	85	34355	0.988	ppbV #	76
78)	tetrachloroethene	16.08	166	32080	1.040	ppbV	97
79)	1,1,1,2-tetrachloroethane	16.71	131	25785	1.097	ppbV	94
80)	chlorobenzene	16.73	112	65471	0.976	ppbV	96
81)	ethylbenzene	17.07	91	111823	1.031	ppbV	91
82)	2-ethylthiophene	17.11	97	72259	1.028	ppbV	95
83)	m+p-xylene	17.23	91	183612	2.127	ppbV	93
84)	bromoform	17.30	173	26541	1.006	ppbV	93
85)	styrene	17.55	104	66626	0.945	ppbV	96
86)	1,1,2,2-tetrachloroethane	17.64	83	70869	0.995	ppbV	98
87)	o-xylene	17.64	91	92208	1.074	ppbV	96
88)	1,2,3-trichloropropane	17.75	75	48225	0.954	ppbV	97
89)	nonane	17.83	43	80860	0.834	ppbV #	83
91)	isopropylbenzene	18.14	105	106823	0.993	ppbV	98
92)	bromobenzene	18.22	77	63366	0.962	ppbV	96
93)	2-chlorotoluene	18.54	126	33113	1.029	ppbV	81
94)	n-propylbenzene	18.57	120	38252	1.021	ppbV	88
95)	4-chlorotoluene	18.60	126	31849	0.998	ppbV	97
96)	4-ethyl toluene	18.68	105	121450	0.999	ppbV	98
97)	1,3,5-trimethylbenzene	18.74	105	90283	0.926	ppbV	98
98)	tert-butylbenzene	19.07	119	109397	1.074	ppbV	100
99)	1,2,4-trimethylbenzene	19.07	105	96873	0.991	ppbV	90
100)	decane	19.15	57	104532	0.953	ppbV	89
101)	Benzyl Chloride	19.19	91	60763	1.123	ppbV	96
102)	1,3-dichlorobenzene	19.20	146	59807	0.894	ppbV	93
103)	1,4-dichlorobenzene	19.26	146	60059	0.914	ppbV	97
104)	sec-butylbenzene	19.29	105	138833	0.968	ppbV	99
105)	1,2,3-trimethylbenzene	19.41	105	109944	1.002	ppbV	91
106)	p-isopropyltoluene	19.41	119	134211	1.086	ppbV	94
107)	1,2-dichlorobenzene	19.54	146	58981	0.941	ppbV	96
108)	n-butylbenzene	19.76	91	118801	1.033	ppbV	99
109)	indan	19.59	117	133394	1.073	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528224.D
 Acq On : 2 Sep 2021 10:47 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:09:43 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.66	115	99771	0.990	ppbV	97
111)	1,2-dibromo-3-chloropr...	19.91	75	23885	1.074	ppbV	91
112)	undecane	20.16	57	116037	0.963	ppbV #	90
113)	1,2,4,5-tetramethylben...	20.40	119	69867	1.041	ppbV	97
114)	dodecane	21.09	57	111421	0.905	ppbV	87
115)	1,2,4-trichlorobenzene	21.05	180	40792	0.980	ppbV	96
116)	naphthalene	21.17	128	138852	1.039	ppbV	99
117)	1,2,3-trichlorobenzene	21.43	180	40231	0.971	ppbV	98
118)	benzothiophene	21.23	134	184653	0.944	ppbV	100
119)	hexachlorobutadiene	21.49	225	37221	1.110	ppbV	95
120)	2-methylnaphthalene	22.32	142	29768	0.871	ppbV	98
121)	1-methylnaphthalene	22.53	142	56283	0.904	ppbV	97

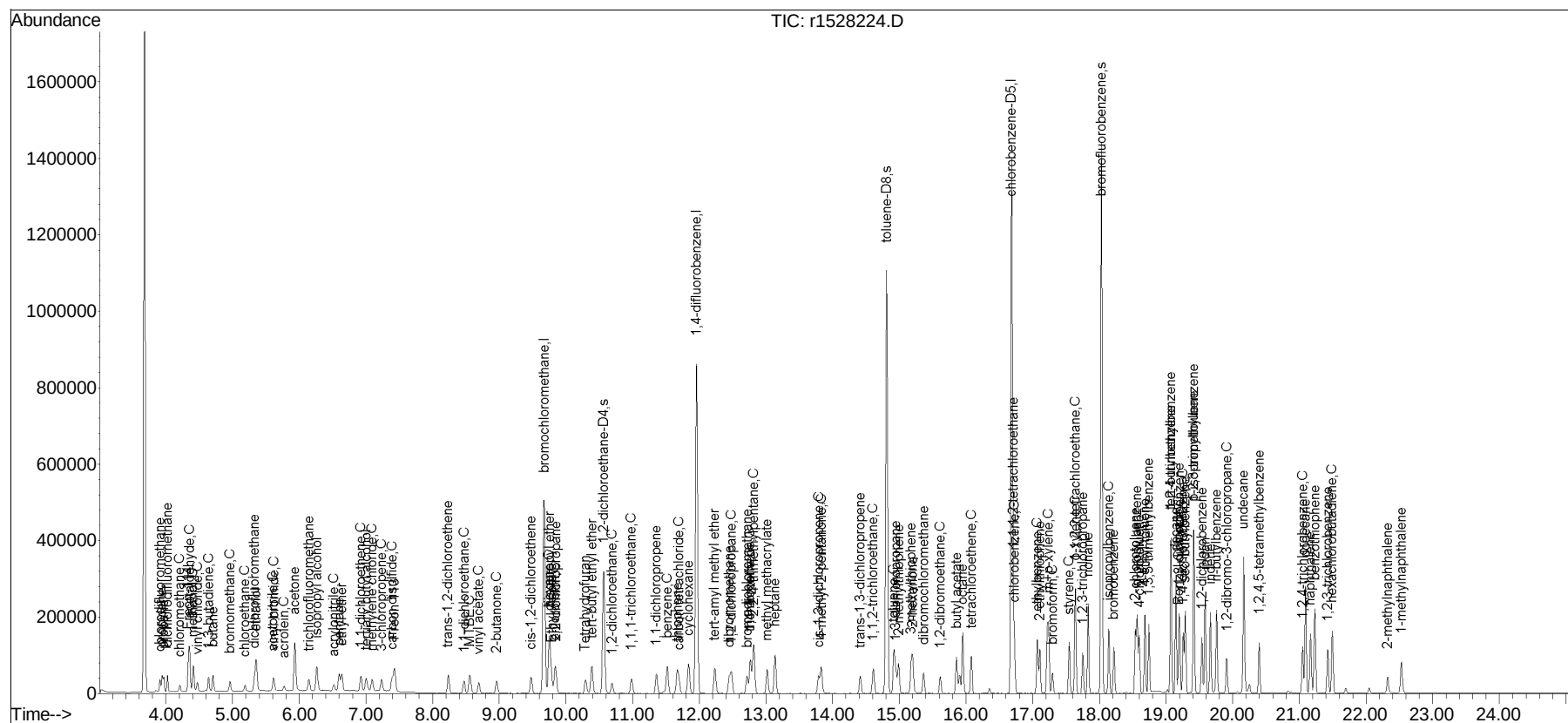
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path   : 0:\Forensics\Data\AirLab15\2021\09\0902T_I\
Data File  : r1528224.D
Acq On     :  2 Sep 2021  10:47 PM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD1.0
Misc       : WG1542862
ALS Vial   : 0      Sample Multiplier: 1
```

Quant Time: Sep 03 14:09:43 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0902T_I\TFS15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Aug 23 07:10:13 2021
Response via : Initial Calibration

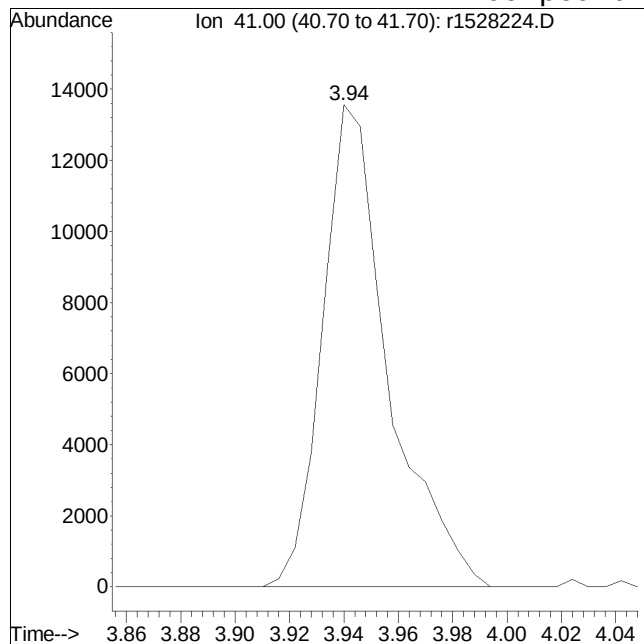
Sub List : Default - All compounds listed1\09\0902T_I\r1528226.D



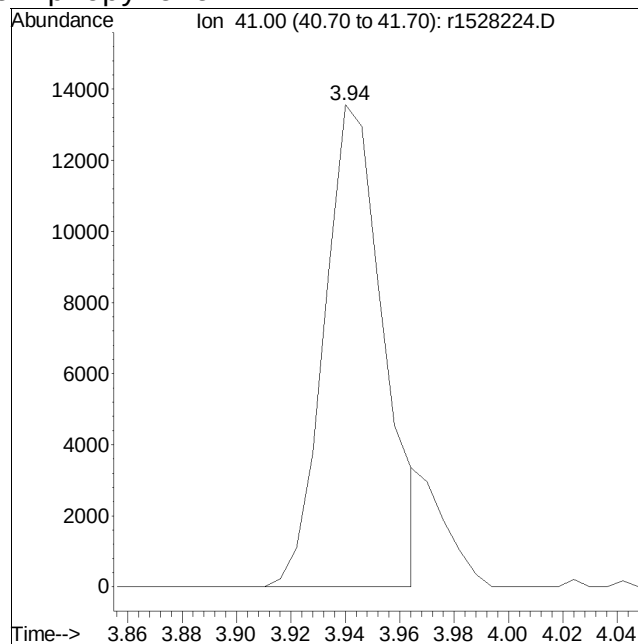
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528224.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:0: 7 Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 9/3/2021 5:46 am

Compound #3: propylene



Original Peak Response = 22771



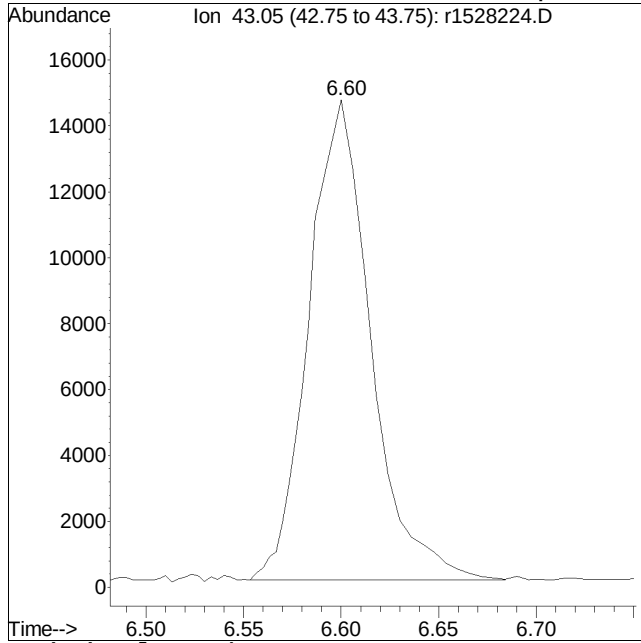
Manual Peak Response = 20533 M4

M4 = Poor automated baseline construction.

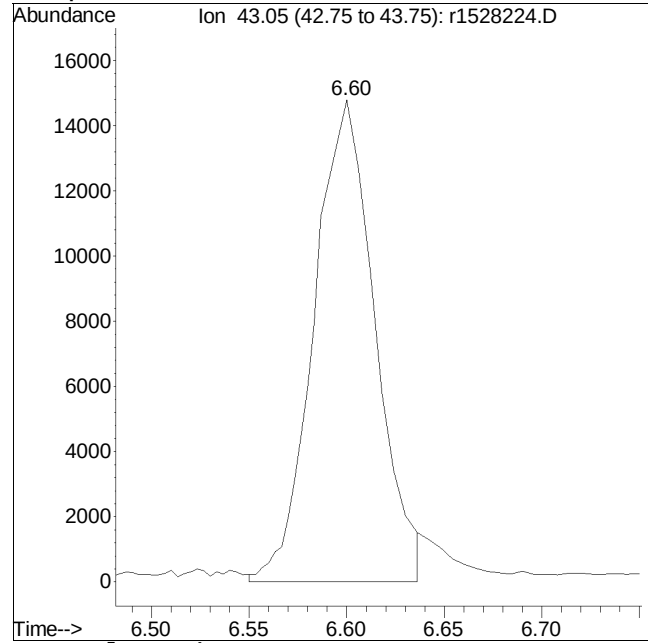
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528224.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:0: 7 Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 9/3/2021 5:46 am

Compound #24: pentane



Original Peak Response = 27277



Manual Peak Response = 25215 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528225.D
 Acq On : 2 Sep 2021 11:26 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:11:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.67	49	357522	10.000	ppbV	0.00
Standard Area = 356116			Recovery =	100.39%		
43) 1,4-difluorobenzene	11.96	114	850083	10.000	ppbV	0.00
Standard Area = 841922			Recovery =	100.97%		
67) chlorobenzene-D5	16.68	54	181514	10.000	ppbV	0.00
Standard Area = 177986			Recovery =	101.98%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.57	65	229603	11.811	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	118.11%		
69) toluene-D8	14.81	98	881248	8.752	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.52%		
90) bromofluorobenzene	18.03	95	616585	9.129	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.29%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.91	51	128207	5.218	ppbV	96
3) propylene	3.94	41	85176M6	3.947	ppbV	
4) propane	3.96	29	111461	5.366	ppbV #	82
5) dichlorodifluoromethane	4.02	85	133605	5.447	ppbV	99
6) chloromethane	4.20	50	70484	3.876	ppbV	95
7) Freon-114	4.34	85	174140	4.541	ppbV	94
8) methanol	4.40	31	205251	26.502	ppbV	98
9) vinyl chloride	4.47	62	97851	4.472	ppbV	97
10) 1,3-butadiene	4.64	54	74806	4.657	ppbV	81
11) butane	4.70	43	123134	3.083	ppbV #	91
12) acetaldehyde	4.35	29	255099	24.303	ppbV #	66
13) bromomethane	4.96	94	75442	4.598	ppbV	95
14) chloroethane	5.18	64	46596	4.206	ppbV	96
15) ethanol	5.35	31	264910	22.418	ppbV #	67
16) dichlorofluoromethane	5.33	67	107162	4.460	ppbV	100
17) vinyl bromide	5.62	106	67197	4.545	ppbV	95
18) acrolein	5.77	56	37165	4.630	ppbV	100
19) acetone	5.92	43	574926	18.074	ppbV #	84
20) acetonitrile	5.60	41	75565	3.192	ppbV	95
21) trichlorofluoromethane	6.14	101	116422	6.221	ppbV	93
22) isopropyl alcohol	6.25	45	337019	8.328	ppbV #	95
23) acrylonitrile	6.51	53	62609	4.309	ppbV	94
24) pentane	6.60	43	99878M4	2.502	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528225.D
 Acq On : 2 Sep 2021 11:26 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:11:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.63	31	140987	4.910	ppbV	# 88
26) 1,1-dichloroethene	6.92	61	122995	4.888	ppbV	97
27) tertiary butyl alcohol	6.99	59	159320	5.411	ppbV	# 84
28) methylene chloride	7.09	49	81778	3.682	ppbV	93
29) 3-chloropropene	7.23	41	114212	3.161	ppbV	# 84
30) carbon disulfide	7.39	76	204781	3.851	ppbV	98
31) Freon 113	7.43	101	129379	4.470	ppbV	99
32) trans-1,2-dichloroethene	8.23	61	153746	4.785	ppbV	99
33) 1,1-dichloroethane	8.47	63	172312	4.581	ppbV	99
34) MTBE	8.55	73	216027	5.157	ppbV	99
35) vinyl acetate	8.69	43	212184	4.079	ppbV	# 95
36) 2-butanone	8.95	43	217224	4.030	ppbV	# 95
37) cis-1,2-dichloroethene	9.47	61	134887	4.825	ppbV	95
38) Ethyl Acetate	9.78	61	40194	4.633	ppbV	77
39) chloroform	9.83	83	155392	5.420	ppbV	98
40) Tetrahydrofuran	10.28	42	137950	3.863	ppbV	# 88
41) 2,2-dichloropropane	9.85	77	108468	6.307	ppbV	# 82
42) 1,2-dichloroethane	10.69	62	101447	6.011	ppbV	# 90
44) hexane	9.75	57	206721	4.837	ppbV	84
45) diisopropyl ether	9.75	87	92318	5.151	ppbV	72
46) tert-butyl ethyl ether	10.38	59	327795	5.241	ppbV	97
48) 1,1,1-trichloroethane	10.98	97	121688	6.202	ppbV	# 93
49) 1,1-dichloropropene	11.36	75	125988	4.816	ppbV	96
50) benzene	11.52	78	313671	4.451	ppbV	94
51) thiophene	11.67	84	189092	4.921	ppbV	98
52) carbon tetrachloride	11.69	117	102005	6.441	ppbV	100
53) cyclohexane	11.84	56	220172	4.880	ppbV	# 93
54) tert-amyl methyl ether	12.22	73	242606	4.877	ppbV	94
55) dibromomethane	12.44	93	95832	4.965	ppbV	97
56) 1,2-dichloropropane	12.48	63	125253	4.347	ppbV	98
57) bromodichloromethane	12.71	83	170984	5.561	ppbV	96
58) 1,4-dioxane	12.75	88	82946	5.041	ppbV	97
59) trichloroethene	12.76	130	123341	5.027	ppbV	99
60) 2,2,4-trimethylpentane	12.82	57	691937	5.000	ppbV	93
61) methyl methacrylate	13.02	41	173416	3.989	ppbV	# 89
62) heptane	13.14	43	233129	3.924	ppbV	# 86
63) cis-1,3-dichloropropene	13.78	75	145639	4.898	ppbV	95
64) 4-methyl-2-pentanone	13.82	43	267839	3.989	ppbV	# 88
65) trans-1,3-dichloropropene	14.41	75	133135	5.351	ppbV	93
66) 1,1,2-trichloroethane	14.61	97	114226	4.825	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528225.D
 Acq On : 2 Sep 2021 11:26 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:11:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.92	91	381153	4.078	ppbV	96
70) 2-methylthiophene	14.99	97	263130	4.215	ppbV	99
71) 1,3-dichloropropane	14.95	76	160490	4.069	ppbV	90
72) 2-hexanone	15.20	43	263833	3.587	ppbV	89
73) 3-methylthiophene	15.18	97	272101	4.277	ppbV	97
74) dibromochloromethane	15.37	129	157459	4.951	ppbV	99
75) 1,2-dibromoethane	15.61	107	159786	4.091	ppbV	95
76) butyl acetate	15.85	73	41488	4.063	ppbV	80
77) octane	15.95	85	153314	4.420	ppbV #	75
78) tetrachloroethene	16.07	166	140457	4.562	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.71	131	116910	4.987	ppbV	100
80) chlorobenzene	16.73	112	281691	4.209	ppbV	100
81) ethylbenzene	17.07	91	491792	4.545	ppbV	91
82) 2-ethylthiophene	17.11	97	315472	4.500	ppbV	94
83) m+p-xylene	17.23	91	789321	9.164	ppbV	94
84) bromoform	17.30	173	131364	4.991	ppbV	92
85) styrene	17.55	104	296789	4.221	ppbV	97
86) 1,1,2,2-tetrachloroethane	17.63	83	307812	4.330	ppbV	96
87) o-xylene	17.64	91	406374	4.744	ppbV	95
88) 1,2,3-trichloropropane	17.75	75	209144	4.146	ppbV	98
89) nonane	17.83	43	347681	3.594	ppbV #	82
91) isopropylbenzene	18.14	105	466939	4.350	ppbV	98
92) bromobenzene	18.22	77	279083	4.248	ppbV	100
93) 2-chlorotoluene	18.54	126	145474	4.530	ppbV	77
94) n-propylbenzene	18.57	120	170367	4.556	ppbV	96
95) 4-chlorotoluene	18.59	126	143914	4.518	ppbV	97
96) 4-ethyl toluene	18.68	105	536805	4.424	ppbV	98
97) 1,3,5-trimethylbenzene	18.74	105	415623	4.274	ppbV	99
98) tert-butylbenzene	19.07	119	477338	4.698	ppbV	98
99) 1,2,4-trimethylbenzene	19.07	105	420603	4.311	ppbV	89
100) decane	19.15	57	464405	4.245	ppbV	87
101) Benzyl Chloride	19.19	91	316348	5.861	ppbV	97
102) 1,3-dichlorobenzene	19.20	146	273327	4.097	ppbV	97
103) 1,4-dichlorobenzene	19.26	146	265372	4.046	ppbV	96
104) sec-butylbenzene	19.29	105	613946	4.289	ppbV	99
105) 1,2,3-trimethylbenzene	19.41	105	483636	4.417	ppbV	91
106) p-isopropyltoluene	19.41	119	598536	4.853	ppbV	98
107) 1,2-dichlorobenzene	19.54	146	259082	4.144	ppbV	93
108) n-butylbenzene	19.76	91	543393	4.735	ppbV	97
109) indan	19.59	117	581408	4.686	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528225.D
 Acq On : 2 Sep 2021 11:26 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:11:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.66	115	456299	4.539	ppbV	95
111)	1,2-dibromo-3-chloropr...	19.91	75	111727	5.035	ppbV	93
112)	undecane	20.16	57	530696	4.412	ppbV	90
113)	1,2,4,5-tetramethylben...	20.40	119	305946	4.569	ppbV	99
114)	dodecane	21.09	57	580962	4.730	ppbV	85
115)	1,2,4-trichlorobenzene	21.05	180	206988	4.983	ppbV	98
116)	naphthalene	21.17	128	652338	4.894	ppbV	100
117)	1,2,3-trichlorobenzene	21.43	180	210953	5.101	ppbV	96
118)	benzothiophene	21.23	134	924869	4.738	ppbV	99
119)	hexachlorobutadiene	21.49	225	174640	5.219	ppbV	95
120)	2-methylnaphthalene	22.32	142	131392	3.853	ppbV	97
121)	1-methylnaphthalene	22.52	142	264445	4.256	ppbV	98

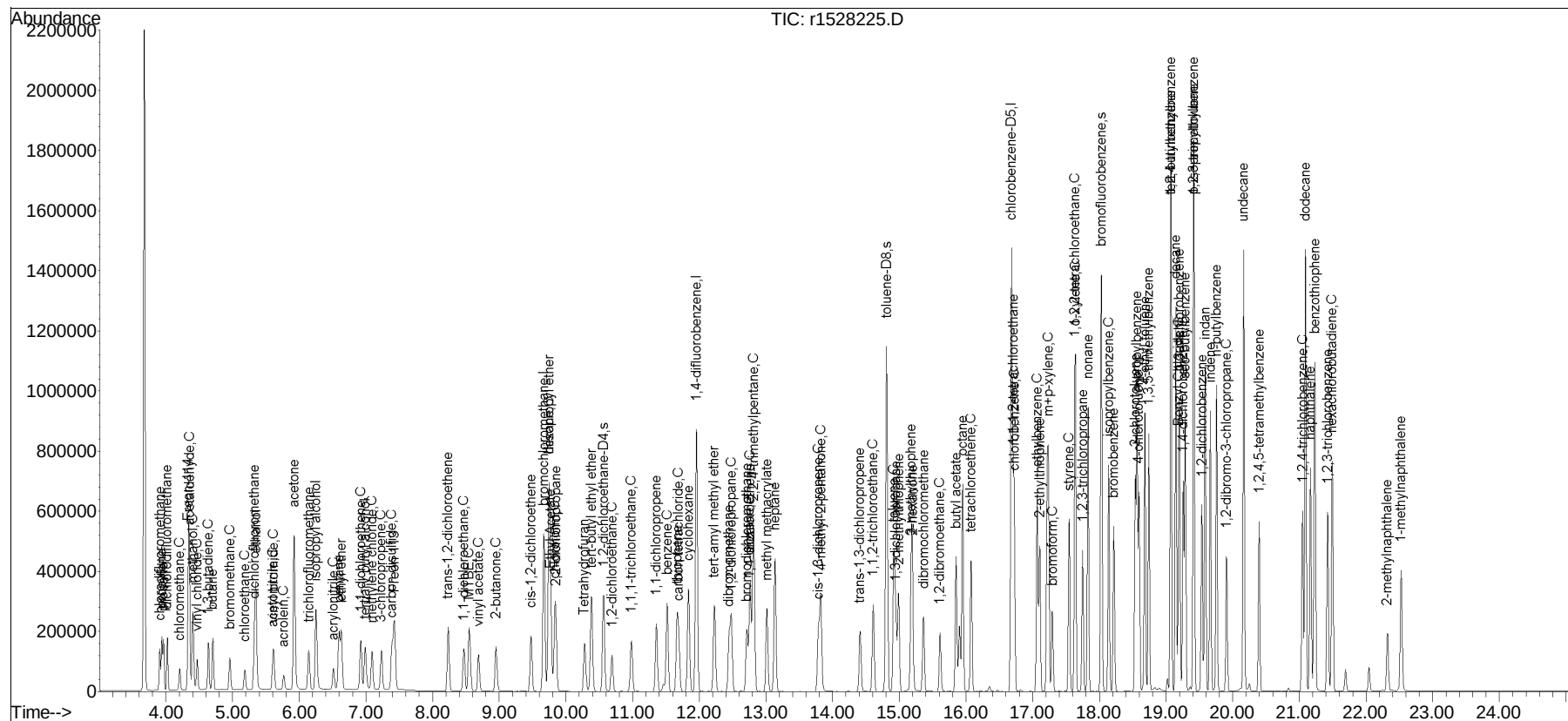
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : 0:\Forensics\Data\AirLab15\2021\09\0902T_I\
Data File : r1528225.D
Acq On    : 2 Sep 2021 11:26 PM
Operator  : AIRLAB15:RY
Sample    : IT015-SIMSTD5.0
Misc      : WG1542862
ALS Vial  : 0 Sample Multiplier: 1
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Quant Time: Sep 03 14:11:51 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0902T_I\TFS15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Aug 23 07:10:13 2021
Response via : Initial Calibration

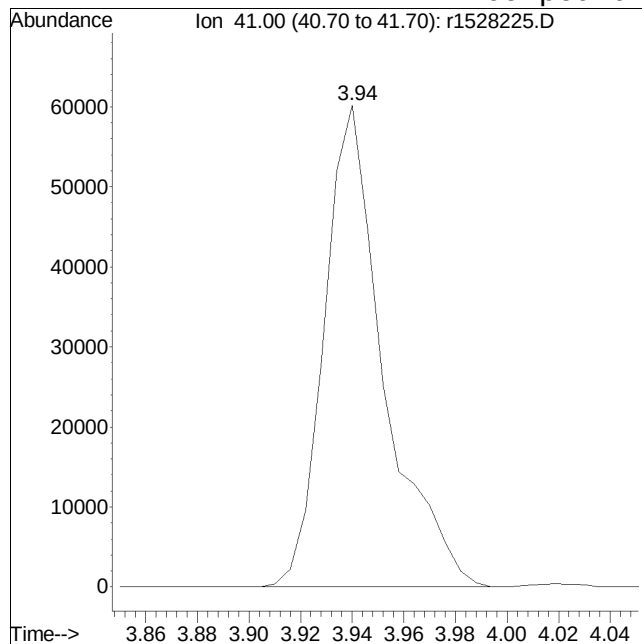
Sub List : Default - All compounds listed1\09\0902T_I\r1528226.D



Manual Integration/Negative Proof Report

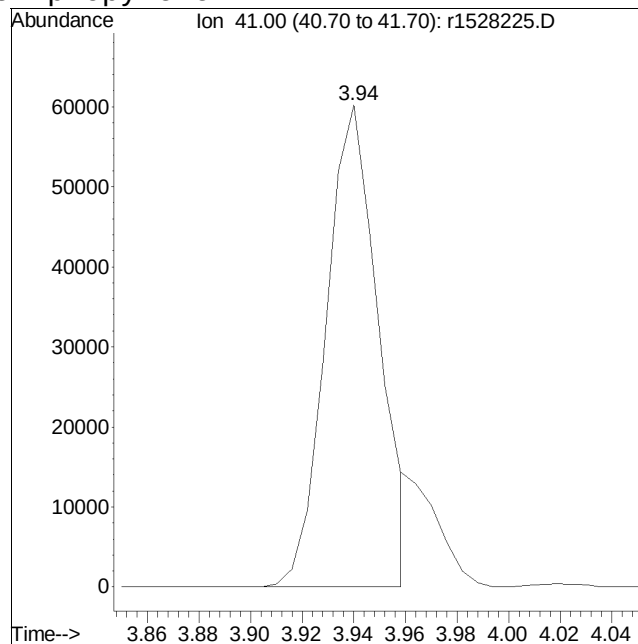
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TFS15_210902.M
Data File : r1528225.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:1: 6 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 9/3/2021 5:46 am

Compound #3: propylene



Original Peak Response = 96413

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

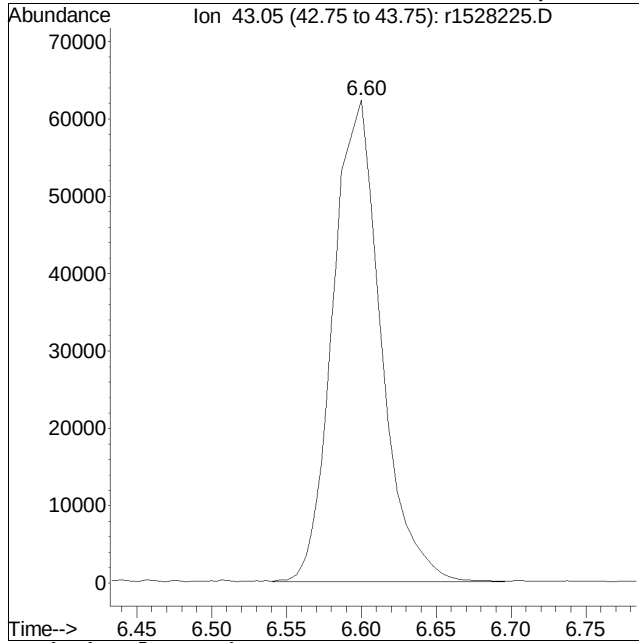


Manual Peak Response = 85176 M6

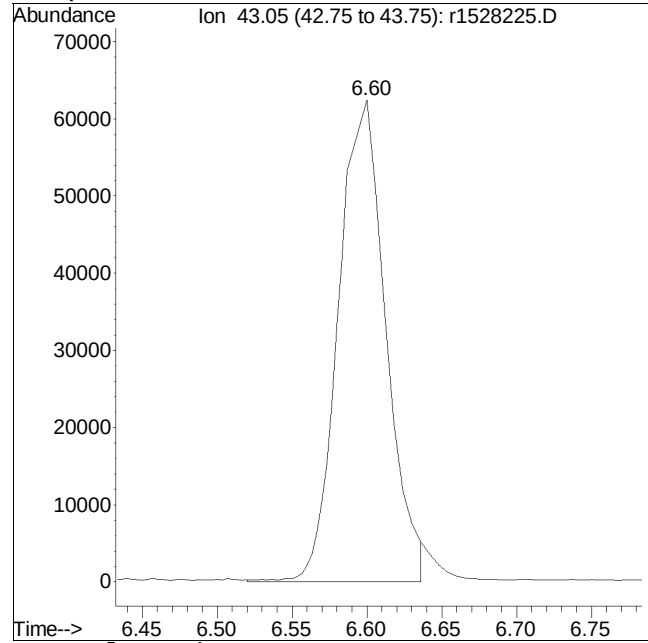
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528225.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:1: 6 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 9/3/2021 5:46 am

Compound #24: pentane



Original Peak Response = 117421



Manual Peak Response = 99878 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528226.D
 Acq On : 3 Sep 2021 12:07 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD010
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:03:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.68	49	356116	10.000	ppbV	0.00
Standard Area = 356116			Recovery =	100.00%		
43) 1,4-difluorobenzene	11.96	114	841922	10.000	ppbV	0.00
Standard Area = 841922			Recovery =	100.00%		
67) chlorobenzene-D5	16.68	54	177986	10.000	ppbV	0.00
Standard Area = 177986			Recovery =	100.00%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.57	65	232603	12.081	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	120.81%		
69) toluene-D8	14.81	98	892791	9.042	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	90.42%		
90) bromofluorobenzene	18.03	95	637800	9.631	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.31%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.91	51	249194	10.181	ppbV #	95
3) propylene	3.94	41	162872M6	7.576	ppbV	
4) propane	3.97	29	215725	10.427	ppbV #	83
5) dichlorodifluoromethane	4.02	85	266231	10.897	ppbV	100
6) chloromethane	4.21	50	130968	7.231	ppbV	95
7) Freon-114	4.34	85	329836	8.635	ppbV	95
8) methanol	4.41	31	385303	49.946	ppbV	98
9) vinyl chloride	4.47	62	192364	8.826	ppbV	97
10) 1,3-butadiene	4.64	54	143952	8.996	ppbV	84
11) butane	4.71	43	238913	6.005	ppbV #	92
12) acetaldehyde	4.35	29	468370	44.798	ppbV #	69
13) bromomethane	4.96	94	148284	9.074	ppbV	96
14) chloroethane	5.19	64	92213	8.357	ppbV	97
15) ethanol	5.35	31	619294	52.615	ppbV #	68
16) dichlorofluoromethane	5.33	67	181025	7.564	ppbV	99
17) vinyl bromide	5.62	106	134176	9.112	ppbV	96
18) acrolein	5.77	56	72868	9.113	ppbV	100
19) acetone	5.92	43	1119642	35.338	ppbV #	84
20) acetonitrile	5.61	41	148182	6.284	ppbV	93
21) trichlorofluoromethane	6.14	101	225250	12.083	ppbV	95
22) isopropyl alcohol	6.26	45	652771	16.194	ppbV #	95
23) acrylonitrile	6.52	53	120706	8.340	ppbV	99
24) pentane	6.60	43	196310M4	4.937	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528226.D
 Acq On : 3 Sep 2021 12:07 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD010
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:03:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) ethyl ether	6.63	31	264008	9.230	ppbV	#	88
26) 1,1-dichloroethene	6.92	61	241225	9.624	ppbV		96
27) tertiary butyl alcohol	6.99	59	314645	10.729	ppbV	#	82
28) methylene chloride	7.09	49	223485	10.102	ppbV		96
29) 3-chloropropene	7.24	41	287143	7.978	ppbV	#	85
30) carbon disulfide	7.39	76	534631	10.094	ppbV		98
31) Freon 113	7.43	101	289639	10.047	ppbV		96
32) trans-1,2-dichloroethene	8.23	61	311043	9.718	ppbV		99
33) 1,1-dichloroethane	8.47	63	349768	9.336	ppbV		100
34) MTBE	8.55	73	430692	10.322	ppbV		98
35) vinyl acetate	8.69	43	430849	8.316	ppbV	#	94
36) 2-butanone	8.95	43	433996	8.083	ppbV	#	95
37) cis-1,2-dichloroethene	9.47	61	271845	9.763	ppbV		98
38) Ethyl Acetate	9.78	61	81165	9.392	ppbV		76
39) chloroform	9.83	83	304159	10.651	ppbV		98
40) Tetrahydrofuran	10.28	42	277936	7.815	ppbV		91
41) 2,2-dichloropropane	9.85	77	213142	12.443	ppbV	#	84
42) 1,2-dichloroethane	10.69	62	199238	11.853	ppbV	#	90
44) hexane	9.75	57	411261	9.717	ppbV		85
45) diisopropyl ether	9.75	87	181929	10.250	ppbV		71
46) tert-butyl ethyl ether	10.38	59	654779	10.570	ppbV		97
48) 1,1,1-trichloroethane	10.98	97	238208	12.259	ppbV		95
49) 1,1-dichloropropene	11.36	75	247454	9.551	ppbV		95
50) benzene	11.52	78	619404	8.874	ppbV		95
51) thiophene	11.67	84	376025	9.880	ppbV		96
52) carbon tetrachloride	11.70	117	202214	12.892	ppbV		95
53) cyclohexane	11.84	56	439749	9.842	ppbV	#	92
54) tert-amyl methyl ether	12.22	73	487782	9.901	ppbV		93
55) dibromomethane	12.45	93	190893	9.986	ppbV		98
56) 1,2-dichloropropane	12.48	63	250396	8.774	ppbV		99
57) bromodichloromethane	12.72	83	339868	11.160	ppbV		97
58) 1,4-dioxane	12.75	88	165765	10.172	ppbV		98
59) trichloroethene	12.76	130	247927	10.204	ppbV		99
60) 2,2,4-trimethylpentane	12.82	57	1343233	9.801	ppbV		93
61) methyl methacrylate	13.02	41	347910	8.080	ppbV	#	88
62) heptane	13.14	43	462095	7.853	ppbV	#	86
63) cis-1,3-dichloropropene	13.78	75	293626	9.971	ppbV		95
64) 4-methyl-2-pentanone	13.82	43	531794	7.997	ppbV	#	88
65) trans-1,3-dichloropropene	14.41	75	266549	10.816	ppbV		94
66) 1,1,2-trichloroethane	14.61	97	228422	9.742	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528226.D
 Acq On : 3 Sep 2021 12:07 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD010
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:03:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.92	91	770144	8.402	ppbV	99
70) 2-methylthiophene	14.99	97	532769	8.703	ppbV	98
71) 1,3-dichloropropane	14.95	76	317633	8.212	ppbV	91
72) 2-hexanone	15.19	43	516336	7.158	ppbV #	83
73) 3-methylthiophene	15.18	97	547067	8.769	ppbV	98
74) dibromochloromethane	15.37	129	317927	10.194	ppbV	98
75) 1,2-dibromoethane	15.61	107	320540	8.370	ppbV	98
76) butyl acetate	15.85	73	84446	8.435	ppbV	80
77) octane	15.95	85	303761	8.932	ppbV #	72
78) tetrachloroethene	16.07	166	275711	9.133	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.71	131	238068	10.357	ppbV	95
80) chlorobenzene	16.73	112	554910	8.456	ppbV	98
81) ethylbenzene	17.07	91	983614	9.270	ppbV	92
82) 2-ethylthiophene	17.11	97	631736	9.190	ppbV	94
83) m+p-xylene	17.23	91	1592285	18.854	ppbV	91
84) bromoform	17.29	173	281758	10.917	ppbV	94
85) styrene	17.55	104	592803	8.598	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.63	83	613902	8.806	ppbV	98
87) o-xylene	17.64	91	800558	9.532	ppbV	93
88) 1,2,3-trichloropropane	17.75	75	416959	8.430	ppbV	99
89) nonane	17.83	43	675866	7.124	ppbV #	82
91) isopropylbenzene	18.14	105	908981	8.636	ppbV	98
92) bromobenzene	18.22	77	553961	8.600	ppbV	95
93) 2-chlorotoluene	18.54	126	292570	9.292	ppbV	78
94) n-propylbenzene	18.57	120	332139	9.058	ppbV	94
95) 4-chlorotoluene	18.59	126	290709	9.307	ppbV	97
96) 4-ethyl toluene	18.68	105	1070981	9.002	ppbV	99
97) 1,3,5-trimethylbenzene	18.74	105	804955	8.442	ppbV	99
98) tert-butylbenzene	19.07	119	926426	9.298	ppbV	97
99) 1,2,4-trimethylbenzene	19.07	105	837292	8.753	ppbV	94
100) decane	19.15	57	926004	8.631	ppbV	85
101) Benzyl Chloride	19.19	91	678355	12.816	ppbV	98
102) 1,3-dichlorobenzene	19.20	146	555492	8.492	ppbV	98
103) 1,4-dichlorobenzene	19.26	146	544889	8.473	ppbV	98
104) sec-butylbenzene	19.29	105	1203998	8.577	ppbV	99
105) 1,2,3-trimethylbenzene	19.41	105	940086	8.755	ppbV	93
106) p-isopropyltoluene	19.41	119	1167542	9.653	ppbV	98
107) 1,2-dichlorobenzene	19.53	146	526176	8.582	ppbV	98
108) n-butylbenzene	19.76	91	1086472	9.655	ppbV	100
109) indan	19.59	117	1142172	9.388	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528226.D
 Acq On : 3 Sep 2021 12:07 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD010
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:03:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.66	115	909728	9.229	ppbV	96
111)	1,2-dibromo-3-chloropr...	19.91	75	225148	10.348	ppbV	93
112)	undecane	20.16	57	1058857	8.978	ppbV	88
113)	1,2,4,5-tetramethylben...	20.40	119	609618	9.285	ppbV	97
114)	dodecane	21.09	57	1149766	9.546	ppbV	84
115)	1,2,4-trichlorobenzene	21.05	180	429392	10.541	ppbV	99
116)	naphthalene	21.17	128	1340343	10.255	ppbV	100
117)	1,2,3-trichlorobenzene	21.43	180	427851	10.550	ppbV	96
118)	benzothiophene	21.23	134	1928365	10.075	ppbV	99
119)	hexachlorobutadiene	21.49	225	353255	10.766	ppbV	98
120)	2-methylnaphthalene	22.32	142	282535	8.449	ppbV	98
121)	1-methylnaphthalene	22.52	142	540973	8.879	ppbV	99

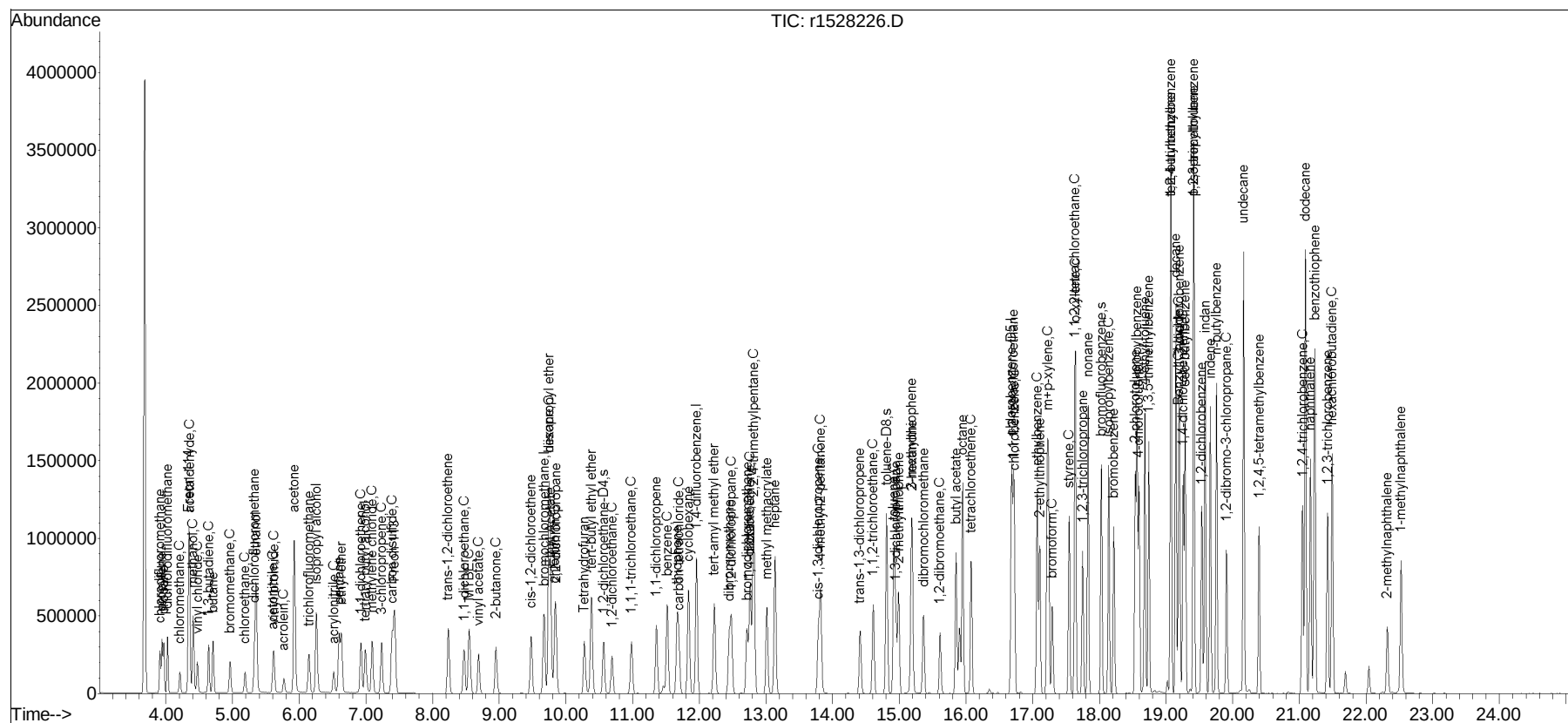
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path   : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
Data File  : r1528226.D
Acq On     : 3 Sep 2021 12:07 AM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD010
Misc       : WG1542862
ALS Vial   : 0 Sample Multiplier: 1
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Quant Time: Sep 03 14:03:51 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0902T_I\TFS15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Aug 23 07:10:13 2021
Response via : Initial Calibration

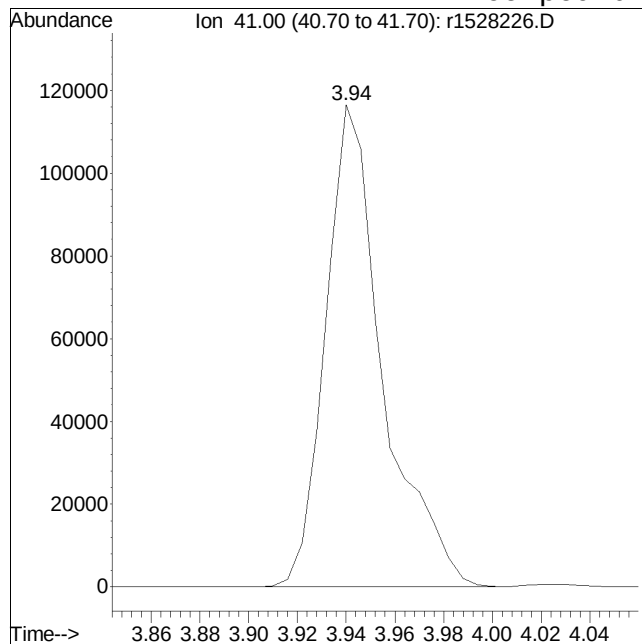
Sub List : Default - All compounds listed1\09\0902T_I\r1528226.D



Manual Integration/Negative Proof Report

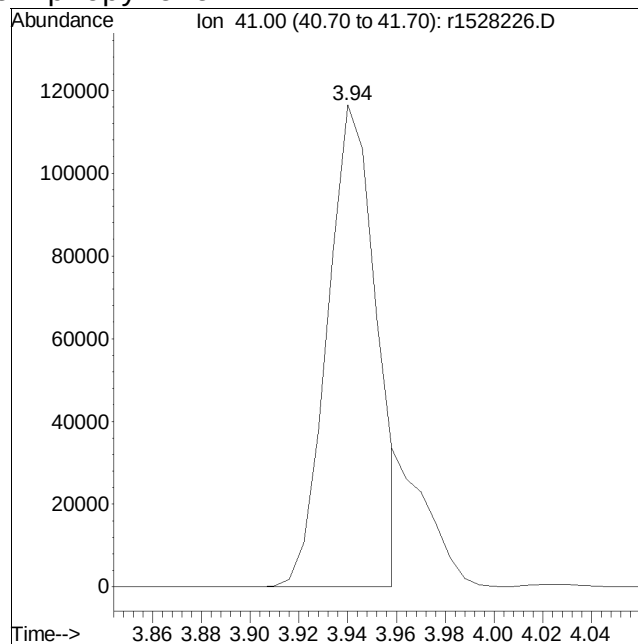
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528226.D Operator : AIRLAB15:RY
Date Inj'd : 9/3/2020 0:2: 7 Instrument :
Sample : IT015-SIMSTD010 Quant Date : 9/3/2021 5:42 am

Compound #3: propylene



Original Peak Response = 189689

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

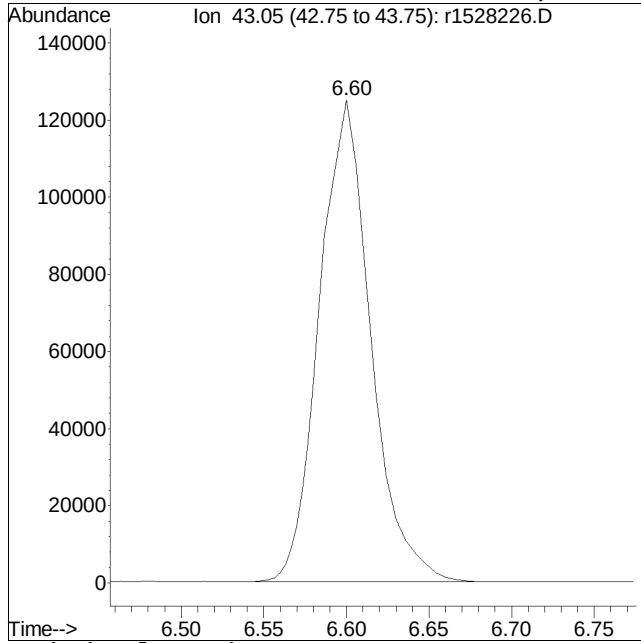


Manual Peak Response = 162872 M6

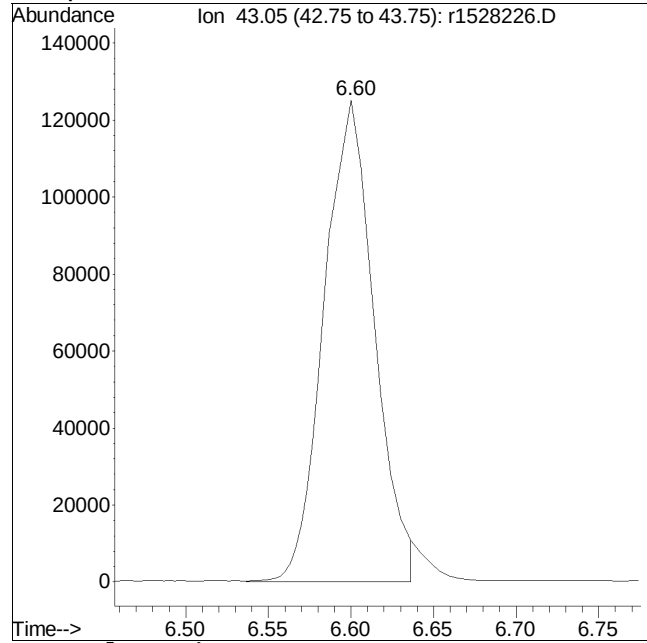
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528226.D Operator : AIRLAB15:RY
Date Inj'd : 9/3/2020 0:2: 7 Instrument :
Sample : IT015-SIMSTD010 Quant Date : 9/3/2021 5:42 am

Compound #24: pentane



Original Peak Response = 219971



Manual Peak Response = 196310 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528227.D
 Acq On : 3 Sep 2021 12:44 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD020
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:13:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.67	49	354165	10.000	ppbV	0.00
Standard Area = 356116			Recovery =		99.45%	
43) 1,4-difluorobenzene	11.96	114	829759	10.000	ppbV	0.00
Standard Area = 841922			Recovery =		98.56%	
67) chlorobenzene-D5	16.68	54	172548	10.000	ppbV	0.00
Standard Area = 177986			Recovery =		96.94%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.56	65	223500	11.778	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		117.78%	
69) toluene-D8	14.81	98	896632	9.368	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		93.68%	
90) bromofluorobenzene	18.03	95	646056	10.063	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.63%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.90	51	465157	19.110	ppbV #	95
3) propylene	3.93	41	323276M6	15.121	ppbV	
4) propane	3.96	29	398889	19.386	ppbV #	85
5) dichlorodifluoromethane	4.02	85	479623	19.739	ppbV	100
6) chloromethane	4.20	50	258458	14.349	ppbV	96
7) Freon-114	4.34	85	618683	16.287	ppbV	90
8) methanol	4.40	31	735539	95.871	ppbV	98
9) vinyl chloride	4.47	62	376349	17.363	ppbV	97
10) 1,3-butadiene	4.64	54	277572	17.443	ppbV	83
11) butane	4.70	43	464860	11.749	ppbV #	92
12) acetaldehyde	4.35	29	866819	83.364	ppbV #	70
13) bromomethane	4.96	94	284767	17.521	ppbV	96
14) chloroethane	5.18	64	177255	16.153	ppbV	97
15) ethanol	5.35	31	882201	75.365	ppbV #	70
16) dichlorofluoromethane	5.33	67	373431	15.690	ppbV	100
17) vinyl bromide	5.62	106	255331	17.435	ppbV	95
18) acrolein	5.76	56	137939	17.346	ppbV	98
19) acetone	5.92	43	2096376	66.530	ppbV #	86
20) acetonitrile	5.60	41	283428	12.086	ppbV	95
21) trichlorofluoromethane	6.14	101	425888	22.972	ppbV	97
22) isopropyl alcohol	6.25	45	1247621	31.122	ppbV #	95
23) acrylonitrile	6.51	53	231274	16.067	ppbV	96
24) pentane	6.60	43	379638M6	9.601	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528227.D
 Acq On : 3 Sep 2021 12:44 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD020
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:13:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) ethyl ether	6.62	31	476315	16.744	ppbV	#	89
26) 1,1-dichloroethene	6.92	61	459920	18.450	ppbV		95
27) tertiary butyl alcohol	6.98	59	592114	20.302	ppbV	#	83
28) methylene chloride	7.09	49	303651	13.801	ppbV		91
29) 3-chloropropene	7.23	41	432172	12.074	ppbV	#	83
30) carbon disulfide	7.39	76	781143	14.829	ppbV		97
31) Freon 113	7.42	101	494898	17.261	ppbV		98
32) trans-1,2-dichloroethene	8.23	61	589911	18.532	ppbV		99
33) 1,1-dichloroethane	8.47	63	675666	18.134	ppbV		99
34) MTBE	8.54	73	823292	19.840	ppbV		98
35) vinyl acetate	8.69	43	831777	16.143	ppbV	#	95
36) 2-butanone	8.95	43	802747	15.034	ppbV	#	94
37) cis-1,2-dichloroethene	9.47	61	521631	18.837	ppbV		94
38) Ethyl Acetate	9.78	61	152884	17.788	ppbV		68
39) chloroform	9.83	83	560446	19.734	ppbV		99
40) Tetrahydrofuran	10.28	42	523789	14.808	ppbV		91
41) 2,2-dichloropropane	9.85	77	398139	23.371	ppbV	#	83
42) 1,2-dichloroethane	10.69	62	373995	22.371	ppbV	#	91
44) hexane	9.74	57	768645	18.427	ppbV	#	69
45) diisopropyl ether	9.75	87	340808	19.483	ppbV	#	67
46) tert-butyl ethyl ether	10.38	59	1230646	20.158	ppbV		97
48) 1,1,1-trichloroethane	10.98	97	450183	23.508	ppbV	#	93
49) 1,1-dichloropropene	11.36	75	465871	18.245	ppbV		96
50) benzene	11.52	78	1157897	16.832	ppbV		96
51) thiophene	11.66	84	704181	18.773	ppbV		95
52) carbon tetrachloride	11.69	117	380767	24.631	ppbV		97
53) cyclohexane	11.84	56	833588	18.929	ppbV	#	93
54) tert-amyl methyl ether	12.22	73	935169	19.261	ppbV		94
55) dibromomethane	12.45	93	366586	19.458	ppbV		98
56) 1,2-dichloropropane	12.48	63	478191	17.001	ppbV		99
57) bromodichloromethane	12.72	83	636835	21.218	ppbV		97
58) 1,4-dioxane	12.74	88	311938	19.423	ppbV		99
59) trichloroethene	12.76	130	474774	19.826	ppbV		98
60) 2,2,4-trimethylpentane	12.82	57	2502592	18.528	ppbV		92
61) methyl methacrylate	13.01	41	659129	15.532	ppbV	#	87
62) heptane	13.14	43	848707	14.634	ppbV	#	83
63) cis-1,3-dichloropropene	13.78	75	560431	19.311	ppbV		95
64) 4-methyl-2-pentanone	13.82	43	991698	15.131	ppbV	#	86
65) trans-1,3-dichloropropene	14.41	75	508319	20.930	ppbV		94
66) 1,1,2-trichloroethane	14.61	97	441537	19.107	ppbV		93

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528227.D
 Acq On : 3 Sep 2021 12:44 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD020
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:13:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.92	91	1459017	16.420	ppbV	99
70) 2-methylthiophene	14.99	97	1026174	17.291	ppbV	96
71) 1,3-dichloropropane	14.95	76	589129	15.712	ppbV	90
72) 2-hexanone	15.19	43	949832	13.583	ppbV #	82
73) 3-methylthiophene	15.18	97	1061201	17.546	ppbV #	98
74) dibromochloromethane	15.36	129	612692	20.264	ppbV	98
75) 1,2-dibromoethane	15.61	107	606583	16.339	ppbV	98
76) butyl acetate	15.85	73	158806	16.362	ppbV	79
77) octane	15.95	85	560160	16.990	ppbV #	76
78) tetrachloroethene	16.07	166	527066	18.010	ppbV	95
79) 1,1,1,2-tetrachloroethane	16.71	131	446714	20.047	ppbV	97
80) chlorobenzene	16.73	112	1035212	16.272	ppbV	99
81) ethylbenzene	17.07	91	1873189	18.211	ppbV	92
82) 2-ethylthiophene	17.11	97	1211160	18.175	ppbV	93
83) m+p-xylene	17.23	91	2985101	36.459	ppbV	93
84) bromoform	17.29	173	536973	21.462	ppbV	96
85) styrene	17.55	104	1133690	16.962	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.63	83	1118402	16.549	ppbV	96
87) o-xylene	17.64	91	1493650	18.344	ppbV	95
88) 1,2,3-trichloropropane	17.75	75	766728	15.990	ppbV	98
89) nonane	17.83	43	1247205	13.561	ppbV #	79
91) isopropylbenzene	18.14	105	1714985	16.807	ppbV	97
92) bromobenzene	18.22	77	1014017	16.238	ppbV	93
93) 2-chlorotoluene	18.54	126	558763	18.305	ppbV	83
94) n-propylbenzene	18.57	120	633699	17.827	ppbV	99
95) 4-chlorotoluene	18.59	126	545434	18.012	ppbV	99
96) 4-ethyl toluene	18.68	105	1956332	16.962	ppbV	96
97) 1,3,5-trimethylbenzene	18.74	105	1709165	18.490	ppbV	99
98) tert-butylbenzene	19.07	119	1666287	17.250	ppbV	94
99) 1,2,4-trimethylbenzene	19.07	105	1530985	16.509	ppbV	94
100) decane	19.15	57	1711920	16.460	ppbV #	82
101) Benzyl Chloride	19.19	91	1354327	26.394	ppbV	99
102) 1,3-dichlorobenzene	19.21	146	1050259	16.562	ppbV	95
103) 1,4-dichlorobenzene	19.26	146	1033763	16.581	ppbV	99
104) sec-butylbenzene	19.29	105	2217962	16.298	ppbV	97
105) 1,2,3-trimethylbenzene	19.42	105	1714081	16.466	ppbV	100
106) p-isopropyltoluene	19.41	119	2076100	17.707	ppbV	98
107) 1,2-dichlorobenzene	19.54	146	981819	16.519	ppbV	97
108) n-butylbenzene	19.76	91	1988713	18.231	ppbV	97
109) indan	19.59	117	2059509	17.461	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528227.D
 Acq On : 3 Sep 2021 12:44 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD020
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:13:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.66	115	1660769	17.379	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.91	75	406819	19.288	ppbV	91
112) undecane	20.16	57	1906668	16.676	ppbV	87
113) 1,2,4,5-tetramethylben...	20.40	119	1150856	18.081	ppbV	97
114) dodecane	21.09	57	1904596	16.312	ppbV	82
115) 1,2,4-trichlorobenzene	21.05	180	778686	19.719	ppbV	98
116) naphthalene	21.17	128	2294742	18.110	ppbV	99
117) 1,2,3-trichlorobenzene	21.43	180	725923	18.464	ppbV	94
118) benzothiophene	21.23	134	3513242	18.933	ppbV	99
119) hexachlorobutadiene	21.49	225	597388	18.780	ppbV	98
120) 2-methylnaphthalene	22.32	142	514309	15.865	ppbV	98
121) 1-methylnaphthalene	22.52	142	954747	16.164	ppbV	99

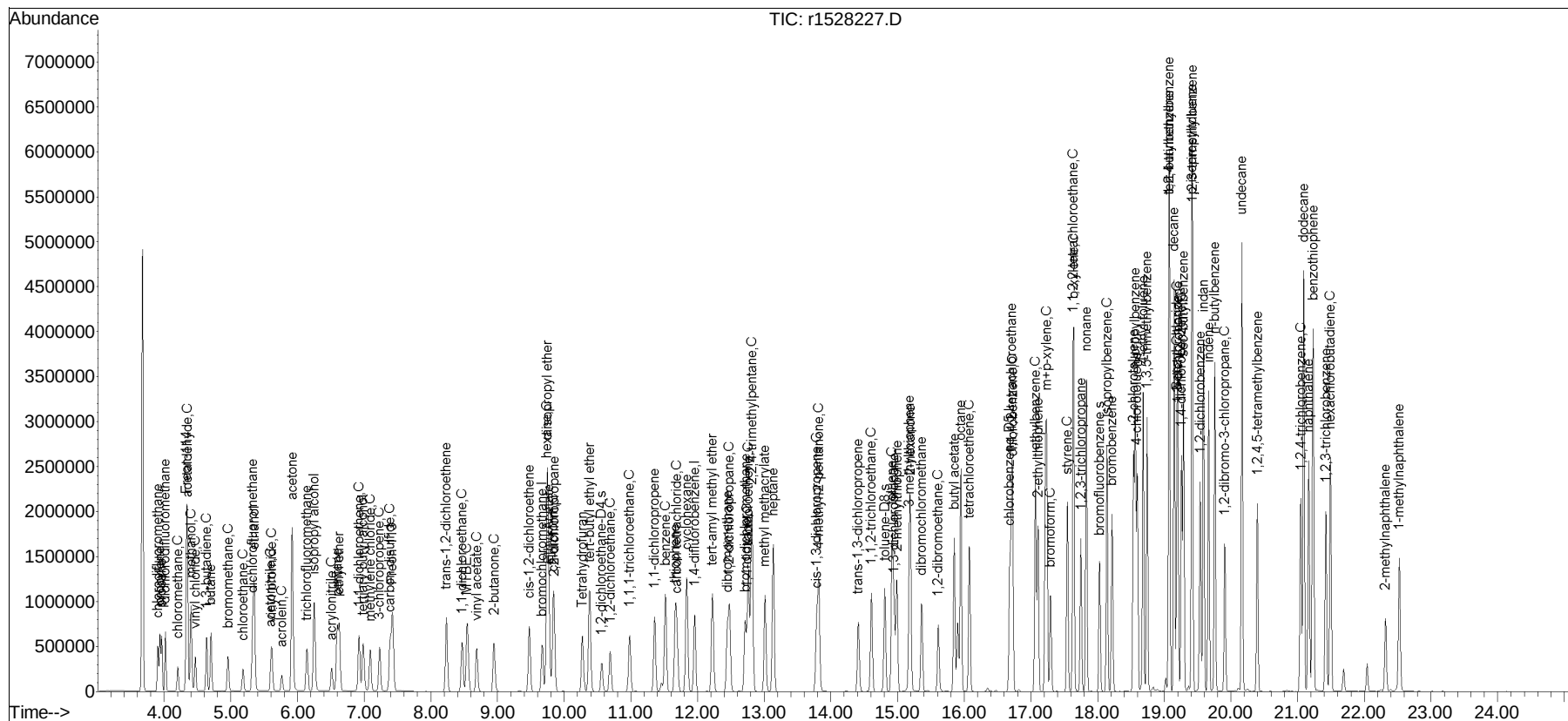
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
Data File  : r1528227.D
Acq On     : 3 Sep 2021 12:44 AM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD020
Misc       : WG1542862
ALS Vial   : 0 Sample Multiplier: 1
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Quant Time: Sep 03 14:13:51 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Aug 23 07:10:13 2021
Response via : Initial Calibration

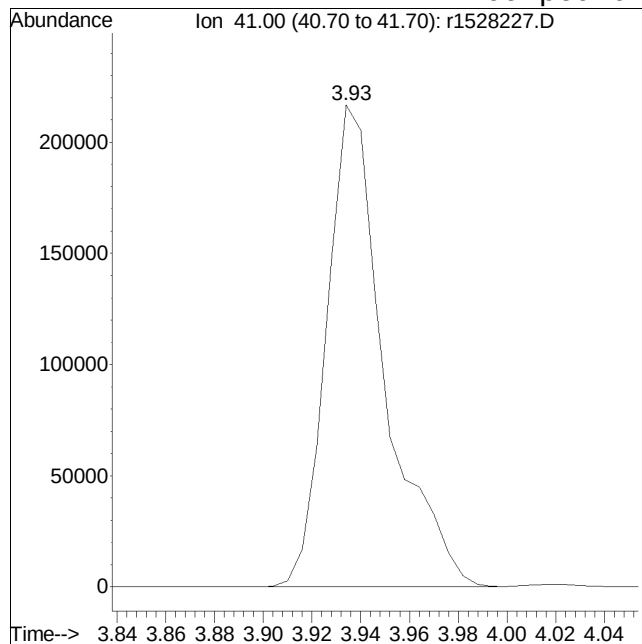
Sub List : Default - All compounds listed1\09\0902T_I\r1528226.D



Manual Integration/Negative Proof Report

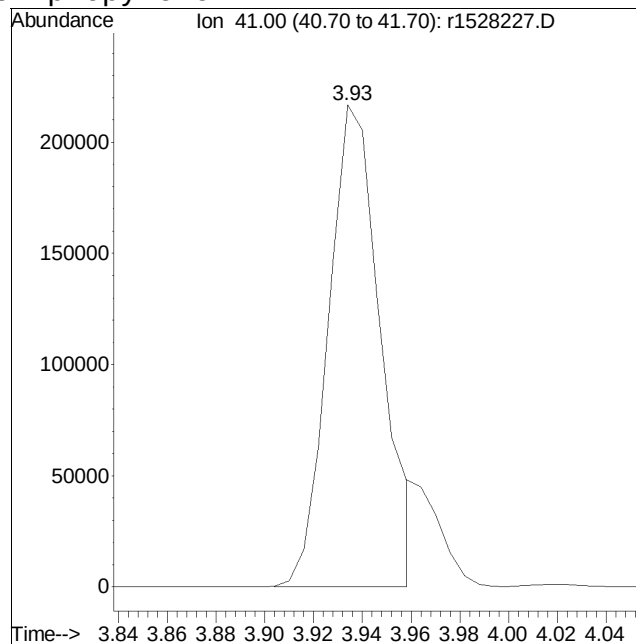
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TFS15_210902.M
Data File : r1528227.D Operator : AIRLAB15:RY
Date Inj'd : 9/3/2020 0:2: 4 Instrument :
Sample : IT015-SIMSTD020 Quant Date : 9/3/2021 5:46 am

Compound #3: propylene



Original Peak Response = 359283

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

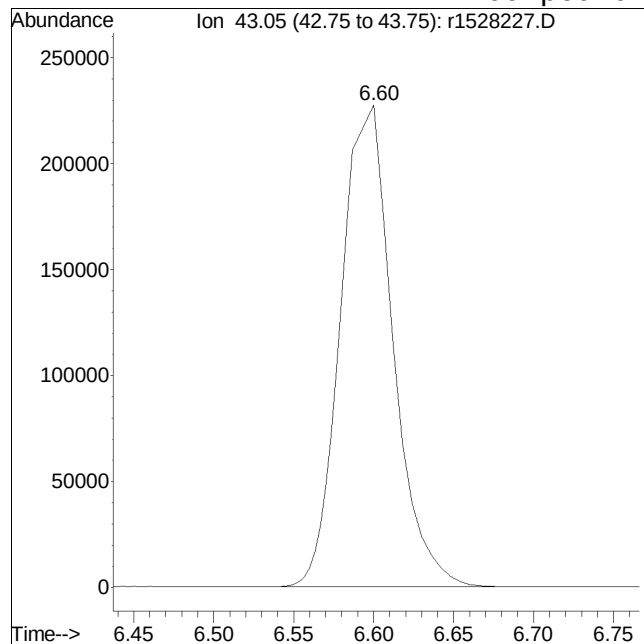


Manual Peak Response = 323276 M6

Manual Integration/Negative Proof Report

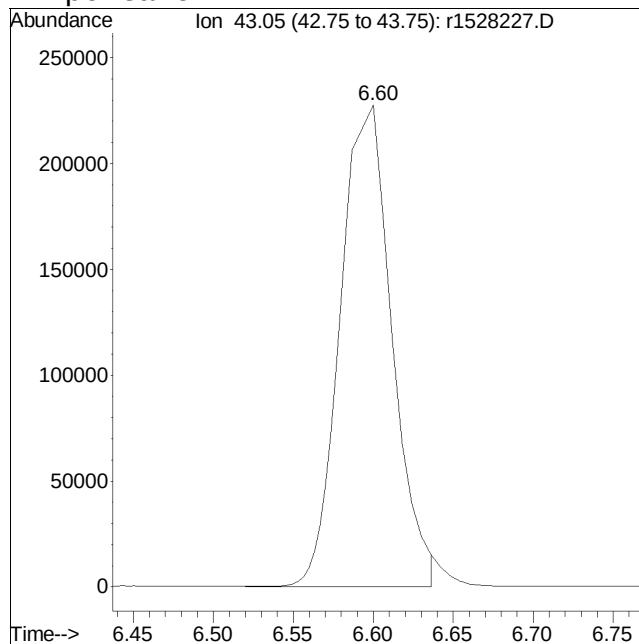
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528227.D Operator : AIRLAB15:RY
Date Inj'd : 9/3/2020 0:2: 4 Instrument :
Sample : IT015-SIMSTD020 Quant Date : 9/3/2021 5:46 am

Compound #24: pentane



Original Peak Response = 432239

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 379638 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528228.D
 Acq On : 3 Sep 2021 1:23 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD050
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:15:55 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.68	49	349869	10.000	ppbV	0.00
Standard Area = 356116			Recovery =		98.25%	
43) 1,4-difluorobenzene	11.96	114	831273	10.000	ppbV	0.00
Standard Area = 841922			Recovery =		98.74%	
67) chlorobenzene-D5	16.68	54	169003	10.000	ppbV	0.00
Standard Area = 177986			Recovery =		94.95%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.57	65	221037	11.627	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		116.27%	
69) toluene-D8	14.81	98	905066	9.654	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.54%	
90) bromofluorobenzene	18.03	95	668775	10.635	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		106.35%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.90	51	1113224	46.295	ppbV #	95
3) propylene	3.93	41	765550M4	36.247	ppbV	
4) propane	3.96	29	949029	46.688	ppbV #	85
5) dichlorodifluoromethane	4.02	85	1123239	46.795	ppbV	99
6) chloromethane	4.20	50	633565	35.605	ppbV	97
7) Freon-114	4.33	85	1352122	36.032	ppbV #	88
8) methanol	4.40	31	1741040	229.716	ppbV	98
9) vinyl chloride	4.46	62	927866	43.334	ppbV	96
10) 1,3-butadiene	4.64	54	650790	41.398	ppbV	88
11) butane	4.70	43	1130880	28.933	ppbV #	90
12) acetaldehyde	4.34	29	1819803	177.164	ppbV #	77
13) bromomethane	4.95	94	683064	42.543	ppbV	98
14) chloroethane	5.18	64	447157	41.250	ppbV	97
15) ethanol	5.35	31	2214898	191.538	ppbV #	74
16) dichlorofluoromethane	5.32	67	992304	42.204	ppbV	99
17) vinyl bromide	5.61	106	634836	43.882	ppbV	99
18) acrolein	5.76	56	331595	42.210	ppbV	98
19) acetone	5.92	43	4851177	155.845	ppbV #	91
20) acetonitrile	5.60	41	703304	30.359	ppbV	93
21) trichlorofluoromethane	6.14	101	1029944	56.236	ppbV	93
22) isopropyl alcohol	6.25	45	2942158	74.293	ppbV #	96
23) acrylonitrile	6.51	53	553854	38.950	ppbV	98
24) pentane	6.59	43	940988M4	24.089	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528228.D
 Acq On : 3 Sep 2021 1:23 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD050
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:15:55 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) ethyl ether	6.62	31	1094444	38.946	ppbV	#	90
26) 1,1-dichloroethene	6.92	61	1100341	44.683	ppbV		96
27) tertiary butyl alcohol	6.98	59	1425844	49.488	ppbV	#	83
28) methylene chloride	7.09	49	713200	32.813	ppbV		91
29) 3-chloropropene	7.23	41	1066093	30.150	ppbV	#	84
30) carbon disulfide	7.39	76	1876099	36.054	ppbV		96
31) Freon 113	7.42	101	1197963	42.295	ppbV		97
32) trans-1,2-dichloroethene	8.23	61	1454696	46.261	ppbV		96
33) 1,1-dichloroethane	8.47	63	1669819	45.365	ppbV		100
34) MTBE	8.54	73	1979588	48.292	ppbV		97
35) vinyl acetate	8.69	43	2057870	40.430	ppbV	#	94
36) 2-butanone	8.95	43	1976155	37.463	ppbV	#	93
37) cis-1,2-dichloroethene	9.47	61	1283647	46.924	ppbV		93
38) Ethyl Acetate	9.78	61	385519	45.406	ppbV	#	61
39) chloroform	9.84	83	1311857	46.760	ppbV		99
40) Tetrahydrofuran	10.27	42	1286818	36.826	ppbV	#	89
41) 2,2-dichloropropane	9.85	77	944305	56.113	ppbV	#	83
42) 1,2-dichloroethane	10.69	62	910728	55.146	ppbV	#	90
44) hexane	9.74	57	1807274	43.248	ppbV	#	61
45) diisopropyl ether	9.75	87	798307	45.553	ppbV	#	59
46) tert-butyl ethyl ether	10.38	59	2996040	48.985	ppbV		98
48) 1,1,1-trichloroethane	10.98	97	1106381	57.668	ppbV	#	91
49) 1,1-dichloropropene	11.36	75	1123920	43.936	ppbV		96
50) benzene	11.52	78	2743944	39.816	ppbV		95
51) thiophene	11.67	84	1702243	45.298	ppbV		95
52) carbon tetrachloride	11.69	117	928180	59.933	ppbV		99
53) cyclohexane	11.84	56	2017395	45.727	ppbV	#	92
54) tert-amyl methyl ether	12.22	73	2269346	46.654	ppbV		93
55) dibromomethane	12.45	93	900286	47.700	ppbV		97
56) 1,2-dichloropropane	12.48	63	1181618	41.933	ppbV		99
57) bromodichloromethane	12.72	83	1497992	49.820	ppbV		95
58) 1,4-dioxane	12.75	88	753994	46.861	ppbV		98
59) trichloroethene	12.76	130	1144901	47.723	ppbV		98
60) 2,2,4-trimethylpentane	12.82	57	5906317	43.649	ppbV	#	92
61) methyl methacrylate	13.02	41	1602492	37.694	ppbV	#	85
62) heptane	13.14	43	2014259	34.668	ppbV	#	81
63) cis-1,3-dichloropropene	13.78	75	1355671	46.627	ppbV		95
64) 4-methyl-2-pentanone	13.82	43	2359322	35.933	ppbV	#	83
65) trans-1,3-dichloropropene	14.42	75	1247851	51.286	ppbV		95
66) 1,1,2-trichloroethane	14.61	97	1087135	46.958	ppbV		88

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528228.D
 Acq On : 3 Sep 2021 1:23 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD050
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:15:55 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.92	91	3486826	40.064	ppbV	100
70) 2-methylthiophene	14.99	97	2522027	43.387	ppbV #	96
71) 1,3-dichloropropane	14.95	76	1413063	38.477	ppbV	89
72) 2-hexanone	15.20	43	2231501	32.581	ppbV #	81
73) 3-methylthiophene	15.18	97	2582925	43.602	ppbV #	97
74) dibromochloromethane	15.37	129	1460997	49.335	ppbV	98
75) 1,2-dibromoethane	15.62	107	1483329	40.794	ppbV	95
76) butyl acetate	15.85	73	393752	41.420	ppbV	74
77) octane	15.95	85	1350656	41.825	ppbV #	70
78) tetrachloroethene	16.08	166	1234157	43.056	ppbV	96
79) 1,1,1,2-tetrachloroethane	16.71	131	1075244	49.266	ppbV	99
80) chlorobenzene	16.73	112	2422682	38.880	ppbV	95
81) ethylbenzene	17.07	91	4476360	44.431	ppbV	93
82) 2-ethylthiophene	17.11	97	2948880	45.180	ppbV #	91
83) m+p-xylene	17.23	91	6898915	86.029	ppbV	92
84) bromoform	17.30	173	1318745	53.814	ppbV	97
85) styrene	17.55	104	2725689	41.636	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.64	83	2389380	36.097	ppbV	95
87) o-xylene	17.64	91	3308277	41.483	ppbV	99
88) 1,2,3-trichloropropane	17.75	75	1818566	38.721	ppbV	98
89) nonane	17.83	43	2833139	31.452	ppbV #	73
91) isopropylbenzene	18.14	105	3948178	39.503	ppbV	96
92) bromobenzene	18.22	77	2370857	38.762	ppbV	87
93) 2-chlorotoluene	18.54	126	1329613	44.471	ppbV	93
94) n-propylbenzene	18.57	120	1468848	42.189	ppbV	98
95) 4-chlorotoluene	18.60	126	1337441	45.093	ppbV	93
96) 4-ethyl toluene	18.68	105	4616320	40.865	ppbV	98
97) 1,3,5-trimethylbenzene	18.74	105	3940975	43.528	ppbV	98
98) tert-butylbenzene	19.07	119	3509687	37.096	ppbV #	89
99) 1,2,4-trimethylbenzene	19.08	105	3394262	37.369	ppbV	94
100) decane	19.15	57	3929664	38.576	ppbV #	80
101) Benzyl Chloride	19.19	91	3333394	66.325	ppbV	99
102) 1,3-dichlorobenzene	19.21	146	2479675	39.923	ppbV	98
103) 1,4-dichlorobenzene	19.26	146	2503104	40.990	ppbV	98
104) sec-butylbenzene	19.29	105	5235940	39.282	ppbV	96
105) 1,2,3-trimethylbenzene	19.42	105	3803908	37.309	ppbV	98
106) p-isopropyltoluene	19.41	119	4199826	36.571	ppbV	92
107) 1,2-dichlorobenzene	19.54	146	2410621	41.409	ppbV	99
108) n-butylbenzene	19.77	91	4659707	43.612	ppbV	96
109) indan	19.59	117	4615513	39.953	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528228.D
 Acq On : 3 Sep 2021 1:23 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD050
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:15:55 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.66	115	3849182	41.123	ppbV	97
111) 1,2-dibromo-3-chloropr...	19.91	75	986566	47.756	ppbV	94
112) undecane	20.16	57	4374821	39.064	ppbV #	87
113) 1,2,4,5-tetramethylben...	20.40	119	2784446	44.664	ppbV	91
114) dodecane	21.09	57	4396681	38.446	ppbV #	81
115) 1,2,4-trichlorobenzene	21.05	180	2027563	52.421	ppbV	98
116) naphthalene	21.17	128	5706411	45.978	ppbV	99
117) 1,2,3-trichlorobenzene	21.43	180	1905527	49.485	ppbV	94
118) benzothiophene	21.23	134	8454632	46.518	ppbV	99
119) hexachlorobutadiene	21.49	225	1471170	47.218	ppbV	94
120) 2-methylnaphthalene	22.32	142	1556419	49.020	ppbV	99
121) 1-methylnaphthalene	22.52	142	2730618	47.199	ppbV	98

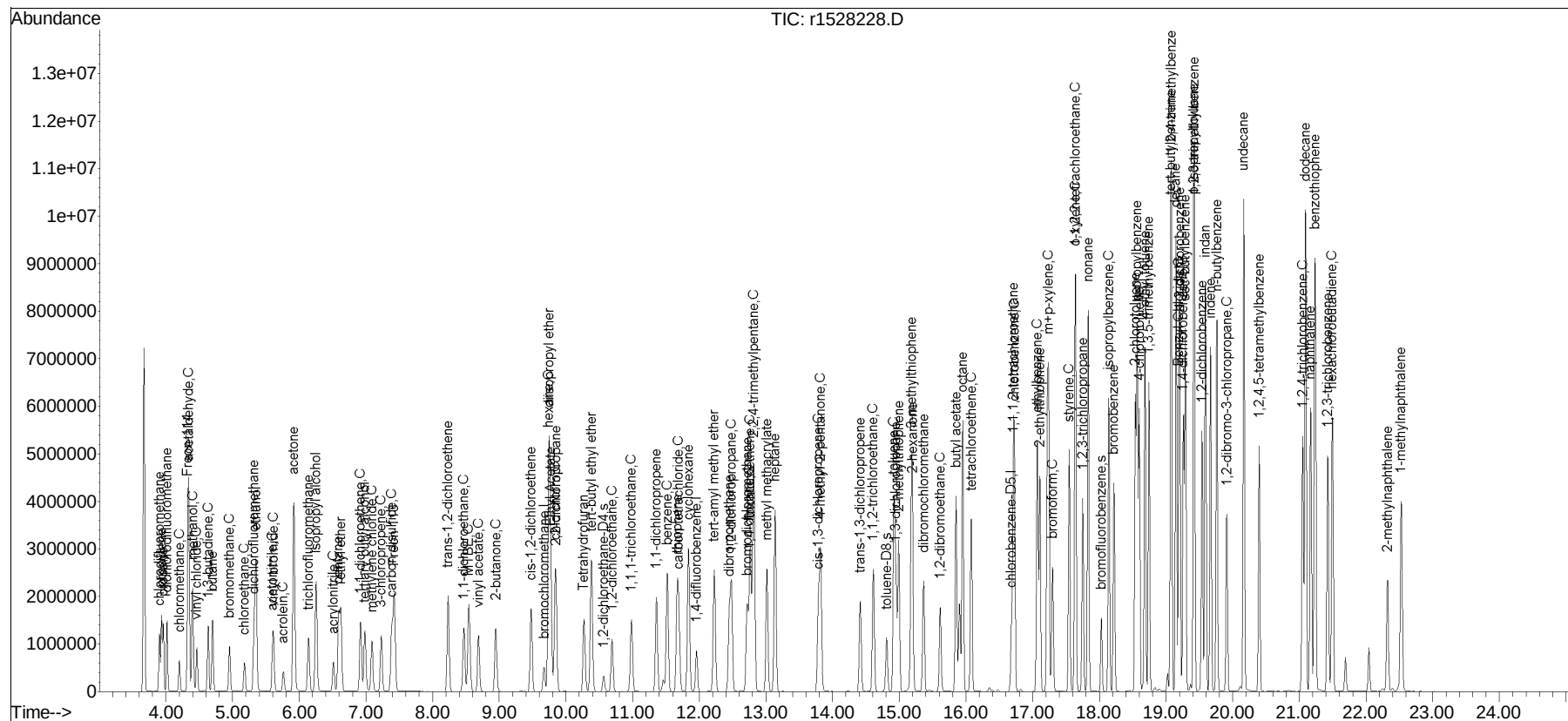
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AirLab15\2021\09\0902T_I\
 Data File : r1528228.D
 Acq On : 3 Sep 2021 1:23 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD050
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:15:55 2021
 Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

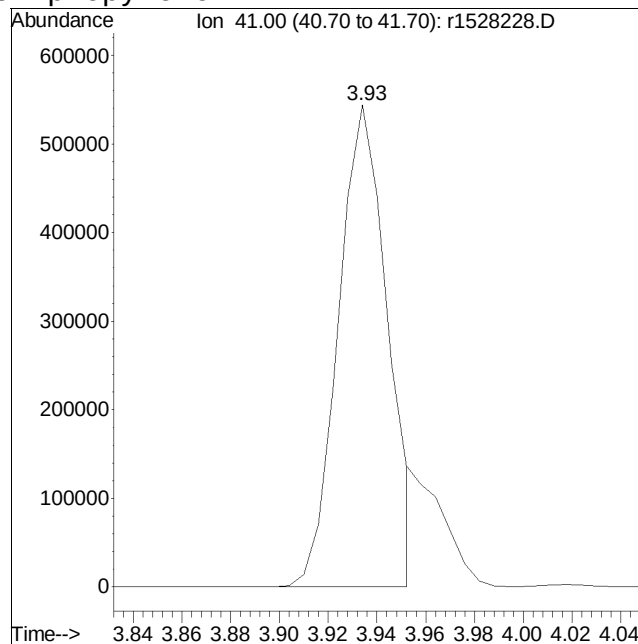
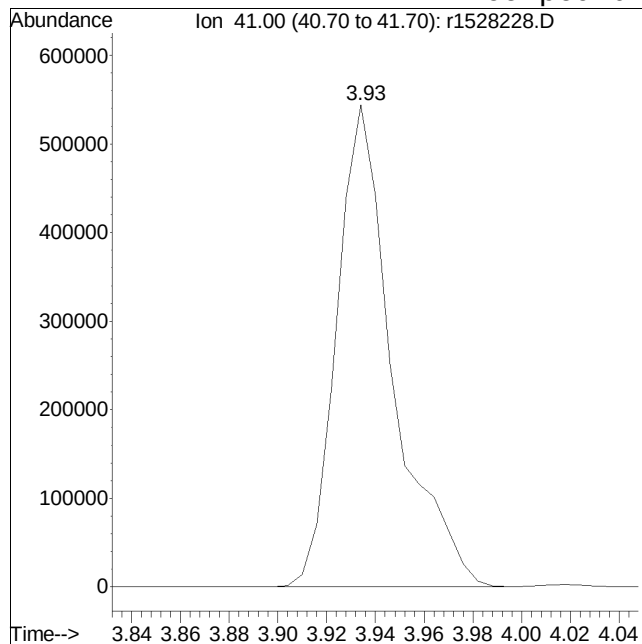
Sub List : Default - All compounds listed 1\09\0902T_I\r1528226.D



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AirLab15\QMethod : TFS15_210902.M
Data File : r1528228.D Operator : AIRLAB15:RY
Date Inj'd : 9/3/2020 0:1: 3 Instrument :
Sample : IT015-SIMSTD050 Quant Date : 9/3/2021 5:46 am

Compound #3: propylene



Original Peak Response = 879361

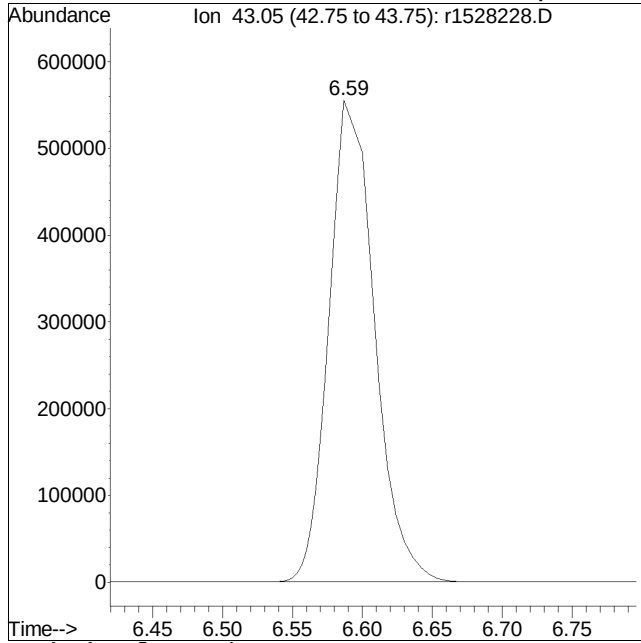
Manual Peak Response = 765550 M4

M4 = Poor automated baseline construction.

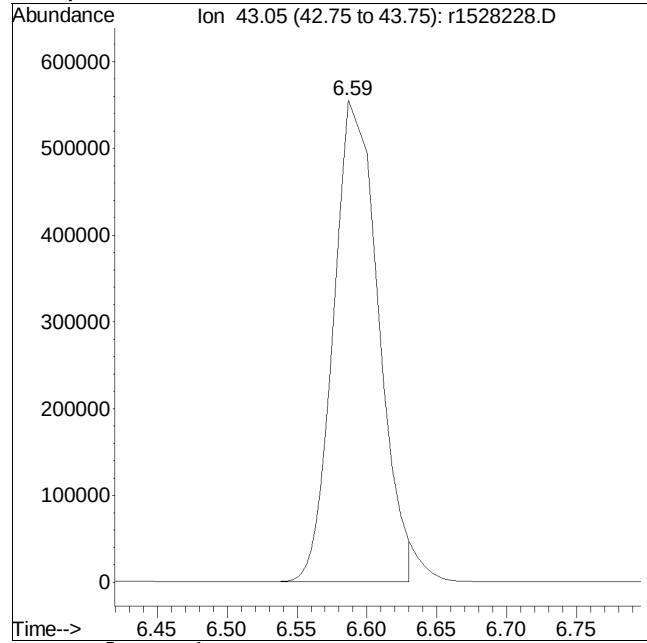
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528228.D Operator : AIRLAB15:RY
Date Inj'd : 9/3/2020 0:1: 3 Instrument :
Sample : IT015-SIMSTD050 Quant Date : 9/3/2021 5:46 am

Compound #24: pentane



Original Peak Response = 1105955



Manual Peak Response = 940988 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528229.D
 Acq On : 3 Sep 2021 2:04 AM
 Operator : AIRLAB15:RY
 Sample : IT015-LLSTD100
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:17:48 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.68	49	358135	10.000	ppbV	0.00
Standard Area = 356116			Recovery =	100.57%		
43) 1,4-difluorobenzene	11.96	114	838314	10.000	ppbV	0.00
Standard Area = 841922			Recovery =	99.57%		
67) chlorobenzene-D5	16.68	54	169300	10.000	ppbV	0.00
Standard Area = 177986			Recovery =	95.12%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.57	65	227038	11.843	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	118.43%		
69) toluene-D8	14.82	98	937071	9.978	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.78%		
90) bromofluorobenzene	18.03	95	708548	11.248	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.48%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.90	51	2088237	84.838	ppbV #	93
3) propylene	3.93	41	1504461M6	69.589	ppbV	
4) propane	3.96	29	1762732	84.718	ppbV #	89
5) dichlorodifluoromethane	4.02	85	1986629	80.854	ppbV	100
6) chloromethane	4.20	50	1180847	64.830	ppbV	96
7) Freon-114	4.33	85	2199933	57.271	ppbV #	88
8) methanol	4.40	31	3158545	407.126	ppbV	97
9) vinyl chloride	4.46	62	1817004	82.900	ppbV	97
10) 1,3-butadiene	4.64	54	1190865	74.005	ppbV	96
11) butane	4.70	43	2225724	55.630	ppbV #	92
12) acetaldehyde	4.35	29	2825769	268.749	ppbV	85
13) bromomethane	4.95	94	1279272	77.838	ppbV	98
14) chloroethane	5.18	64	895813	80.731	ppbV	98
15) ethanol	5.36	31	4577214	386.688	ppbV #	83
16) dichlorofluoromethane	5.33	67	1831556	76.100	ppbV	98
17) vinyl bromide	5.61	106	1251015	84.478	ppbV	98
18) acrolein	5.76	56	629877	78.328	ppbV	97
19) acetone	5.93	43	8911727	279.683	ppbV	99
20) acetonitrile	5.61	41	1379591	58.176	ppbV	94
21) trichlorofluoromethane	6.14	101	1975919	105.397	ppbV	97
22) isopropyl alcohol	6.27	45	5587849	137.844	ppbV #	96
23) acrylonitrile	6.52	53	1059486	72.788	ppbV	98
24) pentane	6.59	43	1856899M4	46.438	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528229.D
 Acq On : 3 Sep 2021 2:04 AM
 Operator : AIRLAB15:RY
 Sample : IT015-LLSTD100
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:17:48 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.62	31	1887589	65.619	ppbV #	90
26) 1,1-dichloroethene	6.92	61	2112828	83.818	ppbV	99
27) tertiary butyl alcohol	6.99	59	2713720	92.014	ppbV #	85
28) methylene chloride	7.09	49	1350430	60.696	ppbV	90
29) 3-chloropropene	7.24	41	2144892	59.260	ppbV #	85
30) carbon disulfide	7.39	76	3627972	68.111	ppbV	96
31) Freon 113	7.43	101	2265081	78.125	ppbV	95
32) trans-1,2-dichloroethene	8.23	61	2855864	88.723	ppbV	94
33) 1,1-dichloroethane	8.47	63	3359739	89.170	ppbV	100
34) MTBE	8.55	73	3868703	92.198	ppbV	98
35) vinyl acetate	8.69	43	4081173	78.331	ppbV #	94
36) 2-butanone	8.95	43	3874176	71.750	ppbV #	91
37) cis-1,2-dichloroethene	9.48	61	2544109	90.855	ppbV	92
38) Ethyl Acetate	9.78	61	760150	87.463	ppbV #	44
39) chloroform	9.85	83	2349739	81.820	ppbV	97
40) Tetrahydrofuran	10.28	42	2547357	71.218	ppbV #	87
41) 2,2-dichloropropane	9.86	77	1786118	103.686	ppbV #	82
42) 1,2-dichloroethane	10.69	62	1897597	112.251	ppbV #	90
44) hexane	9.75	57	3198235	75.891	ppbV #	65
45) diisopropyl ether	9.76	87	1417984	80.234	ppbV #	62
46) tert-butyl ethyl ether	10.38	59	5811254	94.216	ppbV	98
48) 1,1,1-trichloroethane	10.99	97	2195984	113.500	ppbV #	91
49) 1,1-dichloropropene	11.36	75	2177250	84.397	ppbV	97
50) benzene	11.52	78	5171594	74.413	ppbV	95
51) thiophene	11.67	84	3133934	82.696	ppbV	92
52) carbon tetrachloride	11.70	117	1772154	113.467	ppbV	98
53) cyclohexane	11.84	56	3843457	86.386	ppbV	93
54) tert-amyl methyl ether	12.23	73	4424087	90.189	ppbV	93
55) dibromomethane	12.46	93	1681669	88.351	ppbV	98
56) 1,2-dichloropropane	12.49	63	2329506	81.974	ppbV	99
57) bromodichloromethane	12.72	83	2751847	90.751	ppbV #	95
58) 1,4-dioxane	12.75	88	1375488	84.769	ppbV	99
59) trichloroethene	12.77	130	2142067	88.538	ppbV	96
60) 2,2,4-trimethylpentane	12.82	57	10832228	79.380	ppbV #	94
61) methyl methacrylate	13.02	41	3116617	72.694	ppbV #	82
62) heptane	13.14	43	3772969	64.392	ppbV #	80
63) cis-1,3-dichloropropene	13.79	75	2588174	88.270	ppbV	97
64) 4-methyl-2-pentanone	13.82	43	4498116	67.932	ppbV #	80
65) trans-1,3-dichloropropene	14.42	75	2442626	99.547	ppbV	95
66) 1,1,2-trichloroethane	14.62	97	2180019	93.373	ppbV #	85

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528229.D
 Acq On : 3 Sep 2021 2:04 AM
 Operator : AIRLAB15:RY
 Sample : IT015-LLSTD100
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:17:48 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.93	91	6402912	73.440	ppbV	98
70) 2-methylthiophene	14.99	97	5021029	86.226	ppbV #	98
71) 1,3-dichloropropane	14.96	76	2659318	72.284	ppbV	92
72) 2-hexanone	15.20	43	4124715	60.118	ppbV #	77
73) 3-methylthiophene	15.18	97	4924703	82.988	ppbV #	96
74) dibromochloromethane	15.37	129	2755417	92.882	ppbV	99
75) 1,2-dibromoethane	15.62	107	2874411	78.911	ppbV	92
76) butyl acetate	15.86	73	782015	82.119	ppbV	71
77) octane	15.96	85	2414432	74.635	ppbV #	74
78) tetrachloroethene	16.08	166	2274095	79.198	ppbV	94
79) 1,1,1,2-tetrachloroethane	16.72	131	1864396	85.274	ppbV	97
80) chlorobenzene	16.73	112	4333301	69.420	ppbV	95
81) ethylbenzene	17.07	91	8123344	80.489	ppbV	97
82) 2-ethylthiophene	17.11	97	5645286	86.340	ppbV #	91
83) m+p-xylene	17.24	91	11751752	146.286	ppbV	99
84) bromoform	17.31	173	2409102	98.135	ppbV	96
85) styrene	17.55	104	5203193	79.341	ppbV	95
86) 1,1,2,2-tetrachloroethane	17.64	83	3665740	55.283	ppbV	96
87) o-xylene	17.65	91	5311558	66.486	ppbV	94
88) 1,2,3-trichloropropane	17.76	75	3368279	71.591	ppbV	95
89) nonane	17.83	43	4884006	54.125	ppbV #	72
91) isopropylbenzene	18.15	105	7424658	74.157	ppbV	99
92) bromobenzene	18.23	77	4201570	68.572	ppbV #	85
93) 2-chlorotoluene	18.54	126	2406616	80.351	ppbV	98
94) n-propylbenzene	18.57	120	2570995	73.716	ppbV	91
95) 4-chlorotoluene	18.60	126	2429699	81.776	ppbV	92
96) 4-ethyl toluene	18.68	105	8316562	73.492	ppbV	99
97) 1,3,5-trimethylbenzene	18.75	105	6395518	70.515	ppbV	93
98) tert-butylbenzene	19.07	119	5409541	57.077	ppbV	91
99) 1,2,4-trimethylbenzene	19.08	105	5394270	59.284	ppbV	92
100) decane	19.16	57	6308622	61.821	ppbV #	88
101) Benzyl Chloride	19.20	91	5495939	109.162	ppbV	97
102) 1,3-dichlorobenzene	19.21	146	4453788	71.580	ppbV	97
103) 1,4-dichlorobenzene	19.27	146	4409267	72.077	ppbV	98
104) sec-butylbenzene	19.29	105	9167451	68.656	ppbV	92
105) 1,2,3-trimethylbenzene	19.43	105	5925579	58.017	ppbV	94
106) p-isopropyltoluene	19.42	119	6433669	55.924	ppbV	95
107) 1,2-dichlorobenzene	19.55	146	4557770	78.155	ppbV	99
108) n-butylbenzene	19.77	91	7845557	73.301	ppbV #	87
109) indan	19.60	117	7745931	66.933	ppbV #	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528229.D
 Acq On : 3 Sep 2021 2:04 AM
 Operator : AIRLAB15:RY
 Sample : IT015-LLSTD100
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:17:48 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 07:10:13 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.67	115	6824109	72.778	ppbV	97
111)	1,2-dibromo-3-chloropr...	19.91	75	1837241	88.777	ppbV	88
112)	undecane	20.16	57	6776877	60.407	ppbV #	89
113)	1,2,4,5-tetramethylben...	20.40	119	5145347	82.389	ppbV	92
114)	dodecane	21.09	57	6846798	59.765	ppbV	89
115)	1,2,4-trichlorobenzene	21.05	180	3720358	96.019	ppbV	98
116)	naphthalene	21.18	128	10239090	82.355	ppbV #	95
117)	1,2,3-trichlorobenzene	21.43	180	3486074	90.372	ppbV	99
118)	benzothiophene	21.24	134	13847941	76.059	ppbV	99
119)	hexachlorobutadiene	21.49	225	2584411	82.803	ppbV	94
120)	2-methylnaphthalene	22.32	142	3184419	100.118	ppbV	98
121)	1-methylnaphthalene	22.52	142	5368598	92.633	ppbV	100

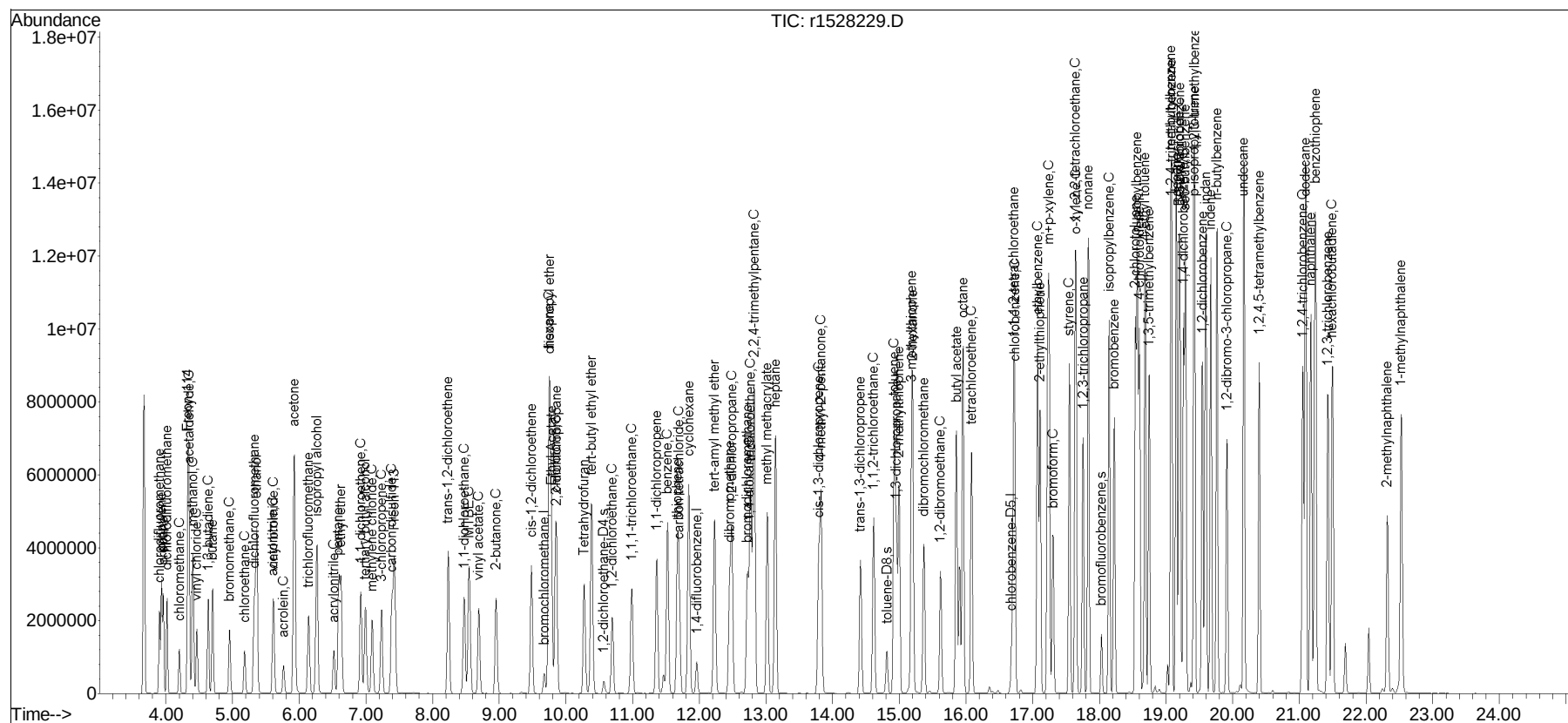
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
Data File : r1528229.D
Acq On    : 3 Sep 2021    2:04 AM
Operator  : AIRLAB15:RY
Sample    : IT015-LLSTD100
Misc      : WG1542862
ALS Vial  : 0    Sample Multiplier: 1
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Quant Time: Sep 03 14:17:48 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0902T_I\TFS15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Aug 23 07:10:13 2021
Response via : Initial Calibration

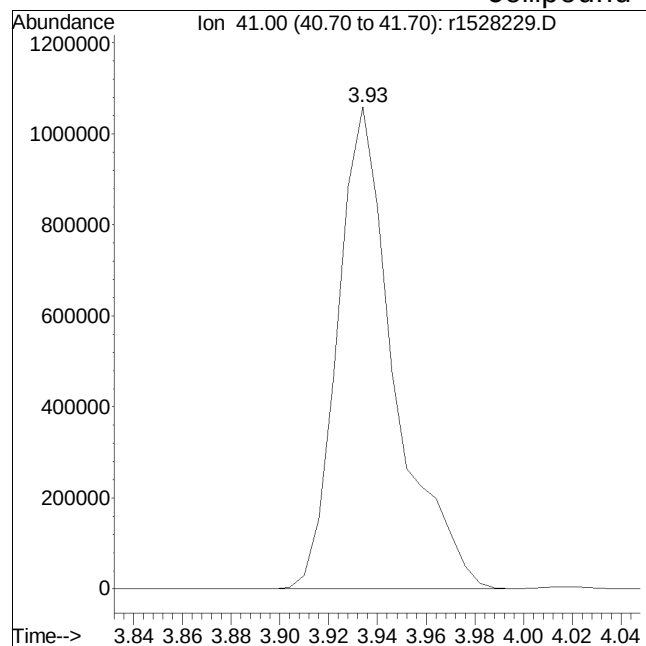
Sub List : Default - All compounds listed1\09\0902T_I\r1528226.D



Manual Integration/Negative Proof Report

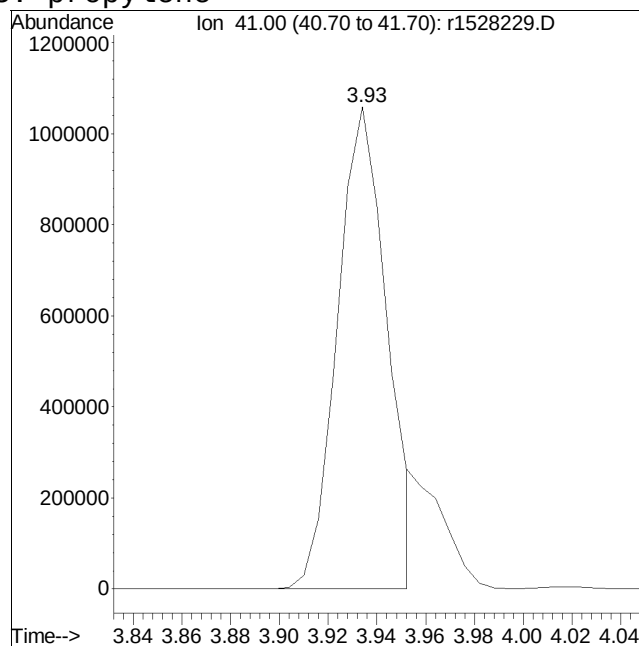
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TFS15_210902.M
Data File : r1528229.D Operator : AIRLAB15:RY
Date Inj'd : 9/3/2020 0:2: 4 Instrument :
Sample : IT015-LLSTD100 Quant Date : 9/3/2021 5:46 am

Compound #3: propylene



Original Peak Response = 1725713

M6 = Misassignment of peak valley by



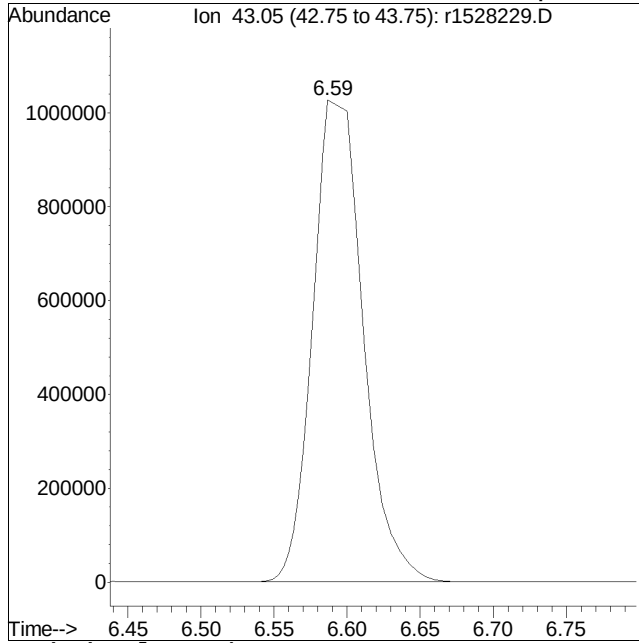
Manual Peak Response = 1504461 M6

M6 = Misassignment of peak valley by automated integration (poor split of

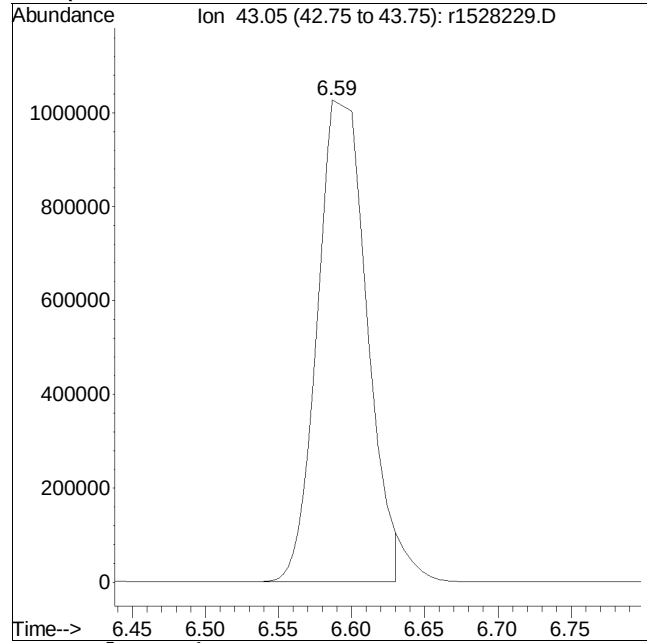
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528229.D Operator : AIRLAB15:RY
Date Inj'd : 9/3/2020 0:2: 4 Instrument :
Sample : IT015-LLSTD100 Quant Date : 9/3/2021 5:46 am

Compound #24: pentane



Original Peak Response = 2193972



Manual Peak Response = 1856899 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528234.D
 Acq On : 3 Sep 2021 11:13 AM
 Operator : AIRLAB15:RY
 Sample : CT015-LLSTD10
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:21:00 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	96	0.00
2	chlorodifluoromethane	0.726	0.653	10.1	89	0.00
3	propylene	0.486	0.552	-13.6	115	0.00
4	propane	0.618	0.564	8.7	89	0.00
5	dichlorodifluoromethane	0.744	0.724	2.7	93	0.00
6 C	chloromethane	0.395	0.364	7.8	95	0.00
7	Freon-114	0.945	0.925	2.1	95	-0.01
8 C	methanol	0.221	0.196	11.3	87	0.00
9 C	vinyl chloride	0.570	0.562	1.4	99	0.00
10 C	1,3-butadiene	0.419	0.405	3.3	96	0.00
11	butane	0.736	0.680	7.6	97	0.00
13 C	bromomethane	0.431	0.425	1.4	98	0.00
14 C	chloroethane	0.272	0.277	-1.8	102	0.00
15	ethanol	0.309	0.260	15.9	72	0.00
16	dichlorofluoromethane	0.610	0.654	-7.2	123	-0.01
17 C	vinyl bromide	0.389	0.390	-0.3	99	0.00
18 C	acrolein	0.211	0.192	9.0	90	0.00
19	acetone	0.659	0.604	8.3	92	0.00
20 C	acetonitrile	0.447	0.435	2.7	100	0.00
21	trichlorofluoromethane	0.660	0.657	0.5	99	0.00
22	isopropyl alcohol	0.776	0.711	8.4	93	0.00
23 C	acrylonitrile	0.350	0.337	3.7	95	0.00
24	pentane	0.621	0.587	5.5	102	-0.01
25	ethyl ether	0.759	0.657	13.4	85	0.00
26 C	1,1-dichloroethene	0.698	0.693	0.7	98	0.00
27	tertiary butyl alcohol	0.892	0.864	3.1	94	0.00
28 C	methylene chloride	0.485	0.443	8.7	67	0.00
29 C	3-chloropropene	0.728	0.890	-22.3	106	0.00
30 C	carbon disulfide	1.257	1.461	-16.2	93	0.00
31	Freon 113	0.777	0.898	-15.6	106	0.00
32	trans-1,2-dichloroethene	0.885	0.894	-1.0	98	0.00
33 C	1,1-dichloroethane	1.015	1.075	-5.9	105	0.00
34 C	MTBE	1.229	1.291	-5.0	102	0.00
35 C	vinyl acetate	1.227	1.217	0.8	96	0.00
36 C	2-butanone	1.224	1.272	-3.9	100	0.00
37	cis-1,2-dichloroethene	0.783	0.836	-6.8	105	0.00
38	Ethyl Acetate	0.229	0.250	-9.2	105	0.00
39 C	chloroform	0.859	0.884	-2.9	99	0.00
40	Tetrahydrofuran	0.783	0.806	-2.9	99	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528234.D
 Acq On : 3 Sep 2021 11:13 AM
 Operator : AIRLAB15:RY
 Sample : CT015-LLSTD10
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:21:00 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.604	0.579	4.1	92	0.00
42 C	1,2-dichloroethane	0.580	0.576	0.7	98	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00
44 C	hexane	0.490	0.492	-0.4	100	0.00
45	diisopropyl ether	0.215	0.208	3.3	96	0.00
46	tert-butyl ethyl ether	0.786	0.757	3.7	96	0.00
47 s	1,2-dichloroethane-D4	0.271	0.271	0.0	97	0.00
48 C	1,1,1-trichloroethane	0.295	0.298	-1.0	104	0.00
49	1,1-dichloropropene	0.302	0.299	1.0	101	0.00
50 C	benzene	0.789	0.730	7.5	98	0.00
52 C	carbon tetrachloride	0.243	0.246	-1.2	102	0.00
53	cyclohexane	0.532	0.531	0.2	101	0.00
54	tert-amyl methyl ether	0.589	0.576	2.2	99	0.00
55	dibromomethane	0.238	0.229	3.8	100	0.00
56 C	1,2-dichloropropane	0.304	0.316	-3.9	105	0.00
57	bromodichloromethane	0.398	0.399	-0.3	98	0.00
58 C	1,4-dioxane	0.196	0.204	-4.1	103	0.00
59 C	trichloroethene	0.298	0.309	-3.7	104	0.00
60 C	2,2,4-trimethylpentane	1.622	1.634	-0.7	102	0.00
61	methyl methacrylate	0.413	0.333	19.4	80	0.00
62	heptane	0.549	0.555	-1.1	100	0.00
63 C	cis-1,3-dichloropropene	0.347	0.375	-8.1	106	0.00
64 C	4-methyl-2-pentanone	0.623	0.649	-4.2	102	0.00
65	trans-1,3-dichloropropene	0.314	0.292	7.0	91	0.00
66 C	1,1,2-trichloroethane	0.280	0.300	-7.1	109	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	94	0.00
68 C	toluene	4.637	4.743	-2.3	103	0.00
69 s	toluene-D8	5.038	5.607	-11.3	105	0.00
71	1,3-dichloropropane	1.827	1.819	0.4	95	0.00
72	2-hexanone	2.830	3.063	-8.2	99	0.00
74	dibromochloromethane	1.748	2.016	-15.3	106	0.00
75 C	1,2-dibromoethane	1.843	2.037	-10.5	106	0.00
76	butyl acetate	0.471	0.490	-4.0	97	0.00
77	octane	1.718	1.738	-1.2	95	0.00
78 C	tetrachloroethene	1.574	1.732	-10.0	105	0.00
79	1,1,1,2-tetrachloroethane	1.316	1.398	-6.2	98	0.00
80 C	chlorobenzene	3.157	3.456	-9.5	104	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528234.D
 Acq On : 3 Sep 2021 11:13 AM
 Operator : AIRLAB15:RY
 Sample : CT015-LLSTD10
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:21:00 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 C	ethylbenzene	5.616	6.141	-9.3	104	0.00
83 C	m+p-xylene	4.468	4.849	-8.5	101	0.00
84 C	bromoform	1.461	1.724	-18.0	102	0.00
85 C	styrene	3.358	3.734	-11.2	105	0.00
86 C	1,1,2,2-tetrachloroethane	3.306	3.687	-11.5	100	0.00
87 C	o-xylene	4.413	4.965	-12.5	103	0.00
88	1,2,3-trichloropropane	2.344	2.377	-1.4	95	0.00
89	nonane	3.813	3.876	-1.7	96	0.00
90 s	bromofluorobenzene	3.587	4.103	-14.4	107	0.00
91 C	isopropylbenzene	5.219	5.712	-9.4	105	0.00
92	bromobenzene	3.078	3.166	-2.9	95	0.00
93	2-chlorotoluene	1.646	1.737	-5.5	99	0.00
94	n-propylbenzene	1.870	1.961	-4.9	98	0.00
95	4-chlorotoluene	1.627	1.696	-4.2	97	0.00
96	4-ethyl toluene	5.938	6.344	-6.8	99	0.00
97	1,3,5-trimethylbenzene	4.666	4.954	-6.2	103	0.00
98	tert-butylbenzene	5.049	5.448	-7.9	98	0.00
99	1,2,4-trimethylbenzene	4.573	5.316	-16.2	106	0.02
100	decane	5.065	5.389	-6.4	97	0.02
101 C	Benzyl Chloride	3.445	4.052	-17.6	100	0.02
102	1,3-dichlorobenzene	3.057	3.462	-13.2	104	0.02
103 C	1,4-dichlorobenzene	3.011	3.406	-13.1	104	0.02
104	sec-butylbenzene	6.749	7.281	-7.9	101	0.02
106	p-isopropyltoluene	6.227	6.357	-2.1	91	0.03
107	1,2-dichlorobenzene	2.930	3.290	-12.3	104	0.03
108	n-butylbenzene	5.882	6.539	-11.2	100	0.03
111 C	1,2-dibromo-3-chloropropane	1.198	1.287	-7.4	95	0.03
112	undecane	5.567	6.106	-9.7	96	0.03
114	dodecane	5.492	6.181	-12.5	90	0.03
115 C	1,2,4-trichlorobenzene	2.195	2.588	-17.9	100	0.03
116	naphthalene	6.916	7.588	-9.7	94	0.03
117	1,2,3-trichlorobenzene	2.160	2.427	-12.4	94	0.03
119 C	hexachlorobutadiene	1.834	2.097	-14.3	99	0.03

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528234.D
 Acq On : 3 Sep 2021 11:13 AM
 Operator : AIRLAB15:RY
 Sample : CT015-LLSTD10
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:21:00 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.67	49	340385	10.000	ppbV	0.00
Standard Area = 356116			Recovery =	95.58%		
43) 1,4-difluorobenzene	11.95	114	834396	10.000	ppbV	0.00
Standard Area = 841922			Recovery =	99.11%		
67) chlorobenzene-D5	16.68	54	166574	10.000	ppbV	0.00
Standard Area = 177986			Recovery =	93.59%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.56	65	225857	10.006	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.06%		
69) toluene-D8	14.81	98	934016	11.130	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	111.30%		
90) bromofluorobenzene	18.02	95	683456	11.438	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	114.38%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.90	51	222360	9.001	ppbV	100
3) propylene	3.93	41	188001M6	11.372	ppbV	
4) propane	3.96	29	192105	9.138	ppbV	96
5) dichlorodifluoromethane	4.02	85	246469	9.734	ppbV	99
6) chloromethane	4.20	50	124064	9.218	ppbV	100
7) Freon-114	4.33	85	314736	9.788	ppbV	95
8) methanol	4.40	31	334277	44.347	ppbV	99
9) vinyl chloride	4.47	62	191394	9.870	ppbV	100
10) 1,3-butadiene	4.64	54	137761	9.650	ppbV	93
11) butane	4.70	43	231627	9.249	ppbV	99
13) bromomethane	4.95	94	144642	9.868	ppbV	96
14) chloroethane	5.18	64	94322	10.190	ppbV	99
15) ethanol	5.35	31	443087	42.102	ppbV	94
16) dichlorofluoromethane	5.32	67	222761	10.735	ppbV	100
17) vinyl bromide	5.61	106	132877	10.045	ppbV	100
18) acrolein	5.76	56	65311	9.108	ppbV	98
19) acetone	5.92	43	1027529	45.778	ppbV	97
20) acetonitrile	5.60	41	147948	9.723	ppbV	100
21) trichlorofluoromethane	6.14	101	223668	9.953	ppbV	99
22) isopropyl alcohol	6.25	45	605189	22.908	ppbV	99
23) acrylonitrile	6.51	53	114797	9.644	ppbV	97
24) pentane	6.59	43	199807M4	9.447	ppbV	
25) ethyl ether	6.62	31	223690	8.655	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528234.D
 Acq On : 3 Sep 2021 11:13 AM
 Operator : AIRLAB15:RY
 Sample : CT015-LLSTD10
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:21:00 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	6.92	61	235893	9.929	ppbV	99
27) tertiary butyl alcohol	6.98	59	294234	9.696	ppbV	98
28) methylene chloride	7.09	49	150651	9.125	ppbV	94
29) 3-chloropropene	7.23	41	302983	12.226	ppbV	99
30) carbon disulfide	7.39	76	497468	11.629	ppbV	98
31) Freon 113	7.42	101	305712	11.554	ppbV	97
32) trans-1,2-dichloroethene	8.23	61	304175	10.094	ppbV	98
33) 1,1-dichloroethane	8.47	63	365848	10.584	ppbV	99
34) MTBE	8.54	73	439482	10.508	ppbV	98
35) vinyl acetate	8.68	43	414163	9.918	ppbV	100
36) 2-butanone	8.94	43	433030	10.391	ppbV	99
37) cis-1,2-dichloroethene	9.47	61	284683	10.688	ppbV	96
38) Ethyl Acetate	9.77	61	85234	10.920	ppbV	98
39) chloroform	9.83	83	300911	10.294	ppbV	100
40) Tetrahydrofuran	10.28	42	274476	10.297	ppbV	99
41) 2,2-dichloropropane	9.84	77	196960	9.578	ppbV	98
42) 1,2-dichloroethane	10.68	62	196075	9.931	ppbV	98
44) hexane	9.74	57	410147	10.028	ppbV	87
45) diisopropyl ether	9.74	87	173799	9.696	ppbV	95
46) tert-butyl ethyl ether	10.38	59	631708	9.627	ppbV	99
48) 1,1,1-trichloroethane	10.98	97	248896	10.128	ppbV	96
49) 1,1-dichloropropene	11.36	75	249467	9.914	ppbV	100
50) benzene	11.52	78	609098	9.256	ppbV	100
52) carbon tetrachloride	11.69	117	205362	10.117	ppbV	94
53) cyclohexane	11.84	56	443318	9.987	ppbV	99
54) tert-amyl methyl ether	12.22	73	480842	9.791	ppbV	99
55) dibromomethane	12.44	93	191130	9.621	ppbV	100
56) 1,2-dichloropropane	12.48	63	263490	10.376	ppbV	99
57) bromodichloromethane	12.71	83	332512	10.025	ppbV	97
58) 1,4-dioxane	12.74	88	169914	10.394	ppbV	95
59) trichloroethene	12.76	130	257824	10.358	ppbV	99
60) 2,2,4-trimethylpentane	12.81	57	1363742	10.076	ppbV	99
61) methyl methacrylate	13.01	41	278124	8.065	ppbV	98
62) heptane	13.13	43	463436	10.115	ppbV	98
63) cis-1,3-dichloropropene	13.78	75	312670	10.803	ppbV	100
64) 4-methyl-2-pentanone	13.82	43	541274	10.420	ppbV	98
65) trans-1,3-dichloropropene	14.41	75	243744	9.312	ppbV	98
66) 1,1,2-trichloroethane	14.61	97	249926	10.682	ppbV	94
68) toluene	14.92	91	790111	10.229	ppbV	98
71) 1,3-dichloropropane	14.94	76	302954	9.955	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528234.D
 Acq On : 3 Sep 2021 11:13 AM
 Operator : AIRLAB15:RY
 Sample : CT015-LLSTD10
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:21:00 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	15.19	43	510283	10.826	ppbV	96
74) dibromochloromethane	15.36	129	335793	11.535	ppbV	97
75) 1,2-dibromoethane	15.61	107	339307	11.051	ppbV	99
76) butyl acetate	15.85	73	81678	10.402	ppbV	97
77) octane	15.94	85	289469	10.118	ppbV	100
78) tetrachloroethene	16.07	166	288571	11.004	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.71	131	232798	10.616	ppbV	96
80) chlorobenzene	16.72	112	575672	10.948	ppbV	96
81) ethylbenzene	17.07	91	1022992	10.936	ppbV	99
83) m+p-xylene	17.23	91	1615311	21.705	ppbV	97
84) bromoform	17.29	173	287138	11.795	ppbV	98
85) styrene	17.54	104	621913	11.117	ppbV	97
86) 1,1,2,2-tetrachloroethane	17.63	83	614107	11.151	ppbV	98
87) o-xylene	17.63	91	827026	11.251	ppbV	98
88) 1,2,3-trichloropropane	17.75	75	395990	10.143	ppbV	98
89) nonane	17.82	43	645676	10.165	ppbV	97
91) isopropylbenzene	18.14	105	951496	10.946	ppbV	96
92) bromobenzene	18.22	77	527301	10.285	ppbV	99
93) 2-chlorotoluene	18.54	126	289295	10.549	ppbV	100
94) n-propylbenzene	18.57	120	326681	10.486	ppbV	100
95) 4-chlorotoluene	18.59	126	282449	10.423	ppbV	99
96) 4-ethyl toluene	18.68	105	1056710	10.683	ppbV	99
97) 1,3,5-trimethylbenzene	18.74	105	825223	10.618	ppbV	99
98) tert-butylbenzene	19.08	119	907565	10.791	ppbV	97
99) 1,2,4-trimethylbenzene	19.09	105	885433	11.623	ppbV	92
100) decane	19.16	57	897647	10.639	ppbV	100
101) Benzyl Chloride	19.21	91	674991	11.763	ppbV	99
102) 1,3-dichlorobenzene	19.22	146	576674	11.326	ppbV	99
103) 1,4-dichlorobenzene	19.27	146	567434	11.314	ppbV	97
104) sec-butylbenzene	19.31	105	1212902	10.789	ppbV	99
106) p-isopropyltoluene	19.44	119	1058935	10.210	ppbV	95
107) 1,2-dichlorobenzene	19.57	146	547983	11.227	ppbV	98
108) n-butylbenzene	19.79	91	1089310	11.118	ppbV	100
111) 1,2-dibromo-3-chloropr...	19.94	75	214399	10.742	ppbV	99
112) undecane	20.20	57	1017147	10.969	ppbV	99
114) dodecane	21.13	57	1029589	11.255	ppbV	100
115) 1,2,4-trichlorobenzene	21.08	180	431124	11.794	ppbV	97
116) naphthalene	21.20	128	1264013	10.972	ppbV	100
117) 1,2,3-trichlorobenzene	21.46	180	404234	11.237	ppbV	99
119) hexachlorobutadiene	21.52	225	349314	11.435	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\
 Data File : r1528234.D
 Acq On : 3 Sep 2021 11:13 AM
 Operator : AIRLAB15:RY
 Sample : CT015-LLSTD10
 Misc : WG1542862
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:21:00 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902T_I\r1528226.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

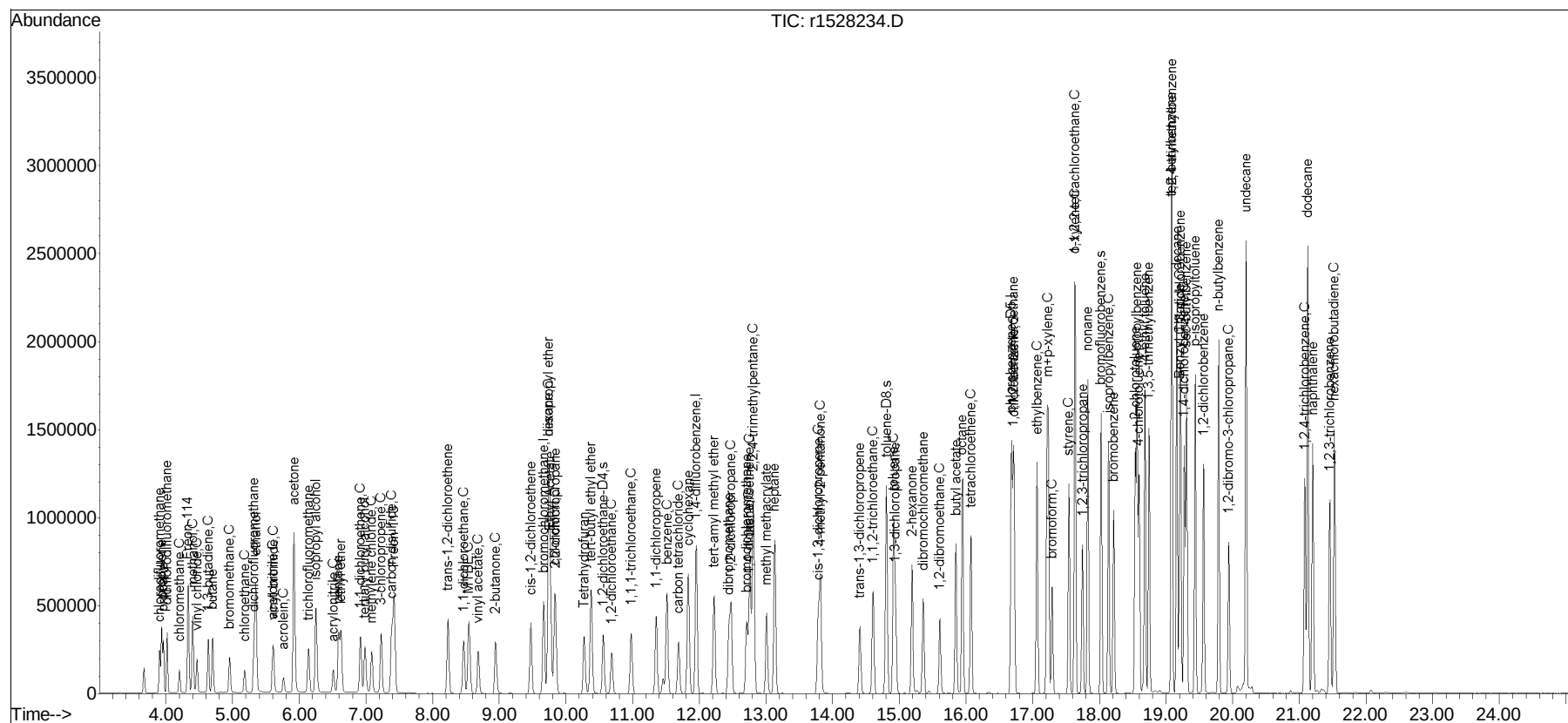
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : 0:\Forensics\Data\AirLab15\2021\09\0902T_I\
Data File : r1528234.D
Acq On    : 3 Sep 2021 11:13 AM
Operator  : AIRLAB15:RY
Sample    : CT015-LLSTD10
Misc      : WG1542862
ALS Vial  : 0 Sample Multiplier: 1
```

Quant Time: Sep 03 14:21:00 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0902T_I\TFS15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 14:18:59 2021
Response via : Initial Calibration

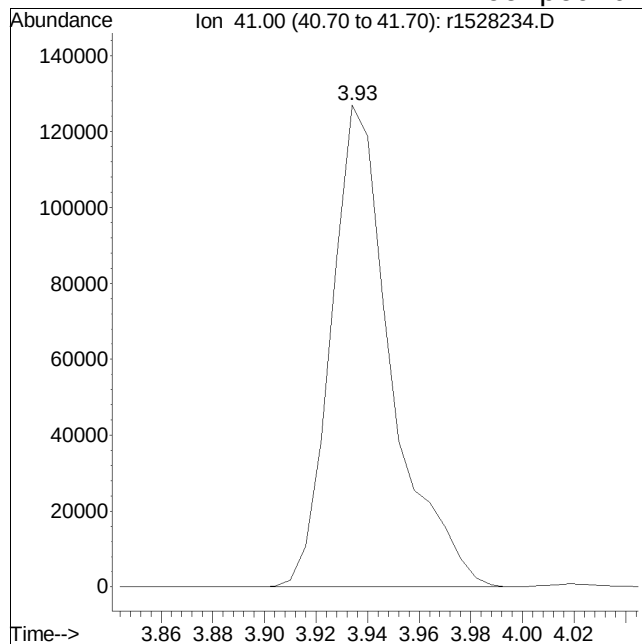
Sub List : Default-ICV-AP2 - All compounds listed2T_I\r1528226.D



Manual Integration/Negative Proof Report

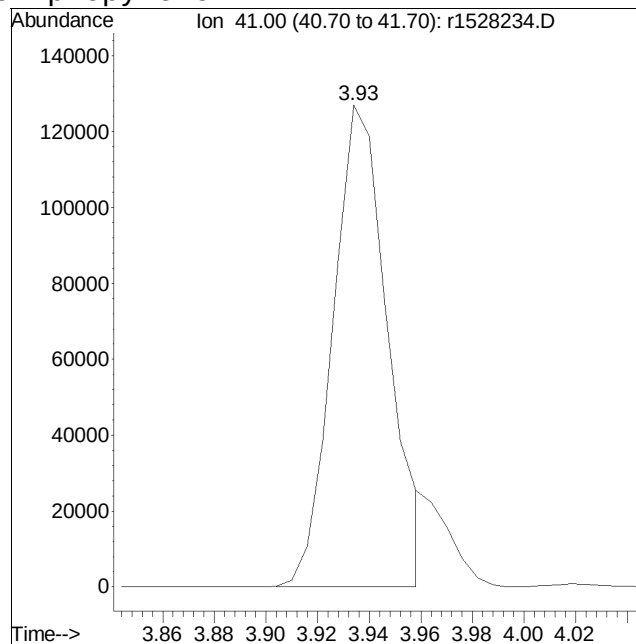
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TFS15_210902.M
Data File : r1528234.D Operator : AIRLAB15:RY
Date Inj'd : 9/3/2020 0:1: 3 Instrument :
Sample : CT015-LLSTD10 Quant Date : 9/3/2021 2:20 pm

Compound #3: propylene



Original Peak Response = 205594

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

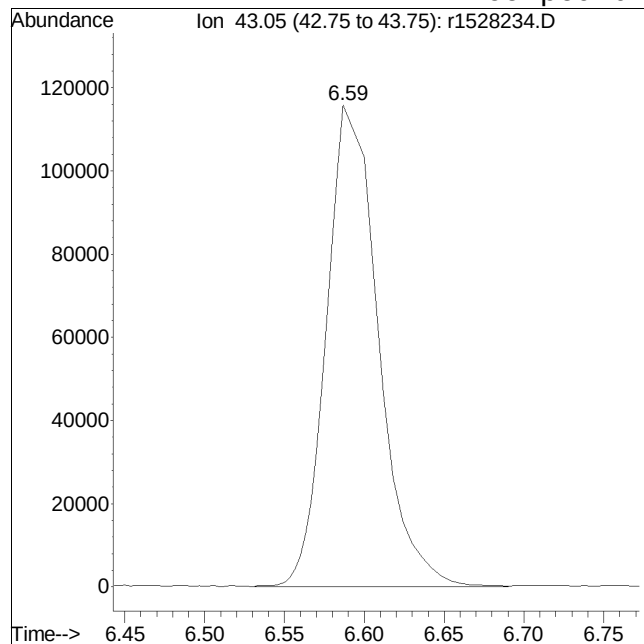


Manual Peak Response = 188001 M6

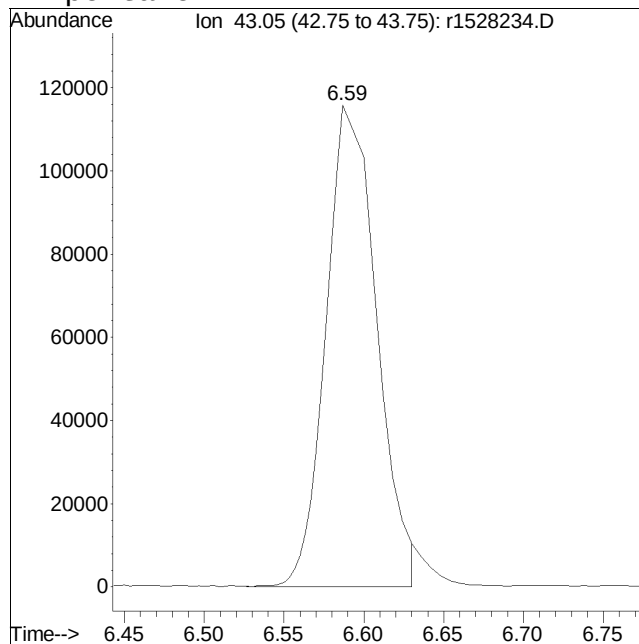
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528234.D Operator : AIRLAB15:RY
Date Inj'd : 9/3/2020 0:1: 3 Instrument :
Sample : CT015-LLSTD10 Quant Date : 9/3/2021 2:20 pm

Compound #24: pentane



Original Peak Response = 230521



Manual Peak Response = 199807 M4

M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary

Form 7

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2150027
Project Name : FORMER CLEAN ZONE DRY CLEANERS	Project Number : 2546.0007Y002
Instrument ID : AIRLAB15	Calibration Date : 09/21/21 12:25
Lab File ID : R1528475	Init. Calib. Date(s) : 09/02/21 09/03/21
Sample No : WG1549026-2	Init. Calib. Times : 21:27 02:04
Channel :	

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	97	-.05
chlorodifluoromethane	0.726	0.649	-	10.6	30	90	-.04
propylene	0.486	0.439	-	9.7	30	93	-.04
propane	0.618	0.483	-	21.8	30	77	-.04
dichlorodifluoromethane	0.744	0.83	-	-11.6	30	107	-.04
chloromethane	0.395	0.41	-	-3.8	30	108	-.04
Freon-114	0.945	1.062	-	-12.4	30	111	-.04
methanol	0.221	0.183	-	17.2	30	82	-.04
vinyl chloride	0.57	0.491	-	13.9	30	88	-.04
1,3-butadiene	0.419	0.42	-	-0.2	30	100	-.04
butane	0.736	0.639	-	13.2	30	92	-.04
bromomethane	0.431	0.422	-	2.1	30	98	-.04
chloroethane	0.272	0.242	-	11	30	90	-.05
ethanol	0.309	0.269	-	12.9	30	75	-.05
dichlorofluoromethane	0.61	0.804	-	-31.8*	30	153	-.05
vinyl bromide	0.389	0.392	-	-0.8	30	101	-.05
acrolein	0.211	0.193	-	8.5	30	91	-.04
acetone	0.659	0.58	-	12	30	89	-.05
acetonitrile	0.447	0.376	-	15.9	30	87	-.05
trichlorofluoromethane	0.66	0.708	-	-7.3	30	108	-.05
isopropyl alcohol	0.776	0.675	-	13	30	89	-.05
acrylonitrile	0.35	0.363	-	-3.7	30	104	-.05
pentane	0.621	0.912	-	-46.9*	30	160	-.05
ethyl ether	0.759	0.666	-	12.3	30	87	-.05
1,1-dichloroethene	0.698	0.649	-	7	30	93	-.05
tertiary butyl alcohol	0.892	0.743	-	16.7	30	81	-.05
methylene chloride	0.485	0.519	-	-7	30	80	-.05
3-chloropropene	0.728	0.613	-	15.8	30	74	-.05
carbon disulfide	1.257	1.481	-	-17.8	30	95	-.05
Freon 113	0.777	0.918	-	-18.1	30	109	-.05
trans-1,2-dichloroethene	0.885	0.777	-	12.2	30	86	-.05
1,1-dichloroethane	1.015	0.946	-	6.8	30	93	-.06
MTBE	1.229	1.271	-	-3.4	30	102	-.05
vinyl acetate	1.227	1.084	-	11.7	30	87	-.05
2-butanone	1.224	1.156	-	5.6	30	92	-.05
cis-1,2-dichloroethene	0.783	0.736	-	6	30	93	-.05
Ethyl Acetate	0.229	0.212	-	7.4	30	90	-.05
chloroform	0.859	0.916	-	-6.6	30	104	-.05
Tetrahydrofuran	0.783	0.698	-	10.9	30	87	-.05
2,2-dichloropropane	0.604	0.604	-	0	30	98	-.05
1,2-dichloroethane	0.58	0.549	-	5.3	30	95	-.05
1,4-difluorobenzene	1	1	-	0	30	105	-.05
hexane	0.49	0.395	-	19.4	30	85	-.05

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2150027
Project Name : FORMER CLEAN ZONE DRY CLEANERS	Project Number : 2546.0007Y002
Instrument ID : AIRLAB15	Calibration Date : 09/21/21 12:25
Lab File ID : R1528475	Init. Calib. Date(s) : 09/02/21 09/03/21
Sample No : WG1549026-2	Init. Calib. Times : 21:27 02:04
Channel :	

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.215	0.177	-	17.7	30	86	-.05
tert-butyl ethyl ether	0.786	0.578	-	26.5	30	78	-.05
1,1,1-trichloroethane	0.295	0.289	-	2	30	107	-.05
1,1-dichloropropene	0.302	0.3	-	0.7	30	107	-.05
benzene	0.789	0.708	-	10.3	30	101	-.05
carbon tetrachloride	0.243	0.265	-	-9.1	30	115	-.05
cyclohexane	0.532	0.436	-	18	30	87	-.05
tert-amyl methyl ether	0.589	0.514	-	12.7	30	93	-.05
dibromomethane	0.238	0.203	-	14.7	30	93	-.05
1,2-dichloropropane	0.304	0.259	-	14.8	30	91	-.05
bromodichloromethane	0.398	0.385	-	3.3	30	100	-.05
1,4-dioxane	0.196	0.174	-	11.2	30	92	-.05
trichloroethene	0.298	0.275	-	7.7	30	98	-.05
2,2,4-trimethylpentane	1.622	1.339	-	17.4	30	88	-.05
methyl methacrylate	0.413	0.279	-	32.4*	30	71	-.05
heptane	0.549	0.474	-	13.7	30	90	-.05
cis-1,3-dichloropropene	0.347	0.363	-	-4.6	30	109	-.04
4-methyl-2-pentanone	0.623	0.561	-	10	30	93	-.04
trans-1,3-dichloropropene	0.314	0.28	-	10.8	30	92	-.04
1,1,2-trichloroethane	0.28	0.272	-	2.9	30	105	-.04
chlorobenzene-D5	1	1	-	0	30	87	-.03
toluene	4.637	4.74	-	-2.2	30	96	-.04
1,3-dichloropropane	1.827	2.02	-	-10.6	30	99	-.04
2-hexanone	2.83	2.934	-	-3.7	30	88	-.03
dibromochloromethane	1.748	2.182	-	-24.8	30	107	-.04
1,2-dibromoethane	1.843	2.266	-	-23	30	110	-.03
butyl acetate	0.471	0.52	-	-10.4	30	96	-.03
octane	1.718	1.663	-	3.2	30	85	-.04
tetrachloroethene	1.574	1.862	-	-18.3	30	105	-.03
1,1,1,2-tetrachloroethane	1.316	1.456	-	-10.6	30	95	-.03
chlorobenzene	3.157	3.687	-	-16.8	30	103	-.03
ethylbenzene	5.616	6.086	-	-8.4	30	96	-.03
m+p-xylene	4.468	4.915	-	-10	30	96	-.03
bromoform	1.461	1.963	-	-34.4*	30	108	-.03
styrene	3.358	4.017	-	-19.6	30	105	-.03
1,1,2,2-tetrachloroethane	3.306	3.65	-	-10.4	30	92	-.03
o-xylene	4.413	4.963	-	-12.5	30	96	-.03
1,2,3-trichloropropane	2.344	2.564	-	-9.4	30	96	-.03
nonane	3.813	3.653	-	4.2	30	84	-.03
isopropylbenzene	5.219	6.239	-	-19.5	30	107	-.03
bromobenzene	3.078	3.296	-	-7.1	30	93	-.03
2-chlorotoluene	1.646	1.7	-	-3.3	30	90	-.03
n-propylbenzene	1.87	1.974	-	-5.6	30	92	-.03

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC Project Name : FORMER CLEAN ZONE DRY CLEANERS Instrument ID : AIRLAB15 Lab File ID : R1528475 Sample No : WG1549026-2 Channel :	Lab Number : L2150027 Project Number : 2546.0007Y002 Calibration Date : 09/21/21 12:25 Init. Calib. Date(s) : 09/02/21 09/03/21 Init. Calib. Times : 21:27 02:04
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Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	1.627	1.643	-	-1	30	88	-.02
4-ethyl toluene	5.938	6.968	-	-17.3	30	101	-.03
1,3,5-trimethylbenzene	4.666	5.516	-	-18.2	30	107	-.03
tert-butylbenzene	5.049	5.579	-	-10.5	30	94	-.03
1,2,4-trimethylbenzene	4.573	5.826	-	-27.4	30	108	-.03
decane	5.065	4.693	-	7.3	30	79	-.03
Benzyl Chloride	3.445	3.545	-	-2.9	30	81	-.03
1,3-dichlorobenzene	3.057	3.892	-	-27.3	30	109	-.03
1,4-dichlorobenzene	3.011	3.861	-	-28.2	30	110	-.03
sec-butylbenzene	6.749	7.888	-	-16.9	30	102	-.03
p-isopropyltoluene	6.227	6.301	-	-1.2	30	84	-.03
1,2-dichlorobenzene	2.93	3.762	-	-28.4	30	111	-.02
n-butylbenzene	5.882	6.302	-	-7.1	30	90	-.03
1,2-dibromo-3-chloropropan	1.198	1.362	-	-13.7	30	94	-.02
undecane	5.567	4.612	-	17.2	30	68	-.02
dodecane	5.492	2.595	-	52.7*	30	35	-.03
1,2,4-trichlorobenzene	2.195	2.167	-	1.3	30	78	-.03
naphthalene	6.916	6.093	-	11.9	30	71	-.03
1,2,3-trichlorobenzene	2.16	1.92	-	11.1	30	70	-.03
hexachlorobutadiene	1.834	1.588	-	13.4	30	70	-.03

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528475.D
 Acq On : 21 Sep 2021 12:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-2,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:26:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	97	-0.05
2	chlorodifluoromethane	0.726	0.649	10.6	90	-0.04
3	propylene	0.486	0.439	9.7	93	-0.04
4	propane	0.618	0.483	21.8	77	-0.04
5	dichlorodifluoromethane	0.744	0.830	-11.6	107	-0.04
6 C	chloromethane	0.395	0.410	-3.8	108	-0.04
7	Freon-114	0.945	1.062	-12.4	111	-0.04
8 C	methanol	0.221	0.183	17.2	82	-0.04
9 C	vinyl chloride	0.570	0.491	13.9	88	-0.04
10 C	1,3-butadiene	0.419	0.420	-0.2	100	-0.04
11	butane	0.736	0.639	13.2	92	-0.04
13 C	bromomethane	0.431	0.422	2.1	98	-0.04
14 C	chloroethane	0.272	0.242	11.0	90	-0.05
15	ethanol	0.309	0.269	12.9	75	-0.05
16	dichlorofluoromethane	0.610	0.804	-31.8#	153#	-0.05
17 C	vinyl bromide	0.389	0.392	-0.8	101	-0.05
18 C	acrolein	0.211	0.193	8.5	91	-0.04
19	acetone	0.659	0.580	12.0	89	-0.05
20 C	acetonitrile	0.447	0.376	15.9	87	-0.05
21	trichlorofluoromethane	0.660	0.708	-7.3	108	-0.05
22	isopropyl alcohol	0.776	0.675	13.0	89	-0.05
23 C	acrylonitrile	0.350	0.363	-3.7	104	-0.05
24	pentane	0.621	0.912	-46.9#	160#	-0.05
25	ethyl ether	0.759	0.666	12.3	87	-0.05
26 C	1,1-dichloroethene	0.698	0.649	7.0	93	-0.05
27	tertiary butyl alcohol	0.892	0.743	16.7	81	-0.05
28 C	methylene chloride	0.485	0.519	-7.0	80	-0.05
29 C	3-chloropropene	0.728	0.613	15.8	74	-0.05
30 C	carbon disulfide	1.257	1.481	-17.8	95	-0.05
31	Freon 113	0.777	0.918	-18.1	109	-0.05
32	trans-1,2-dichloroethene	0.885	0.777	12.2	86	-0.05
33 C	1,1-dichloroethane	1.015	0.946	6.8	93	-0.06
34 C	MTBE	1.229	1.271	-3.4	102	-0.05
35 C	vinyl acetate	1.227	1.084	11.7	87	-0.05
36 C	2-butanone	1.224	1.156	5.6	92	-0.05
37	cis-1,2-dichloroethene	0.783	0.736	6.0	93	-0.05
38	Ethyl Acetate	0.229	0.212	7.4	90	-0.05
39 C	chloroform	0.859	0.916	-6.6	104	-0.05
40	Tetrahydrofuran	0.783	0.698	10.9	87	-0.05

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528475.D
 Acq On : 21 Sep 2021 12:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-2,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:26:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.604	0.604	0.0	98	-0.05
42 C	1,2-dichloroethane	0.580	0.549	5.3	95	-0.05
43 I	1,4-difluorobenzene	1.000	1.000	0.0	105	-0.05
44 C	hexane	0.490	0.395	19.4	85	-0.05
45	diisopropyl ether	0.215	0.177	17.7	86	-0.05
46	tert-butyl ethyl ether	0.786	0.578	26.5	78	-0.05
48 C	1,1,1-trichloroethane	0.295	0.289	2.0	107	-0.05
49	1,1-dichloropropene	0.302	0.300	0.7	107	-0.05
50 C	benzene	0.789	0.708	10.3	101	-0.05
52 C	carbon tetrachloride	0.243	0.265	-9.1	115	-0.05
53	cyclohexane	0.532	0.436	18.0	87	-0.05
54	tert-amyl methyl ether	0.589	0.514	12.7	93	-0.05
55	dibromomethane	0.238	0.203	14.7	93	-0.05
56 C	1,2-dichloropropane	0.304	0.259	14.8	91	-0.05
57	bromodichloromethane	0.398	0.385	3.3	100	-0.05
58 C	1,4-dioxane	0.196	0.174	11.2	92	-0.05
59 C	trichloroethene	0.298	0.275	7.7	98	-0.05
60 C	2,2,4-trimethylpentane	1.622	1.339	17.4	88	-0.05
61	methyl methacrylate	0.413	0.279	32.4#	71	-0.05
62	heptane	0.549	0.474	13.7	90	-0.05
63 C	cis-1,3-dichloropropene	0.347	0.363	-4.6	109	-0.04
64 C	4-methyl-2-pentanone	0.623	0.561	10.0	93	-0.04
65	trans-1,3-dichloropropene	0.314	0.280	10.8	92	-0.04
66 C	1,1,2-trichloroethane	0.280	0.272	2.9	105	-0.04
67 I	chlorobenzene-D5	1.000	1.000	0.0	87	-0.03
68 C	toluene	4.637	4.740	-2.2	96	-0.04
71	1,3-dichloropropane	1.827	2.020	-10.6	99	-0.04
72	2-hexanone	2.830	2.934	-3.7	88	-0.03
74	dibromochloromethane	1.748	2.182	-24.8	107	-0.04
75 C	1,2-dibromoethane	1.843	2.266	-23.0	110	-0.03
76	butyl acetate	0.471	0.520	-10.4	96	-0.03
77	octane	1.718	1.663	3.2	85	-0.04
78 C	tetrachloroethene	1.574	1.862	-18.3	105	-0.03
79	1,1,1,2-tetrachloroethane	1.316	1.456	-10.6	95	-0.03
80 C	chlorobenzene	3.157	3.687	-16.8	103	-0.03
81 C	ethylbenzene	5.616	6.086	-8.4	96	-0.03
83 C	m+p-xylene	4.468	4.915	-10.0	96	-0.03

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528475.D
 Acq On : 21 Sep 2021 12:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-2,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:26:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84 C	bromoform	1.461	1.963	-34.4#	108	-0.03
85 C	styrene	3.358	4.017	-19.6	105	-0.03
86 C	1,1,2,2-tetrachloroethane	3.306	3.650	-10.4	92	-0.03
87 C	o-xylene	4.413	4.963	-12.5	96	-0.03
88	1,2,3-trichloropropane	2.344	2.564	-9.4	96	-0.03
89	nonane	3.813	3.653	4.2	84	-0.03
91 C	isopropylbenzene	5.219	6.239	-19.5	107	-0.03
92	bromobenzene	3.078	3.296	-7.1	93	-0.03
93	2-chlorotoluene	1.646	1.700	-3.3	90	-0.03
94	n-propylbenzene	1.870	1.974	-5.6	92	-0.03
95	4-chlorotoluene	1.627	1.643	-1.0	88	-0.02
96	4-ethyl toluene	5.938	6.968	-17.3	101	-0.03
97	1,3,5-trimethylbenzene	4.666	5.516	-18.2	107	-0.03
98	tert-butylbenzene	5.049	5.579	-10.5	94	-0.03
99	1,2,4-trimethylbenzene	4.573	5.826	-27.4	108	-0.03
100	decane	5.065	4.693	7.3	79	-0.03
101 C	Benzyl Chloride	3.445	3.545	-2.9	81	-0.03
102	1,3-dichlorobenzene	3.057	3.892	-27.3	109	-0.03
103 C	1,4-dichlorobenzene	3.011	3.861	-28.2	110	-0.03
104	sec-butylbenzene	6.749	7.888	-16.9	102	-0.03
106	p-isopropyltoluene	6.227	6.301	-1.2	84	-0.03
107	1,2-dichlorobenzene	2.930	3.762	-28.4	111	-0.02
108	n-butylbenzene	5.882	6.302	-7.1	90	-0.03
111 C	1,2-dibromo-3-chloropropane	1.198	1.362	-13.7	94	-0.02
112	undecane	5.567	4.612	17.2	68	-0.02
114	dodecane	5.492	2.595	52.7#	35#	-0.03
115 C	1,2,4-trichlorobenzene	2.195	2.167	1.3	78	-0.03
116	naphthalene	6.916	6.093	11.9	71	-0.03
117	1,2,3-trichlorobenzene	2.160	1.920	11.1	70	-0.03
119 C	hexachlorobutadiene	1.834	1.588	13.4	70	-0.03

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528475.D
 Acq On : 21 Sep 2021 12:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-2,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:26:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.63	49	344610	10.000	ppbV	-0.05
Standard Area = 344610			Recovery	=	100.00%	
43) 1,4-difluorobenzene	11.91	114	879831	10.000	ppbV	-0.05
Standard Area = 879831			Recovery	=	100.00%	
67) chlorobenzene-D5	16.65	54	155534	10.000	ppbV	-0.03
Standard Area = 155534			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) chlorodifluoromethane	3.87	51	223573	8.939	ppbV	98
3) propylene	3.90	41	151445M6	9.049	ppbV	
4) propane	3.93	29	166283	7.813	ppbV	95
5) dichlorodifluoromethane	3.99	85	286177	11.163	ppbV	98
6) chloromethane	4.17	50	141280	10.369	ppbV	99
7) Freon-114	4.30	85	366078	11.245	ppbV	96
8) methanol	4.37	31	314705	41.238	ppbV	95
9) vinyl chloride	4.43	62	169361	8.627	ppbV	100
10) 1,3-butadiene	4.60	54	144630	10.007	ppbV	88
11) butane	4.67	43	220074	8.680	ppbV	99
13) bromomethane	4.92	94	145535	9.807	ppbV	100
14) chloroethane	5.14	64	83364	8.896	ppbV	97
15) ethanol	5.31	31	463303	43.483	ppbV	92
16) dichlorofluoromethane	5.28	67	277058	13.188	ppbV	98
17) vinyl bromide	5.57	106	135025	10.082	ppbV	92
18) acrolein	5.72	56	66495	9.160	ppbV	97
19) acetone	5.88	43	999956	44.003	ppbV	96
20) acetonitrile	5.56	41	129490	8.405	ppbV	99
21) trichlorofluoromethane	6.10	101	243822	10.717	ppbV	99
22) isopropyl alcohol	6.21	45	581126	21.727	ppbV	99
23) acrylonitrile	6.47	53	125057	10.377	ppbV	99
24) pentane	6.55	43	314376	14.681	ppbV	98
25) ethyl ether	6.58	31	229441	8.769	ppbV	95
26) 1,1-dichloroethene	6.88	61	223703	9.301	ppbV	97
27) tertiary butyl alcohol	6.94	59	256010	8.333	ppbV #	87
28) methylene chloride	7.04	49	178928	10.704	ppbV	94
29) 3-chloropropene	7.18	41	211325	8.423	ppbV #	96
30) carbon disulfide	7.34	76	510455	11.787	ppbV	97
31) Freon 113	7.37	101	316344	11.810	ppbV	93

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528475.D
 Acq On : 21 Sep 2021 12:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-2,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:26:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) trans-1,2-dichloroethene	8.18	61	267632	8.773	ppbV	94
33) 1,1-dichloroethane	8.42	63	325867	9.312	ppbV	99
34) MTBE	8.50	73	437971	10.343	ppbV #	91
35) vinyl acetate	8.64	43	373694	8.839	ppbV	100
36) 2-butanone	8.90	43	398443	9.444	ppbV	95
37) cis-1,2-dichloroethene	9.43	61	253659	9.407	ppbV	90
38) Ethyl Acetate	9.72	61	72926	9.229	ppbV	92
39) chloroform	9.78	83	315677	10.666	ppbV	97
40) Tetrahydrofuran	10.23	42	240629	8.916	ppbV	90
41) 2,2-dichloropropane	9.80	77	208065	9.994	ppbV	92
42) 1,2-dichloroethane	10.64	62	189066	9.459	ppbV	99
44) hexane	9.70	57	347546	8.059	ppbV	100
45) diisopropyl ether	9.70	87	155732	8.239	ppbV	94
46) tert-butyl ethyl ether	10.33	59	508189	7.345	ppbV	98
48) 1,1,1-trichloroethane	10.93	97	254658	9.827	ppbV	92
49) 1,1-dichloropropene	11.31	75	264376	9.964	ppbV	90
50) benzene	11.47	78	622686	8.974	ppbV	97
52) carbon tetrachloride	11.64	117	233279	10.899	ppbV	93
53) cyclohexane	11.79	56	383427	8.192	ppbV	95
54) tert-amyl methyl ether	12.18	73	452641	8.741	ppbV	94
55) dibromomethane	12.40	93	178368	8.515	ppbV	94
56) 1,2-dichloropropane	12.43	63	227716	8.504	ppbV	98
57) bromodichloromethane	12.66	83	339073	9.695	ppbV	99
58) 1,4-dioxane	12.70	88	153012	8.877	ppbV	96
59) trichloroethene	12.72	130	242202	9.228	ppbV	93
60) 2,2,4-trimethylpentane	12.76	57	1177850	8.253	ppbV	98
61) methyl methacrylate	12.97	41	245884	6.762	ppbV	91
62) heptane	13.09	43	416729	8.626	ppbV	97
63) cis-1,3-dichloropropene	13.74	75	319199	10.459	ppbV	93
64) 4-methyl-2-pentanone	13.78	43	493943	9.018	ppbV	97
65) trans-1,3-dichloropropene	14.37	75	246125	8.917	ppbV	91
66) 1,1,2-trichloroethane	14.57	97	239500	9.708	ppbV	93
68) toluene	14.88	91	737237	10.222	ppbV	99
71) 1,3-dichloropropane	14.91	76	314226	11.058	ppbV	89
72) 2-hexanone	15.16	43	456367	10.369	ppbV	91
74) dibromochloromethane	15.32	129	339402	12.487	ppbV	96
75) 1,2-dibromoethane	15.57	107	352421	12.293	ppbV	99
76) butyl acetate	15.82	73	80939	11.039	ppbV	73
77) octane	15.91	85	258623	9.681	ppbV	97
78) tetrachloroethene	16.04	166	289558	11.826	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528475.D
 Acq On : 21 Sep 2021 12:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-2,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:26:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : Default-LCS-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	1,1,1,2-tetrachloroethane	16.68	131	226483	11.061	ppbV	93
80)	chlorobenzene	16.69	112	573459	11.680	ppbV	99
81)	ethylbenzene	17.03	91	946653	10.839	ppbV	93
83)	m+p-xylene	17.19	91	1528859	22.002	ppbV	93
84)	bromoform	17.26	173	305382	13.435	ppbV	98
85)	styrene	17.52	104	624742	11.961	ppbV	98
86)	1,1,2,2-tetrachloroethane	17.60	83	567692	11.040	ppbV	100
87)	o-xylene	17.61	91	771937	11.247	ppbV	94
88)	1,2,3-trichloropropane	17.72	75	398812	10.940	ppbV	94
89)	nonane	17.80	43	568199	9.580	ppbV	95
91)	isopropylbenzene	18.11	105	970306	11.955	ppbV	95
92)	bromobenzene	18.18	77	512673	10.710	ppbV	90
93)	2-chlorotoluene	18.51	126	264358M6	10.324	ppbV	
94)	n-propylbenzene	18.53	120	307015	10.554	ppbV	93
95)	4-chlorotoluene	18.57	126	255492	10.097	ppbV	100
96)	4-ethyl toluene	18.65	105	1083719	11.734	ppbV	97
97)	1,3,5-trimethylbenzene	18.71	105	857864	11.822	ppbV	96
98)	tert-butylbenzene	19.04	119	867763	11.050	ppbV	97
99)	1,2,4-trimethylbenzene	19.04	105	906078	12.738	ppbV	92
100)	decane	19.11	57	729950	9.266	ppbV #	95
101)	Benzyl Chloride	19.16	91	551305	10.289	ppbV	100
102)	1,3-dichlorobenzene	19.17	146	605331	12.732	ppbV	99
103)	1,4-dichlorobenzene	19.22	146	600481	12.823	ppbV	96
104)	sec-butylbenzene	19.26	105	1226831	11.688	ppbV	100
106)	p-isopropyltoluene	19.38	119	980011	10.120	ppbV	93
107)	1,2-dichlorobenzene	19.51	146	585175	12.840	ppbV	99
108)	n-butylbenzene	19.73	91	980140	10.714	ppbV	100
111)	1,2-dibromo-3-chloropr...	19.88	75	211868	11.368	ppbV	91
112)	undecane	20.14	57	717400	8.286	ppbV	90
114)	dodecane	21.06	57	403544	4.724	ppbV	93
115)	1,2,4-trichlorobenzene	21.02	180	337003	9.873	ppbV	97
116)	naphthalene	21.13	128	947707	8.810	ppbV	96
117)	1,2,3-trichlorobenzene	21.39	180	298569	8.889	ppbV	95
119)	hexachlorobutadiene	21.46	225	246996	8.659	ppbV	97

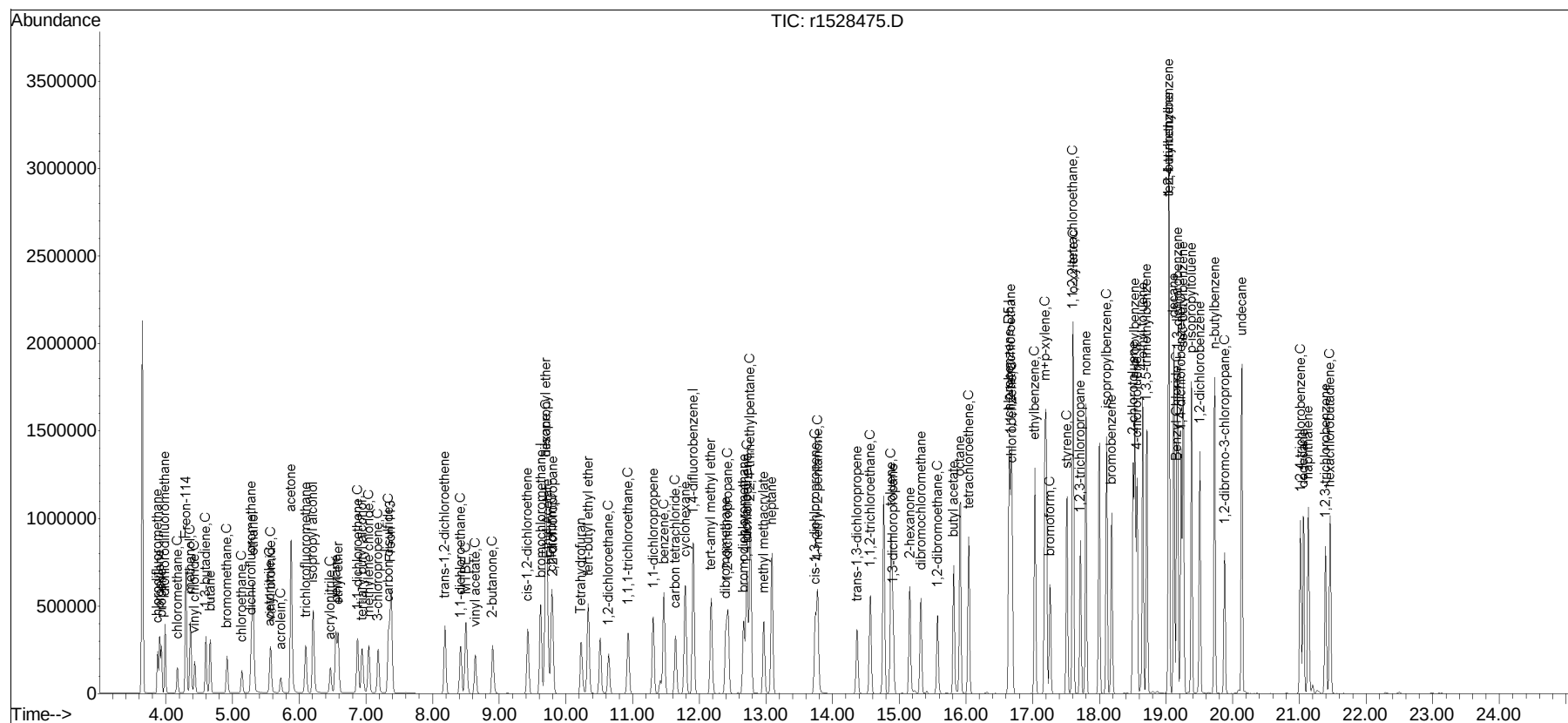
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : 0:\Forensics\Data\AirLab15\2021\09\0921T\
Data File : r1528475.D
Acq On    : 21 Sep 2021  12:25 PM
Operator  : AIRLAB15:RY
Sample    : WG1549026-2,3,250,250
Misc      : WG1549026,ICAL18279
ALS Vial  : 0      Sample Multiplier: 1
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Quant Time: Sep 21 13:26:52 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0921T\TFS15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 14:18:59 2021
Response via : Initial Calibration

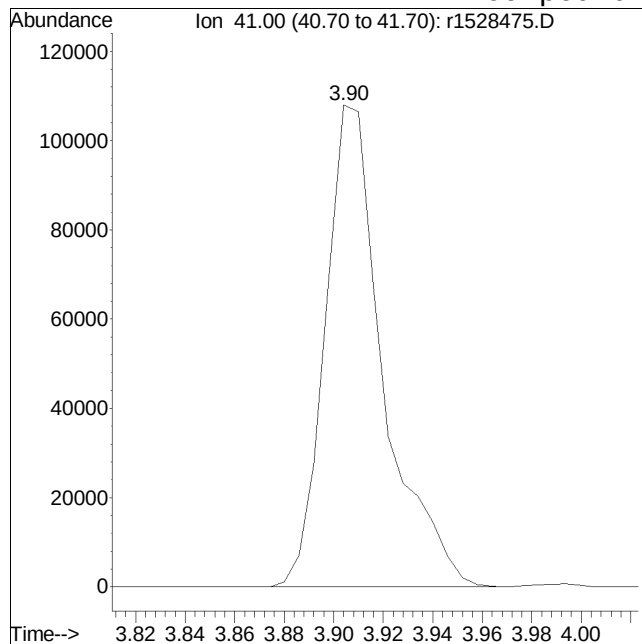
Sub List : Default-LCS-AP2 - All compounds listed1T\r1528475.D



Manual Integration/Negative Proof Report

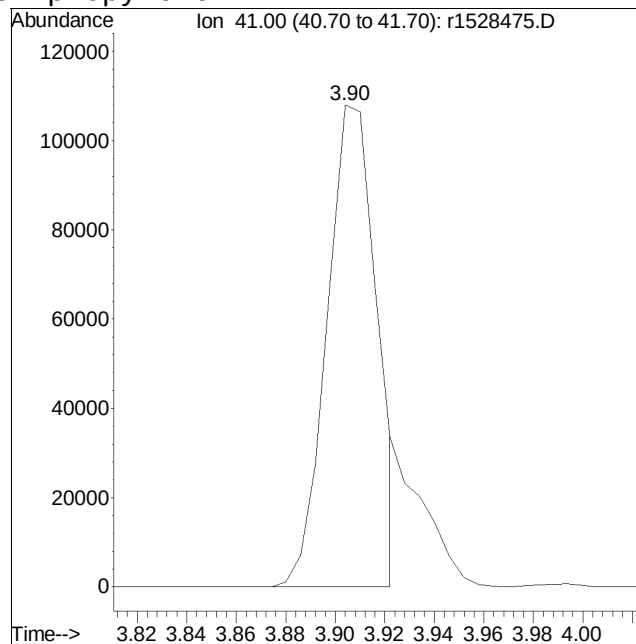
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TFS15_210902.M
Data File : r1528475.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:2: 5 Instrument :
Sample : WG1549026-2,3,250,250 Quant Date : 9/21/2021 2:26 pm

Compound #3: propylene



Original Peak Response = 175884

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

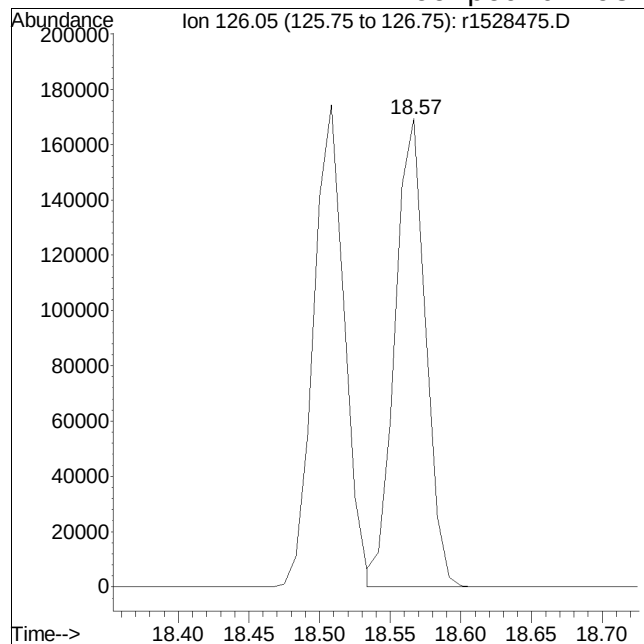


Manual Peak Response = 151445 M6

Manual Integration/Negative Proof Report

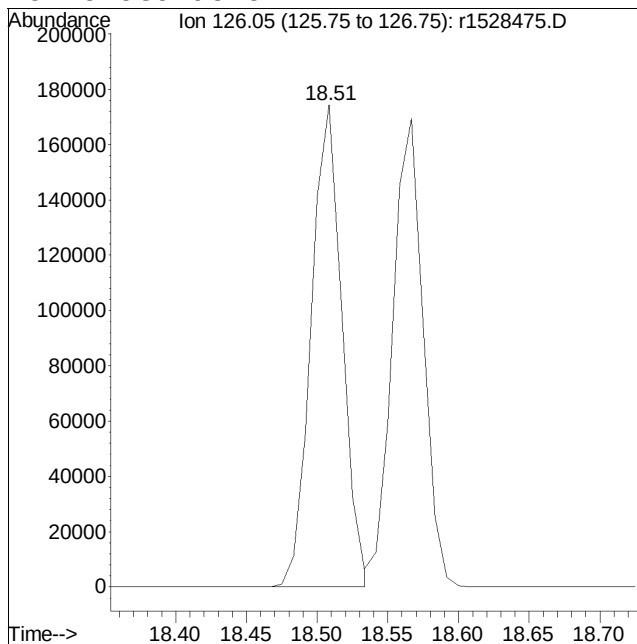
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528475.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:2: 5 Instrument :
Sample : WG1549026-2,3,250,250 Quant Date : 9/21/2021 2:26 pm

Compound #93: 2-chlorotoluene



Original Peak Response = 255492

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



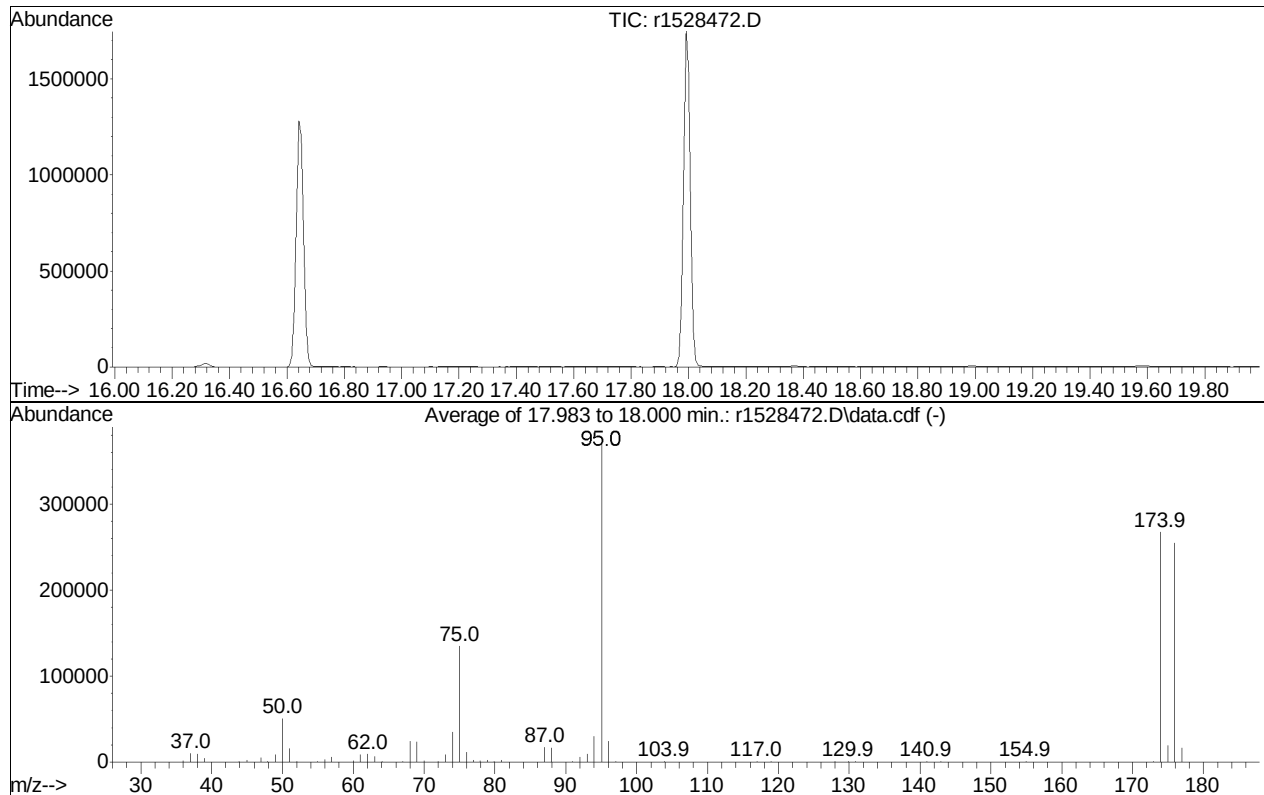
Manual Peak Response = 264358 M6

BFB

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528472.D
 Acq On : 21 Sep 2021 10:24 AM
 Operator : AIRLAB15:RY
 Sample : WG1549026-1,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Fri Sep 03 14:18:58 2021



Spectrum Information: Average of 17.983 to 18.000 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.6	50507	PASS
75	95	30	66	36.3	134815	PASS
95	95	100	100	100.0	371374	PASS
96	95	5	9	6.5	24266	PASS
173	174	0.00	2	0.5	1371	PASS
174	95	50	120	72.1	267655	PASS
175	174	4	9	7.2	19219	PASS
176	174	93	101	95.2	254706	PASS
177	176	5	9	6.5	16626	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528477.D
 Acq On : 21 Sep 2021 2:53 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-4,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 06:19:48 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.63	49	337412	10.000	ppbV	-0.05
Standard Area = 344610			Recovery =		97.91%	
43) 1,4-difluorobenzene	11.92	114	840532	10.000	ppbV	-0.04
Standard Area = 879831			Recovery =		95.53%	
67) chlorobenzene-D5	16.65	54	152101	10.000	ppbV	-0.03
Standard Area = 155534			Recovery =		97.79%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) propylene	3.91		0		N.D.	
5) dichlorodifluoromethane	3.92		0		N.D.	
6) chloromethane	0.00		0		N.D.	
7) Freon-114	0.00		0		N.D.	
9) vinyl chloride	0.00		0		N.D.	
10) 1,3-butadiene	0.00		0		N.D.	
13) bromomethane	0.00		0		N.D.	
14) chloroethane	0.00		0		N.D.	
15) ethanol	5.33	31	523	0.050	ppbV #	59
17) vinyl bromide	5.68		0		N.D.	
19) acetone	5.89		0		N.D.	
21) trichlorofluoromethane	0.00		0		N.D.	
22) isopropyl alcohol	6.22		0		N.D.	
26) 1,1-dichloroethene	0.00		0		N.D.	
27) tertiary butyl alcohol	0.00		0		N.D.	
28) methylene chloride	7.05		0		N.D.	
29) 3-chloropropene	0.00		0		N.D.	
30) carbon disulfide	0.00		0		N.D.	
31) Freon 113	0.00		0		N.D.	
32) trans-1,2-dichloroethene	0.00		0		N.D.	
33) 1,1-dichloroethane	0.00		0		N.D.	
34) MTBE	0.00		0		N.D.	
35) vinyl acetate	0.00		0		N.D.	
36) 2-butanone	0.00		0		N.D.	
37) cis-1,2-dichloroethene	0.00		0		N.D.	
38) Ethyl Acetate	0.00		0		N.D.	
39) chloroform	0.00		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528477.D
 Acq On : 21 Sep 2021 2:53 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-4,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 06:19:48 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Tetrahydrofuran	0.00		0		N.D.	
42) 1,2-dichloroethane	0.00		0		N.D.	
44) hexane	0.00		0		N.D.	
48) 1,1,1-trichloroethane	0.00		0		N.D.	
50) benzene	11.48		0		N.D.	
52) carbon tetrachloride	0.00		0		N.D.	
53) cyclohexane	0.00		0		N.D.	d
56) 1,2-dichloropropane	0.00		0		N.D.	
57) bromodichloromethane	0.00		0		N.D.	
58) 1,4-dioxane	0.00		0		N.D.	
59) trichloroethene	0.00		0		N.D.	
60) 2,2,4-trimethylpentane	0.00		0		N.D.	
62) heptane	0.00		0		N.D.	
63) cis-1,3-dichloropropene	0.00		0		N.D.	
64) 4-methyl-2-pentanone	0.00		0		N.D.	
65) trans-1,3-dichloropropene	0.00		0		N.D.	
66) 1,1,2-trichloroethane	0.00		0		N.D.	
68) toluene	14.88		0		N.D.	
72) 2-hexanone	0.00		0		N.D.	
74) dibromochloromethane	0.00		0		N.D.	
75) 1,2-dibromoethane	0.00		0		N.D.	
78) tetrachloroethene	0.00		0		N.D.	
80) chlorobenzene	0.00		0		N.D.	
81) ethylbenzene	0.00		0		N.D.	
83) m+p-xylene	0.00		0		N.D.	
84) bromoform	0.00		0		N.D.	
85) styrene	0.00		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.00		0		N.D.	
87) o-xylene	0.00		0		N.D.	
96) 4-ethyl toluene	18.73		0		N.D.	
97) 1,3,5-trimethylbenzene	18.73		0		N.D.	
99) 1,2,4-trimethylbenzene	19.06		0		N.D.	
101) Benzyl Chloride	19.16		0		N.D.	
102) 1,3-dichlorobenzene	19.18		0		N.D.	
103) 1,4-dichlorobenzene	19.23		0		N.D.	
107) 1,2-dichlorobenzene	19.52		0		N.D.	
115) 1,2,4-trichlorobenzene	21.02		0		N.D.	
119) hexachlorobutadiene	0.00		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528477.D
 Acq On : 21 Sep 2021 2:53 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-4,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 06:19:48 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

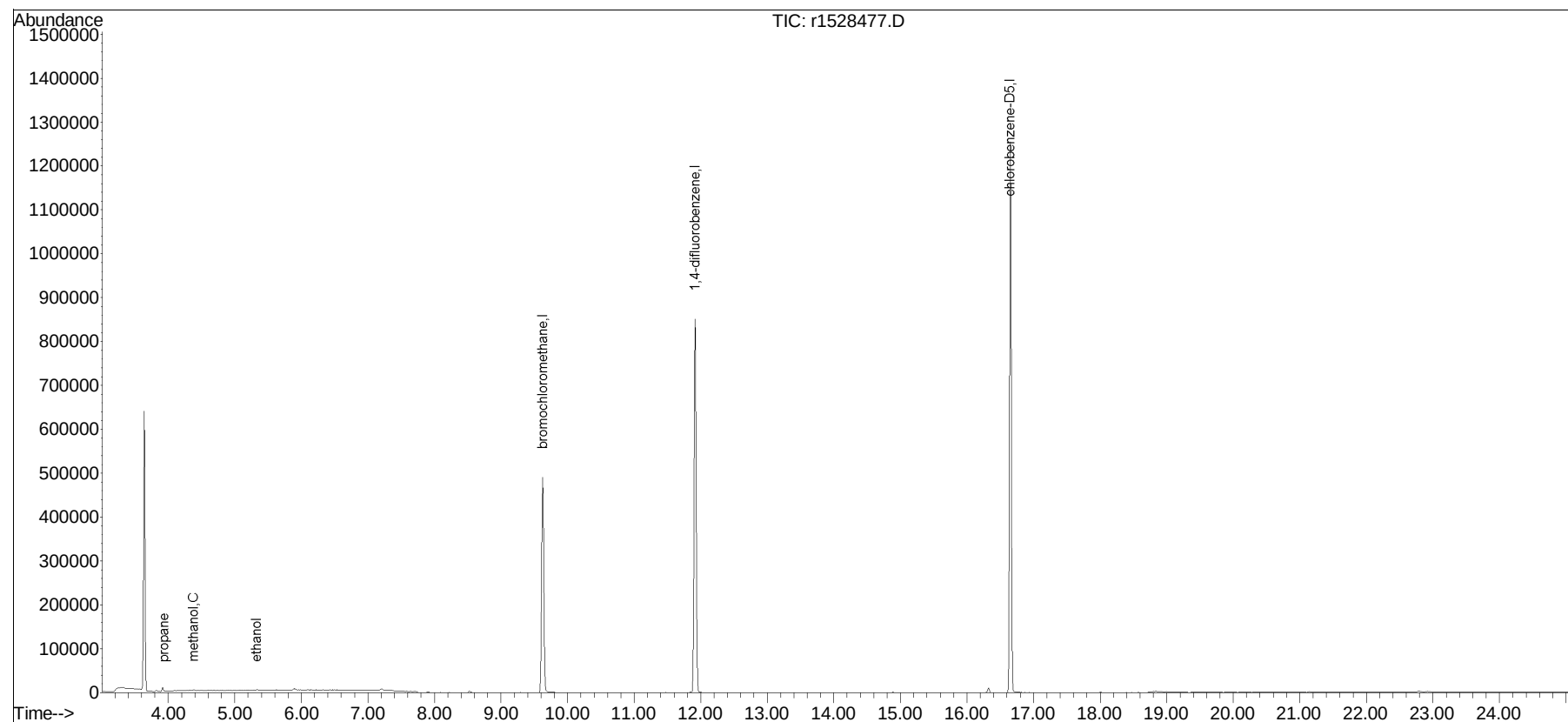
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

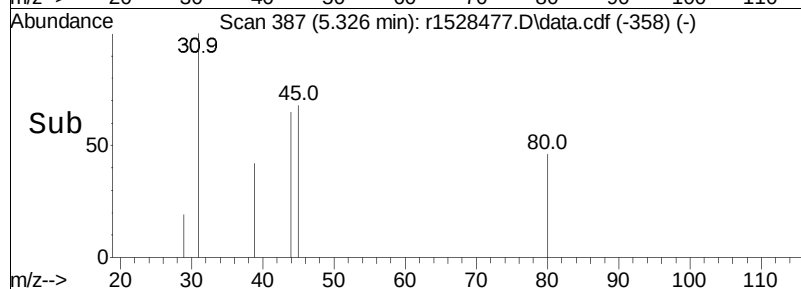
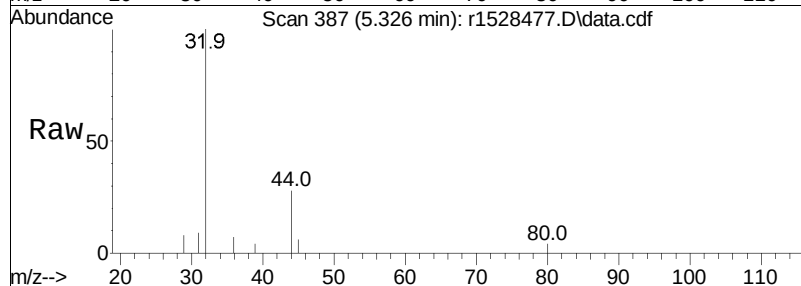
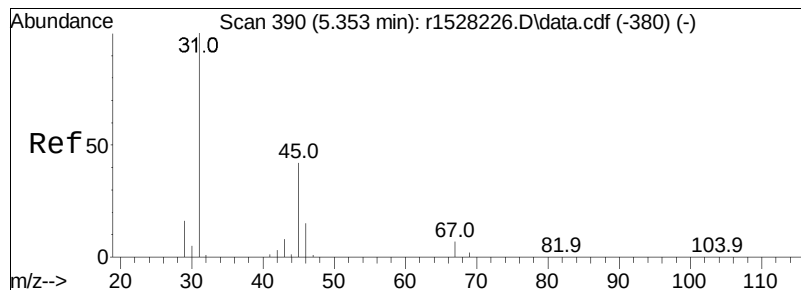
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
Data File : r1528477.D
Acq On : 21 Sep 2021 2:53 PM
Operator : AIRLAB15:RY
Sample : WG1549026-4,3,250,250
Misc : WG1549026,ICAL18279
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 06:19:48 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 14:18:59 2021
Response via : Initial Calibration

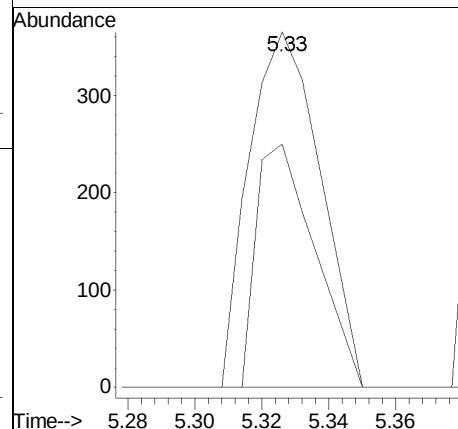
Sub List : Default-LCS-AP2 - All compounds listed1T\r1528475.D





#15
ethanol
Concen: 0.05 ppbV
RT: 5.33 min Scan# 387
Delta R.T. -0.027 min
Lab File: r1528477.D
Acq: 21 Sep 2021 2:53 PM

Tgt Ion	Ratio	Lower	Upper
31	100		
45	68.5	34.0	51.0#



Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\Airlab15\QMethod	: TFS15_210902.M
Data File	: r1528477.D	Operator : AIRLAB15:RY
Date Inj'd	: 9/21/2020 0:2: 3	Instrument :
Sample	: WG1549026-4,3,250,250	Quant Date : 9/22/2021 7:19 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528475.D
 Acq On : 21 Sep 2021 12:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-3,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:26:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	97	-0.05
2	chlorodifluoromethane	10.000	8.939	10.6	90	-0.04
3	propylene	10.000	9.049	9.5	93	-0.04
4	propane	10.000	7.813	21.9	77	-0.04
5	dichlorodifluoromethane	10.000	11.163	-11.6	107	-0.04
6 C	chloromethane	10.000	10.369	-3.7	108	-0.04
7	Freon-114	10.000	11.245	-12.4	111	-0.04
8 C	methanol	50.000	41.238	17.5	82	-0.04
9 C	vinyl chloride	10.000	8.627	13.7	88	-0.04
10 C	1,3-butadiene	10.000	10.007	-0.1	100	-0.04
11	butane	10.000	8.680	13.2	92	-0.04
13 C	bromomethane	10.000	9.807	1.9	98	-0.04
14 C	chloroethane	10.000	8.896	11.0	90	-0.05
15	ethanol	50.000	43.483	13.0	75	-0.05
16	dichlorofluoromethane	10.000	13.188	-31.9#	153	-0.05
17 C	vinyl bromide	10.000	10.082	-0.8	101	-0.05
18 C	acrolein	10.000	9.160	8.4	91	-0.04
19	acetone	50.000	44.003	12.0	89	-0.05
20 C	acetonitrile	10.000	8.405	16.0	87	-0.05
21	trichlorofluoromethane	10.000	10.717	-7.2	108	-0.05
22	isopropyl alcohol	25.000	21.727	13.1	89	-0.05
23 C	acrylonitrile	10.000	10.377	-3.8	104	-0.05
24	pentane	10.000	14.681	-46.8#	160	-0.05
25	ethyl ether	10.000	8.769	12.3	87	-0.05
26 C	1,1-dichloroethene	10.000	9.301	7.0	93	-0.05
27	tertiary butyl alcohol	10.000	8.333	16.7	81	-0.05
28 C	methylene chloride	10.000	10.704	-7.0	80	-0.05
29 C	3-chloropropene	10.000	8.423	15.8	74	-0.05
30 C	carbon disulfide	10.000	11.787	-17.9	95	-0.05
31	Freon 113	10.000	11.810	-18.1	109	-0.05
32	trans-1,2-dichloroethene	10.000	8.773	12.3	86	-0.05
33 C	1,1-dichloroethane	10.000	9.312	6.9	93	-0.06
34 C	MTBE	10.000	10.343	-3.4	102	-0.05
35 C	vinyl acetate	10.000	8.839	11.6	87	-0.05
36 C	2-butanone	10.000	9.444	5.6	92	-0.05
37	cis-1,2-dichloroethene	10.000	9.407	5.9	93	-0.05
38	Ethyl Acetate	10.000	9.229	7.7	90	-0.05
39 C	chloroform	10.000	10.666	-6.7	104	-0.05
40	Tetrahydrofuran	10.000	8.916	10.8	87	-0.05

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528475.D
 Acq On : 21 Sep 2021 12:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-3,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:26:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	10.000	9.994	0.1	98	-0.05
42 C	1,2-dichloroethane	10.000	9.459	5.4	95	-0.05
43 I	1,4-difluorobenzene	10.000	10.000	0.0	105	-0.05
44 C	hexane	10.000	8.059	19.4	85	-0.05
45	diisopropyl ether	10.000	8.239	17.6	86	-0.05
46	tert-butyl ethyl ether	10.000	7.345	26.6	78	-0.05
48 C	1,1,1-trichloroethane	10.000	9.827	1.7	107	-0.05
49	1,1-dichloropropene	10.000	9.964	0.4	107	-0.05
50 C	benzene	10.000	8.974	10.3	101	-0.05
52 C	carbon tetrachloride	10.000	10.899	-9.0	115	-0.05
53	cyclohexane	10.000	8.192	18.1	87	-0.05
54	tert-amyl methyl ether	10.000	8.741	12.6	93	-0.05
55	dibromomethane	10.000	8.515	14.8	93	-0.05
56 C	1,2-dichloropropane	10.000	8.504	15.0	91	-0.05
57	bromodichloromethane	10.000	9.695	3.0	100	-0.05
58 C	1,4-dioxane	10.000	8.877	11.2	92	-0.05
59 C	trichloroethene	10.000	9.228	7.7	98	-0.05
60 C	2,2,4-trimethylpentane	10.000	8.253	17.5	88	-0.05
61	methyl methacrylate	10.000	6.762	32.4#	71	-0.05
62	heptane	10.000	8.626	13.7	90	-0.05
63 C	cis-1,3-dichloropropene	10.000	10.459	-4.6	109	-0.04
64 C	4-methyl-2-pentanone	10.000	9.018	9.8	93	-0.04
65	trans-1,3-dichloropropene	10.000	8.917	10.8	92	-0.04
66 C	1,1,2-trichloroethane	10.000	9.708	2.9	105	-0.04
67 I	chlorobenzene-D5	10.000	10.000	0.0	87	-0.03
68 C	toluene	10.000	10.222	-2.2	96	-0.04
71	1,3-dichloropropane	10.000	11.058	-10.6	99	-0.04
72	2-hexanone	10.000	10.369	-3.7	88	-0.03
74	dibromochloromethane	10.000	12.487	-24.9	107	-0.04
75 C	1,2-dibromoethane	10.000	12.293	-22.9	110	-0.03
76	butyl acetate	10.000	11.039	-10.4	96	-0.03
77	octane	10.000	9.681	3.2	85	-0.04
78 C	tetrachloroethene	10.000	11.826	-18.3	105	-0.03
79	1,1,1,2-tetrachloroethane	10.000	11.061	-10.6	95	-0.03
80 C	chlorobenzene	10.000	11.680	-16.8	103	-0.03
81 C	ethylbenzene	10.000	10.839	-8.4	96	-0.03
83 C	m+p-xylene	20.000	22.002	-10.0	96	-0.03

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528475.D
 Acq On : 21 Sep 2021 12:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-3,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:26:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84 C	bromoform	10.000	13.435	-34.4#	108	-0.03
85 C	styrene	10.000	11.961	-19.6	105	-0.03
86 C	1,1,2,2-tetrachloroethane	10.000	11.040	-10.4	92	-0.03
87 C	o-xylene	10.000	11.247	-12.5	96	-0.03
88	1,2,3-trichloropropane	10.000	10.940	-9.4	96	-0.03
89	nonane	10.000	9.580	4.2	84	-0.03
91 C	isopropylbenzene	10.000	11.955	-19.6	107	-0.03
92	bromobenzene	10.000	10.710	-7.1	93	-0.03
93	2-chlorotoluene	10.000	10.324	-3.2	90	-0.03
94	n-propylbenzene	10.000	10.554	-5.5	92	-0.03
95	4-chlorotoluene	10.000	10.097	-1.0	88	-0.02
96	4-ethyl toluene	10.000	11.734	-17.3	101	-0.03
97	1,3,5-trimethylbenzene	10.000	11.822	-18.2	107	-0.03
98	tert-butylbenzene	10.000	11.050	-10.5	94	-0.03
99	1,2,4-trimethylbenzene	10.000	12.738	-27.4	108	-0.03
100	decane	10.000	9.266	7.3	79	-0.03
101 C	Benzyl Chloride	10.000	10.289	-2.9	81	-0.03
102	1,3-dichlorobenzene	10.000	12.732	-27.3	109	-0.03
103 C	1,4-dichlorobenzene	10.000	12.823	-28.2	110	-0.03
104	sec-butylbenzene	10.000	11.688	-16.9	102	-0.03
106	p-isopropyltoluene	10.000	10.120	-1.2	84	-0.03
107	1,2-dichlorobenzene	10.000	12.840	-28.4	111	-0.02
108	n-butylbenzene	10.000	10.714	-7.1	90	-0.03
111 C	1,2-dibromo-3-chloropropane	10.000	11.368	-13.7	94	-0.02
112	undecane	10.000	8.286	17.1	68	-0.02
114	dodecane	10.000	4.724	52.8#	35	-0.03
115 C	1,2,4-trichlorobenzene	10.000	9.873	1.3	78	-0.03
116	naphthalene	10.000	8.810	11.9	71	-0.03
117	1,2,3-trichlorobenzene	10.000	8.889	11.1	70	-0.03
119 C	hexachlorobutadiene	10.000	8.659	13.4	70	-0.03

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528475.D
 Acq On : 21 Sep 2021 12:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-3,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:26:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.63	49	344610	10.000	ppbV	-0.05
Standard Area = 344610			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.91	114	879831	10.000	ppbV	-0.05
Standard Area = 879831			Recovery = 100.00%			
67) chlorobenzene-D5	16.65	54	155534	10.000	ppbV	-0.03
Standard Area = 155534			Recovery = 100.00%			

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) propylene	3.90	41	151445M6	9.049	ppbV	
5) dichlorodifluoromethane	3.99	85	286177	11.163	ppbV	98
6) chloromethane	4.17	50	141280	10.369	ppbV	99
7) Freon-114	4.30	85	366078	11.245	ppbV	96
9) vinyl chloride	4.43	62	169361	8.627	ppbV	100
10) 1,3-butadiene	4.60	54	144630	10.007	ppbV	88
13) bromomethane	4.92	94	145535	9.807	ppbV	100
14) chloroethane	5.14	64	83364	8.896	ppbV	97
15) ethanol	5.31	31	463303	43.483	ppbV	92
17) vinyl bromide	5.57	106	135025	10.082	ppbV	92
19) acetone	5.88	43	999956	44.003	ppbV	96
21) trichlorofluoromethane	6.10	101	243822	10.717	ppbV	99
22) isopropyl alcohol	6.21	45	581126	21.727	ppbV	99
26) 1,1-dichloroethene	6.88	61	223703	9.301	ppbV	97
27) tertiary butyl alcohol	6.94	59	256010	8.333	ppbV #	87
28) methylene chloride	7.04	49	178928	10.704	ppbV	94
29) 3-chloropropene	7.18	41	211325	8.423	ppbV #	96
30) carbon disulfide	7.34	76	510455	11.787	ppbV	97
31) Freon 113	7.37	101	316344	11.810	ppbV	93
32) trans-1,2-dichloroethene	8.18	61	267632	8.773	ppbV	94
33) 1,1-dichloroethane	8.42	63	325867	9.312	ppbV	99
34) MTBE	8.50	73	437971	10.343	ppbV #	91
35) vinyl acetate	8.64	43	373694	8.839	ppbV	100
36) 2-butanone	8.90	43	398443	9.444	ppbV	95
37) cis-1,2-dichloroethene	9.43	61	253659	9.407	ppbV	90
38) Ethyl Acetate	9.72	61	72926	9.229	ppbV	92
39) chloroform	9.78	83	315677	10.666	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528475.D
 Acq On : 21 Sep 2021 12:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-3,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:26:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Tetrahydrofuran	10.23	42	240629	8.916	ppbV	90
42) 1,2-dichloroethane	10.64	62	189066	9.459	ppbV	99
44) hexane	9.70	57	347546	8.059	ppbV	100
48) 1,1,1-trichloroethane	10.93	97	254658	9.827	ppbV	92
50) benzene	11.47	78	622686	8.974	ppbV	97
52) carbon tetrachloride	11.64	117	233279	10.899	ppbV	93
53) cyclohexane	11.79	56	383427	8.192	ppbV	95
56) 1,2-dichloropropane	12.43	63	227716	8.504	ppbV	98
57) bromodichloromethane	12.66	83	339073	9.695	ppbV	99
58) 1,4-dioxane	12.70	88	153012	8.877	ppbV	96
59) trichloroethene	12.72	130	242202	9.228	ppbV	93
60) 2,2,4-trimethylpentane	12.76	57	1177850	8.253	ppbV	98
62) heptane	13.09	43	416729	8.626	ppbV	97
63) cis-1,3-dichloropropene	13.74	75	319199	10.459	ppbV	93
64) 4-methyl-2-pentanone	13.78	43	493943	9.018	ppbV	97
65) trans-1,3-dichloropropene	14.37	75	246125	8.917	ppbV	91
66) 1,1,2-trichloroethane	14.57	97	239500	9.708	ppbV	93
68) toluene	14.88	91	737237	10.222	ppbV	99
72) 2-hexanone	15.16	43	456367	10.369	ppbV	91
74) dibromochloromethane	15.32	129	339402	12.487	ppbV	96
75) 1,2-dibromoethane	15.57	107	352421	12.293	ppbV	99
78) tetrachloroethene	16.04	166	289558	11.826	ppbV	99
80) chlorobenzene	16.69	112	573459	11.680	ppbV	99
81) ethylbenzene	17.03	91	946653	10.839	ppbV	93
83) m+p-xylene	17.19	91	1528859	22.002	ppbV	93
84) bromoform	17.26	173	305382	13.435	ppbV	98
85) styrene	17.52	104	624742	11.961	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.60	83	567692	11.040	ppbV	100
87) o-xylene	17.61	91	771937	11.247	ppbV	94
96) 4-ethyl toluene	18.65	105	1083719	11.734	ppbV	97
97) 1,3,5-trimethylbenzene	18.71	105	857864	11.822	ppbV	96
99) 1,2,4-trimethylbenzene	19.04	105	906078	12.738	ppbV	92
101) Benzyl Chloride	19.16	91	551305	10.289	ppbV	100
102) 1,3-dichlorobenzene	19.17	146	605331	12.732	ppbV	99
103) 1,4-dichlorobenzene	19.22	146	600481	12.823	ppbV	96
107) 1,2-dichlorobenzene	19.51	146	585175	12.840	ppbV	99
115) 1,2,4-trichlorobenzene	21.02	180	337003	9.873	ppbV	97
119) hexachlorobutadiene	21.46	225	246996	8.659	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528475.D
 Acq On : 21 Sep 2021 12:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-3,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:26:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

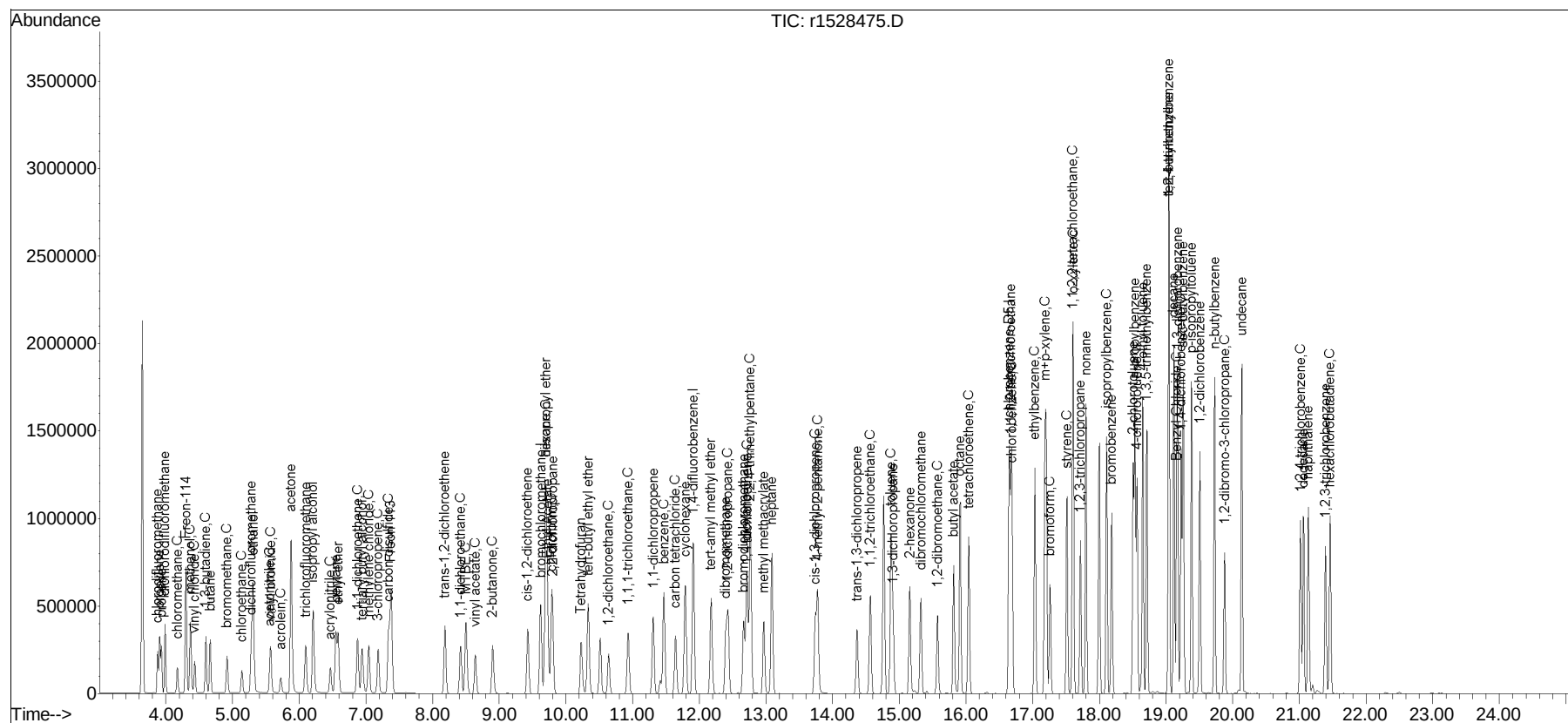
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

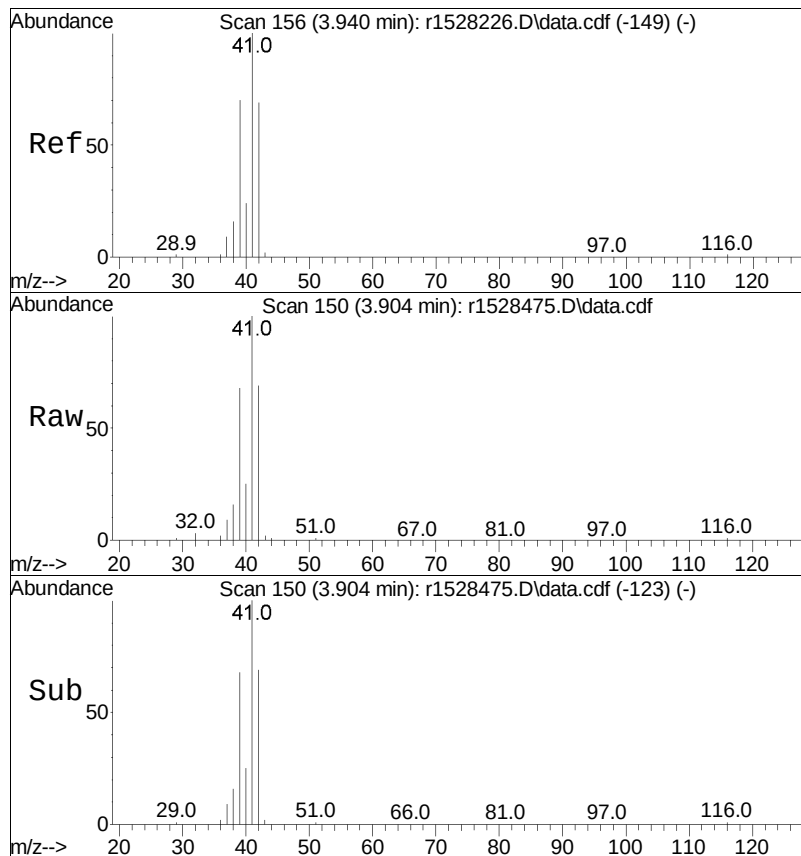
Quantitation Report (QT Reviewed)

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Data Path : 0:\Forensics\Data\AirLab15\2021\09\0921T\
Data File : r1528475.D
Acq On    : 21 Sep 2021  12:25 PM
Operator  : AIRLAB15:RY
Sample    : WG1549026-3,3,250,250
Misc      : WG1549026,ICAL18279
ALS Vial  : 0      Sample Multiplier: 1
```

Quant Time: Sep 21 13:26:52 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0921T\TFS15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 14:18:59 2021
Response via : Initial Calibration

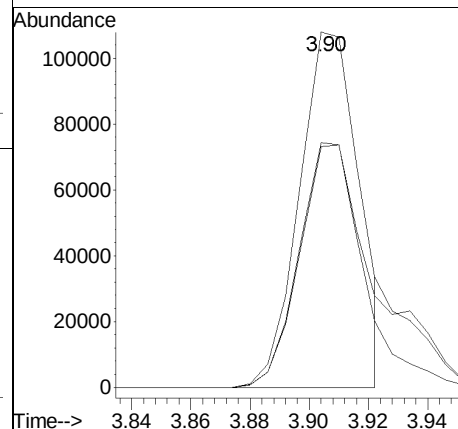
Sub List : Default-LCS-AP2 - All compounds listed1T\r1528475.D

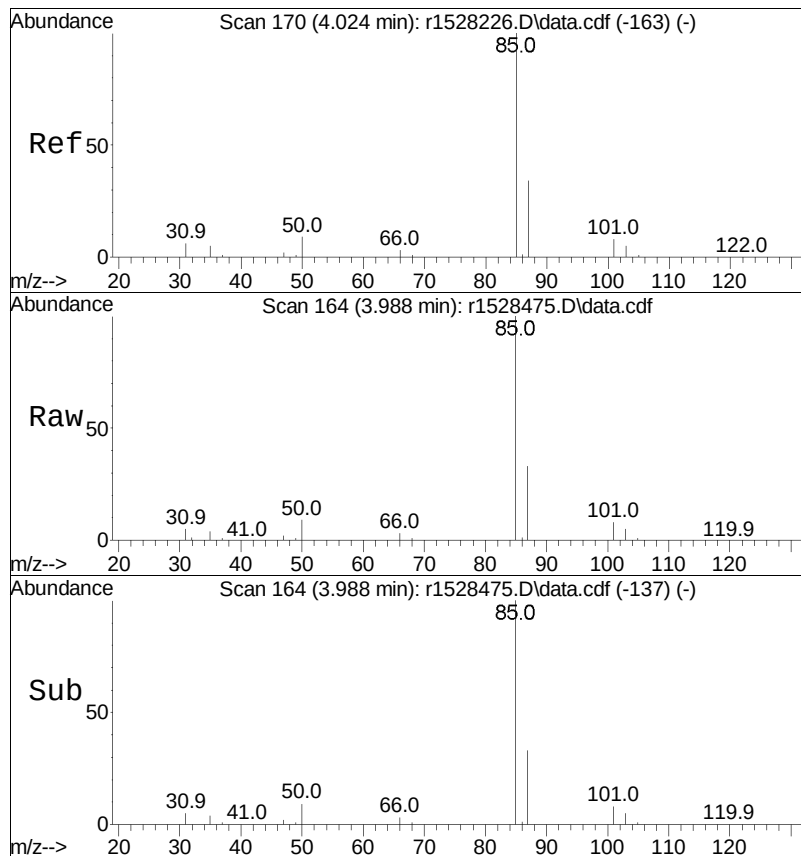




#3
 propylene
 Concen: 9.05 ppbV m
 RT: 3.90 min Scan# 150
 Delta R.T. -0.036 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

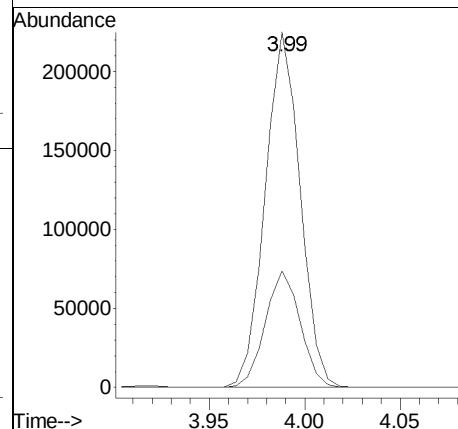
Tgt Ion:	41	Resp:	151445
Ion Ratio	Lower	Upper	
41	100		
42	68.9	55.4	83.0
39	67.8	55.8	83.6

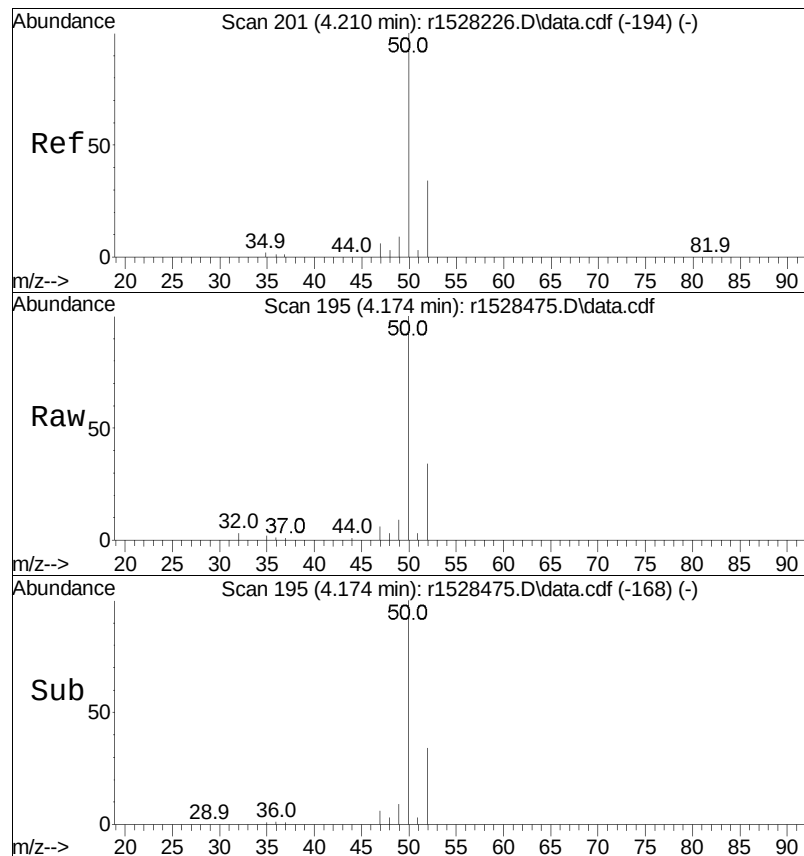




#5
 dichlorodifluoromethane
 Concen: 11.16 ppbV
 RT: 3.99 min Scan# 164
 Delta R.T. -0.036 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

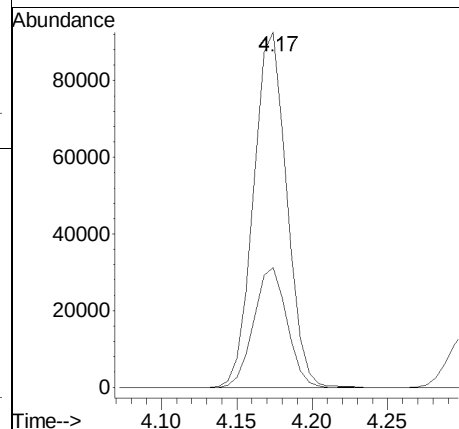
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.8	27.1	40.7

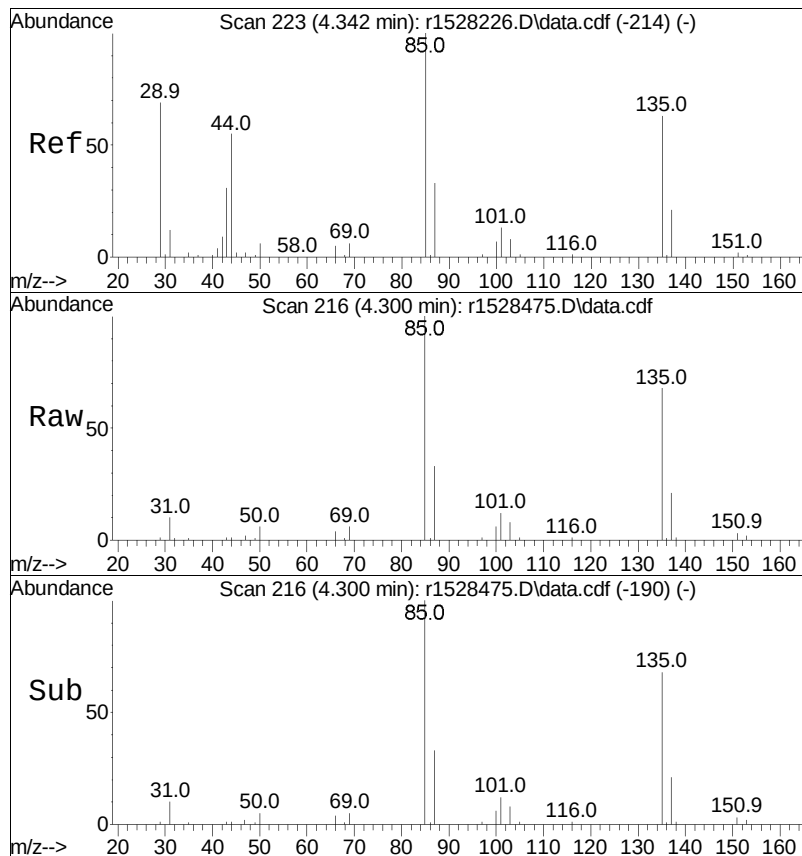




#6
 chloromethane
 Concen: 10.37 ppbV
 RT: 4.17 min Scan# 195
 Delta R.T. -0.036 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

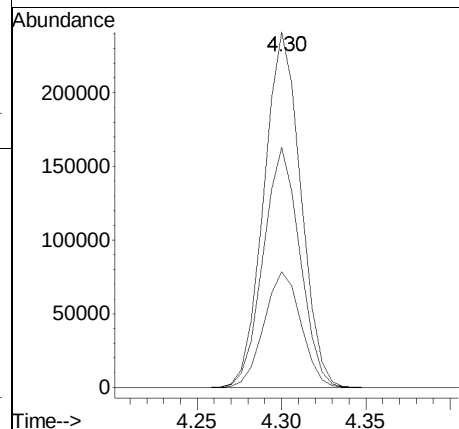
Tgt Ion:	50	Resp:	141280
Ion Ratio	Lower	Upper	
50	100		
52	33.7	27.6	41.4

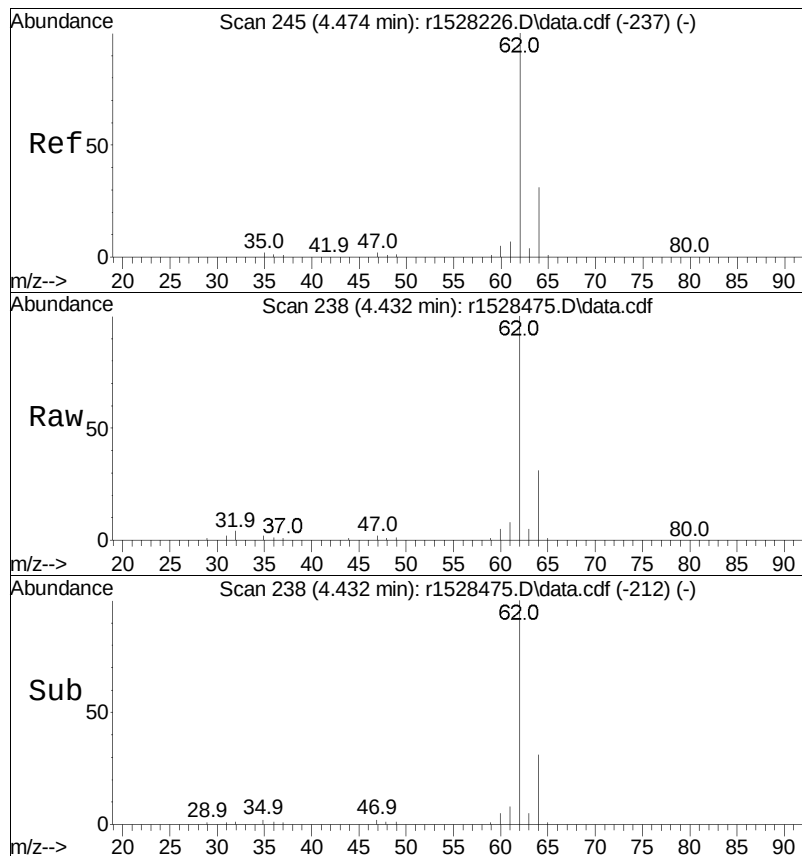




#7
 Freon-114
 Concen: 11.24 ppbV
 RT: 4.30 min Scan# 216
 Delta R.T. -0.042 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

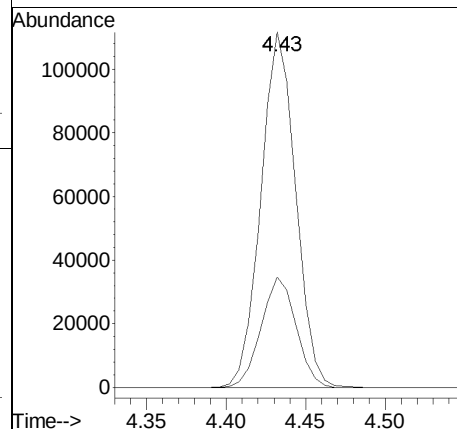
Tgt Ion:	85	Resp:	366078
Ion Ratio	Lower	Upper	
85	100		
87	32.5	26.6	40.0
135	67.6	50.6	75.8

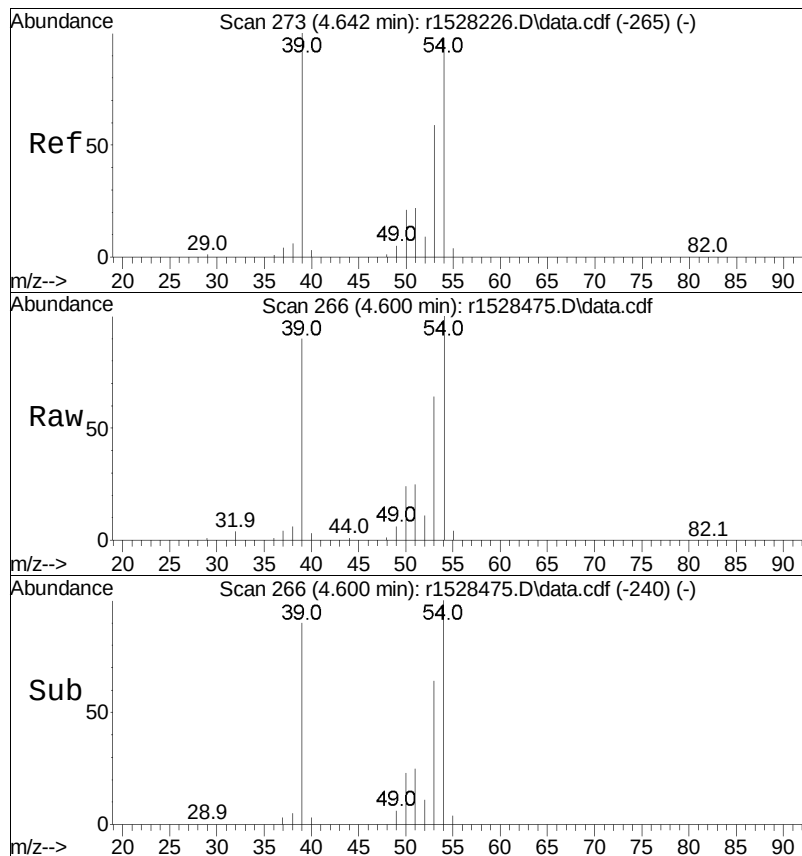




#9
 vinyl chloride
 Concen: 8.63 ppbV
 RT: 4.43 min Scan# 238
 Delta R.T. -0.042 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

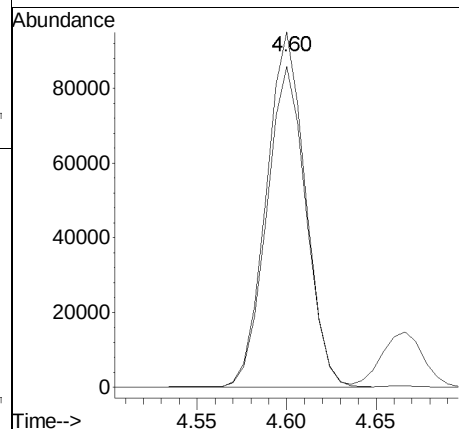
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.7	37.1

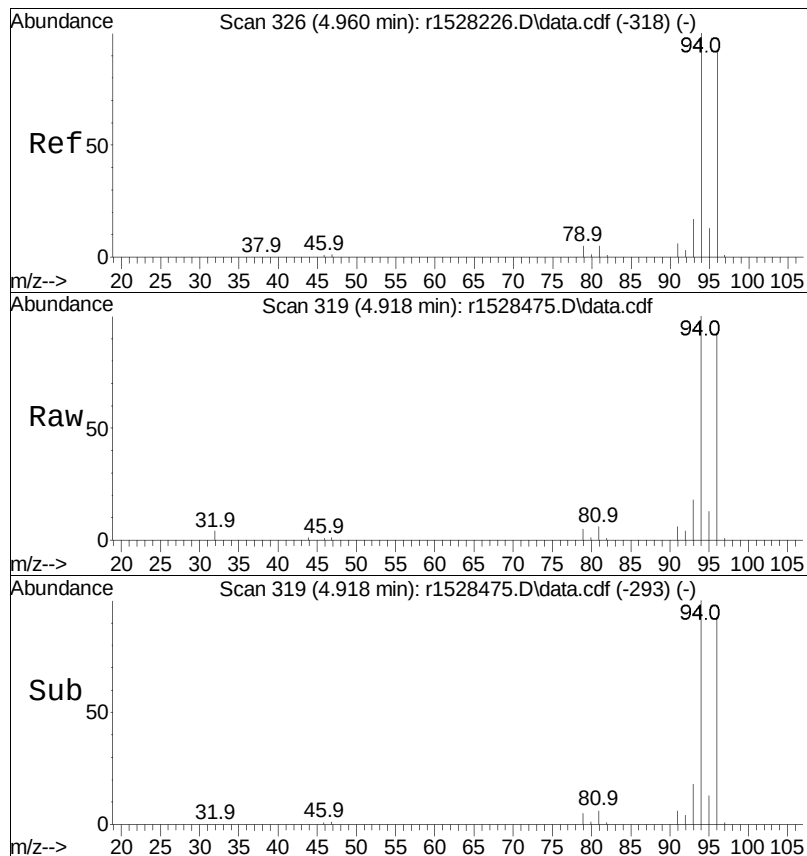




#10
 1,3-butadiene
 Concen: 10.01 ppbV
 RT: 4.60 min Scan# 266
 Delta R.T. -0.042 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

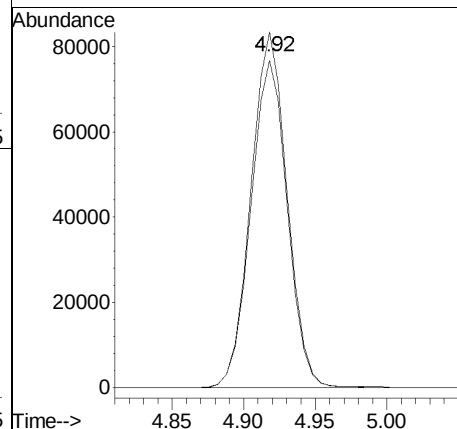
Tgt	Ion	Resp	Lower	Upper
54	100	144630		
39	90.3	81.9	122.9	

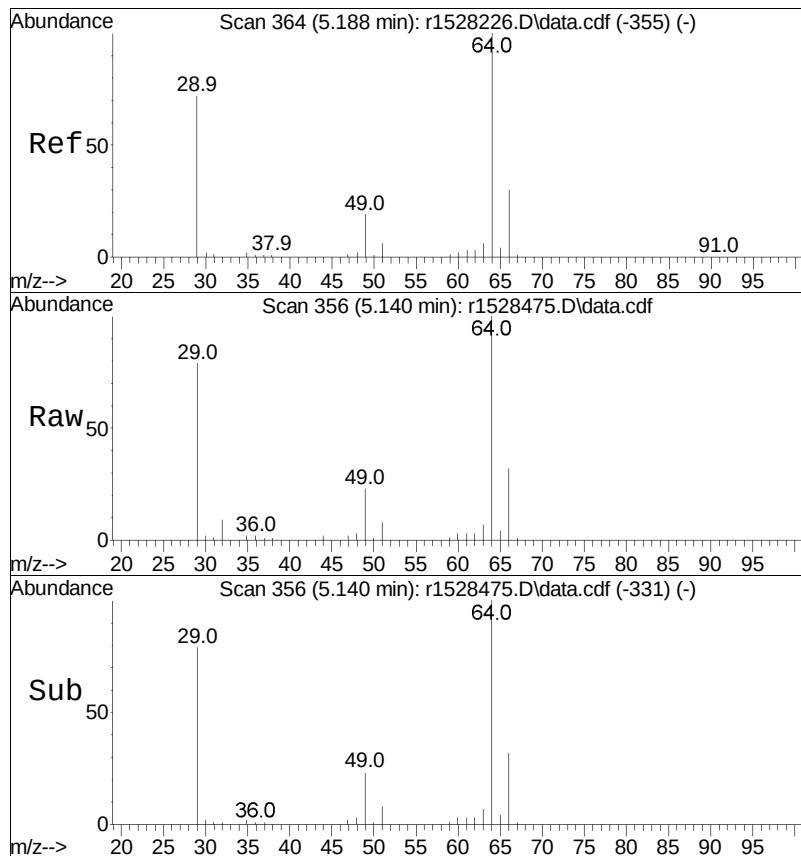




#13
bromomethane
Concen: 9.81 ppbV
RT: 4.92 min Scan# 319
Delta R.T. -0.042 min
Lab File: r1528475.D
Acq: 21 Sep 2021 12:25 PM

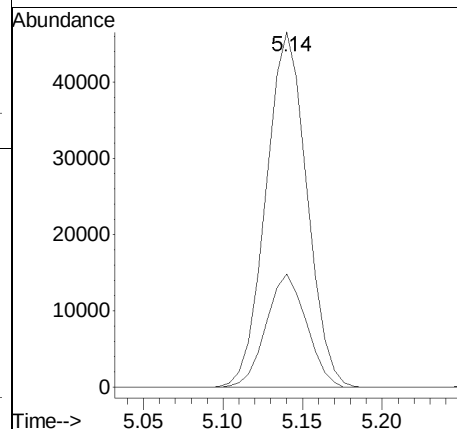
Tgt	Ion	Resp	Lower	Upper
94	100			
96	92.0	73.4	110.0	

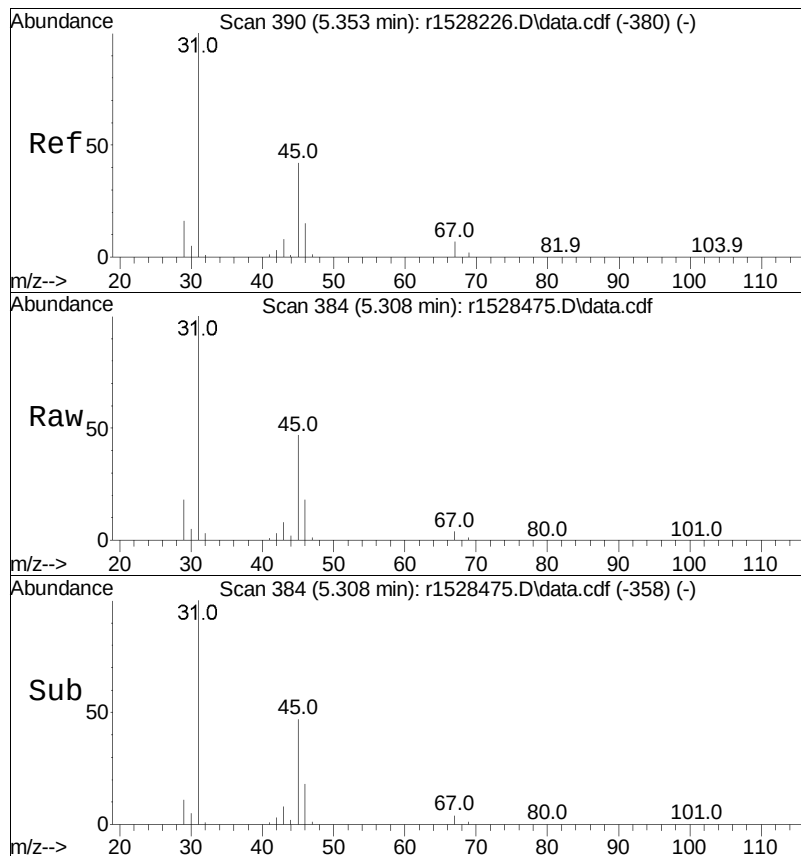




#14
 chloroethane
 Concen: 8.90 ppbV
 RT: 5.14 min Scan# 356
 Delta R.T. -0.048 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

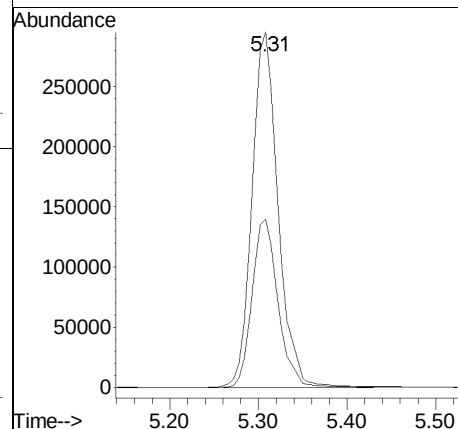
Tgt Ion	Ratio	Lower	Upper
64	100		
66	31.9	24.2	36.4

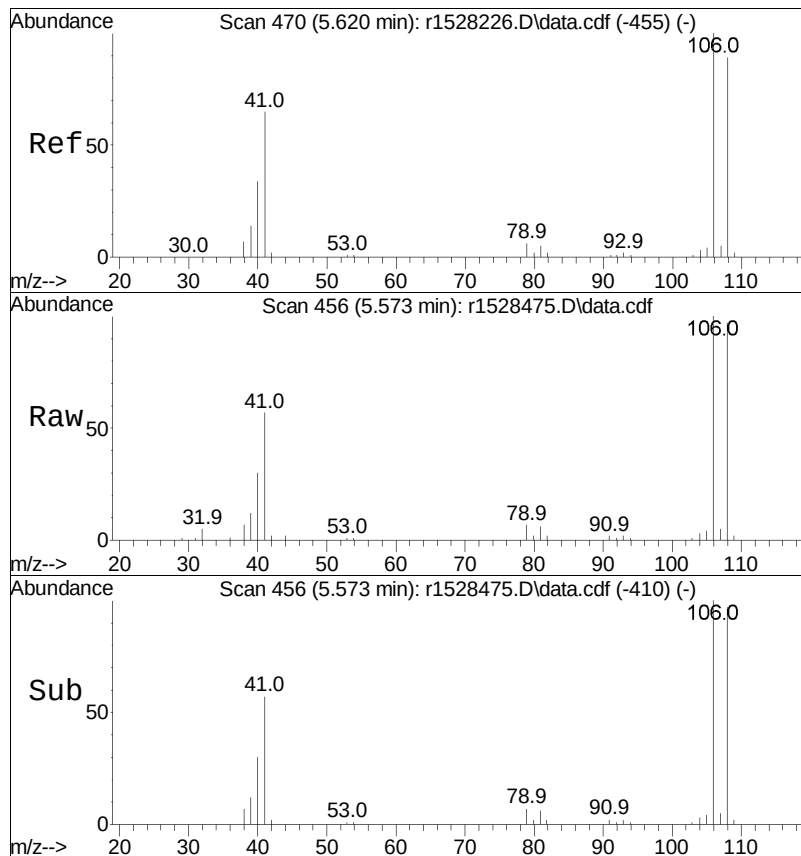




#15
 ethanol
 Concen: 43.48 ppbV
 RT: 5.31 min Scan# 384
 Delta R.T. -0.045 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

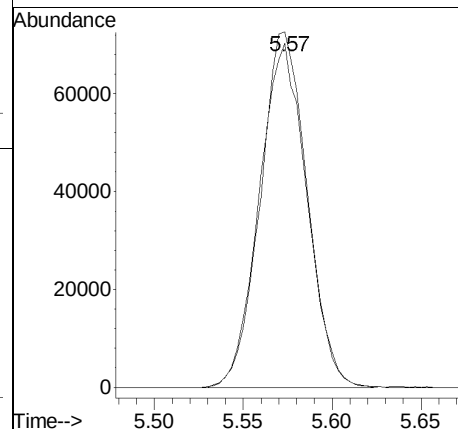
Tgt Ion:	31	Resp:	463303
Ion Ratio	Lower	Upper	
31	100		
45	47.4	34.0	51.0

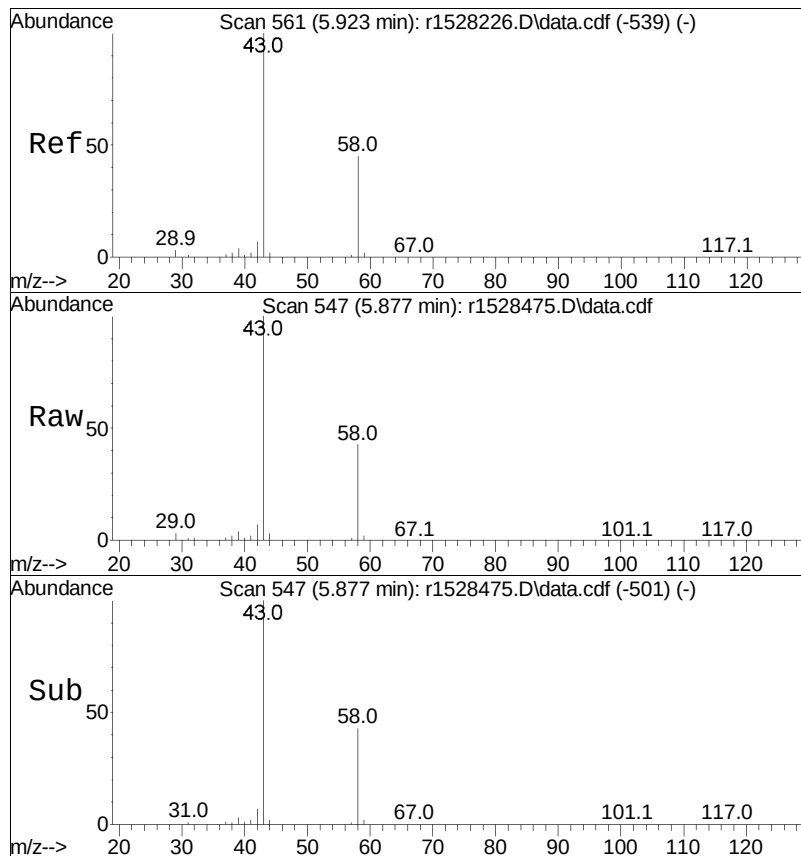




#17
 vinyl bromide
 Concen: 10.08 ppbV
 RT: 5.57 min Scan# 456
 Delta R.T. -0.047 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

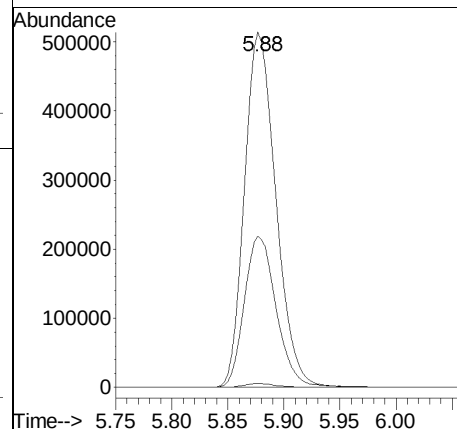
Tgt	Ion	Ratio	Lower	Upper
106	100			
108	96.8	71.5	107.3	

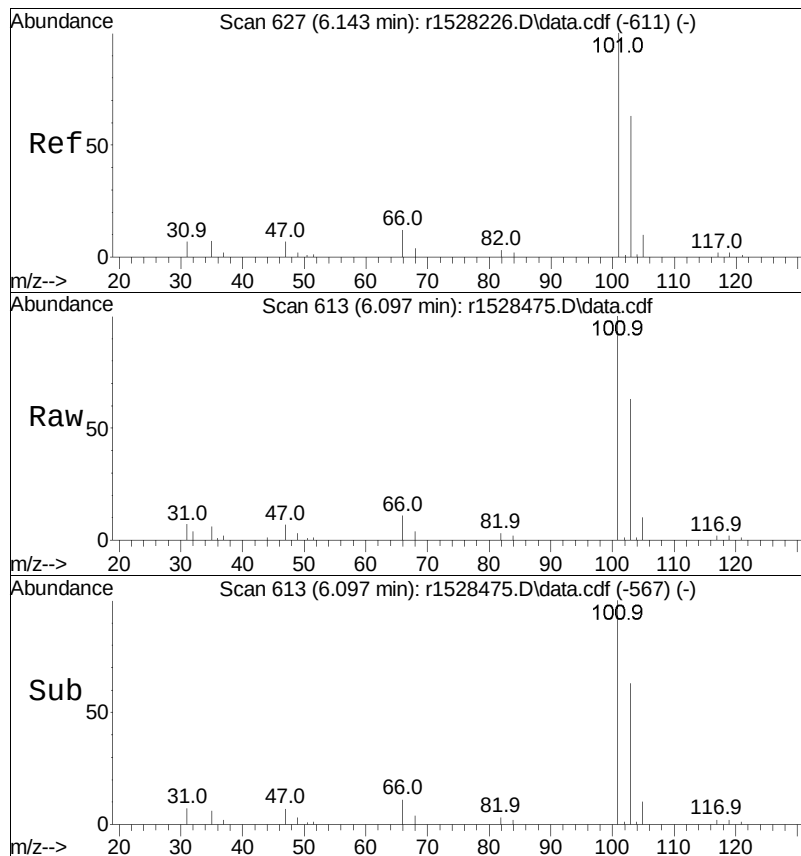




#19
acetone
Concen: 44.00 ppbV
RT: 5.88 min Scan# 547
Delta R.T. -0.047 min
Lab File: r1528475.D
Acq: 21 Sep 2021 12:25 PM

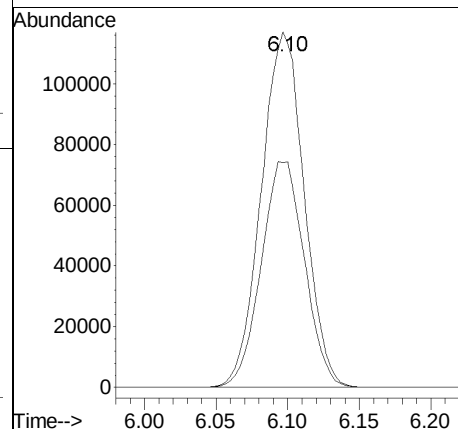
Tgt Ion	Ratio	Lower	Upper
43	100		
58	42.6	36.2	54.2
57	1.1	0.9	1.3

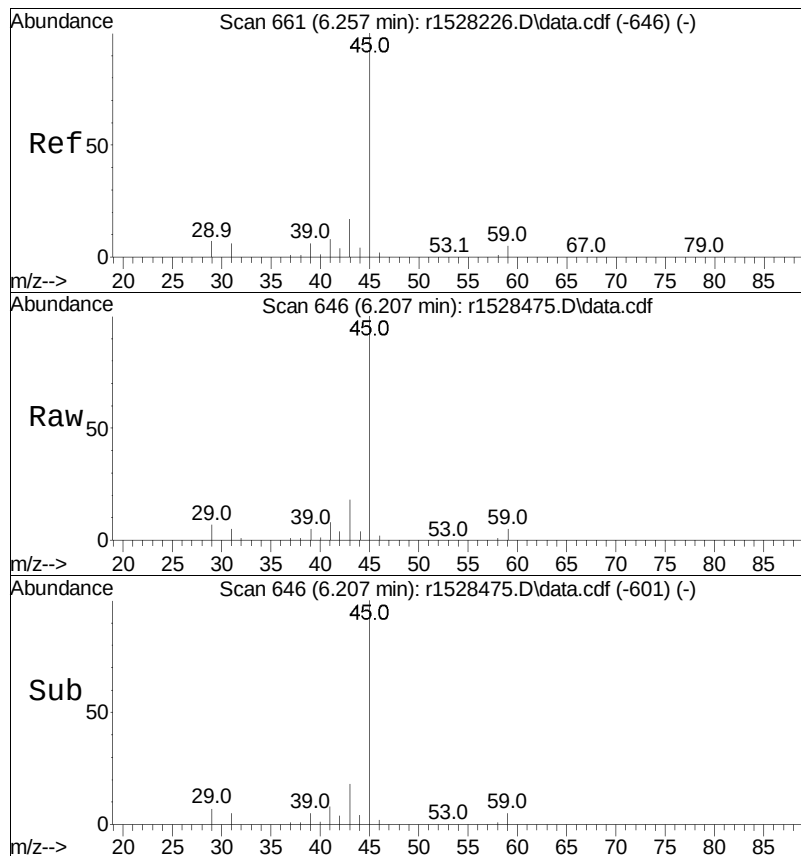




#21
trichlorofluoromethane
Concen: 10.72 ppbV
RT: 6.10 min Scan# 613
Delta R.T. -0.047 min
Lab File: r1528475.D
Acq: 21 Sep 2021 12:25 PM

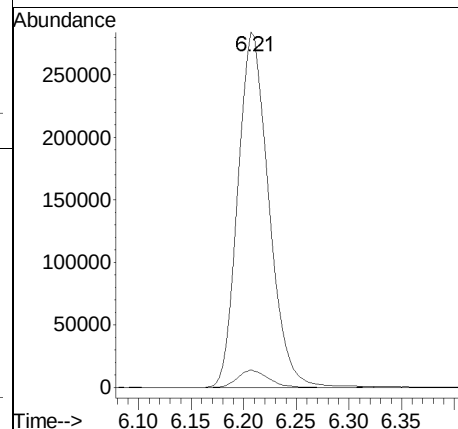
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	63.3	50.2	75.4	

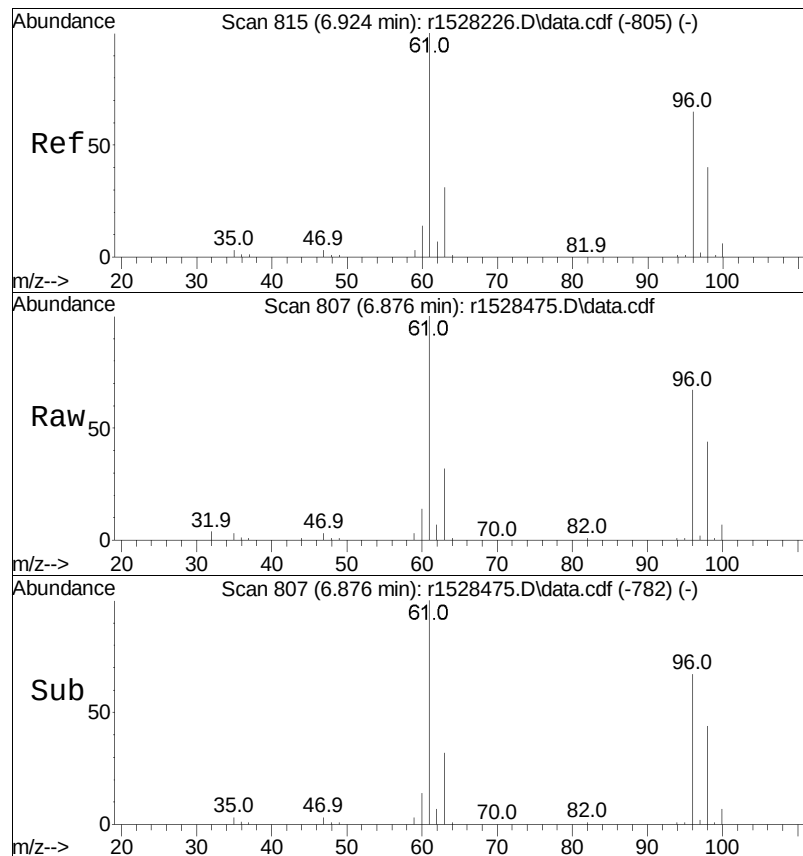




#22
 isopropyl alcohol
 Concen: 21.73 ppbV
 RT: 6.21 min Scan# 646
 Delta R.T. -0.050 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

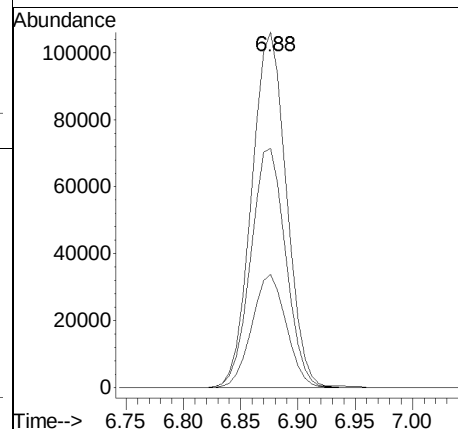
Tgt Ion	Ratio	Lower	Upper
45	100		
59	5.0	4.2	6.2

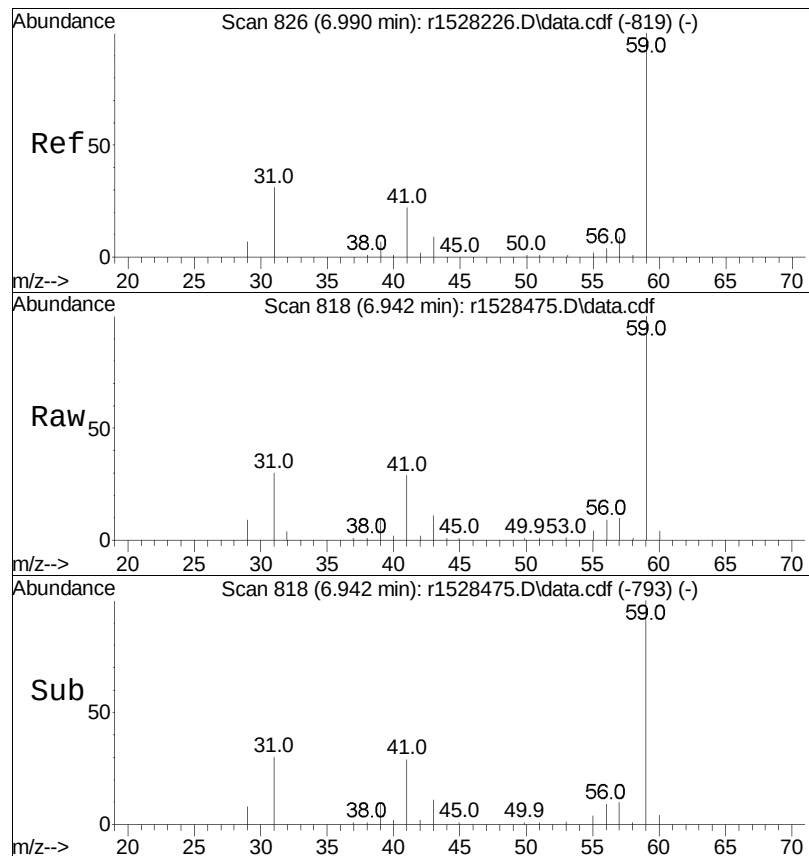




#26
 1,1-dichloroethene
 Concen: 9.30 ppbV
 RT: 6.88 min Scan# 807
 Delta R.T. -0.048 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

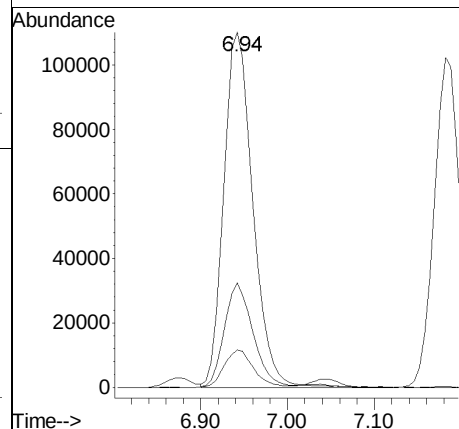
Tgt Ion:	61	Resp:	223703
Ion Ratio	Lower	Upper	
61	100		
96	67.3	51.7	77.5
63	31.8	24.8	37.2

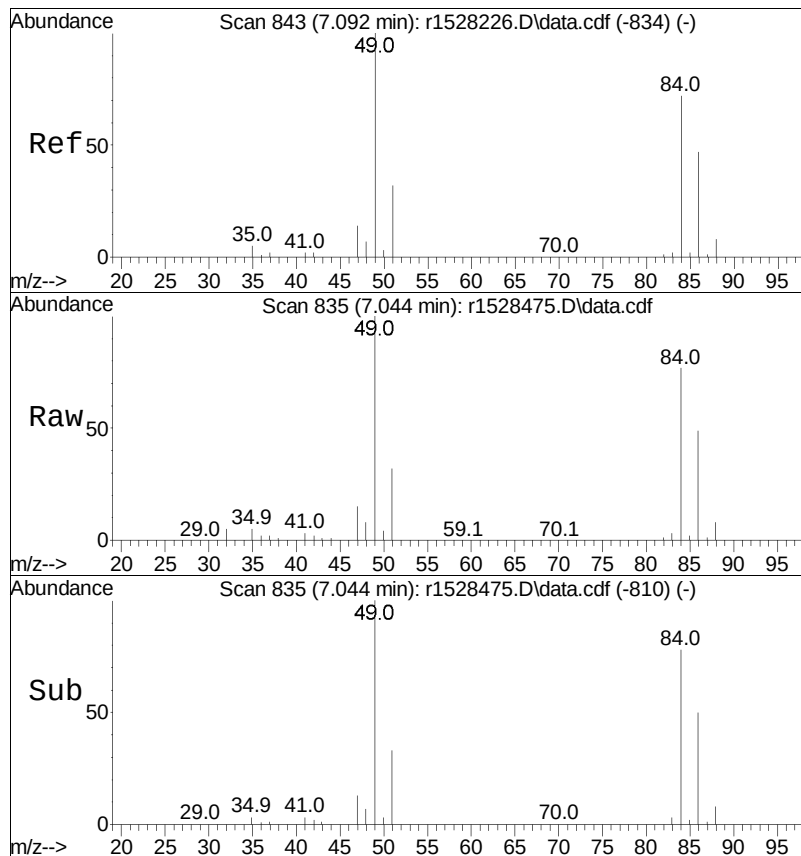




#27
 tertiary butyl alcohol
 Concen: 8.33 ppbV
 RT: 6.94 min Scan# 818
 Delta R.T. -0.048 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

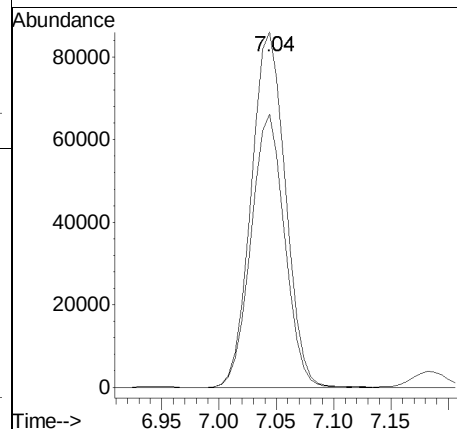
Tgt Ion	Ratio	Lower	Upper
59	100		
41	29.4	17.4	26.0#
43	10.5	7.3	10.9

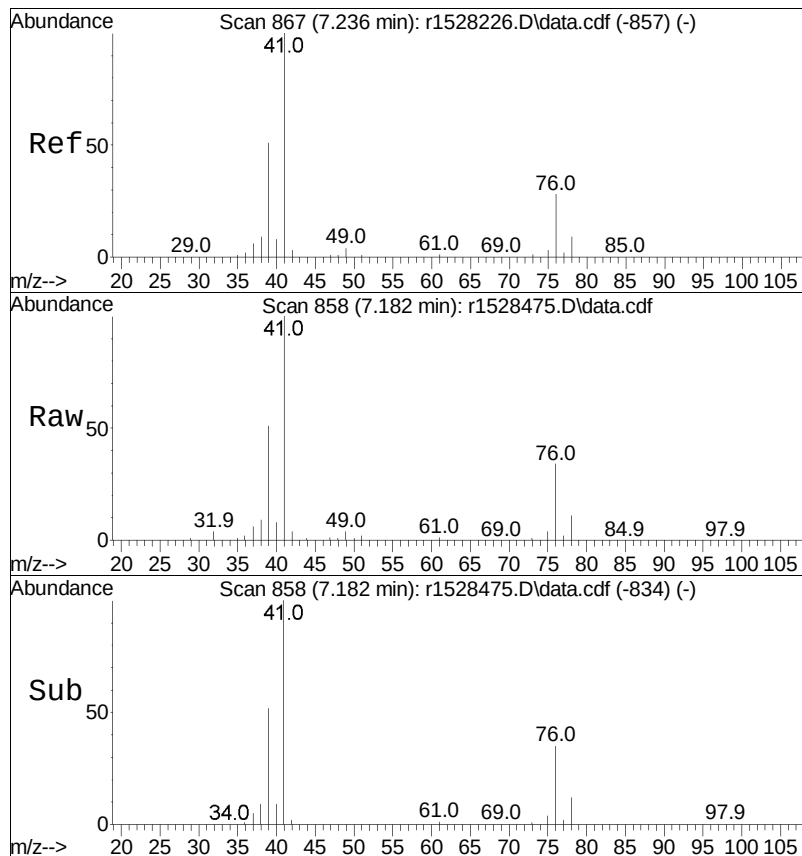




#28
 methylene chloride
 Concen: 10.70 ppbV
 RT: 7.04 min Scan# 835
 Delta R.T. -0.048 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

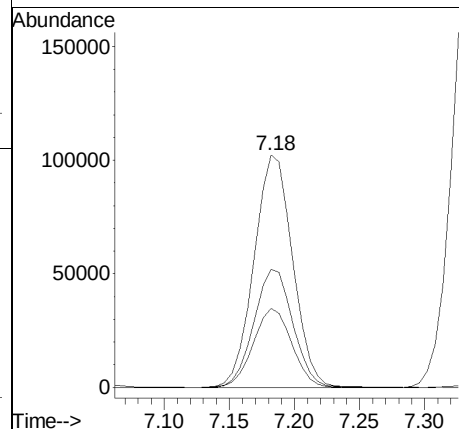
Tgt Ion:	49	84	Ratio	100	76.9	Resp:	178928	Lower	Upper

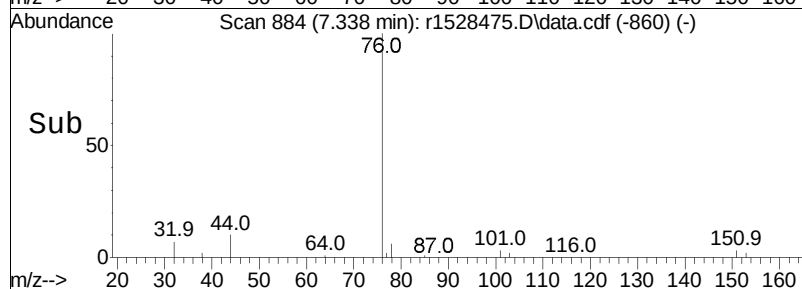
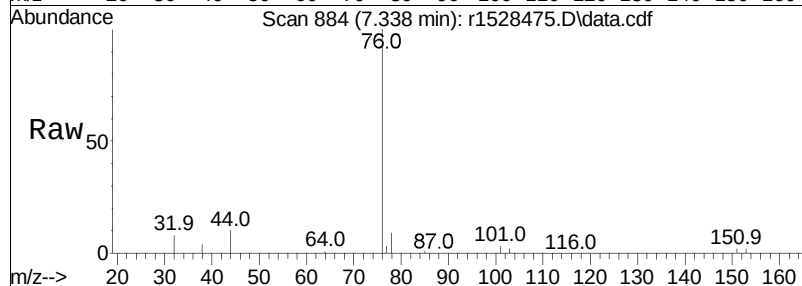
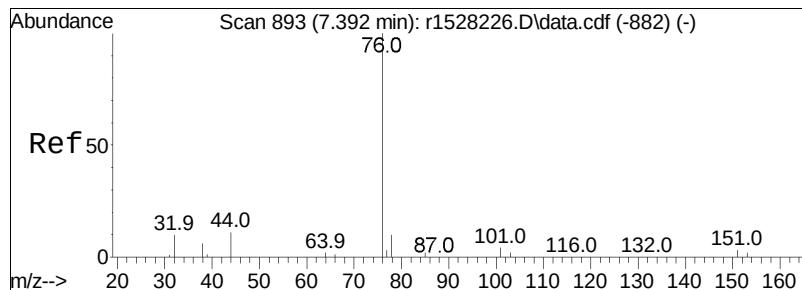




#29
 3-chloropropene
 Concen: 8.42 ppbV
 RT: 7.18 min Scan# 858
 Delta R.T. -0.054 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

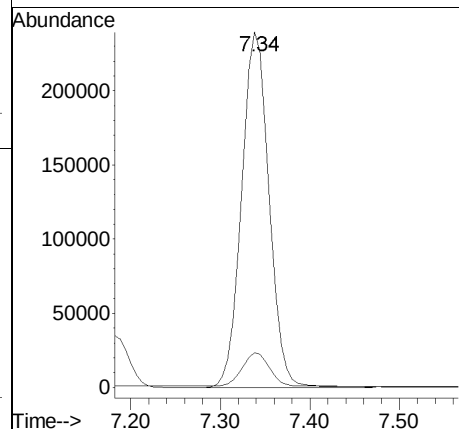
Tgt Ion:	41	Resp:	211325
Ion Ratio	Lower	Upper	
41	100		
39	50.8	40.6	60.8
76	34.0	22.4	33.6#

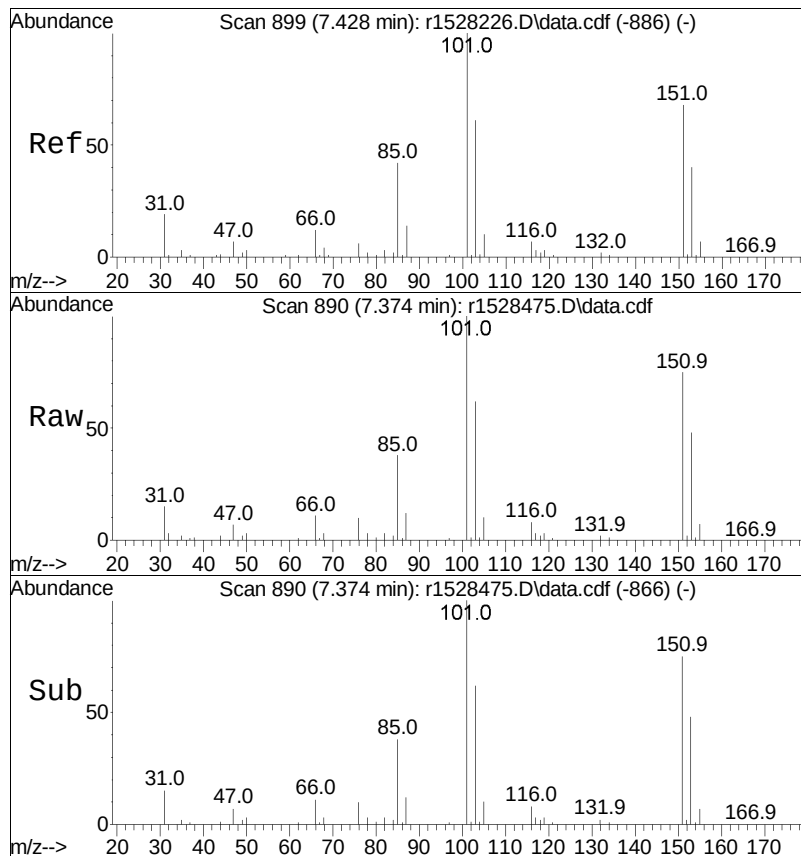




#30
carbon disulfide
Concen: 11.79 ppbV
RT: 7.34 min Scan# 884
Delta R.T. -0.054 min
Lab File: r1528475.D
Acq: 21 Sep 2021 12:25 PM

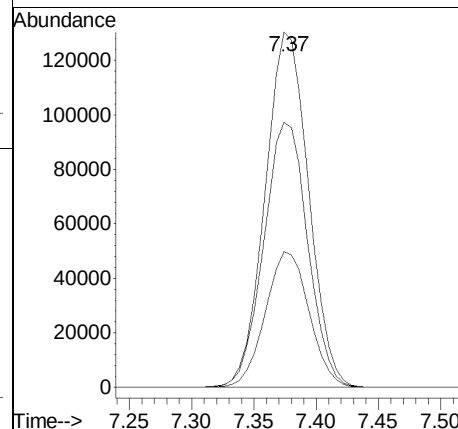
Tgt Ion	Ratio	Lower	Upper
76	100		
44	9.8	8.8	13.2

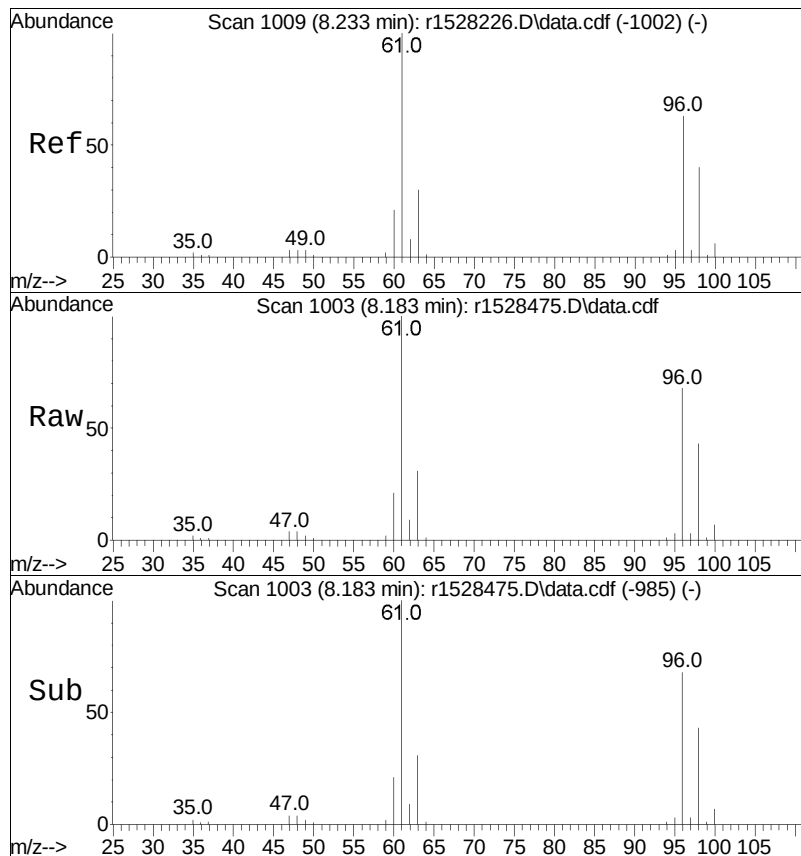




#31
 Freon 113
 Concen: 11.81 ppbV
 RT: 7.37 min Scan# 890
 Delta R.T. -0.054 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

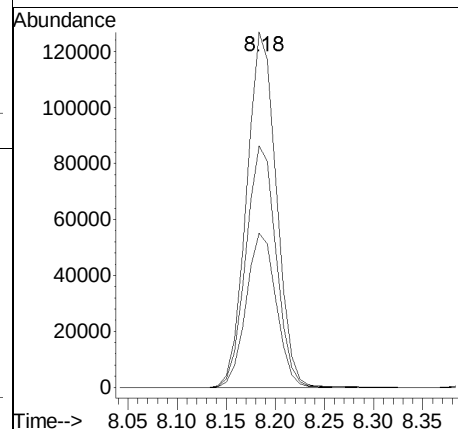
Tgt	Ion:101	Resp:	316344
Ion	Ratio	Lower	Upper
101	100		
85	38.2	33.5	50.3
151	74.6	54.3	81.5

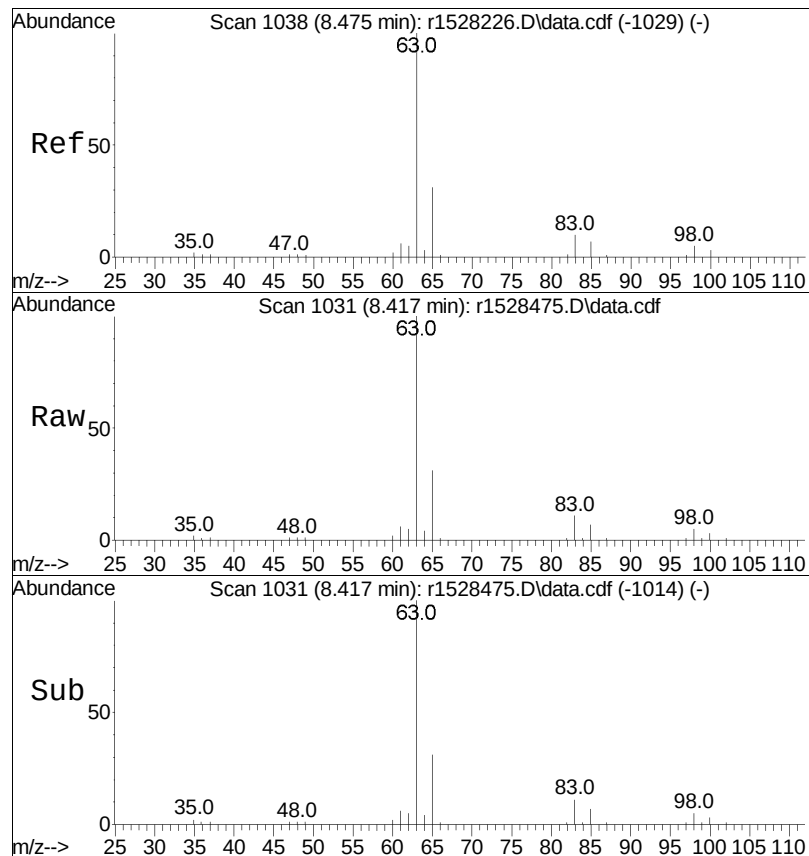




#32
 trans-1,2-dichloroethene
 Concen: 8.77 ppbV
 RT: 8.18 min Scan# 1003
 Delta R.T. -0.050 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

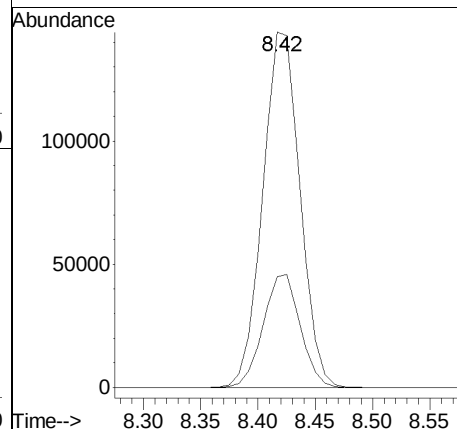
Tgt	Ion: 61	Resp:	267632
Ion	Ratio	Lower	Upper
61	100		
96	68.0	50.4	75.6
98	43.4	31.7	47.5

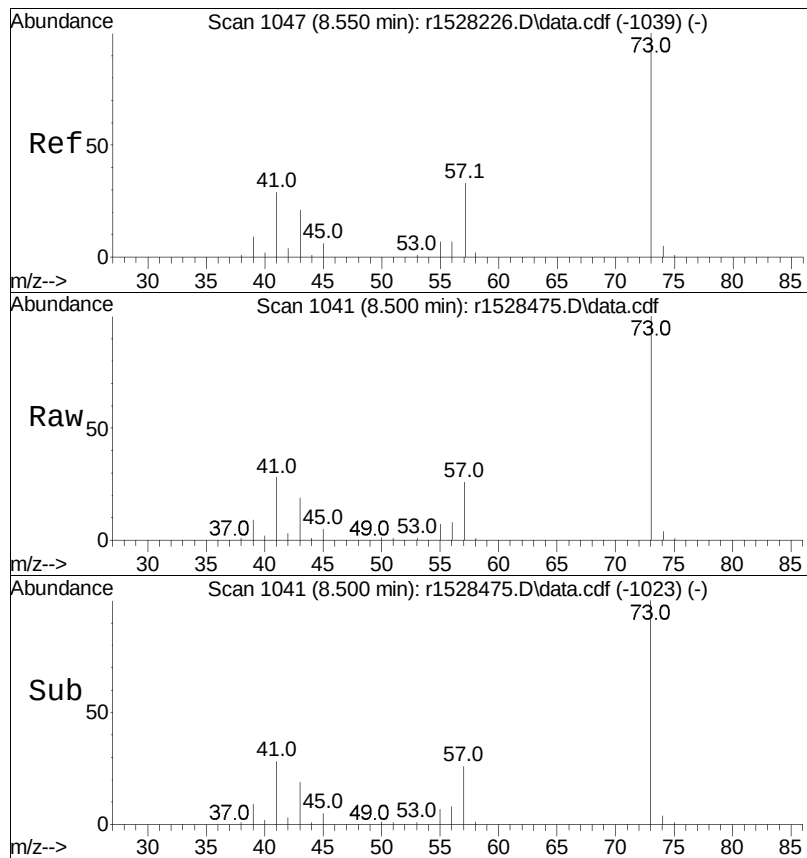




#33
 1,1-dichloroethane
 Concen: 9.31 ppbV
 RT: 8.42 min Scan# 1031
 Delta R.T. -0.058 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

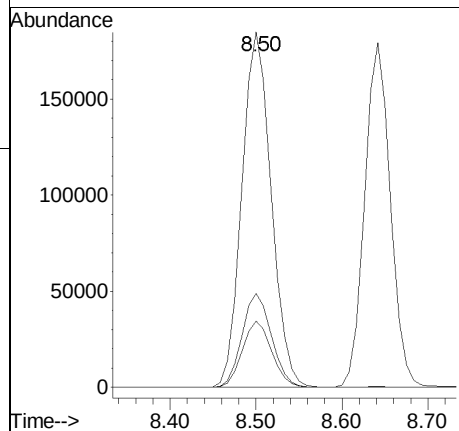
Tgt	Ion	Resp	Lower	Upper
63	100			
65	31.1	24.5	36.7	

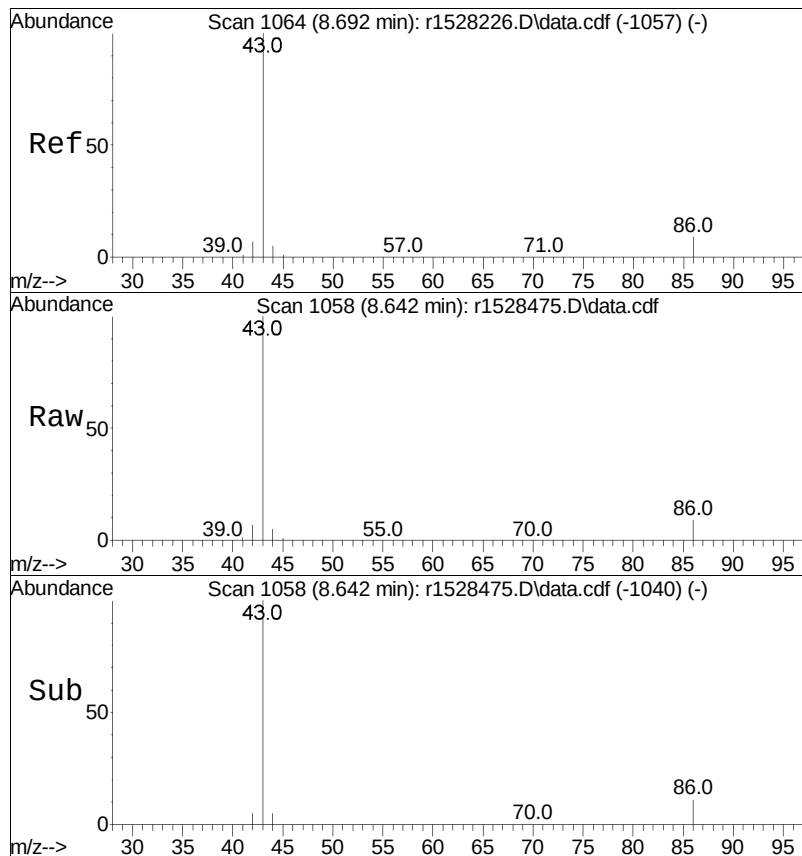




#34
 MTBE
 Concen: 10.34 ppbV
 RT: 8.50 min Scan# 1041
 Delta R.T. -0.050 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

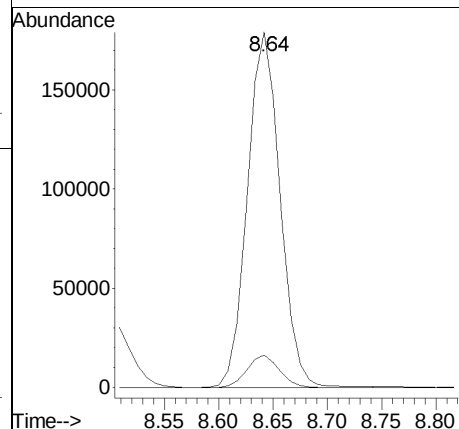
Tgt	Ion: 73	Resp:	437971
Ion	Ratio	Lower	Upper
73	100		
57	26.4	26.5	39.7#
43	18.7	17.1	25.7

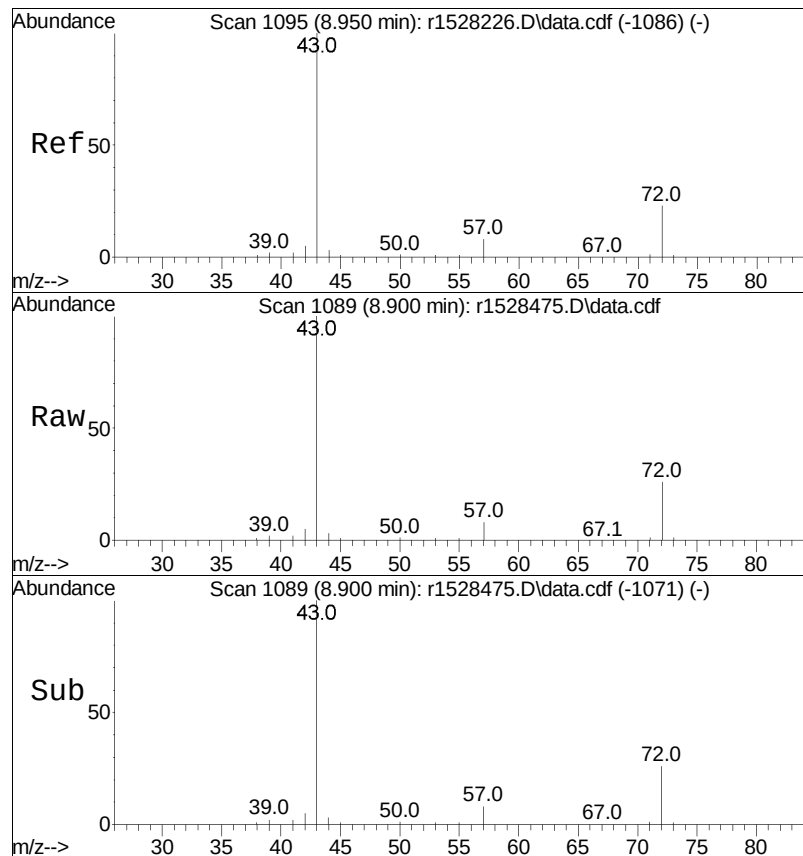




#35
 vinyl acetate
 Concen: 8.84 ppbV
 RT: 8.64 min Scan# 1058
 Delta R.T. -0.050 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

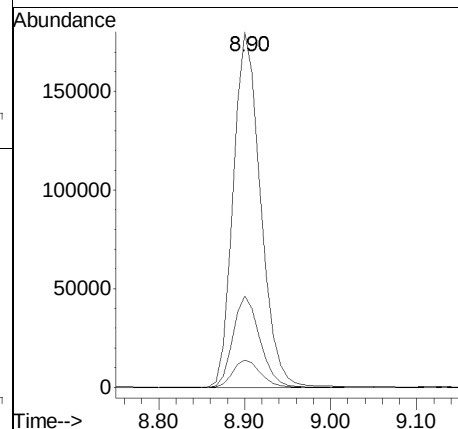
Tgt Ion	Ratio	Lower	Upper
43	100		
86	9.1	7.4	11.0

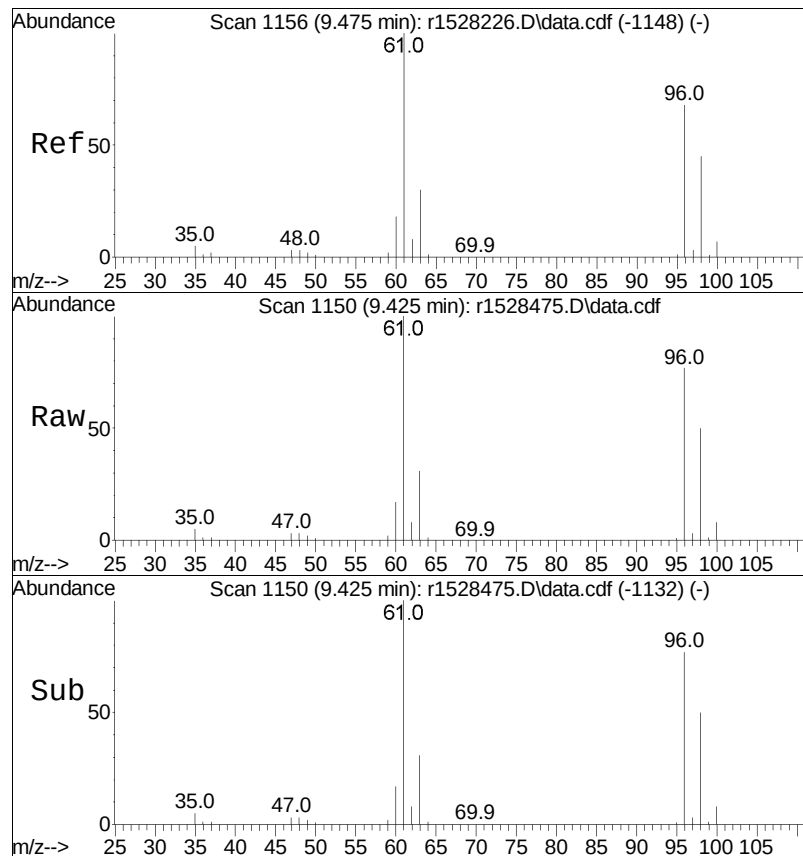




#36
 2-butanone
 Concen: 9.44 ppbV
 RT: 8.90 min Scan# 1089
 Delta R.T. -0.050 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

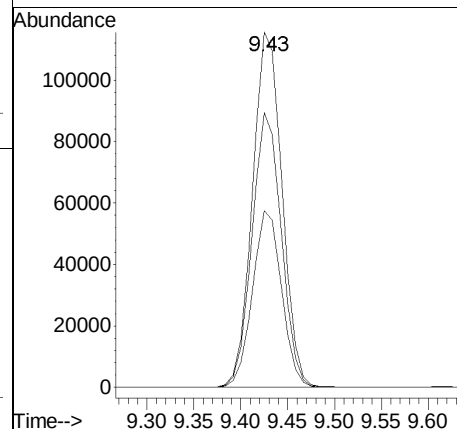
Tgt Ion:	43	72	57	Resp:	398443
Ion Ratio	100	25.8	7.7	Lower	Upper
		18.3	6.6		

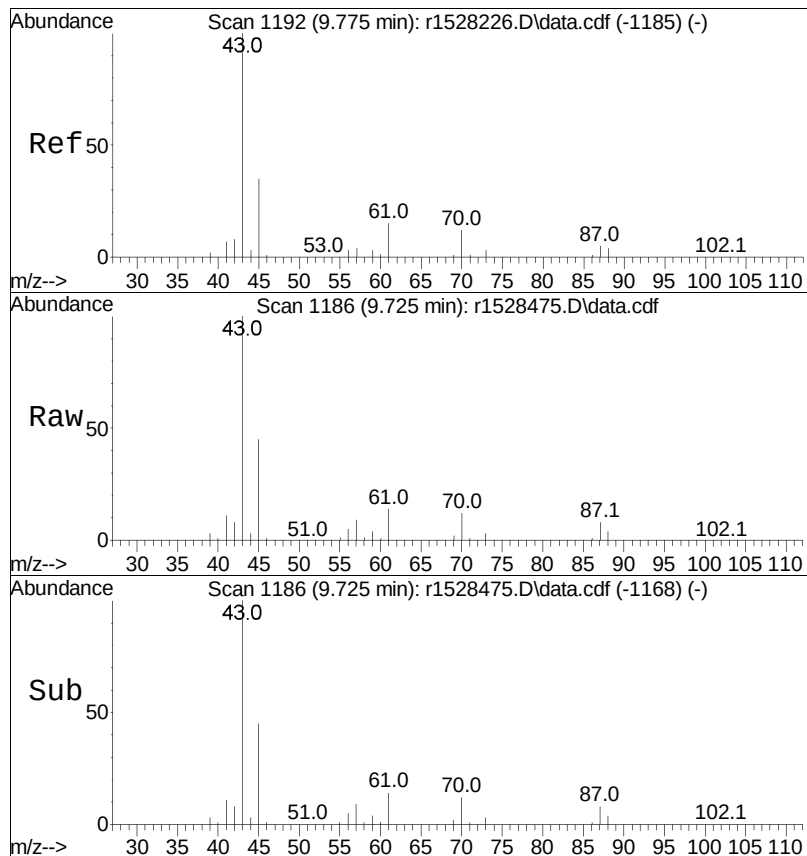




#37
 cis-1,2-dichloroethene
 Concen: 9.41 ppbV
 RT: 9.43 min Scan# 1150
 Delta R.T. -0.050 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

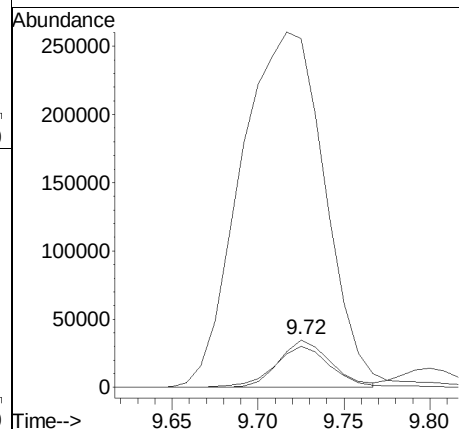
Tgt Ion:	61	Resp:	253659
Ion Ratio	Lower	Upper	
61	100		
96	77.3	54.8	82.2
98	49.7	35.7	53.5

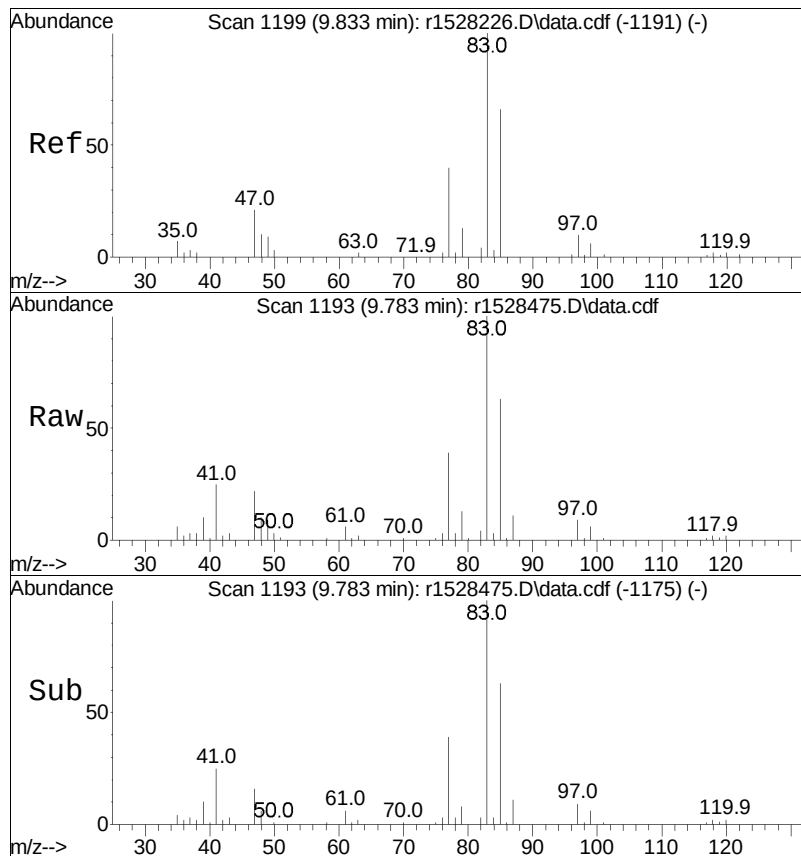




#38
 Ethyl Acetate
 Concen: 9.23 ppbV
 RT: 9.72 min Scan# 1186
 Delta R.T. -0.050 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

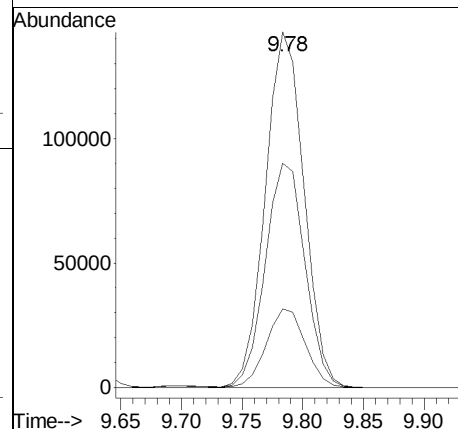
Tgt Ion	Ratio	Lower	Upper
61	100		
70	87.1	61.9	92.9
43	737.6	568.7	853.1

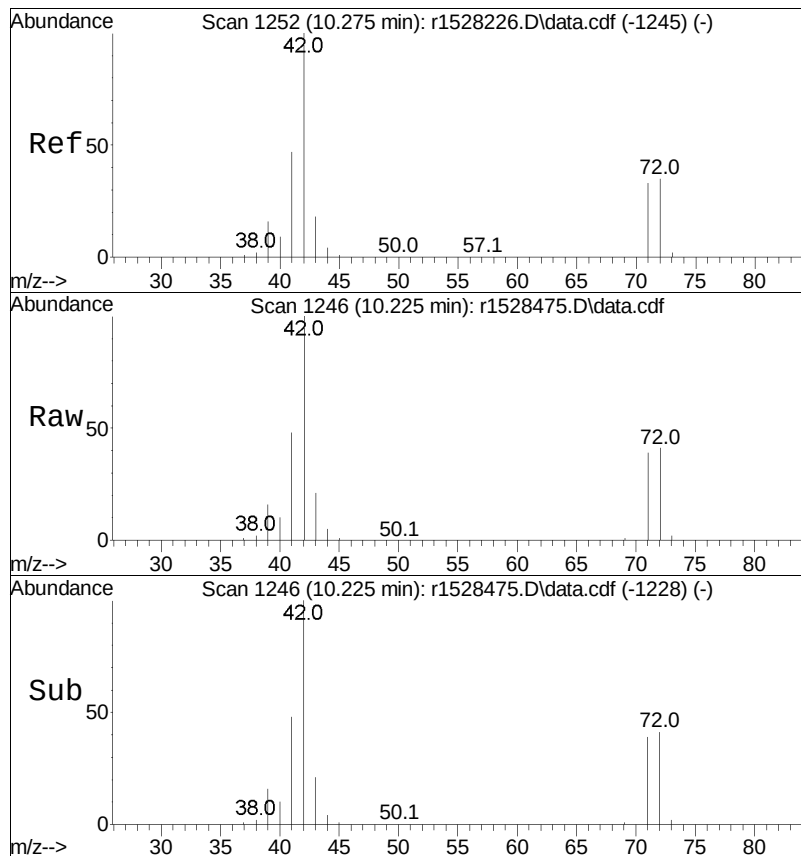




#39
 chloroform
 Concen: 10.67 ppbV
 RT: 9.78 min Scan# 1193
 Delta R.T. -0.050 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

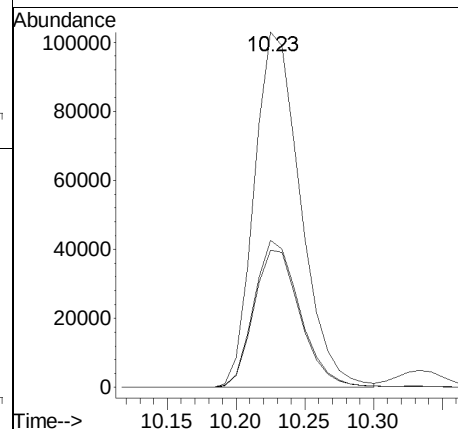
Tgt	Ion: 83	Resp:	315677
Ion	Ratio	Lower	Upper
83	100		
85	63.1	52.9	79.3
47	22.1	17.4	26.0

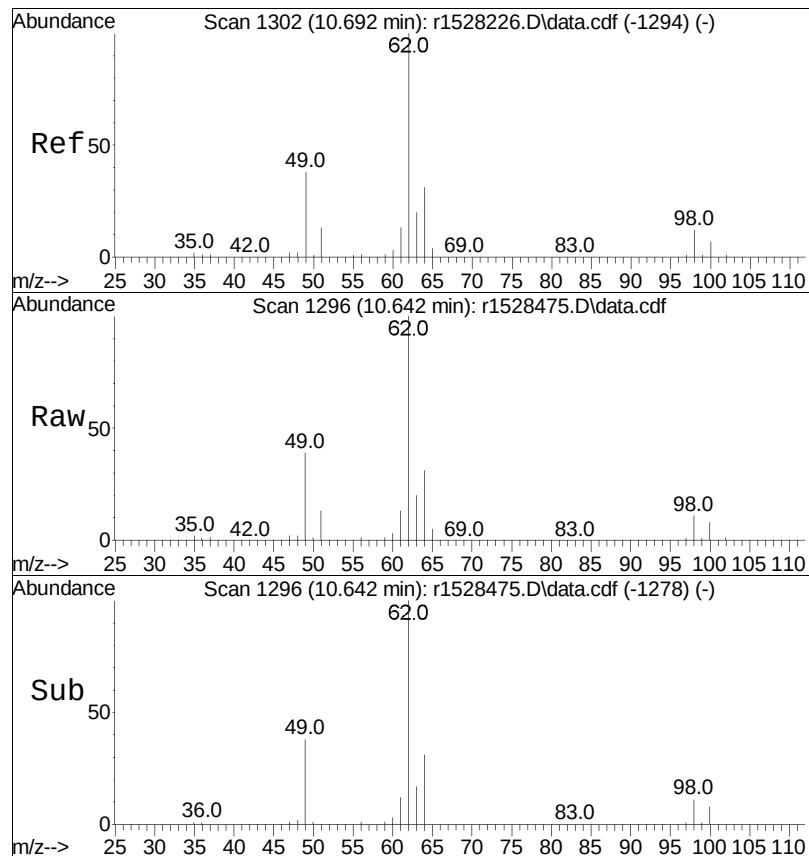




#40
Tetrahydrofuran
Concen: 8.92 ppbV
RT: 10.23 min Scan# 1246
Delta R.T. -0.050 min
Lab File: r1528475.D
Acq: 21 Sep 2021 12:25 PM

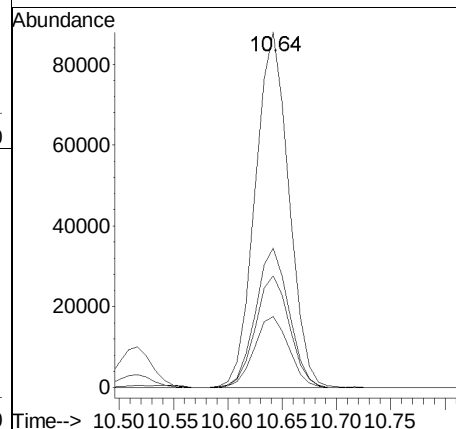
Tgt Ion	Ratio	Lower	Upper
42	100		
71	38.6	26.8	40.2
72	41.4	27.9	41.9

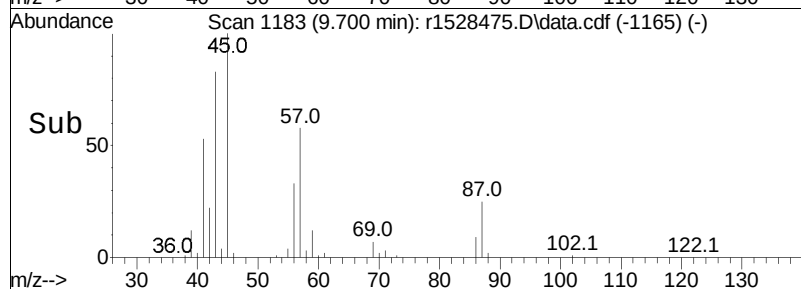
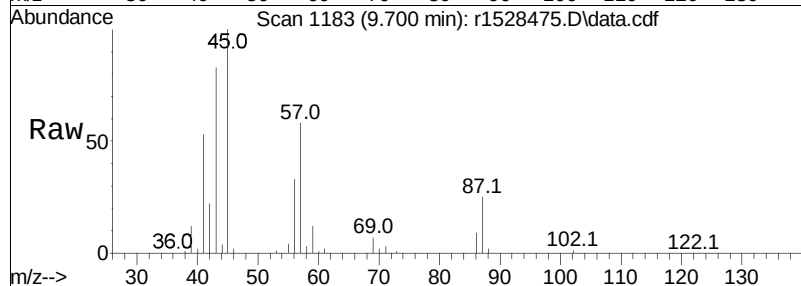
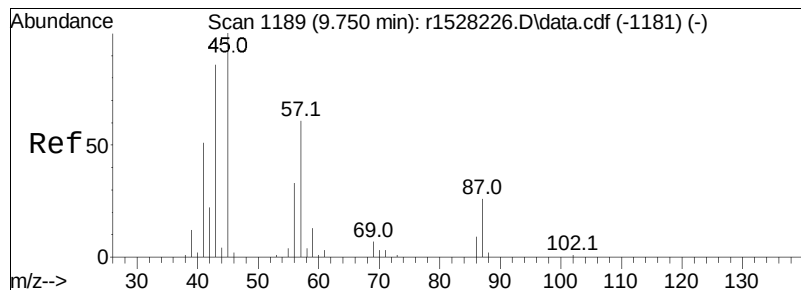




#42
 1,2-dichloroethane
 Concen: 9.46 ppbV
 RT: 10.64 min Scan# 1296
 Delta R.T. -0.050 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

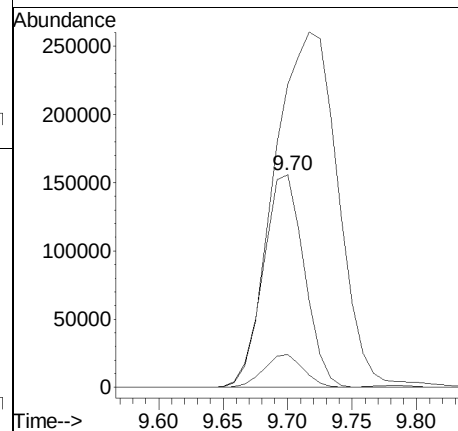
Tgt Ion:	62	Resp:	189066
Ion Ratio	Lower	Upper	
62	100		
64	31.4	24.7	37.1
49	39.2	30.4	45.6
63	20.0	16.2	24.4

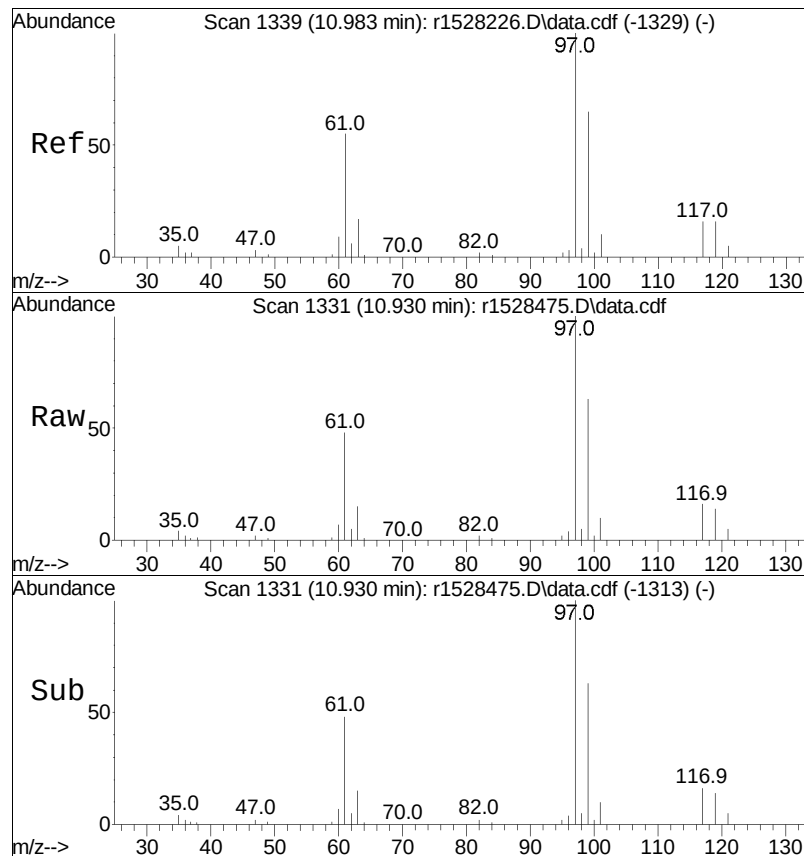




#44
hexane
Concen: 8.06 ppbV
RT: 9.70 min Scan# 1183
Delta R.T. -0.050 min
Lab File: r1528475.D
Acq: 21 Sep 2021 12:25 PM

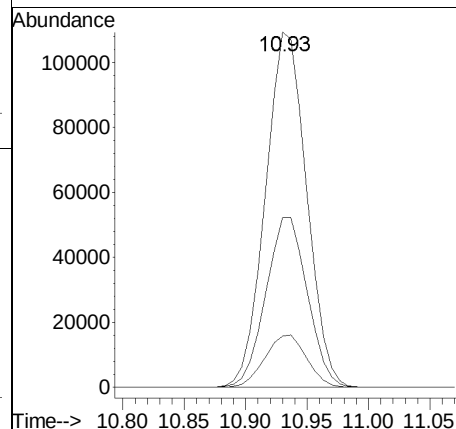
Tgt	Ion	Resp	Lower	Upper
57	100			
43	142.5	113.8	170.8	
86	15.5	11.6	17.4	

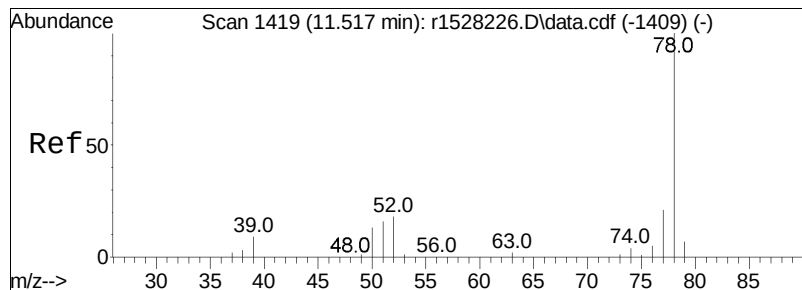




#48
 1,1,1-trichloroethane
 Concen: 9.83 ppbV
 RT: 10.93 min Scan# 1331
 Delta R.T. -0.053 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

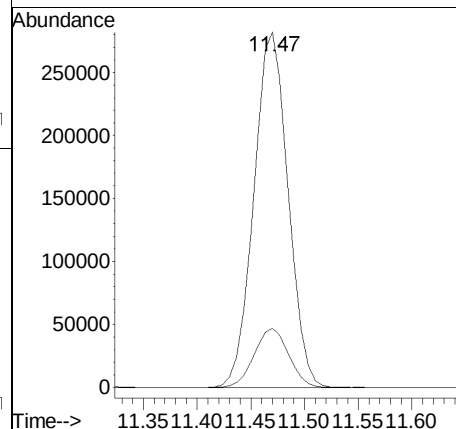
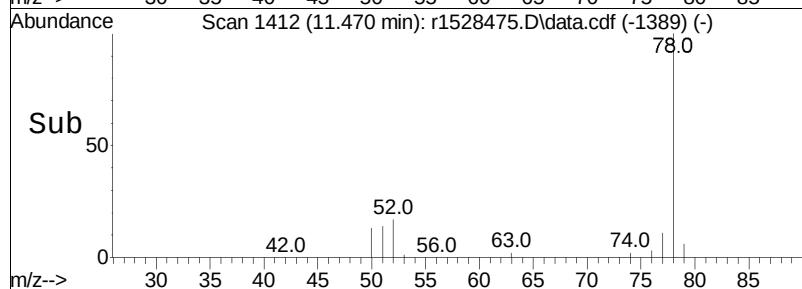
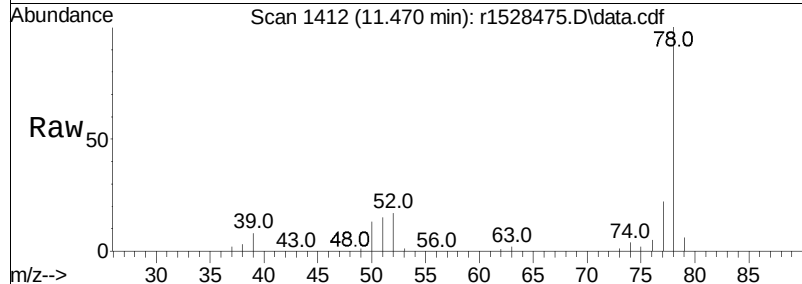
Tgt Ion	Ratio	Resp	Lower	Upper
97	100	254658		
61	47.8		43.9	65.9
119	14.4		12.6	19.0

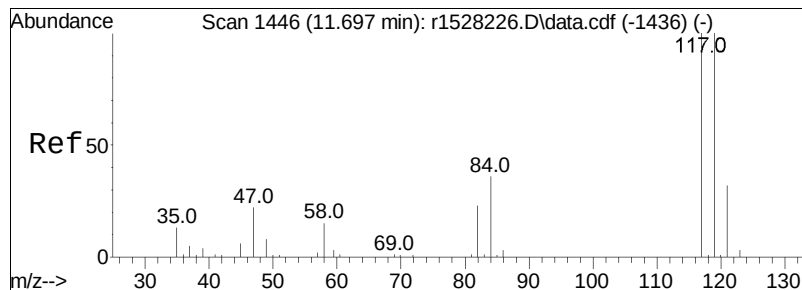




#50
benzene
Concen: 8.97 ppbV
RT: 11.47 min Scan# 1412
Delta R.T. -0.047 min
Lab File: r1528475.D
Acq: 21 Sep 2021 12:25 PM

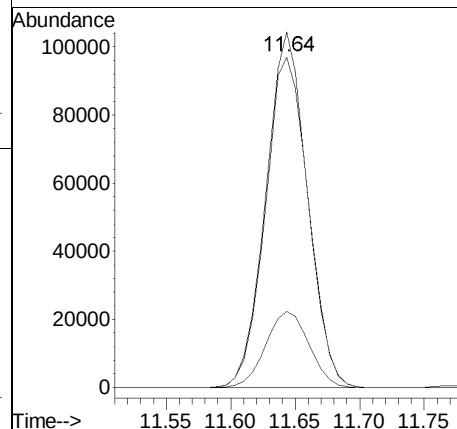
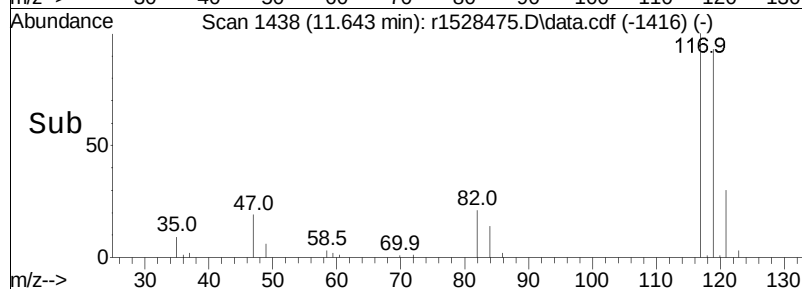
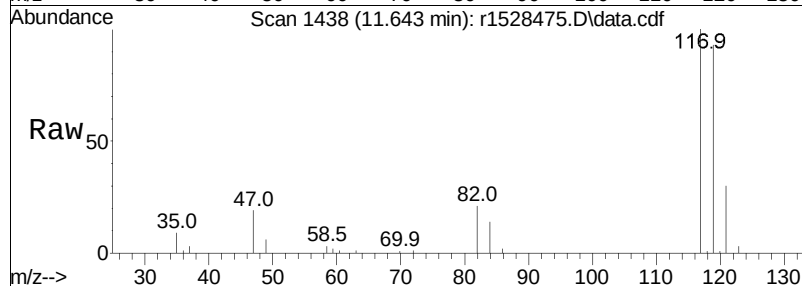
Tgt	Ion	Ratio	Lower	Upper
78	78	100		
52	52	16.7	14.2	21.4

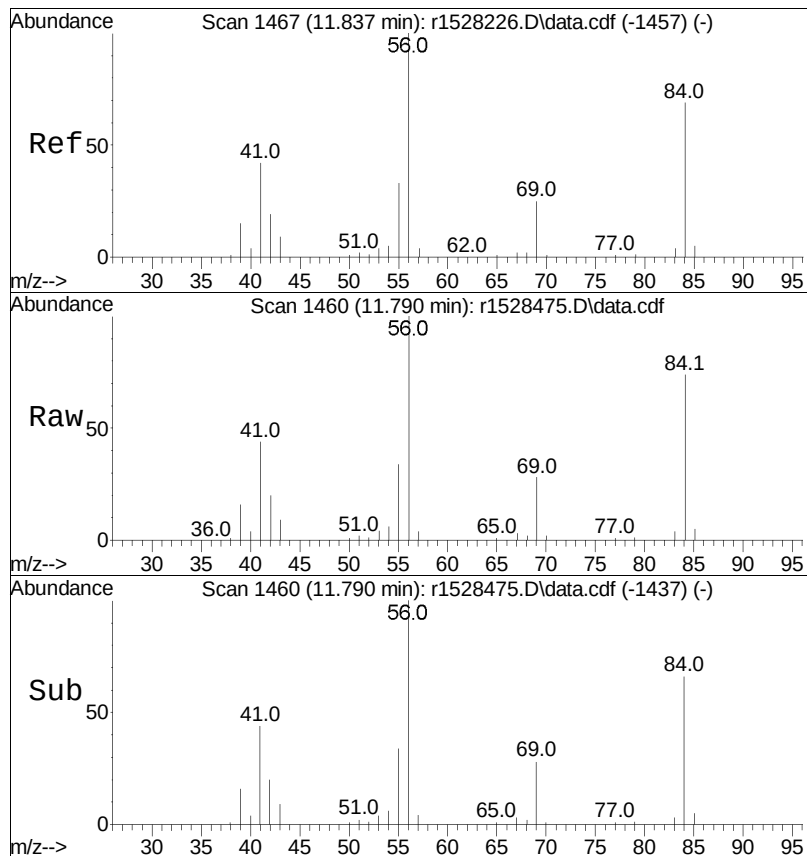




#52
 carbon tetrachloride
 Concen: 10.90 ppbV
 RT: 11.64 min Scan# 1438
 Delta R.T. -0.053 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

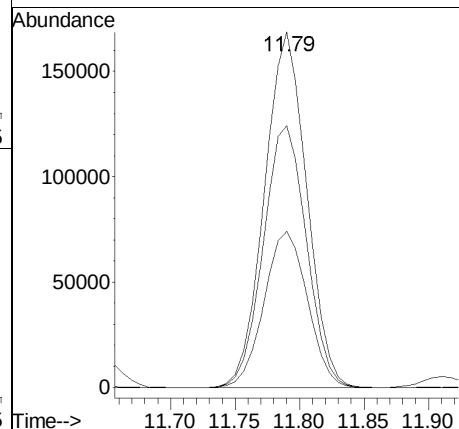
Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.8	80.2	120.4
82	21.4	18.6	27.8

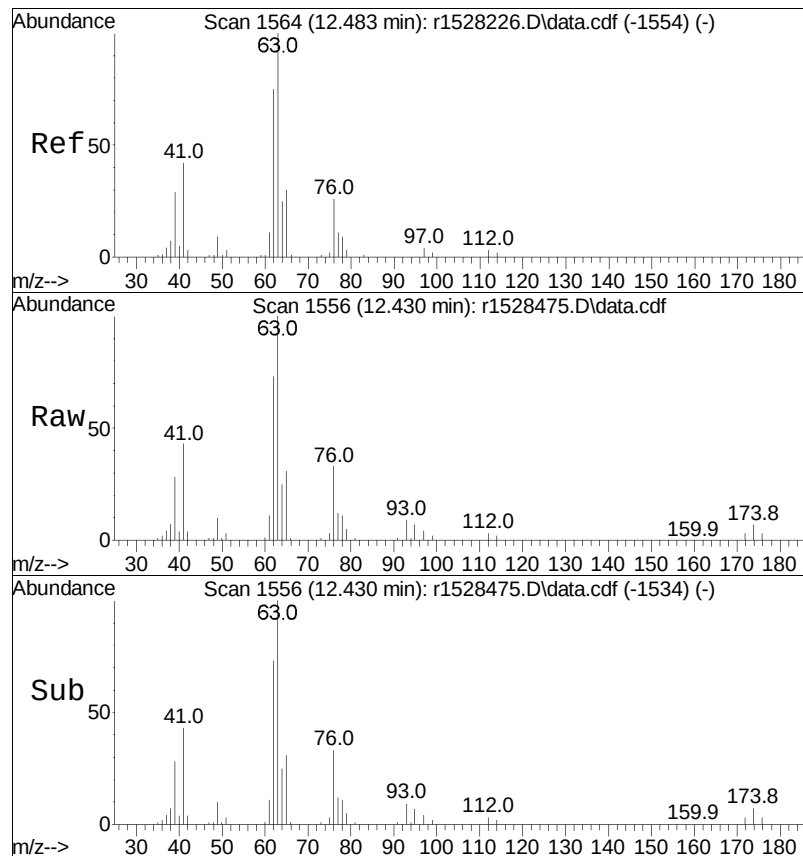




#53
cyclohexane
Concen: 8.19 ppbV
RT: 11.79 min Scan# 1460
Delta R.T. -0.047 min
Lab File: r1528475.D
Acq: 21 Sep 2021 12:25 PM

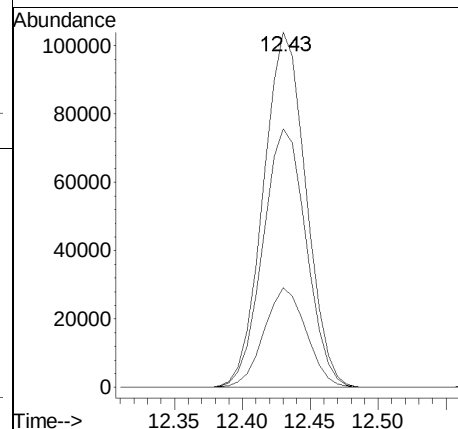
Tgt	Ion	Ratio	Lower	Upper
56	100			
84	73.7	54.9	82.3	
41	43.9	34.0	51.0	

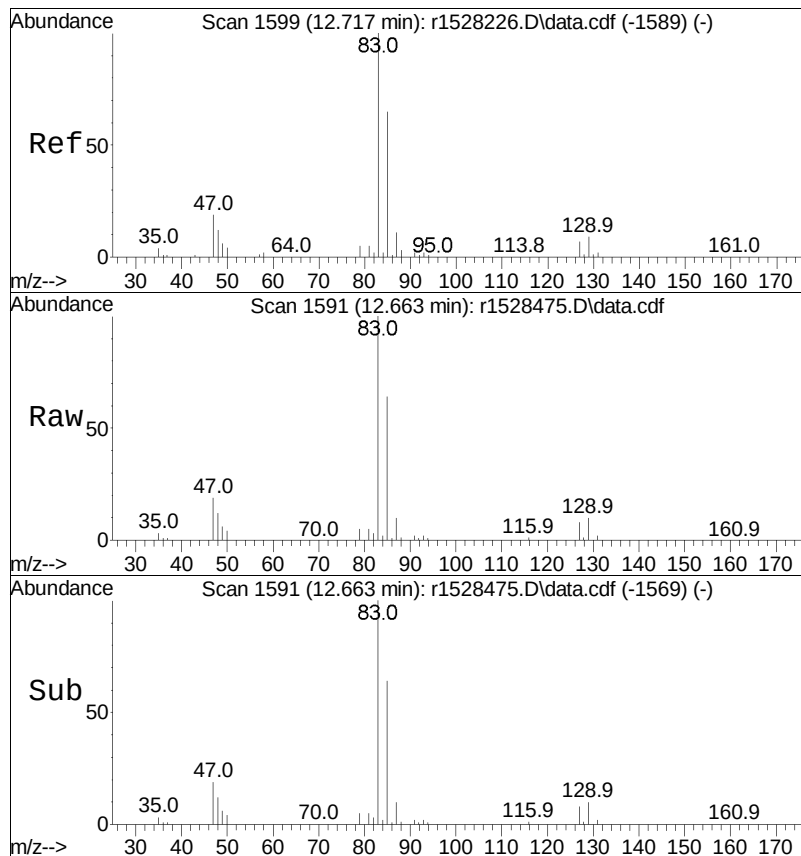




#56
 1,2-dichloropropane
 Concen: 8.50 ppbV
 RT: 12.43 min Scan# 1556
 Delta R.T. -0.053 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

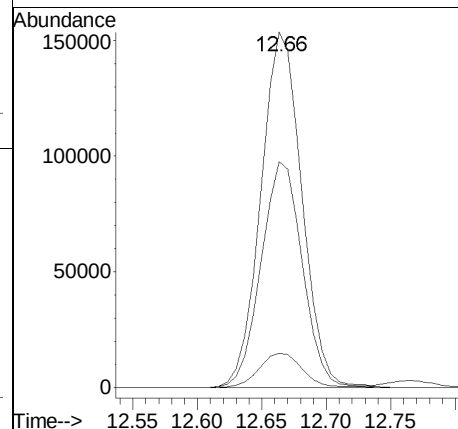
Tgt Ion:	63	Resp:	227716
Ion Ratio	Lower	Upper	
63	100		
62	72.8	59.9	89.9
39	28.0	23.0	34.4

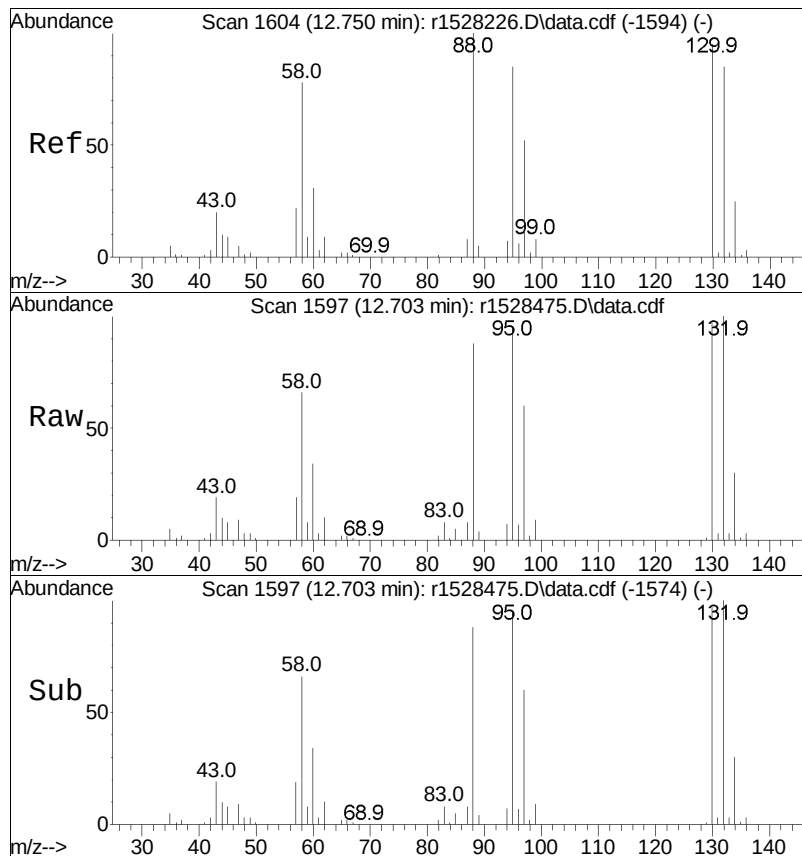




#57
 bromodichloromethane
 Concen: 9.70 ppbV
 RT: 12.66 min Scan# 1591
 Delta R.T. -0.053 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

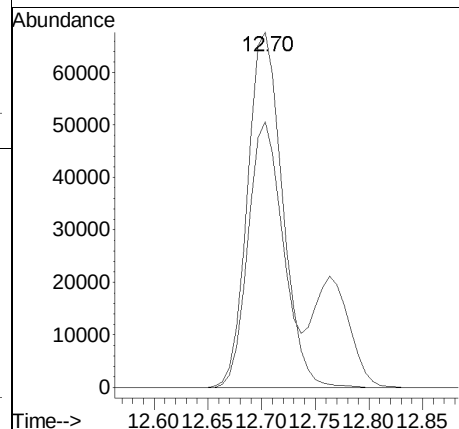
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.8	77.6
129	9.6	7.4	11.2

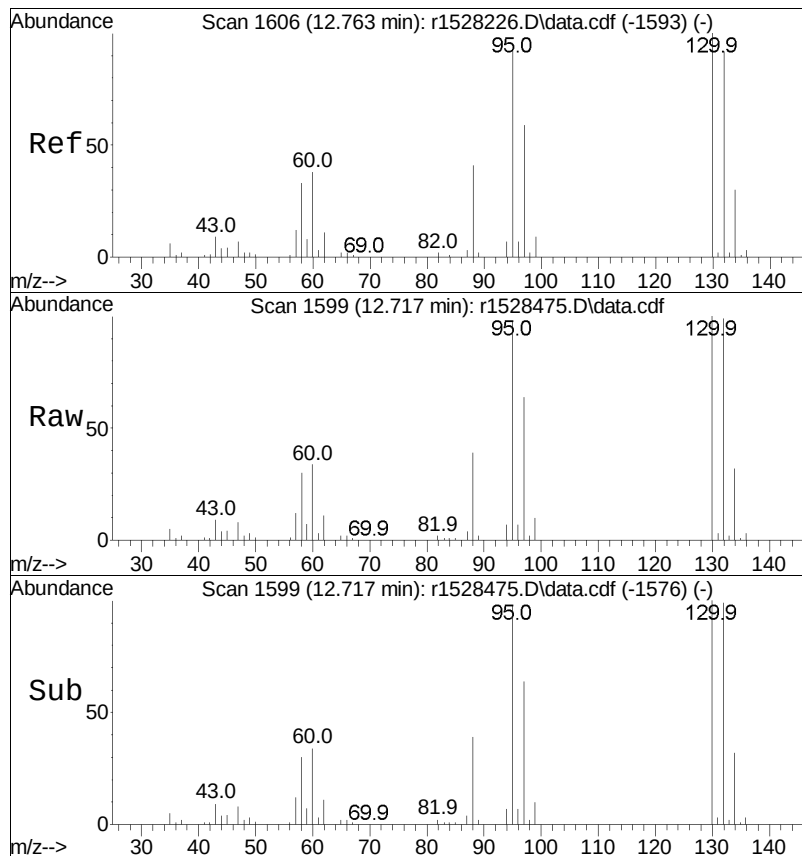




#58
 1,4-dioxane
 Concen: 8.88 ppbV
 RT: 12.70 min Scan# 1597
 Delta R.T. -0.047 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

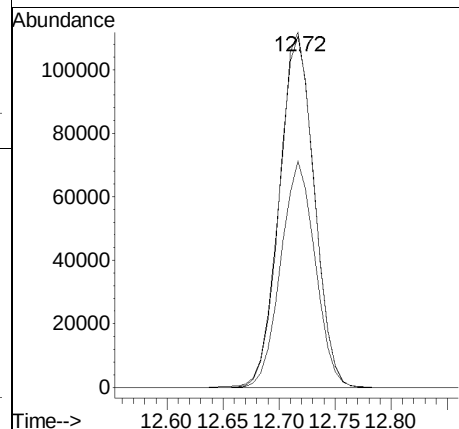
Tgt	Ion	Resp	Lower	Upper
88	100	153012		
58	74.8	62.8	94.2	

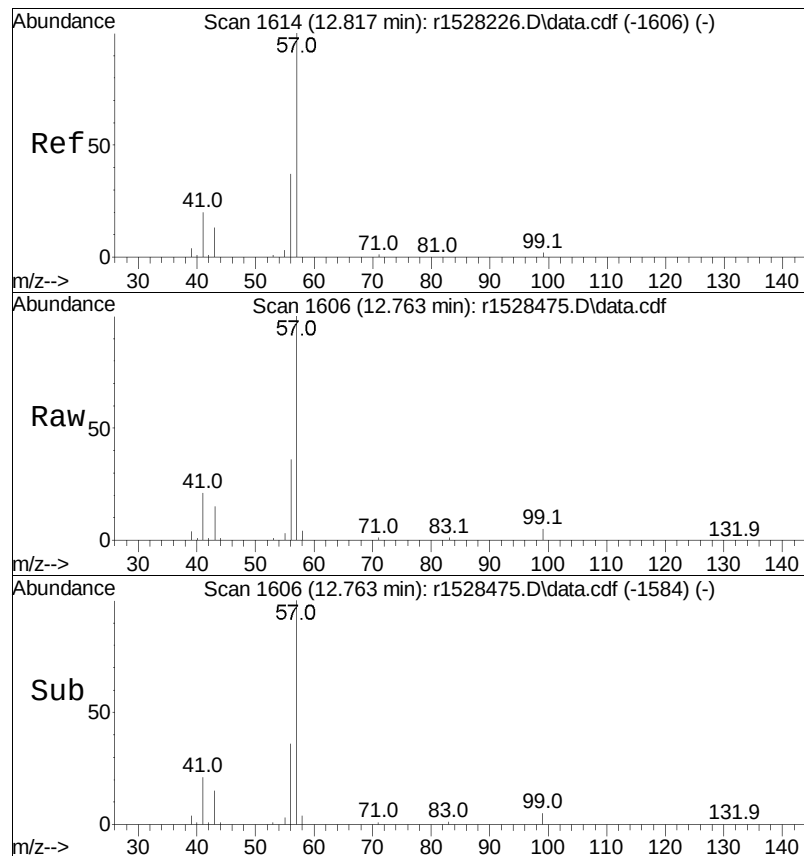




#59
trichloroethene
Concen: 9.23 ppbV
RT: 12.72 min Scan# 1599
Delta R.T. -0.047 min
Lab File: r1528475.D
Acq: 21 Sep 2021 12:25 PM

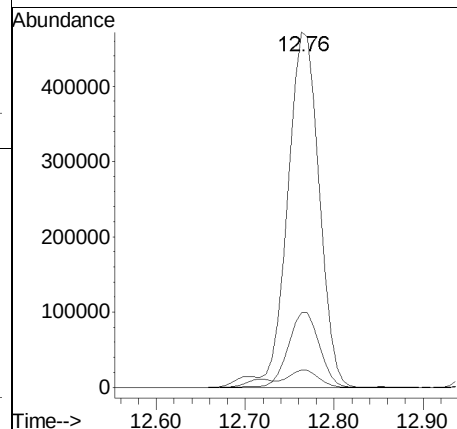
Tgt	Ion:130	Resp:	242202
Ion	Ratio	Lower	Upper
130	100		
132	98.8	73.4	110.2
97	63.7	47.4	71.0

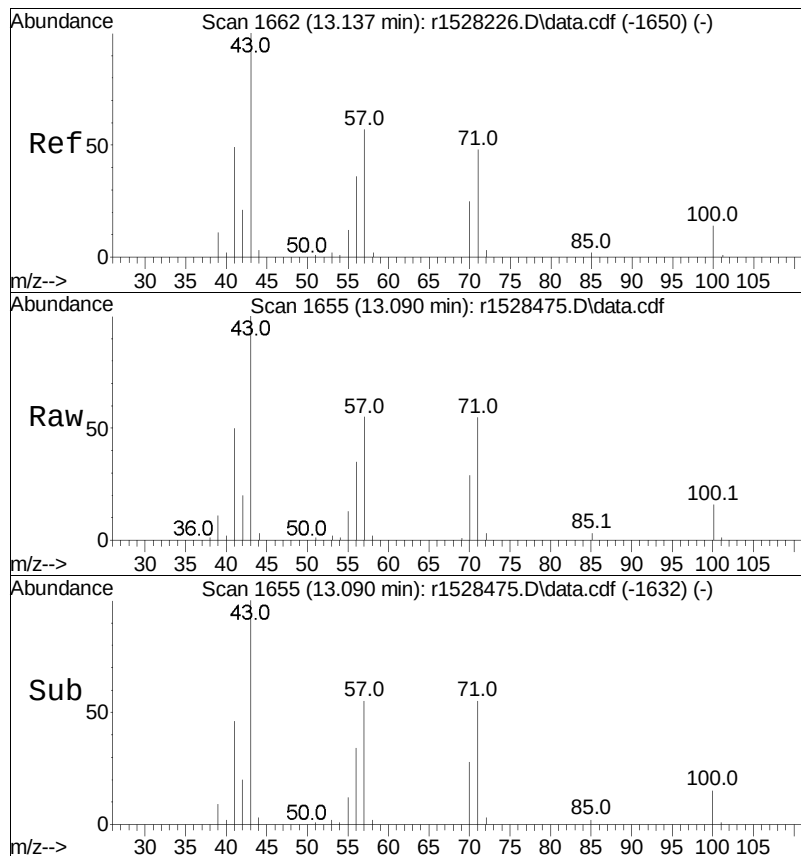




#60
 2,2,4-trimethylpentane
 Concen: 8.25 ppbV
 RT: 12.76 min Scan# 1606
 Delta R.T. -0.053 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

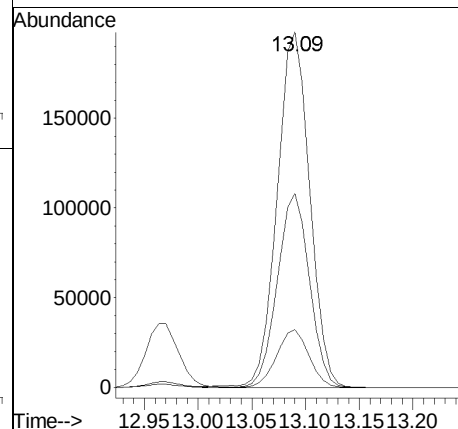
Tgt Ion:	57	Resp:	1177850
Ion Ratio	Lower	Upper	
57	100		
99	4.9	3.3	4.9
41	21.1	16.2	24.2

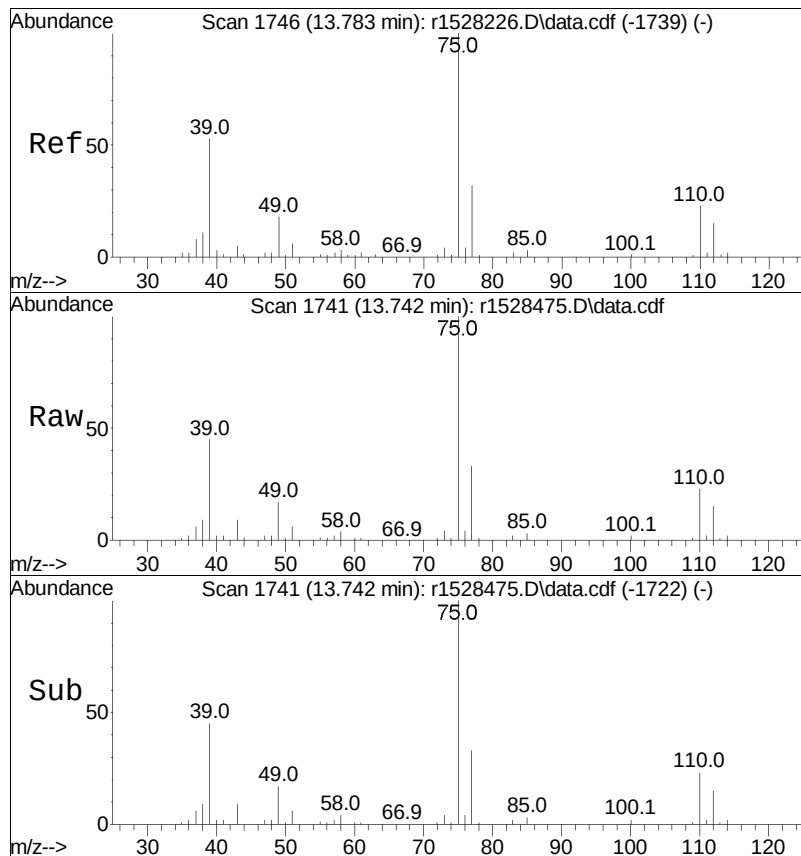




#62
 heptane
 Concen: 8.63 ppbV
 RT: 13.09 min Scan# 1655
 Delta R.T. -0.047 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

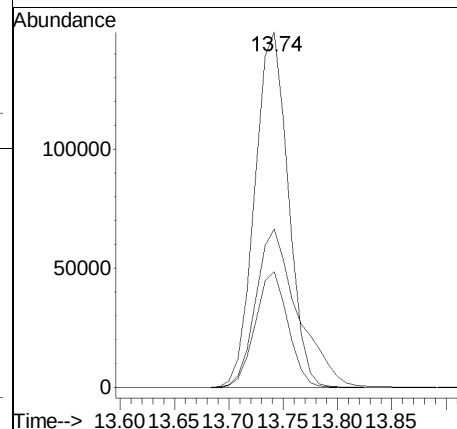
Tgt	Ion: 43	Resp:	416729
Ion	Ratio	Lower	Upper
43	100		
57	54.6	45.5	68.3
100	16.2	11.7	17.5

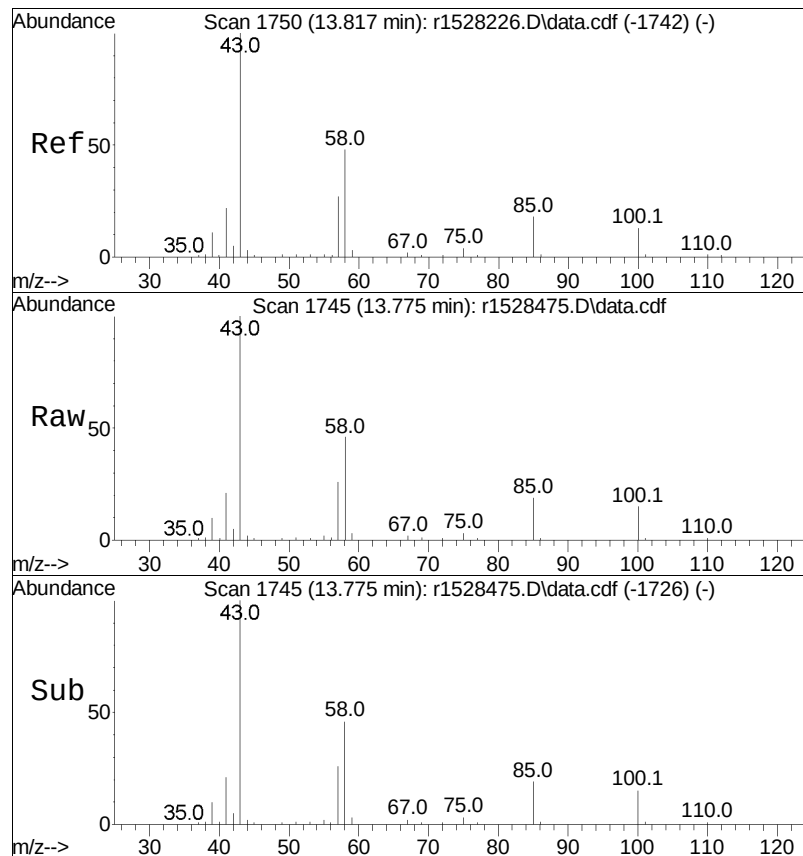




#63
 cis-1,3-dichloropropene
 Concen: 10.46 ppbV
 RT: 13.74 min Scan# 1741
 Delta R.T. -0.042 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

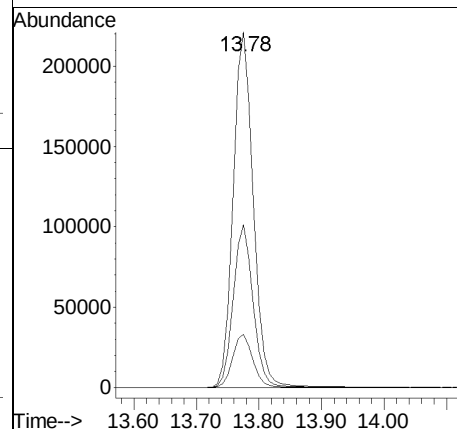
Tgt	Ion: 75	Resp:	319199
Ion	Ratio	Lower	Upper
75	100		
39	44.6	42.2	63.2
77	32.6	25.7	38.5

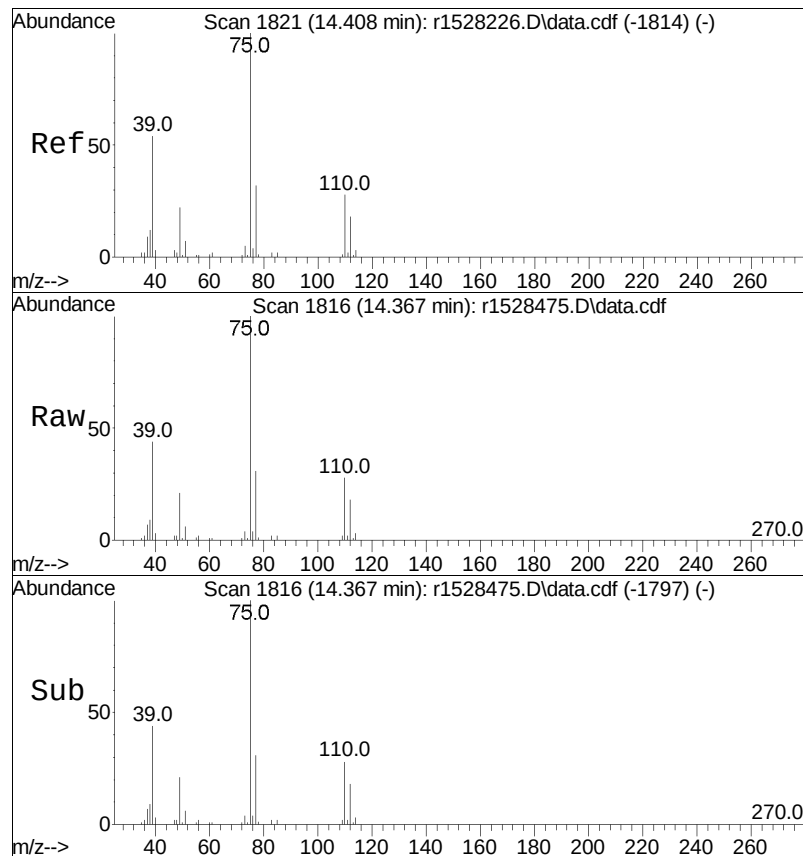




#64
 4-methyl-2-pentanone
 Concen: 9.02 ppbV
 RT: 13.78 min Scan# 1745
 Delta R.T. -0.042 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

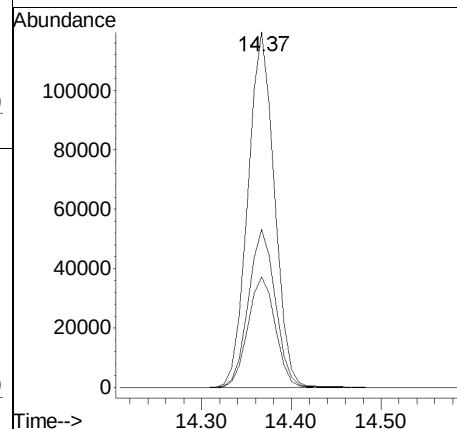
Tgt	Ion: 43	Resp: 493943
Ion	Ratio	Lower Upper
43	100	
58	45.9	38.5 57.7
100	15.0	10.6 16.0

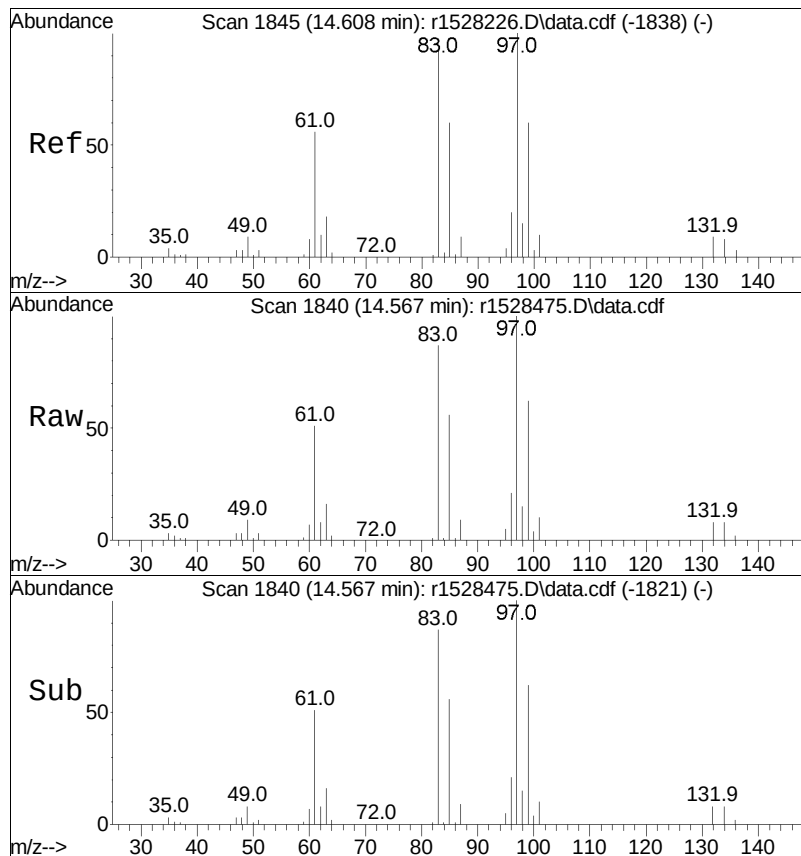




#65
 trans-1,3-dichloropropene
 Concen: 8.92 ppbV
 RT: 14.37 min Scan# 1816
 Delta R.T. -0.042 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

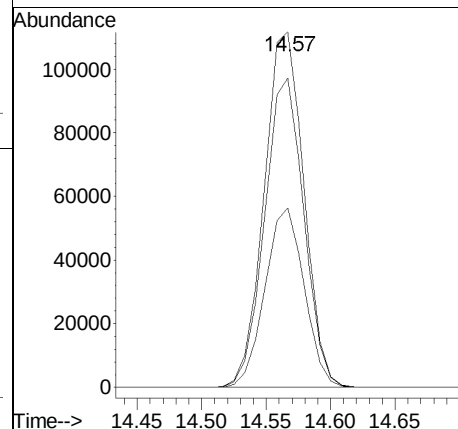
Tgt	Ion: 75	Resp:	246125
Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.2
39	44.4	43.2	64.8

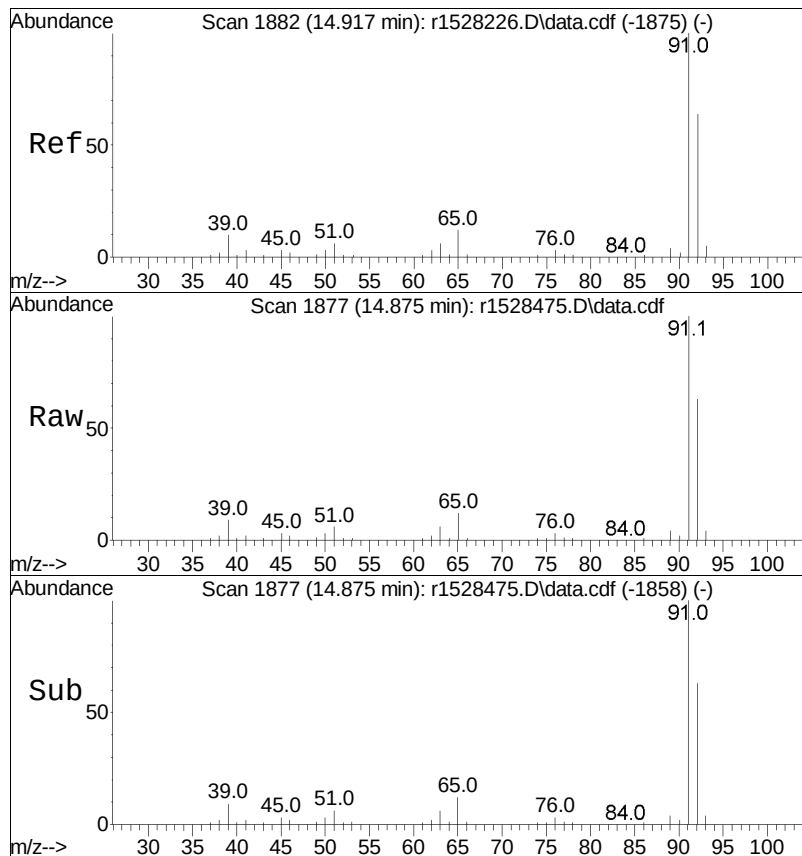




#66
 1,1,2-trichloroethane
 Concen: 9.71 ppbV
 RT: 14.57 min Scan# 1840
 Delta R.T. -0.042 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

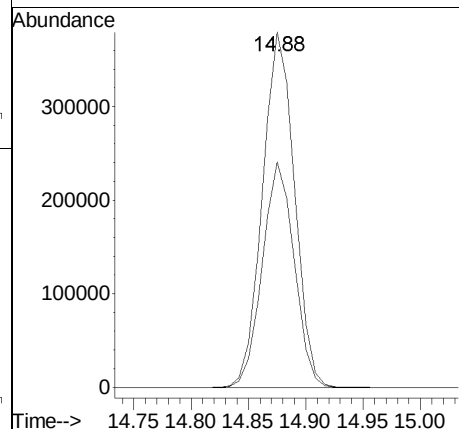
Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.1	75.3	112.9
61	50.5	44.5	66.7

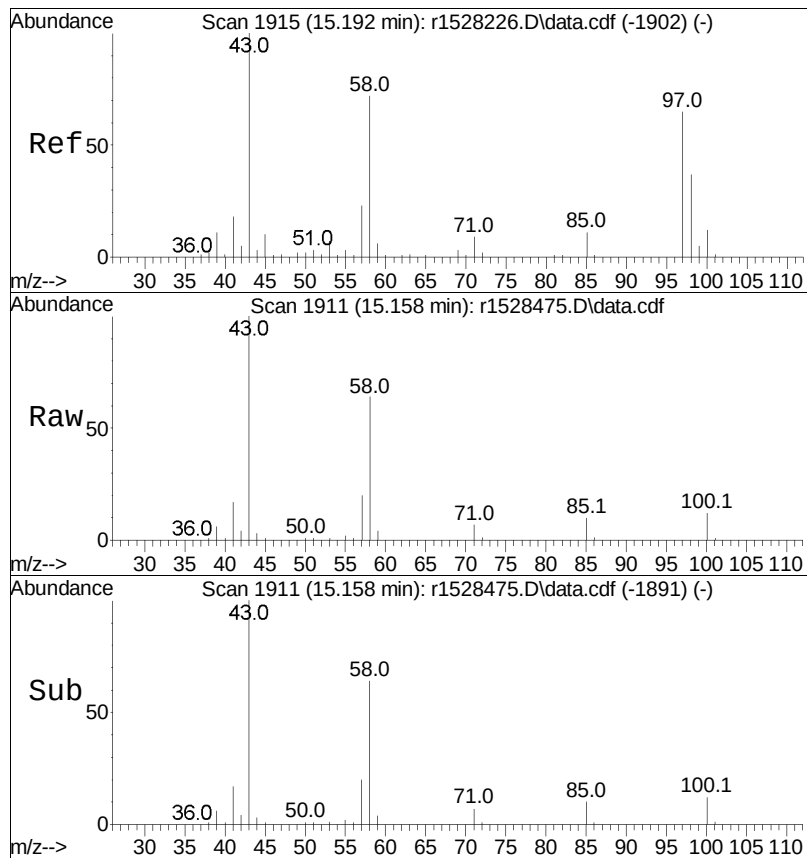




#68
toluene
Concen: 10.22 ppbV
RT: 14.88 min Scan# 1877
Delta R.T. -0.042 min
Lab File: r1528475.D
Acq: 21 Sep 2021 12:25 PM

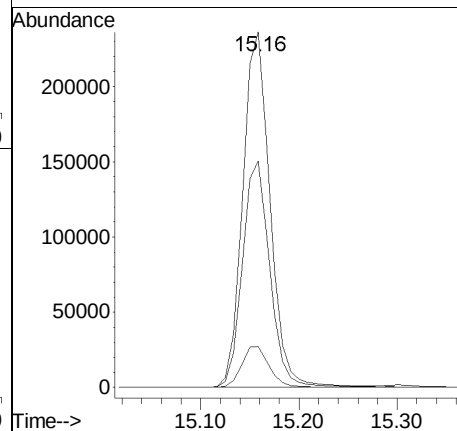
Tgt	Ion	Resp	Lower	Upper
91	100	737237		
92	63.4	51.6	77.4	

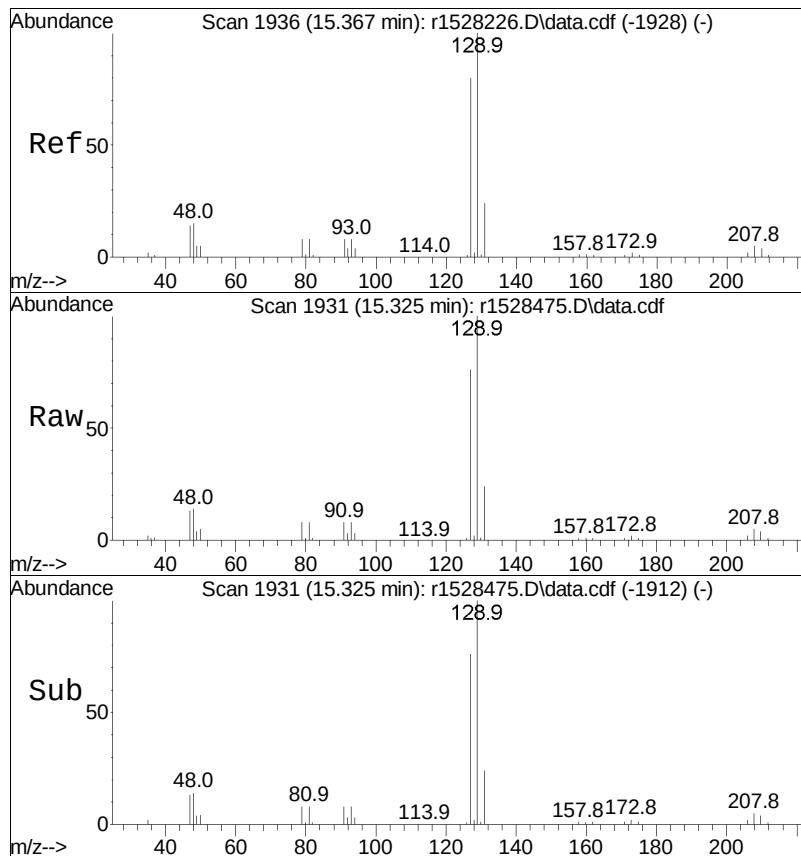




#72
 2-hexanone
 Concen: 10.37 ppbV
 RT: 15.16 min Scan# 1911
 Delta R.T. -0.033 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

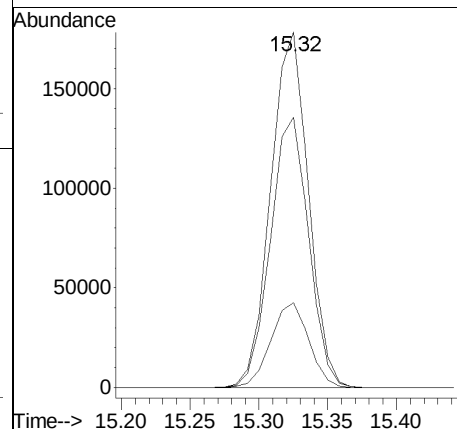
Tgt Ion:	43	Resp:	456367
Ion Ratio	Lower	Upper	
43	100		
58	63.7	57.9	86.9
100	11.5	9.8	14.8

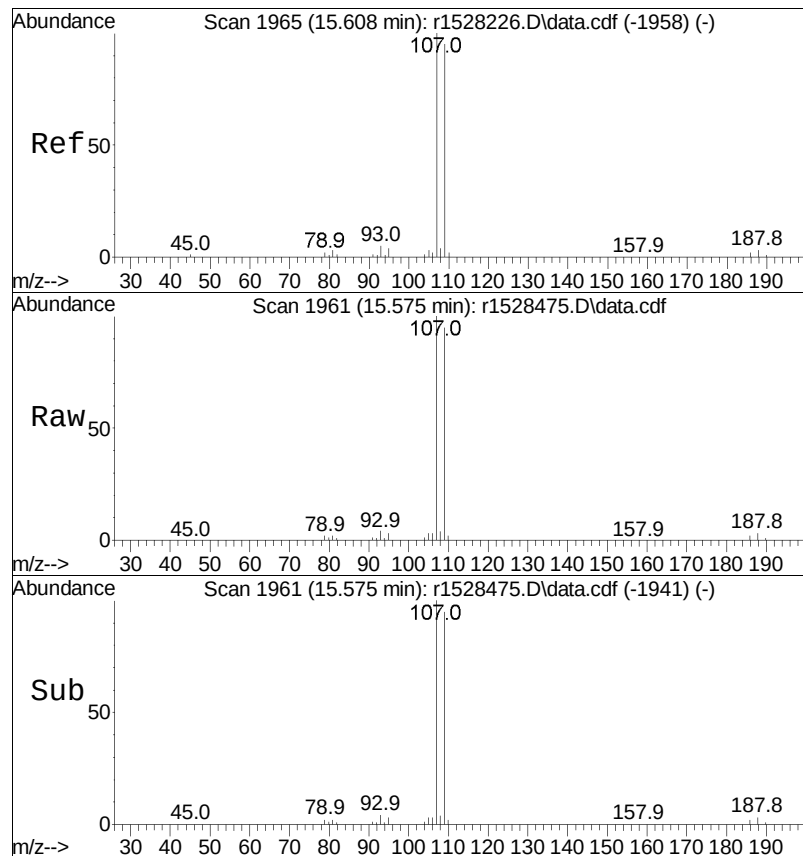




#74
 dibromochloromethane
 Concen: 12.49 ppbV
 RT: 15.32 min Scan# 1931
 Delta R.T. -0.042 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

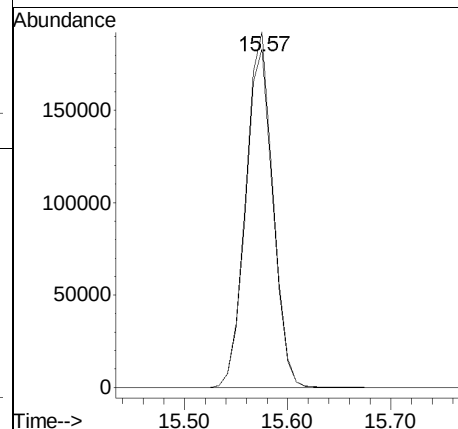
Tgt	Ion	Ratio	Resp	Lower	Upper
129	100		339402		
127	76.0	64.2		96.4	
131	23.9	19.5		29.3	

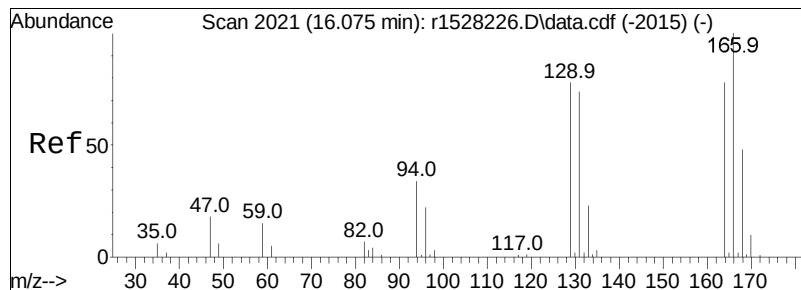




#75
 1,2-dibromoethane
 Concen: 12.29 ppbV
 RT: 15.57 min Scan# 1961
 Delta R.T. -0.033 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

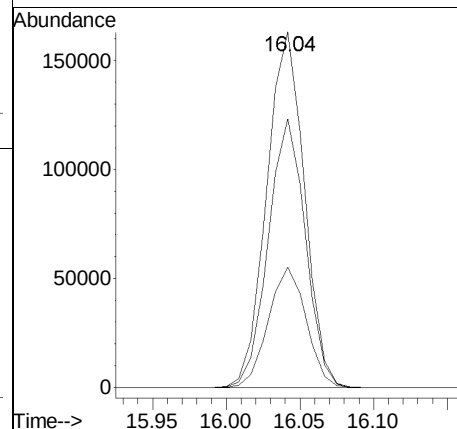
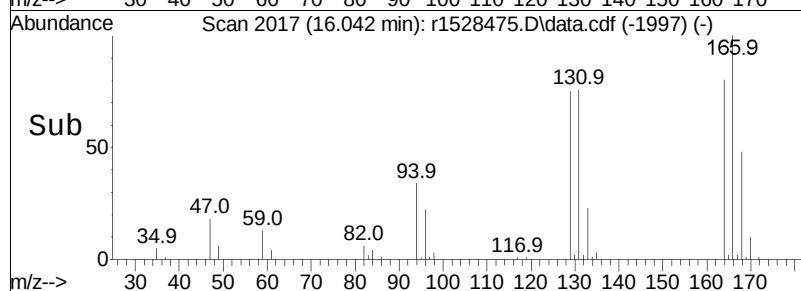
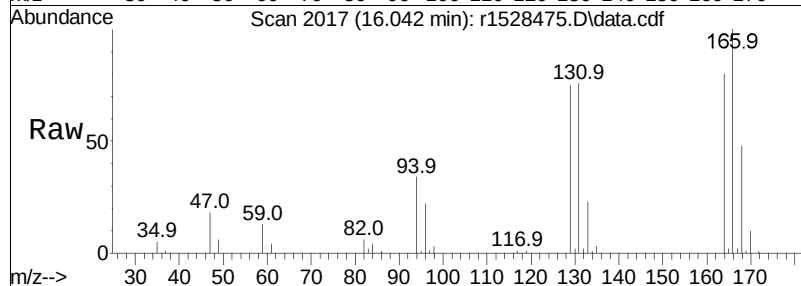
Tgt	Ion	Ratio	Lower	Upper
107	100			
109	95.3	75.7	113.5	

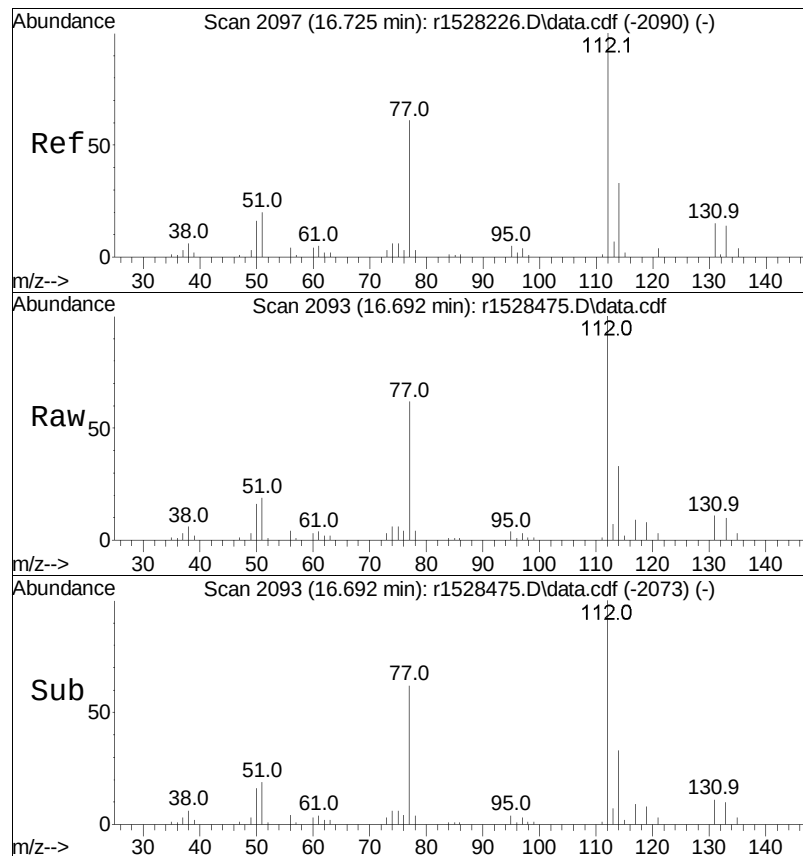




#78
 tetrachloroethene
 Concen: 11.83 ppbV
 RT: 16.04 min Scan# 2017
 Delta R.T. -0.033 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

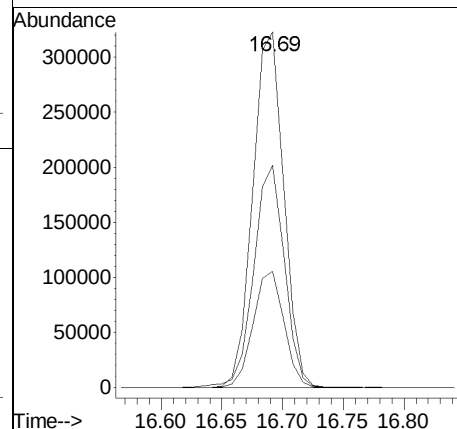
Tgt Ion	Ratio	Lower	Upper
166	100		
131	75.6	59.5	89.3
94	33.8	27.4	41.0

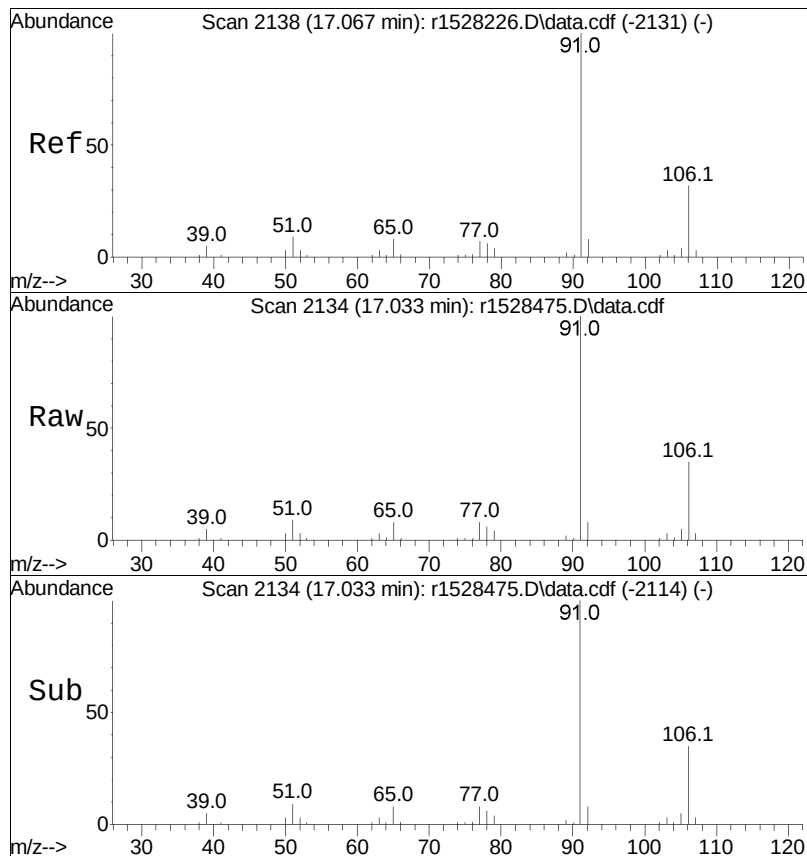




#80
 chlorobenzene
 Concen: 11.68 ppbV
 RT: 16.69 min Scan# 2093
 Delta R.T. -0.033 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

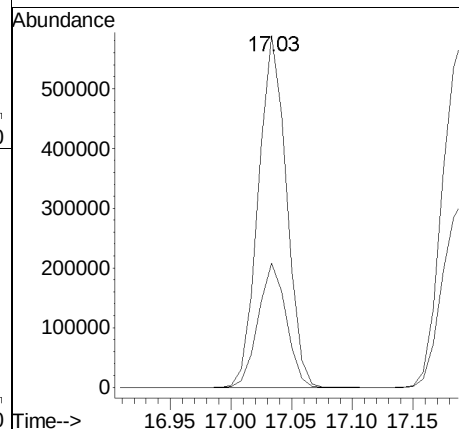
Tgt	Ion:112	Resp:	573459
Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.2	39.4
77	62.5	49.3	73.9

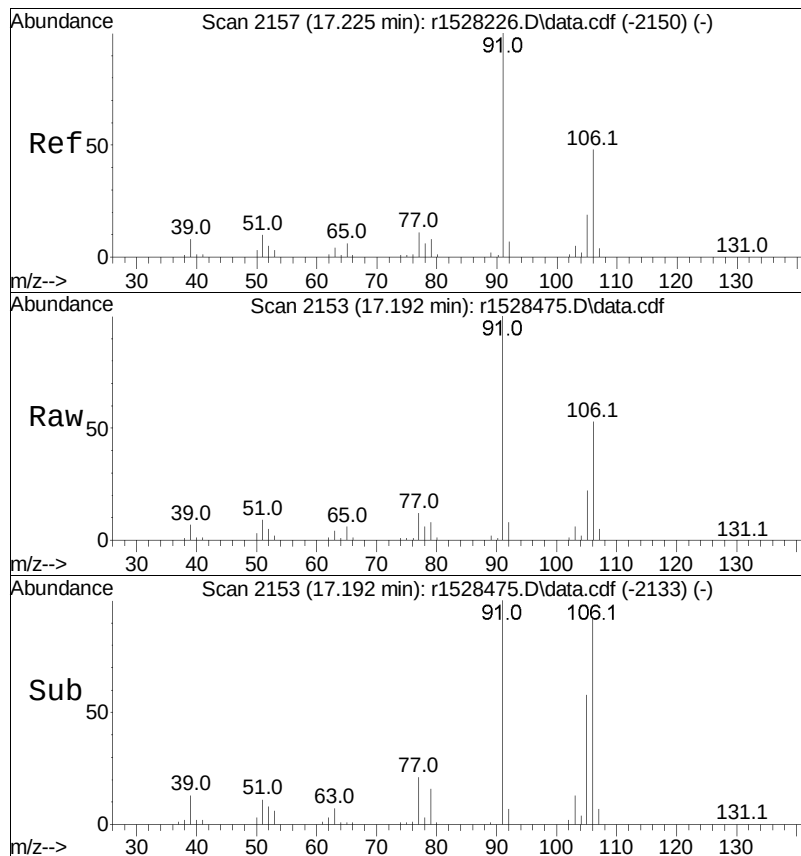




#81
ethylbenzene
Concen: 10.84 ppbV
RT: 17.03 min Scan# 2134
Delta R.T. -0.033 min
Lab File: r1528475.D
Acq: 21 Sep 2021 12:25 PM

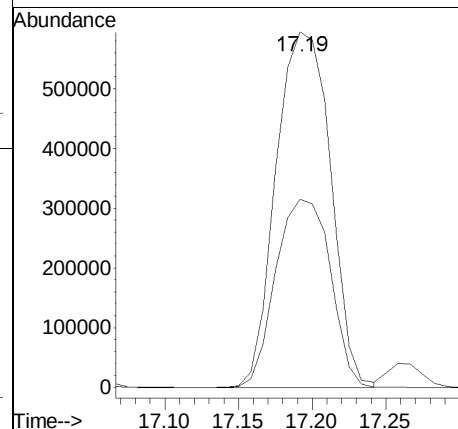
Tgt	Ion	Resp	Lower	Upper
91	100	946653		
106	35.3	25.3	37.9	

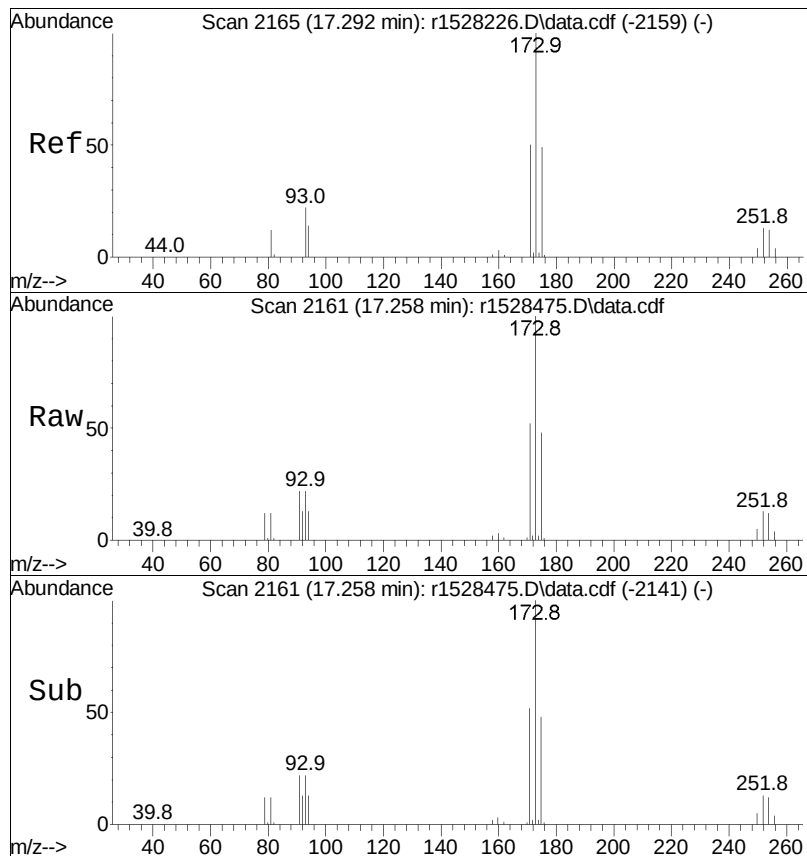




#83
 m+p-xylene
 Concen: 22.00 ppbV
 RT: 17.19 min Scan# 2153
 Delta R.T. -0.033 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

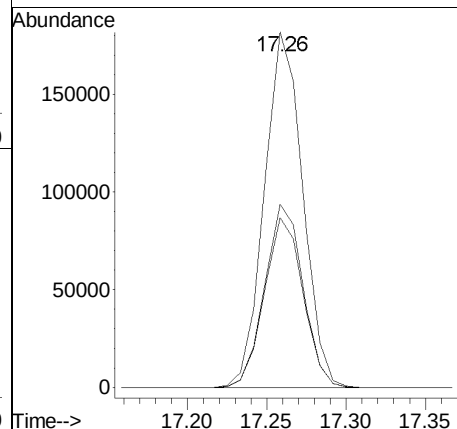
Tgt	Ion	Resp	Lower	Upper
91	100	1528859		
106	52.9	38.6	58.0	

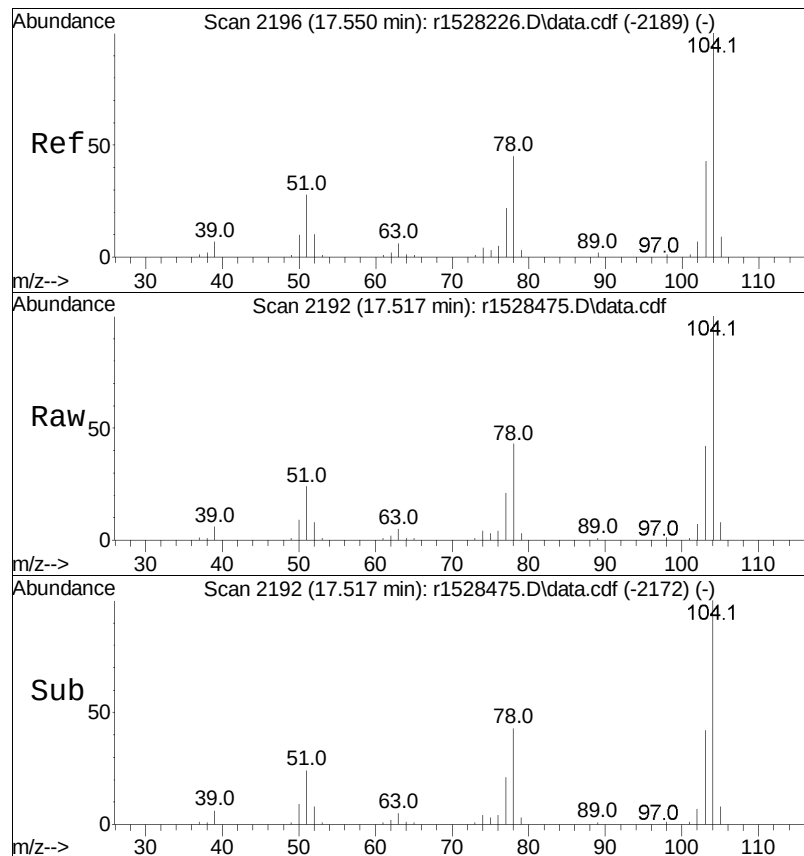




#84
bromoform
Concen: 13.44 ppbV
RT: 17.26 min Scan# 2161
Delta R.T. -0.033 min
Lab File: r1528475.D
Acq: 21 Sep 2021 12:25 PM

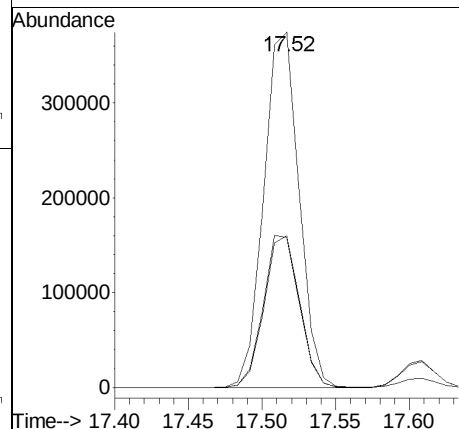
Tgt	Ion:173	Resp:	305382
Ion	Ratio	Lower	Upper
173	100		
175	47.7	38.9	58.3
171	51.6	39.8	59.8

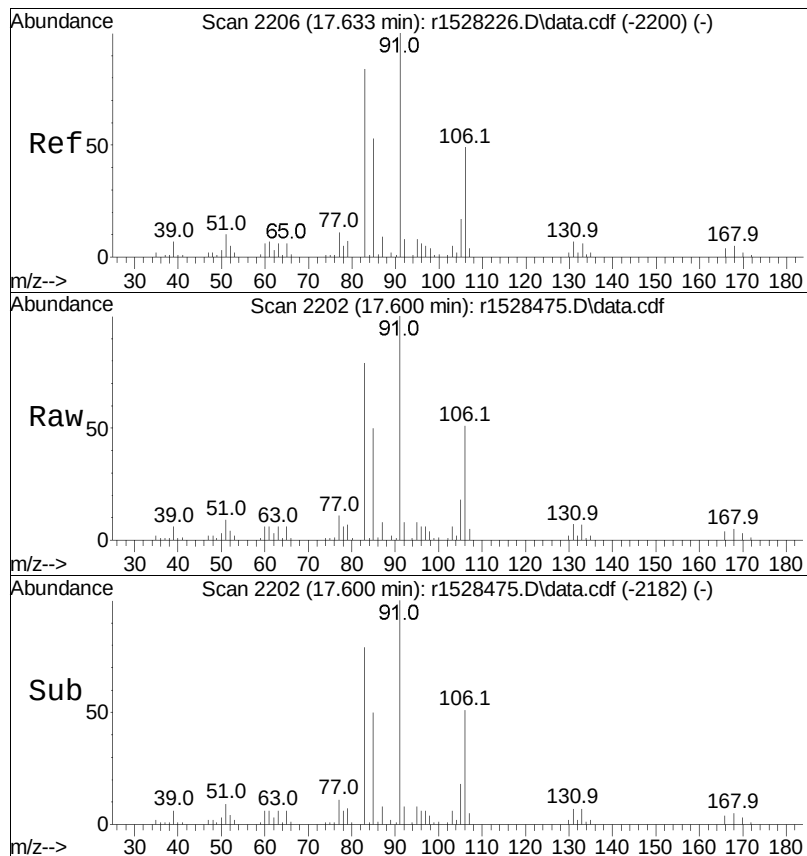




#85
styrene
Concen: 11.96 ppbV
RT: 17.52 min Scan# 2192
Delta R.T. -0.033 min
Lab File: r1528475.D
Acq: 21 Sep 2021 12:25 PM

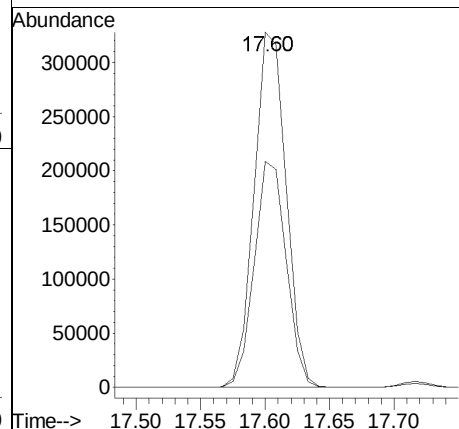
Tgt	Ion	Ratio	Lower	Upper
104	100			
103	42.2	34.1	51.1	
78	42.7	35.8	53.8	

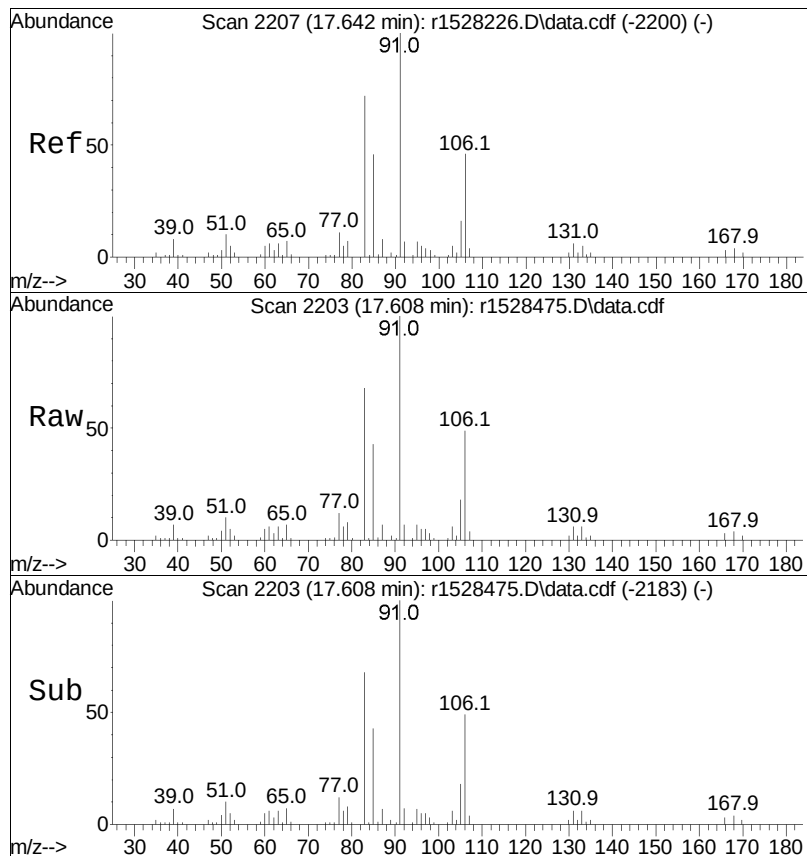




#86
 1,1,2,2-tetrachloroethane
 Concen: 11.04 ppbV
 RT: 17.60 min Scan# 2202
 Delta R.T. -0.033 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

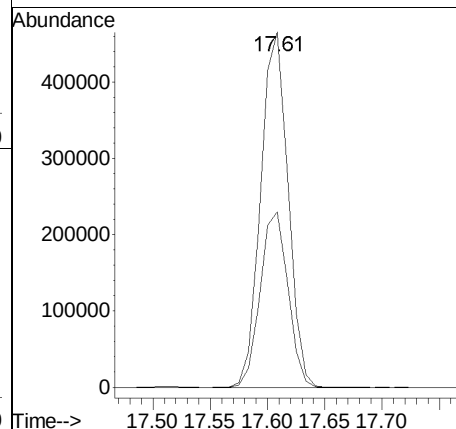
Tgt Ion:	83	Resp:	567692
Ion Ratio	Lower	Upper	
83	100		
85	63.6	50.9	76.3

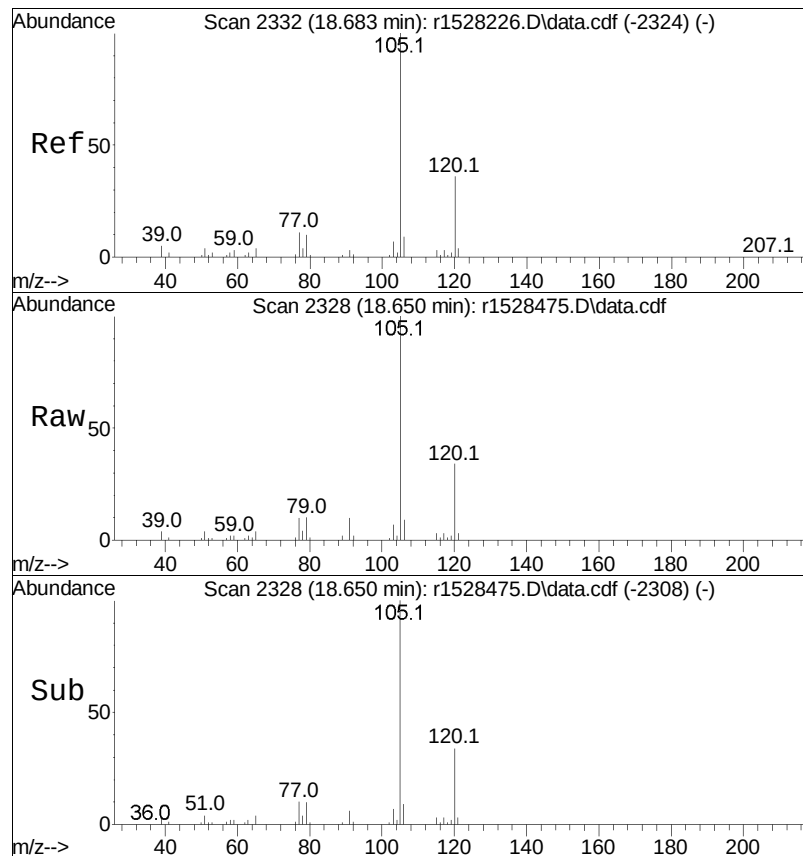




#87
 o-xylene
 Concen: 11.25 ppbV
 RT: 17.61 min Scan# 2203
 Delta R.T. -0.033 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

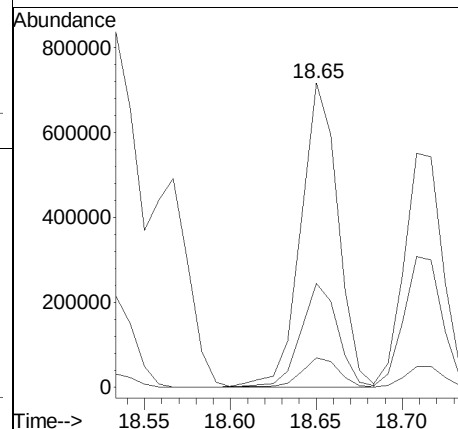
Tgt	Ion	Resp	Lower	Upper
91	100	771937		
106	49.4	36.5	54.7	

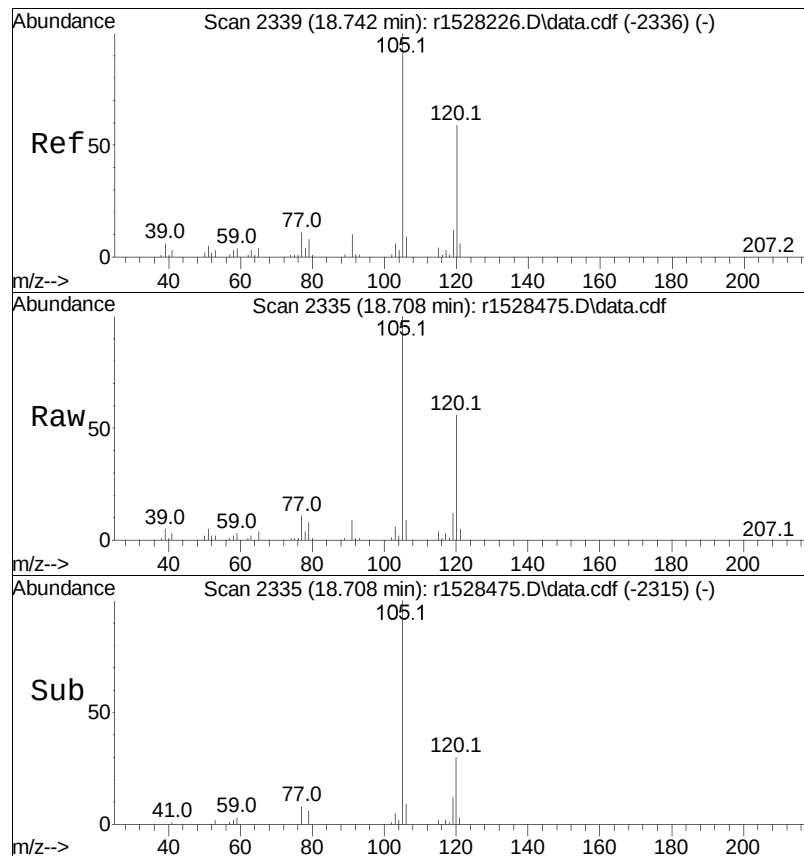




#96
 4-ethyl toluene
 Concen: 11.73 ppbV
 RT: 18.65 min Scan# 2328
 Delta R.T. -0.033 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

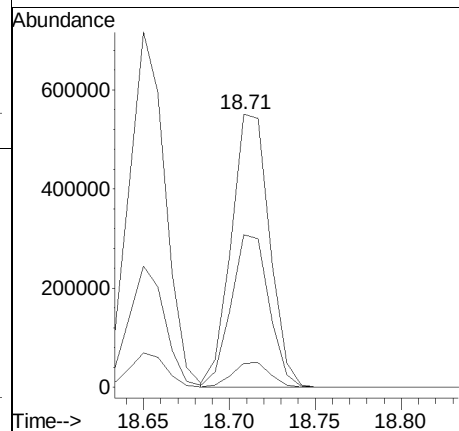
Tgt Ion:	105	Resp:	1083719
Ion Ratio	Lower	Upper	
105	100		
120	34.2	29.0	43.6
91	9.7	8.5	12.7

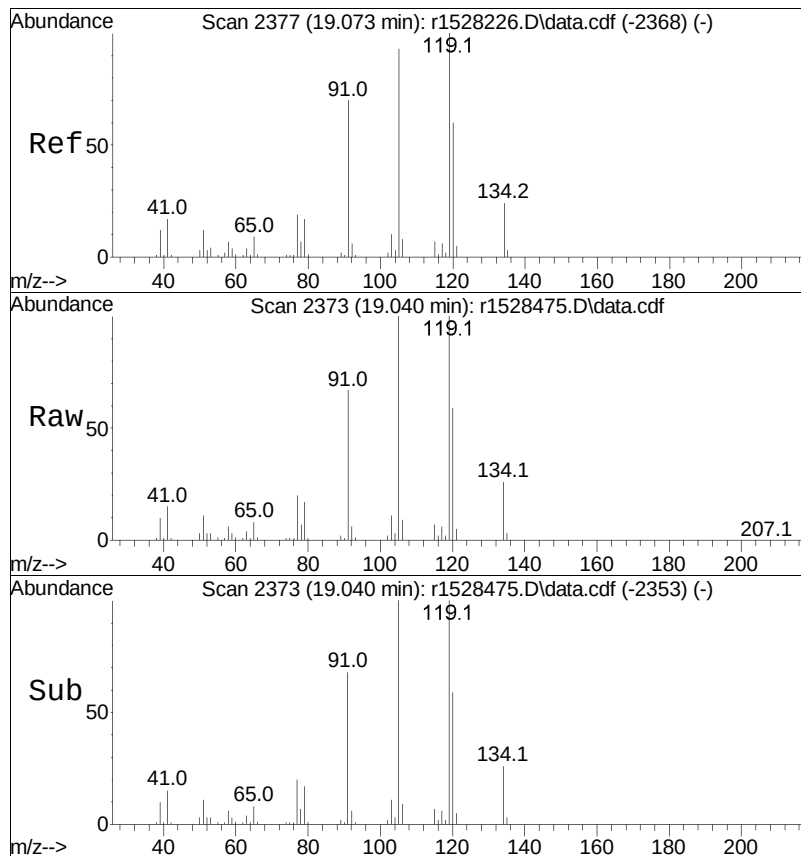




#97
 1,3,5-trimethylbenzene
 Concen: 11.82 ppbV
 RT: 18.71 min Scan# 2335
 Delta R.T. -0.033 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

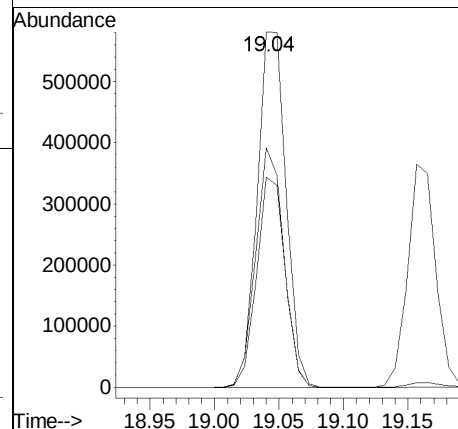
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	857864		
120	55.9		47.4	71.0
91	8.9		7.9	11.9

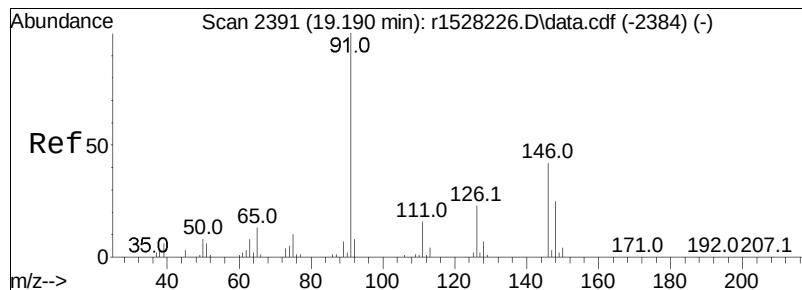




#99
 1,2,4-trimethylbenzene
 Concen: 12.74 ppbV
 RT: 19.04 min Scan# 2373
 Delta R.T. -0.033 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	906078		
120	59.2		51.8	77.6
91	67.4		59.5	89.3





#101

Benzyl Chloride

Concen: 10.29 ppbV

RT: 19.16 min Scan# 2387

Delta R.T. -0.033 min

Lab File: r1528475.D

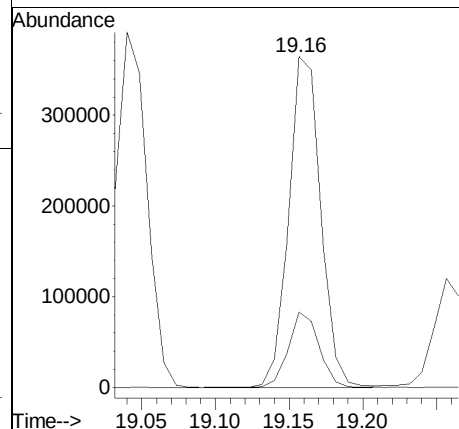
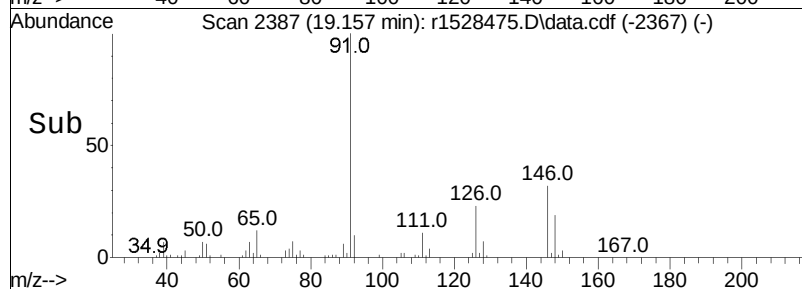
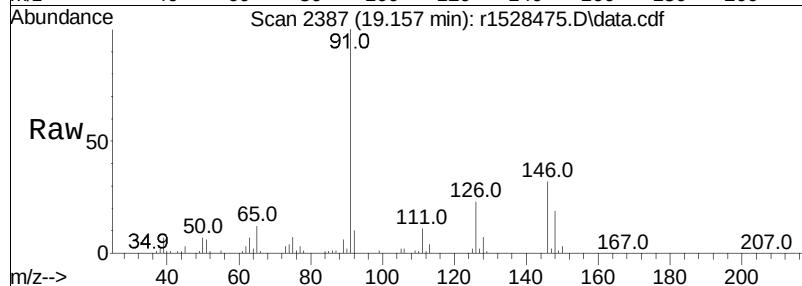
Acq: 21 Sep 2021 12:25 PM

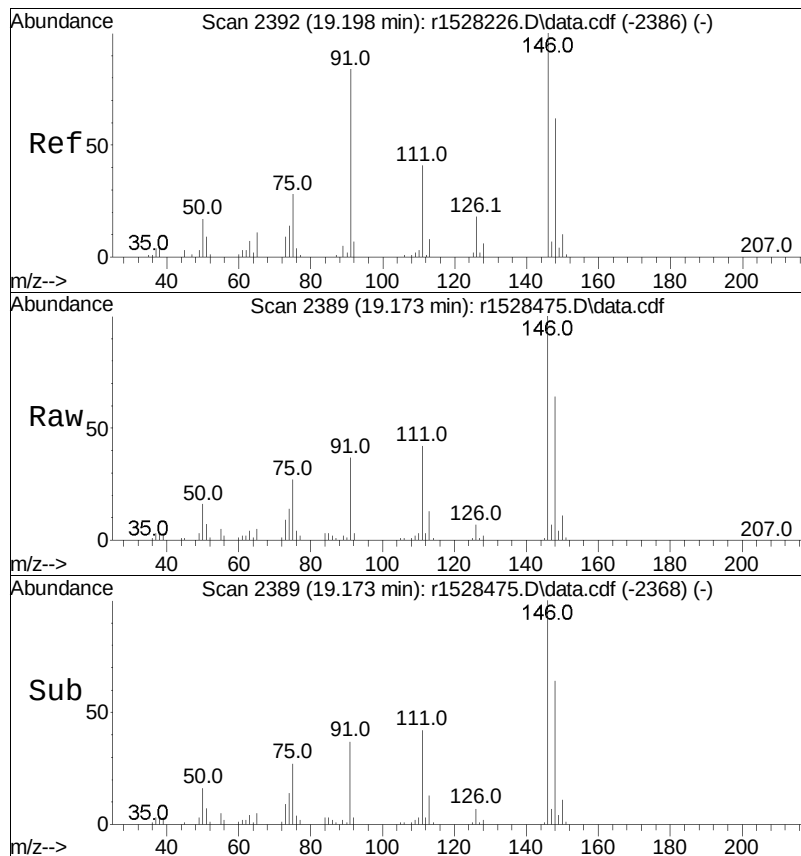
Tgt Ion: 91 Resp: 551305

Ion Ratio Lower Upper

91 100

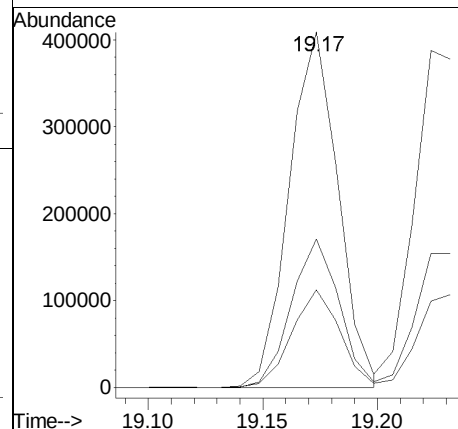
126 22.8 18.2 27.4

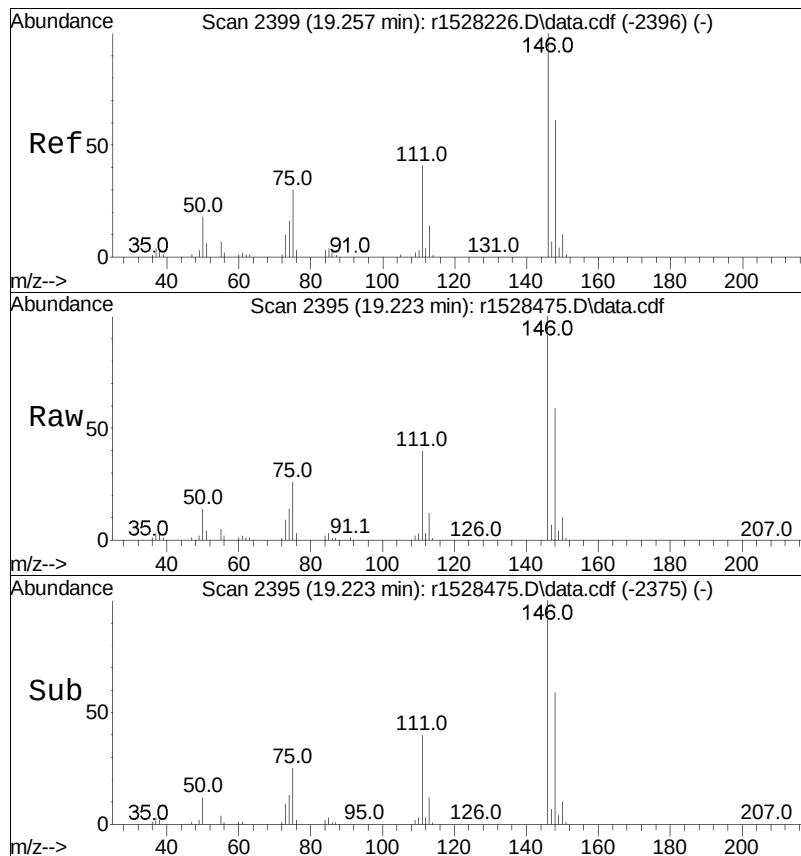




#102
 1,3-dichlorobenzene
 Concen: 12.73 ppbV
 RT: 19.17 min Scan# 2389
 Delta R.T. -0.025 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

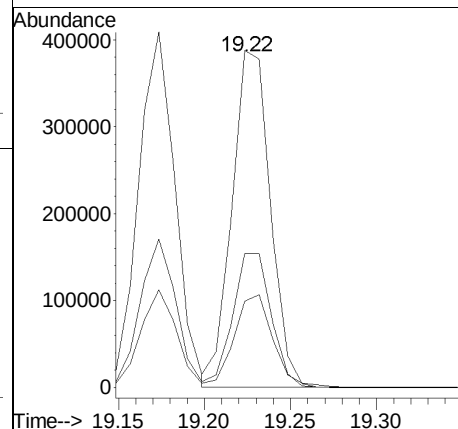
Tgt	Ion:146	Resp:	605331
Ion	Ratio	Lower	Upper
146	100		
111	41.8	32.4	48.6
75	27.5	22.2	33.2

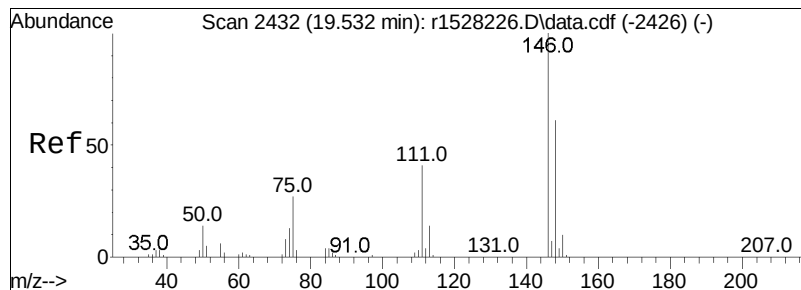




#103
 1,4-dichlorobenzene
 Concen: 12.82 ppbV
 RT: 19.22 min Scan# 2395
 Delta R.T. -0.033 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

Tgt Ion:	146	Resp:	600481
Ion Ratio	Lower	Upper	
146	100		
111	39.8	32.6	49.0
75	25.6	23.7	35.5





#107

1,2-dichlorobenzene

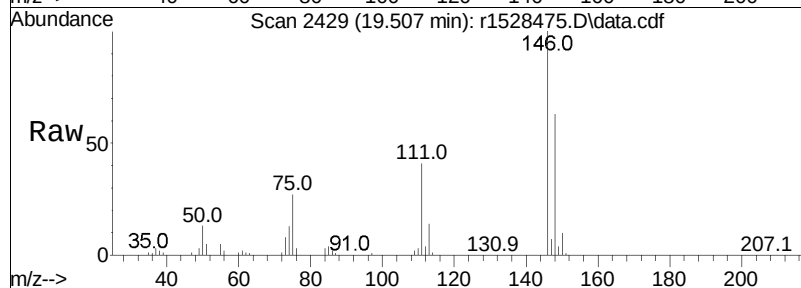
Concen: 12.84 ppbV

RT: 19.51 min Scan# 2429

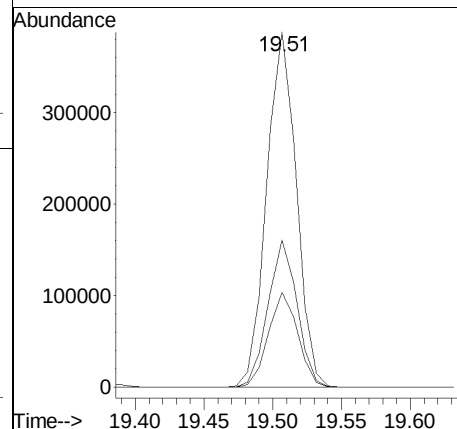
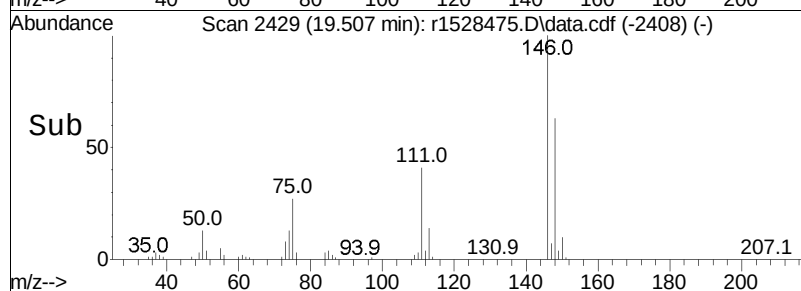
Delta R.T. -0.025 min

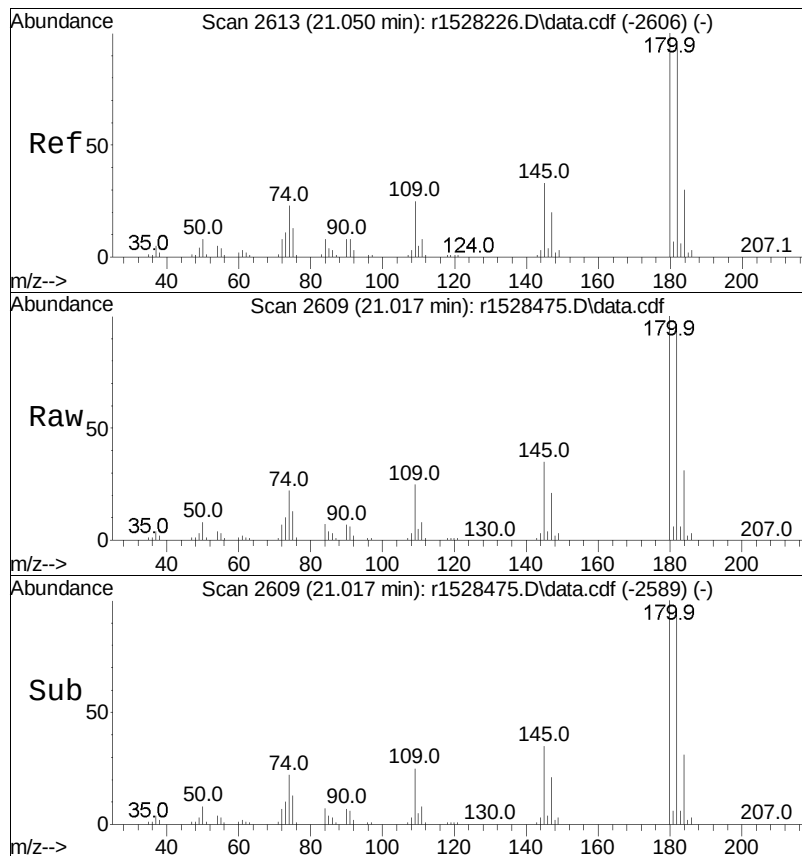
Lab File: r1528475.D

Acq: 21 Sep 2021 12:25 PM



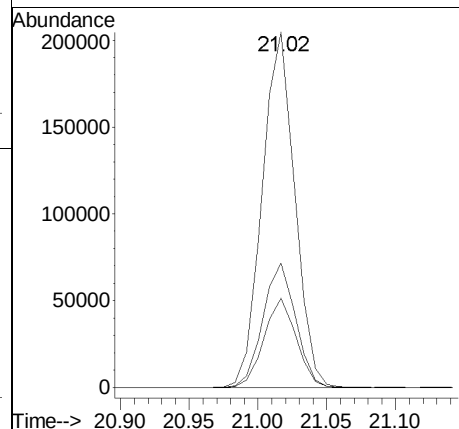
Tgt	Ion:146	Resp:	585175
Ion	Ratio	Lower	Upper
146	100		
111	41.5	32.6	49.0
75	26.7	21.7	32.5

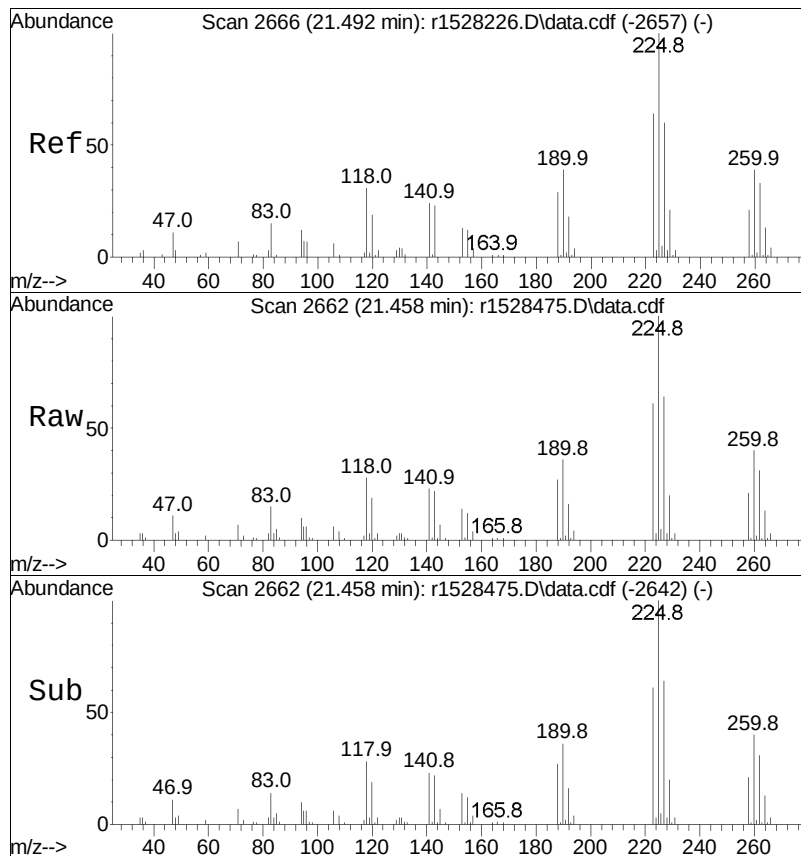




#115
 1,2,4-trichlorobenzene
 Concen: 9.87 ppbV
 RT: 21.02 min Scan# 2609
 Delta R.T. -0.033 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

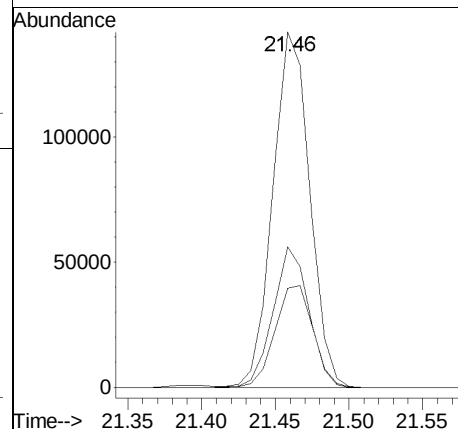
Tgt	Ion:180	Resp:	337003
Ion	Ratio	Lower	Upper
180	100		
145	35.0	26.0	39.0
109	25.1	19.8	29.8





#119
 hexachlorobutadiene
 Concen: 8.66 ppbV
 RT: 21.46 min Scan# 2662
 Delta R.T. -0.033 min
 Lab File: r1528475.D
 Acq: 21 Sep 2021 12:25 PM

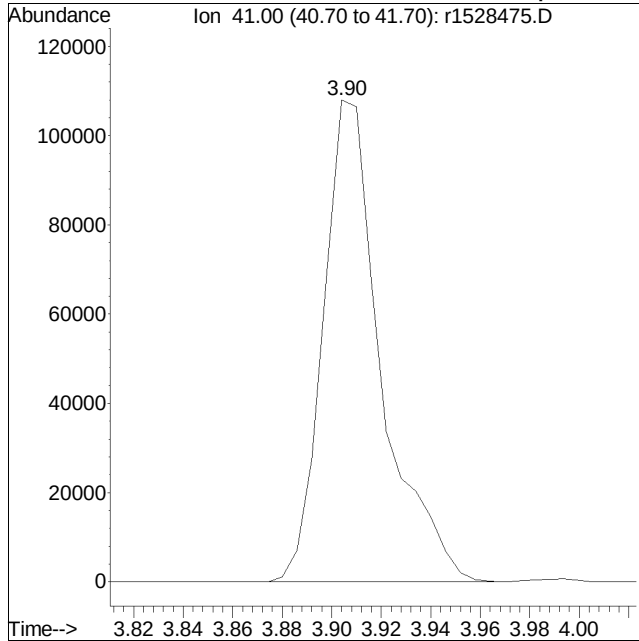
Tgt	Ion	Ratio	Resp	Lower	Upper
225	100		246996		
260	39.6			31.4	47.2
118	27.9			25.0	37.6



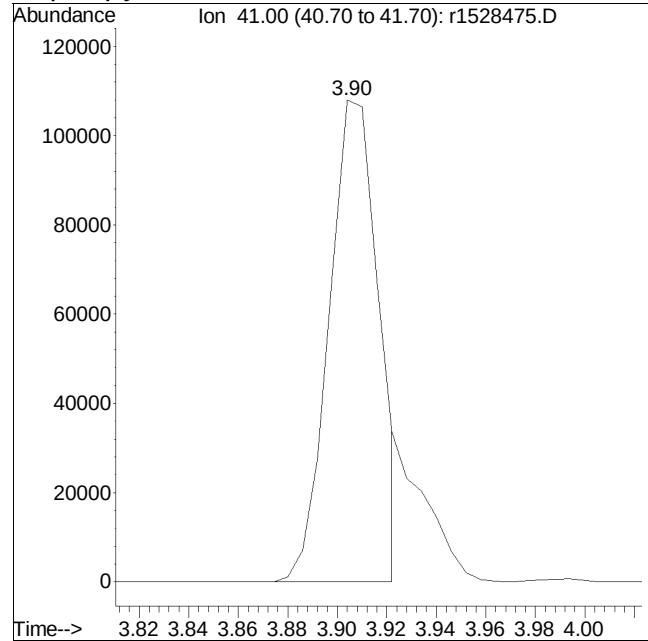
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528475.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:2: 5 Instrument :
Sample : WG1549026-3,3,250,250 Quant Date : 9/21/2021 2:26 pm

Compound #3: propylene



Original Peak Response = 175884



Manual Peak Response = 151445 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528485.D
 Acq On : 21 Sep 2021 9:07 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-5,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 06:22:35 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : MCP-AIR-TO15 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.63	49	355621	10.000	ppbV	-0.05
Standard Area = 344610			Recovery = 103.20%			
43) 1,4-difluorobenzene	11.92	114	850676	10.000	ppbV	-0.04
Standard Area = 879831			Recovery = 96.69%			
67) chlorobenzene-D5	16.65	54	160915	10.000	ppbV	-0.03
Standard Area = 155534			Recovery = 103.46%			

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) vinyl chloride	0.00		0	N.D.		
13) bromomethane	0.00		0	N.D.		
19) acetone	5.89	43	354904	15.134	ppbV	93
26) 1,1-dichloroethene	0.00		0	N.D.		
28) methylene chloride	7.05	49	3343	0.194	ppbV	96
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	8.50		0	N.D.		
36) 2-butanone	8.90	43	666500	15.308	ppbV	95
37) cis-1,2-dichloroethene	9.33		0	N.D.		
39) chloroform	9.79		0	N.D.		
42) 1,2-dichloroethane	10.64		0	N.D.		
48) 1,1,1-trichloroethane	0.00		0	N.D.		
50) benzene	11.48	78	4736	0.071	ppbV	97
52) carbon tetrachloride	11.66	117	1338	0.065	ppbV #	96
56) 1,2-dichloropropane	0.00		0	N.D.		
57) bromodichloromethane	0.00		0	N.D.		
58) 1,4-dioxane	12.72	88	1913	0.115	ppbV	94
59) trichloroethene	0.00		0	N.D.		
63) cis-1,3-dichloropropene	0.00		0	N.D.		
64) 4-methyl-2-pentanone	13.79		0	N.D.		
65) trans-1,3-dichloropropene	14.34		0	N.D.		
66) 1,1,2-trichloroethane	0.00		0	N.D.		
68) toluene	14.88	91	7672	0.103	ppbV	94
74) dibromochloromethane	0.00		0	N.D.		
75) 1,2-dibromoethane	0.00		0	N.D.		
78) tetrachloroethene	16.04		0	N.D.		
80) chlorobenzene	0.00		0	N.D.		
81) ethylbenzene	17.04		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921T\
 Data File : r1528485.D
 Acq On : 21 Sep 2021 9:07 PM
 Operator : AIRLAB15:RY
 Sample : WG1549026-5,3,250,250
 Misc : WG1549026,ICAL18279
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 06:22:35 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921T\TFS15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 14:18:59 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921T\r1528475.D
 Sub List : MCP-AIR-TO15 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

83) m+p-xylene	17.19		0		N.D.	
84) bromoform	0.00		0		N.D.	
85) styrene	17.52		0		N.D.	
86) 1,1,2,2-tetrachloroethane	17.50		0		N.D.	
87) o-xylene	17.61		0		N.D.	
102) 1,3-dichlorobenzene	19.23		0		N.D.	
103) 1,4-dichlorobenzene	19.23		0		N.D.	
107) 1,2-dichlorobenzene	0.00		0		N.D.	
115) 1,2,4-trichlorobenzene	0.00		0		N.D.	
116) naphthalene	21.14		0		N.D.	
119) hexachlorobutadiene	0.00		0		N.D.	

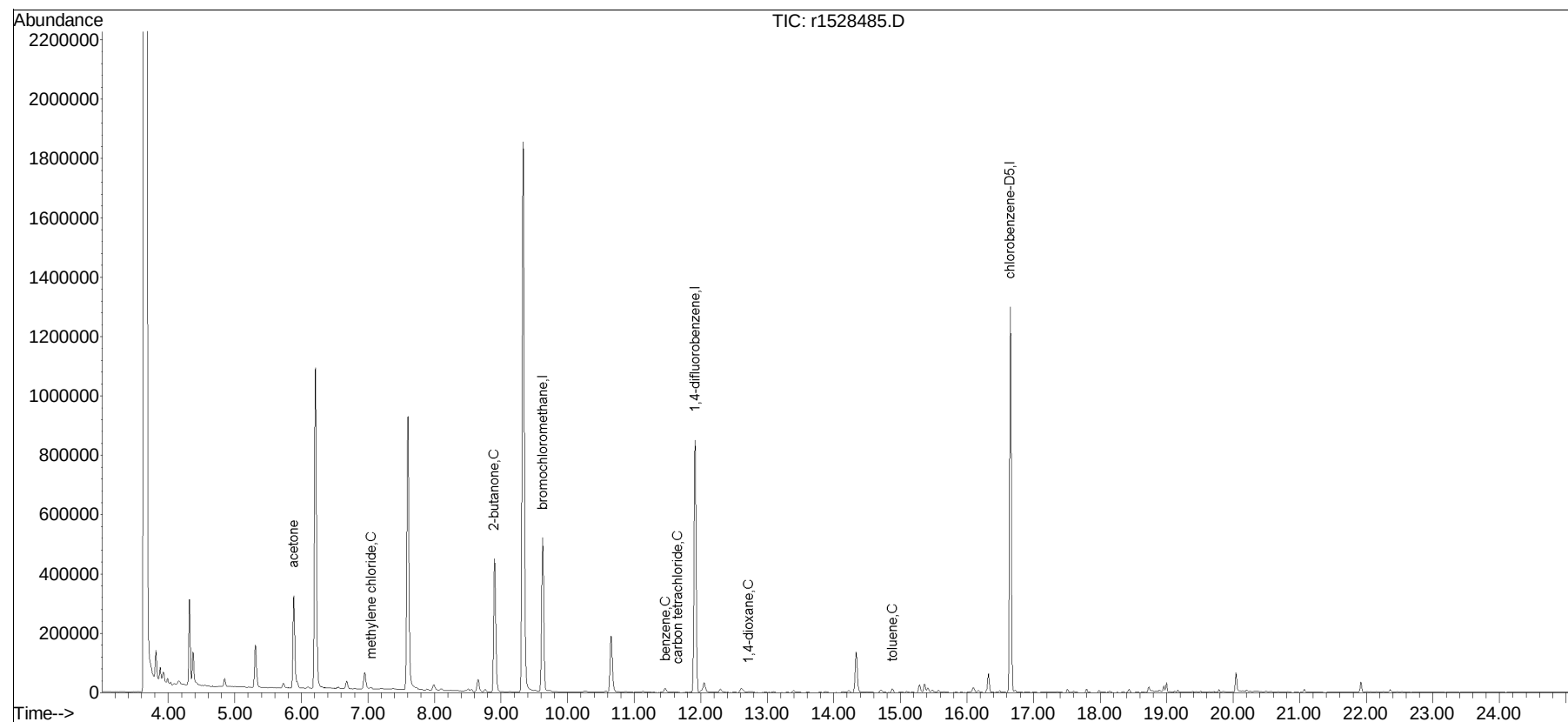
(#) = qualifier out of range (m) = manual integration (+) = signals summed

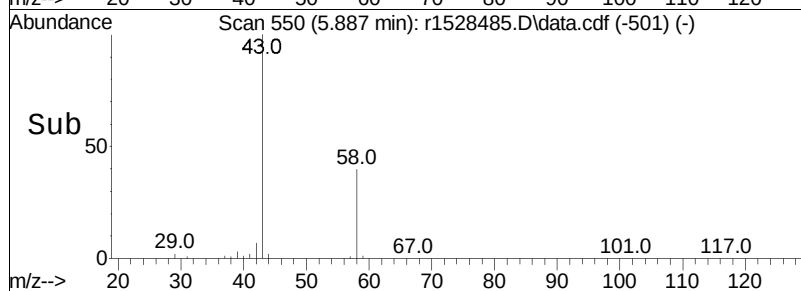
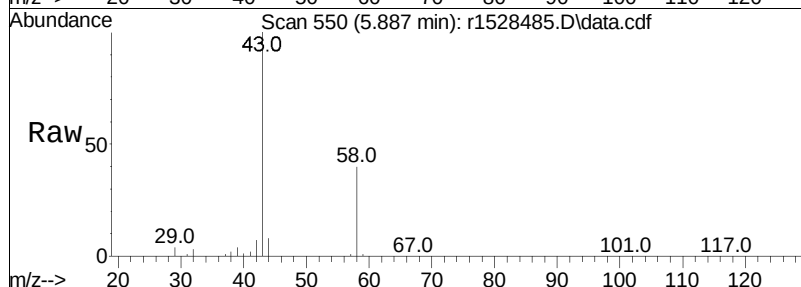
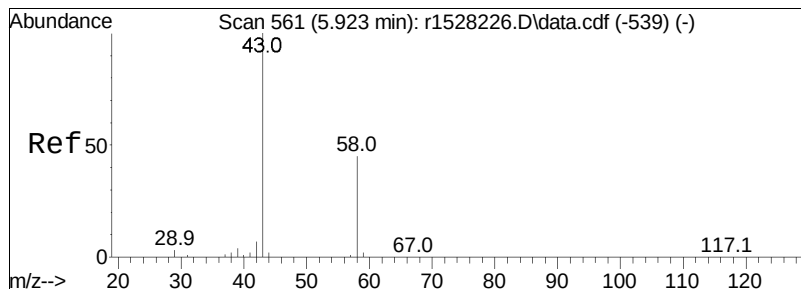
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AirLab15\2021\09\0921T\
Data File : r1528485.D
Acq On : 21 Sep 2021 9:07 PM
Operator : AIRLAB15:RY
Sample : WG1549026-5,3,250,250
Misc : WG1549026,ICAL18279
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 06:22:35 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0921T\TFS15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 14:18:59 2021
Response via : Initial Calibration

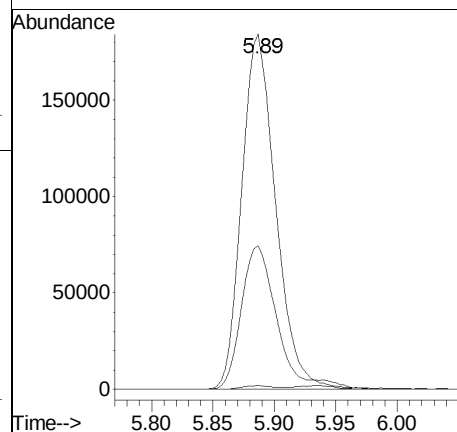
Sub List : MCP-AIR-T015 - All compounds listed0921T\r1528475.D

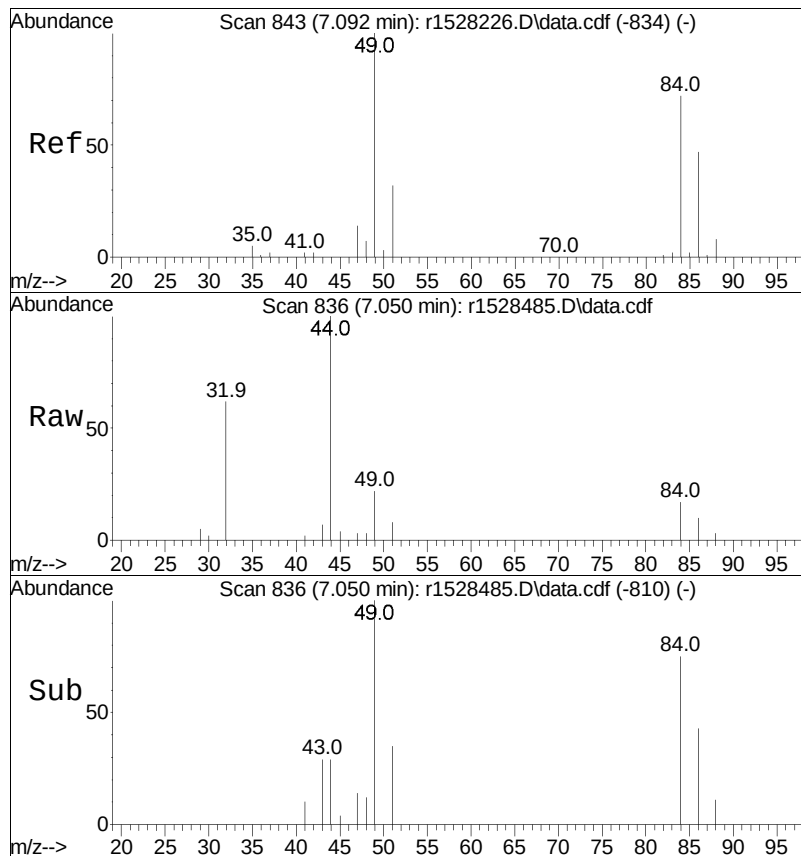




#19
acetone
Concen: 15.13 ppbV
RT: 5.89 min Scan# 550
Delta R.T. -0.037 min
Lab File: r1528485.D
Acq: 21 Sep 2021 9:07 PM

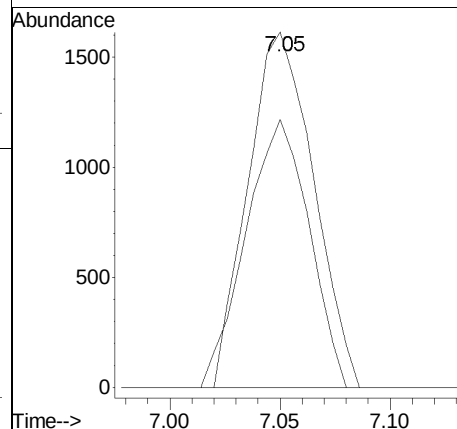
Tgt Ion: 43 Resp: 354904
Ion Ratio Lower Upper
43 100
58 40.4 36.2 54.2
57 1.2 0.9 1.3

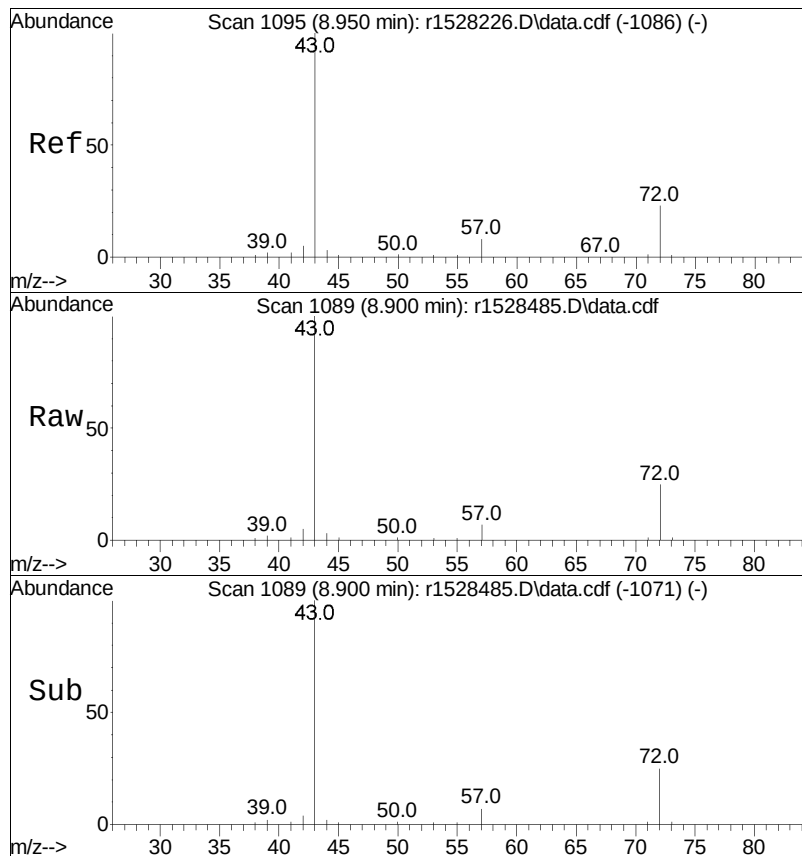




#28
 methylene chloride
 Concen: 0.19 ppbV
 RT: 7.05 min Scan# 836
 Delta R.T. -0.042 min
 Lab File: r1528485.D
 Acq: 21 Sep 2021 9:07 PM

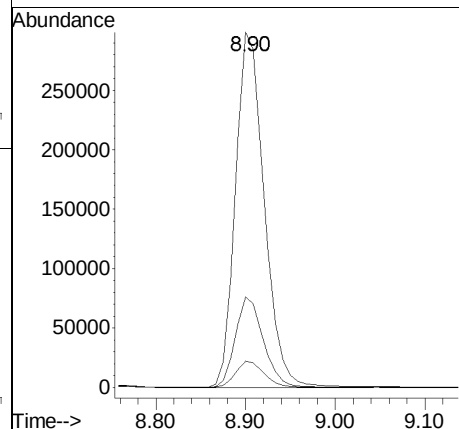
Tgt Ion:	49	84	Ratio	100	75.4	Resp:	3343	Lower	Upper
								57.4	86.0

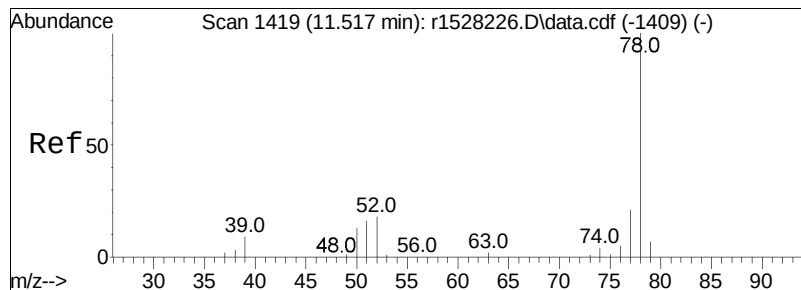




#36
 2-butanone
 Concen: 15.31 ppbV
 RT: 8.90 min Scan# 1089
 Delta R.T. -0.050 min
 Lab File: r1528485.D
 Acq: 21 Sep 2021 9:07 PM

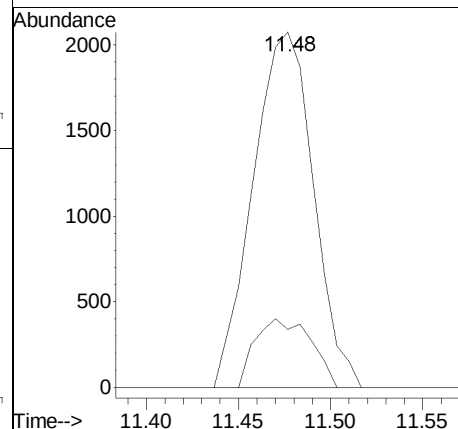
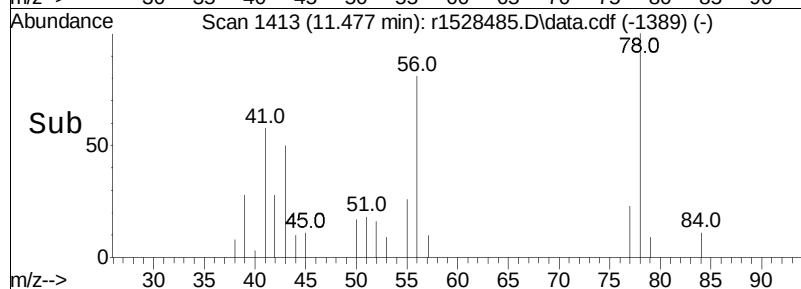
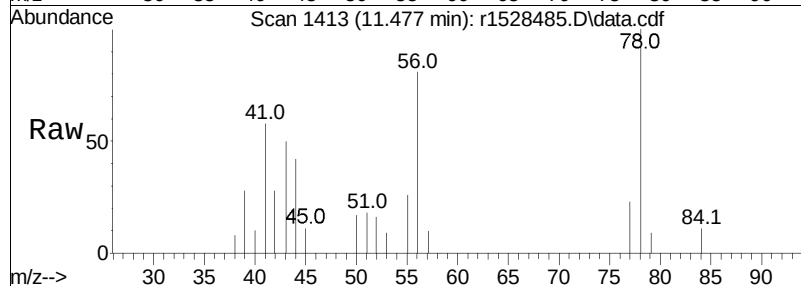
Tgt Ion:	43	Resp:	666500
Ion Ratio	Lower	Upper	
43	100		
72	25.4	18.3	27.5
57	7.4	6.6	10.0

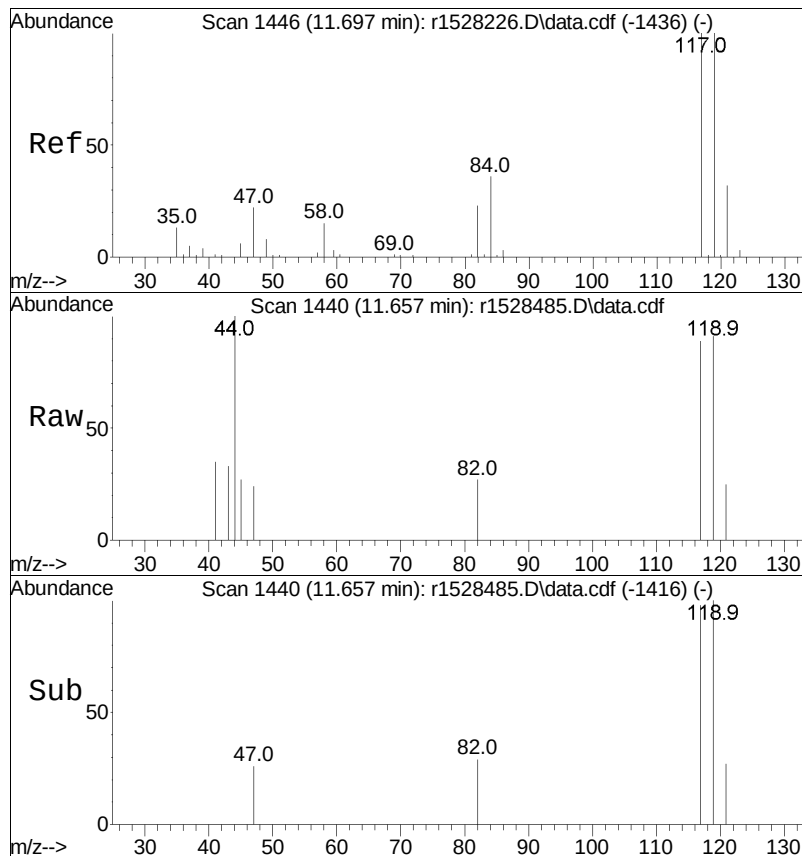




#50
benzene
Concen: 0.07 ppbV
RT: 11.48 min Scan# 1413
Delta R.T. -0.040 min
Lab File: r1528485.D
Acq: 21 Sep 2021 9:07 PM

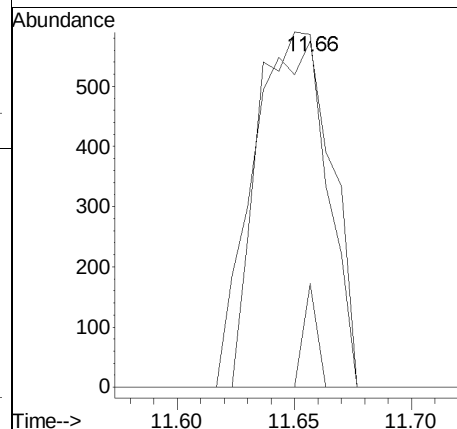
Tgt	Ion	Ratio	Lower	Upper
78	100			
52	16.4	14.2	21.4	

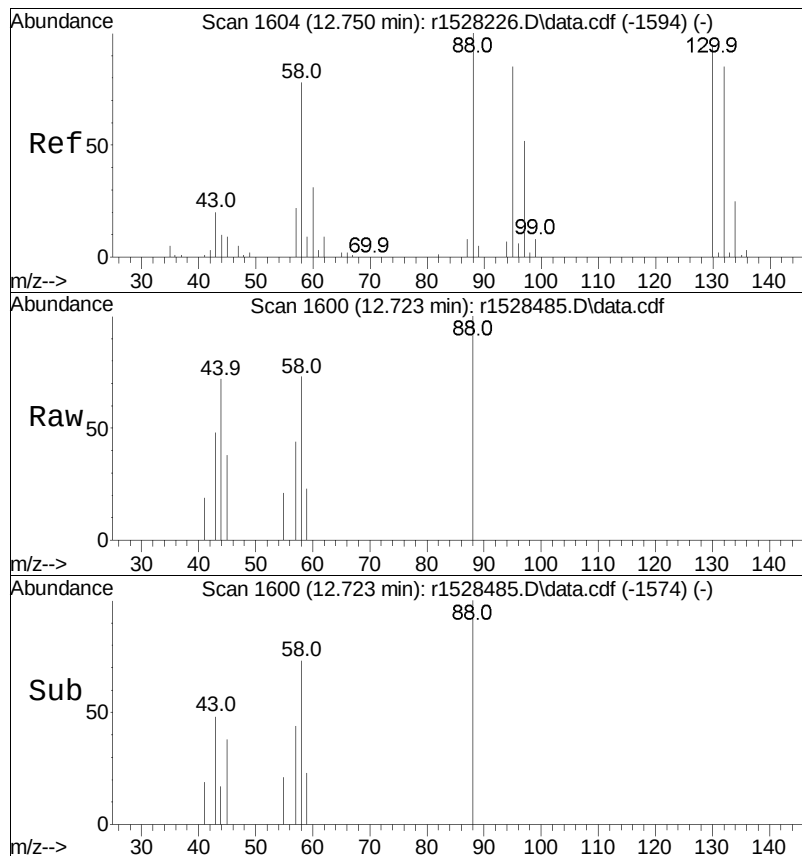




#52
 carbon tetrachloride
 Concen: 0.06 ppbV
 RT: 11.66 min Scan# 1440
 Delta R.T. -0.040 min
 Lab File: r1528485.D
 Acq: 21 Sep 2021 9:07 PM

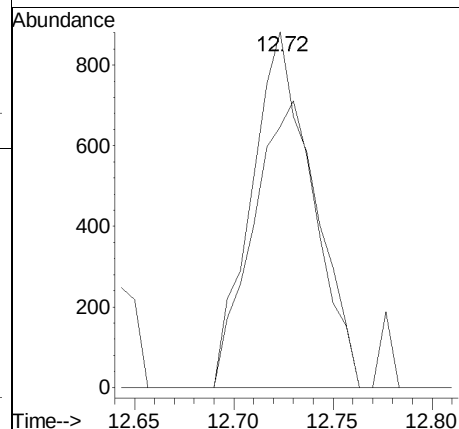
Tgt Ion	Ratio	Lower	Upper
117	100		
119	101.9	80.2	120.4
82	29.9	18.6	27.8#

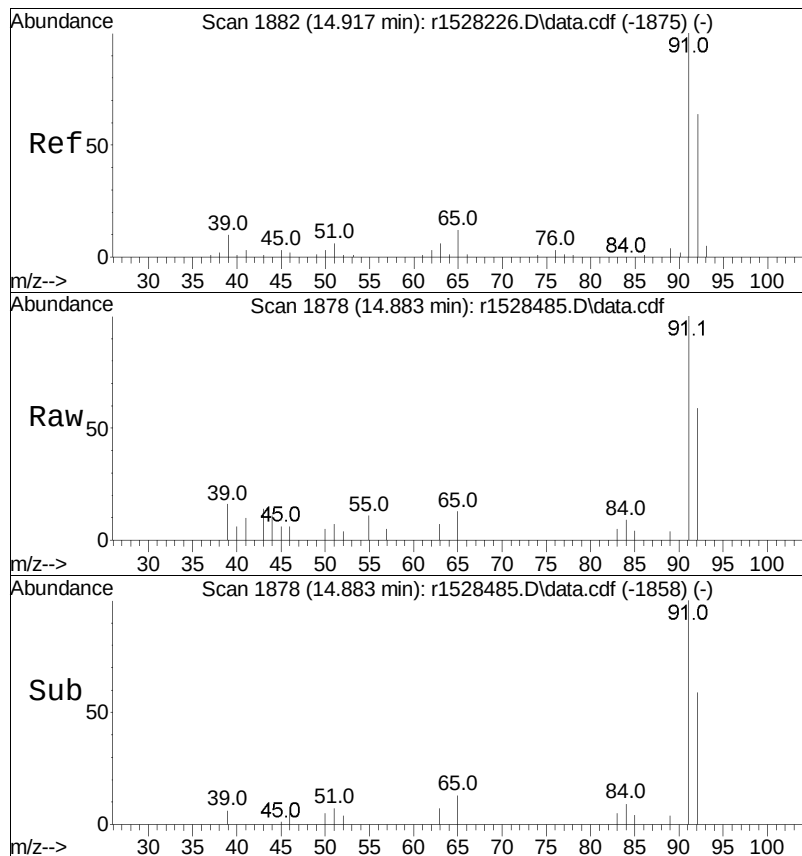




#58
 1,4-dioxane
 Concen: 0.11 ppbV
 RT: 12.72 min Scan# 1600
 Delta R.T. -0.027 min
 Lab File: r1528485.D
 Acq: 21 Sep 2021 9:07 PM

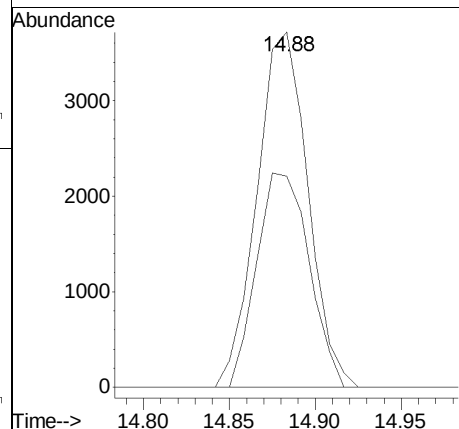
Tgt	Ion	Ratio	Lower	Upper
88	100			
58	73.4	62.8	94.2	





#68
toluene
Concen: 0.10 ppbV
RT: 14.88 min Scan# 1878
Delta R.T. -0.033 min
Lab File: r1528485.D
Acq: 21 Sep 2021 9:07 PM

Tgt	Ion	Resp	Lower	Upper
91	100	7672		
92	59.4	51.6	77.4	



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_210902.M
Data File : r1528485.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:9: 7 Instrument :
Sample : WG1549026-5,3,250,250 Quant Date : 9/22/2021 7:22 am

There are no manual integrations or false positives in this file.

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{\text{cf}} / V_{\text{ci}}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI / 14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF / 14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 22 2021, 03:14 pm

Work Group: WG1549026 for Department: 3 GC/MS

Created: 21-SEP-21 Due: Operator: TS

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2100177-191 DUMMY 191		S T015-LL	AIR	DONE	U	1015	0201	NC	Can-2.7
L2150027-01 VE-2		S T015-LL	SOIL_VAPOR	DONE	U	1016	0923	S0	Can-2.7
L2150027-02 VE-2-IA		S T015-LL	AIR	DONE	U	1016	0923	S0	Can-2.7
L2150027-03 DUP-091621		S T015-LL	AIR	DONE	U	1016	0923	S0	Can-2.7
L2150027-04 VE-1		S T015-LL	SOIL_VAPOR	DONE	U	1016	0923	S0	Can-2.7
L2150027-05 VE-1-IA		S T015-LL	AIR	DONE	U	1016	0923	S0	Can-2.7
L2150061-01 IA01_091621		S T015-LL	AIR	DONE	U	1016	0923	S0	Can-2.7
L2150061-02 SV01_091621		S T015-LL	SOIL_VAPOR	DONE	U	1016	0923	S0	Can-2.7
L2150061-03 IA02_091621		S T015-LL	AIR	DONE	U	1016	0923	S0	Can-2.7
L2150061-04 SV02_091621		S T015-LL	SOIL_VAPOR	DONE	U	1016	0923	S0	Can-2.7
L2150061-05 IA03_091621		S T015-LL	AIR	DONE	U	1016	0923	S0	Can-2.7
L2150061-06 SV03_091621		S T015-LL	SOIL_VAPOR	DONE	U	1016	0923	S0	Can-2.7
L2150061-07 AA01_091621		S T015-LL	AIR	DONE	U	1016	0923	S0	Can-2.7
WG1549026-1 MS BFB Tune Standard		S T015-LL	SOIL_VAPOR	DONE	U				
WG1549026-1 MS BFB Tune Standard		S T015-LL	AIR	DONE	U				
WG1549026-2 Continuing Calibrati		S T015-LL	SOIL_VAPOR	DONE	U				
WG1549026-2 Continuing Calibrati		S T015-LL	AIR	DONE	U				
WG1549026-3 Laboratory Control S		S T015-LL	SOIL_VAPOR	DONE	U				
WG1549026-3 Laboratory Control S		S T015-LL	AIR	DONE	U				
WG1549026-4 Laboratory Method Bl		S T015-LL	AIR	DONE	U				
WG1549026-4 Laboratory Method Bl		S T015-LL	SOIL_VAPOR	DONE	U				
WG1549026-5 Duplicate Sample		S T015-LL	AIR	DONE	U				
WG1549026-5 Duplicate Sample		S T015-LL	SOIL_VAPOR	DONE	U				
Comments:									
L2100177-191	Use for L2150623-01								
WG1549026-5	L2100177-191								

Alpha Analytical Air Lab Instrument Run Log

ID: <u>AirLab15</u>	Internal Standard/Surrogate IDs: <u>SS20-009 / SS20-025</u>
Date: <u>09/02/21</u>	Internal Standard/Surrogate Volume: <u>100 ml</u>
Initials: <u>AR</u>	Sequence File Name: <u>210902.S</u>

SIM ICAL#		Full Scan ICAL#		APH ICAL#		Check Pass ? Y/N
AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	
1	BA15090201	TO15_SFS.qgm	R1528215.qgd	250 ML		NA
1	BA15090202	TO15_SFS.qgm	R1528216.qgd	250 ML		NA
1	BA15090203	TO15_SFS.qgm	R1528217.qgd	250 ML		NA
1	TA15090201	TO15_SFS.qgm	R1528218.qgd	250 ML	TUNE	NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R1528219.qgd	SS21-025D 50ML		NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R1528220.qgd	SS21-025D 100ML		NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R1528221.qgd	SS21-025D 250ML		NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R1528222.qgd	SS21-025C 50ML		NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R1528223.qgd	SS21-025C 125ML		NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R1528224.qgd	SS21-025C 250ML		NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R1528225.qgd	SS21-025B 125ML		NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R1528226.qgd	SS21-025B 250ML		NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R1528227.qgd	SS21-025A 50ML		NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R1528228.qgd	SS21-025A 125ML		NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R1528229.qgd	SS21-025A 250ML		NA
1	BA15090201	TO15_SFS.qgm	R1528230.qgd	250 ML		NA
1	BA15090202	TO15_SFS.qgm	R1528231.qgd	250 ML		NA
2	CTO15-LLSTD10	TO15_SFS.qgm	R1528232.qgd	SS21-027G 250ML	FS ICV FAILED	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1528233.qgd	SS21-027G 125ML	SIM ICV	NA
2	CTO15-LLSTD10	TO15_SFS.qgm	R1528234.qgd	SS21-027G 250ML	FS ICV	NA

Alpha Analytical Air Lab Instrument Run Log

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: AirLab15 Internal Standard/Surrogate IDs: SS20-028 / SS21-026
 Date: 09/21/21 Internal Standard/Surrogate Volume: 100 ml
 Initials: TS Sequence File Name: 210921.S

SIM ICAL# 18280

Full Scan ICAL# 18279

APH ICAL#
18274

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	Ch eck Pas s ? Y/N
1	TA15092101	TO15_SFS.qgm	R1528472.qgd	250 ML	TUNE		NA
2	CAPH-10STD10	TO15_SFS.qgm	R1528473.qgd	SS21-023B2 125 ML	APH CC		NA
3	CA15092101	TO15_SFS.qgm	R1528474.qgd	SS21-025H 250 ML	NJ CC FAILED		NA
4	CTO15-LLSTD10.0	TO15_SFS.qgm	R1528475.qgd	SS21-027G 250ML	LL LCS		NA
4	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1528476.qgd	SS21-027G 125ML	SIM LCS		NA
1	BA15092101	TO15_SFS.qgm	R1528477.qgd	250 ML	LL BLANK		NA
1	BA15092102	TO15_SFS.qgm	R1528478.qgd	250 ML	SIM BLANK		NA
1	L2150061-07,3,250,250	TO15_SFS.qgm	R1528479.qgd	WG1549026,ICAL18279		NY/7SIM	Y
2	L2150061-01,3,250,250	TO15_SFS.qgm	R1528480.qgd	WG1549026,ICAL18279	IPA OVERCAL	NY/7SIM	Y
3	L2150061-03,3,250,250	TO15_SFS.qgm	R1528481.qgd	WG1549026,ICAL18279	IPA OVERCAL	NY/7SIM	Y
3	L2150061-03DUP,3,250,250	TO15_SFS.qgm	R1528482.qgd	WG1549026,ICAL18279	SIM DUP	NY/7SIM	Y
4	L2150061-05,3,250,250	TO15_SFS.qgm	R1528483.qgd	WG1549026,ICAL18279		NY/7SIM	Y
5	L2150623-01,3,250,250	TO15_SFS.qgm	R1528484.qgd	WG1549028,ICAL18279		MCP	Y
5	L2150623-01DUP,3,250,250	TO15_SFS.qgm	R1528485.qgd	WG1549028,ICAL18279	MCP (DUMMY) DUP	MCP	Y
6	L2150027-02,3,250,250	TO15_SFS.qgm	R1528486.qgd	WG1549026,ICAL18279	IPA OVERCAL	NY/7SIM	Y
7	L2150027-03,3,250,250	TO15_SFS.qgm	R1528487.qgd	WG1549026,ICAL18279	IPA OVERCAL	NY/7SIM	Y
8	L2150027-05,3,250,250	TO15_SFS.qgm	R1528488.qgd	WG1549026,ICAL18279	ETOH OVERCAL	NY/7SIM	Y
9	L2150027-01D,3,200,250	TO15_SFS.qgm	R1528489.qgd	WG1549026,ICAL18279	T	NY	Y
10	L2150027-04D,3,138.61,250	TO15_SFS.qgm	R1528490.qgd	WG1549026,ICAL18279	905	NY	Y
11	L2150061-02,3,250,250	TO15_SFS.qgm	R1528491.qgd	WG1549026,ICAL18279		NY	Y
12	L2150061-04,3,250,250	TO15_SFS.qgm	R1528492.qgd	WG1549026,ICAL18279		NY	Y
13	L2150061-06D,3,110,250	TO15_SFS.qgm	R1528493.qgd	WG1549026,ICAL18279	T	NY	Y

Alpha Analytical Air Lab Instrument Run Log

2	L2150061-01D,3,100,250	TO15_SFS.qgm	R1528494.qgd	WG1549026,ICAL18279		IPA	Y
3	L2150061-03D,3,100,250	TO15_SFS.qgm	R1528495.qgd	WG1549026,ICAL18279		IPA	Y
6	L2150027-02D,3,75,250	TO15_SFS.qgm	R1528496.qgd	WG1549026,ICAL18279		IPA	Y
7	L2150027-03D,3,75,250	TO15_SFS.qgm	R1528497.qgd	WG1549026,ICAL18279		IPA	Y
8	L2150027-05D,3,2.51,250	TO15_SFS.qgm	R1528498.qgd	WG1549026,ICAL18279		ETOH	Y

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

**Alpha Analytical, Inc.
Canister Dilution Worksheet**

	NJDEP Required Information							Pressurization Dilution				Can Dilution				Instrument Dilution		Final Dilution Factor **	Final Volume Injected, mL ***	Analyst Initials
Sample ID	Can size, L	P ₁ in Hg	P ₁ atm	V ₁ L	P ₂ in Hg	P ₂ atm	V ₂ L	P ₁ psia	P ₂ psia	Dilution factor	Gas Used*	Volume injected, mL	Final Pressure, psia	Volume of Dilution Gas in Can, L	Can dilution factor	Volume of Bag or Can Analyzed, mL	Instrument Dilution Factor			
L2150027-04D	2.7	-18.51	0.38	1.03	-9.33	0.69	1.86	5.6	10.1	1.80	N2	1000	14.7	1.00	1.00	250	1.00	1.80	138.61	TS
L2150027-05D	2.7	-9.12	0.70	1.88	11.49	1.38	3.74	10.2	20.3	1.99	N2	100	29.4	2.00	20.04	100	2.50	99.71	2.51	TS

*N2 = Nitrogen and H2= Hydrogen

** Dilution factor on this spreadsheet may differ from reported dilution factor (calculated by LIMs) due to different rounding rules

*** Reported to 2 decimal places unless 0.01 or less; then 3 decimal places are reported

Analyst data input fields

Analyst Comments:

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Volatiles QC Summary

Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2150027
 Project Name : FORMER CLEAN ZONE DRY CLEANERS Project Number : 2546.0007Y002
 Matrix : AIR
 LCS Sample ID : WG1549027-3 Analysis Date : 09/21/21 13:04 File ID : r1528476_Ev2
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Vinyl chloride	5	4.24	85				-	70-130	25
1,1-Dichloroethene	5	4.32	86				-	70-130	25
cis-1,2-Dichloroethene	5	4.55	91				-	70-130	25
1,1,1-Trichloroethane	5	4.87	97				-	70-130	25
Carbon tetrachloride	5	5.26	105				-	70-130	25
Trichloroethene	5	4.53	91				-	70-130	25
Tetrachloroethene	5	5.61	112				-	70-130	25

Method Blank Summary
Form 4
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150027
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab Sample ID	: WG1549027-4	Lab File ID	: r1528478_Ev2
Instrument ID	: AIRLAB15		
Matrix	: AIR	Analysis Date	: 09/21/21 15:31

Client Sample No.	Lab Sample ID	Analysis Date
WG1549027-3LCS	WG1549027-3	09/21/21 13:04
IA02_091621DUP	WG1549027-5	09/21/21 19:11
VE-2-IA	L2150027-02	09/21/21 21:45
DUP-091621	L2150027-03	09/21/21 22:24
VE-1-IA	L2150027-05	09/21/21 23:03

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150027
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Analysis Date	: 09/02/21 19:00
Tune Standard	: WG1542872-1	Tune File ID	: r1528218_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	14.6
75	30.0 - 66.0% of mass 95	34.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (.5)1
174	50.0 - 120.0% of mass 95	66.9
175	4.0 - 9.0% of mass 174	4.6 (6.8)1
176	93.0 - 101% of mass 174	63.7 (95.2)1
177	5.0 - 9.0% of mass 176	4.2 (6.6)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1475068-1	R1528219_EV2	09/02/21 19:35
STD0.05	R1475068-2	R1528220_EV2	09/02/21 20:11
STD0.1	R1475068-3	R1528221_EV2	09/02/21 20:49
STD0.2	R1475068-4	R1528222_EV2	09/02/21 21:27
STD0.5	R1475068-5	R1528223_EV2	09/02/21 22:06
STD1.0	R1475068-6	R1528224_EV2	09/02/21 22:47
STD5.0	R1475068-7	R1528225_EV2	09/02/21 23:26
STD010	R1475068-8	R1528226_EV2	09/03/21 00:07
STD020	R1475068-9	R1528227_EV2	09/03/21 00:44
STD050	R1475068-10	R1528228_EV2	09/03/21 01:23
ICV QUANT	R1475068-11	R1528233_EV2	09/03/21 10:08

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150027
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Analysis Date	: 09/21/21 10:24
Tune Standard	: WG1549027-1	Tune File ID	: r1528472_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	13.6
75	30.0 - 66.0% of mass 95	36.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (.5)1
174	50.0 - 120.0% of mass 95	72.1
175	4.0 - 9.0% of mass 174	5.2 (7.2)1
176	93.0 - 101% of mass 174	68.6 (95.2)1
177	5.0 - 9.0% of mass 176	4.5 (6.5)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1549027-2CCAL	WG1549027-2	R1528476_EV2	09/21/21 13:04
WG1549027-3LCS	WG1549027-3	R1528476_EV2	09/21/21 13:04
WG1549027-4BLANK	WG1549027-4	R1528478_EV2	09/21/21 15:31
WG1549027-5DUP	WG1549027-5	R1528482_EV2	09/21/21 19:11
VE-2-IA	L2150027-02	R1528486_EV2	09/21/21 21:45
DUP-091621	L2150027-03	R1528487_EV2	09/21/21 22:24
VE-1-IA	L2150027-05	R1528488_EV2	09/21/21 23:03

Internal Standard Area and RT Summary

Form 8a

Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150027
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Analysis Date	: 09/21/21 13:04:00
Sample No	: WG1549027-2	Lab File ID	: R1528476_EV2

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1549027-2	214864	9.62	548072	11.91	95313	16.64
Upper Limit	300810	9.95	767301	12.24	133438	16.97
Lower Limit	128918	9.29	328843	11.58	57188	16.31
Sample ID						
WG1549027-3 LCS	214864	9.62	548072	11.91	95313	16.64
WG1549027-4 BLANK	211582	9.62	528441	11.91	92360	16.62
IA02_091621 DUP	205050	9.62	524389	11.91	92623	16.64
VE-2-IA	228070	9.62	545715	11.91	101023	16.64
DUP-091621	234002	9.62	558948	11.91	103835	16.64
VE-1-IA	241809	9.63	589250	11.92	106132	16.65

Area Upper Limit = +40% of internal standard area
Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT
RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits





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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.02	0.0083	ppbV	70-130	25		25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.02	0.0053	ppbV	70-130	25		25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.02	0.0056	ppbV	70-130	25		25	25			
1,1,2-Trichloroethane	79-00-5	0.02	0.0058	ppbV	70-130	25		25	25			
1,1-Dichloroethane	75-34-3	0.02	0.0073	ppbV	70-130	25		25	25			
1,1-Dichloroethene	75-35-4	0.02	0.0084	ppbV	70-130	25		25	25			
1,2,3-Trichloropropane	96-18-4	0.02	0.0054	ppbV	70-130	25		25	25			
1,2,4-Trimethylbenzene	95-63-6	0.02	0.0043	ppbV	70-130	25		25	25			
1,2-Dibromoethane	106-93-4	0.02	0.008	ppbV	70-130	25		25	25			
1,2-Dibromo-3-chloropropane	96-12-8	0.02	0.0056	ppbV	70-130	25		25	25			
1,2-Dichlorobenzene	95-50-1	0.02	0.0098	ppbV	70-130	25		25	25			
1,2-Dichloroethane	107-06-2	0.02	0.0097	ppbV	70-130	25		25	25			
1,2-Dichloropropane	78-87-5	0.02	0.0054	ppbV	70-130	25		25	25			
1,3,5-Trimethylbenzene	108-67-8	0.02	0.0056	ppbV	70-130	25		25	25			
1,3-Butadiene	106-99-0	0.02	0.0097	ppbV	70-130	25		25	25			
1,3-Dichlorobenzene	541-73-1	0.02	0.0056	ppbV	70-130	25		25	25			
1,4-Dichlorobenzene	106-46-7	0.02	0.0053	ppbV	70-130	25		25	25			
1,4-Dioxane	123-91-1	0.1	0.032	ppbV	70-130	25		25	25			
1-Bromo-2-Chloroethane	107-04-0	0.02	0.0102	ppbV	70-130	25		25	25			
1-Bromo-3-Fluorobenzene	1073-06-9	0.02	0.0065	ppbV	70-130	25		25	25			
1-Bromo-4-Ethylbenzene	1585-07-5	0.05	0.004	ppbV	70-130	25		25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.0063	ppbV	70-130	25		25	25			
2-Bromopyridine	109-04-6	0.1	0.0161	ppbV	30-150	25		25	25			
2-Hexanone	591-78-6	0.2	0.015	ppbV	70-130	25		25	25			
3,4-Dichlorobenzotrifluoride	328-84-7	0.02	0.0024	ppbV	70-130	25		25	25			
3-Amino-4-Chlorobenzotrifluoride	121-50-6	0.05	0.0178	ppbV	30-150	25		25	25			
3-Chloropropene	107-05-1	0.2	0.0067	ppbV	70-130	25		25	25			
3-Nitro-4-Chlorobenzotrifluoride	121-17-5	0.5	0.129	ppbV	30-150	25		25	25			
4-Bromofluorobenzene	460-00-4	0.05	0.0094	ppbV	70-130	25		25	25			
4-Chlorobenzotrifluoride	98-56-6	0.02	0.006	ppbV	70-130	25		25	25			
4-Ethyltoluene	622-96-8	0.02	0.0042	ppbV	70-130	25		25	25			
Benzene	71-43-2	0.1	0.005	ppbV	70-130	25		25	25			
Benzyl chloride	100-44-7	0.2	0.0072	ppbV	70-130	25		25	25			
Bromobenzene	108-86-1	0.2	0.0063	ppbV	70-130	25		25	25			
Bromodichloromethane	75-27-4	0.02	0.0067	ppbV	70-130	25		25	25			
Bromoform	75-25-2	0.02	0.0065	ppbV	70-130	25		25	25			
Bromomethane	74-83-9	0.02	0.0085	ppbV	70-130	25		25	25			
Carbon disulfide	75-15-0	0.2	0.0138	ppbV	70-130	25		25	25			
Carbon tetrachloride	56-23-5	0.02	0.01	ppbV	70-130	25		25	25			
Chlorobenzene	108-90-7	0.1	0.0064	ppbV	70-130	25		25	25			
Chloroethane	75-00-3	0.1	0.0135	ppbV	70-130	25		25	25			
Chloroform	67-66-3	0.02	0.0089	ppbV	70-130	25		25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Chloromethane	74-87-3	0.2	0.024	ppbV	70-130	25		25	25			
cis-1,2-Dichloroethene	156-59-2	0.02	0.0096	ppbV	70-130	25		25	25			
trans-1,2-Dichloroethene	156-60-5	0.02	0.0076	ppbV	70-130	25		25	25			
1,2-Dichloroethene (total)	540-59-0	0.02	0.0076	ppbV				25	25			
cis-1,3-Dichloropropene	10061-01-5	0.02	0.007	ppbV	70-130	25		25	25			
1,3-Dichloropropene, Total	542-75-6	0.02	0.007	ppbV				25	25			
Cyclohexane	110-82-7	0.2	0.0064	ppbV	70-130	25		25	25			
Dibromochloromethane	124-48-1	0.02	0.0086	ppbV	70-130	25		25	25			
Dibromomethane	74-95-3	0.2	0.018	ppbV	70-130	25		25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.018	ppbV	70-130	25		25	25			
Ethyl Alcohol	64-17-5	5	0.329	ppbV	40-160	25		25	25			
Ethyl Acetate	141-78-6	0.5	0.0307	ppbV	70-130	25		25	25			
Ethylbenzene	100-41-4	0.02	0.0049	ppbV	70-130	25		25	25			
Fluorobenzene	462-06-6	0.05	0.009	ppbV	70-130	25		25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.05	0.0088	ppbV	70-130	25		25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.05	0.0072	ppbV	70-130	25		25	25			
Methylcyclohexane	108-87-2	0.02	0.0051	ppbV	70-130	25		25	25			
Methylene chloride	75-09-2	0.5	0.0131	ppbV	70-130	25		25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.0083	ppbV	70-130	25		25	25			
m/p-Dibromobenzene	108-36-1/106-37-6	0.05	0.0137	ppbV	70-130	25		25	25			
Naphthalene	91-20-3	0.05	0.035	ppbV	70-130	25		25	25			
p/m-Xylene	179601-23-1	0.04	0.019	ppbV	70-130	25		25	25			
o-Xylene	95-47-6	0.02	0.0067	ppbV	70-130	25		25	25			
Heptane	142-82-5	0.2	0.0041	ppbV	70-130	25		25	25			
n-Hexane	110-54-3	0.2	0.0048	ppbV	70-130	25		25	25			
Propylene	115-07-1	0.5	0.0465	ppbV	70-130	25		25	25			
Styrene	100-42-5	0.02	0.0049	ppbV	70-130	25		25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.012	ppbV	70-130	25		25	25			
Tetrachloroethene	127-18-4	0.02	0.0078	ppbV	70-130	25		25	25			
Tetrahydrofuran	109-99-9	0.5	0.0066	ppbV	70-130	25		25	25			
Toluene	108-88-3	0.05	0.014	ppbV	70-130	25		25	25			
trans-1,3-Dichloropropene	10061-02-6	0.02	0.007	ppbV	70-130	25		25	25			
Trichloroethene	79-01-6	0.02	0.0062	ppbV	70-130	25		25	25			
1,2,4-Trichlorobenzene	120-82-1	0.05	0.03	ppbV	70-130	25		25	25			
Trichlorofluoromethane	75-69-4	0.05	0.0095	ppbV	70-130	25		25	25			
Vinyl acetate	108-05-4	1	0.0111	ppbV	70-130	25		25	25			
Vinyl bromide	593-60-2	0.2	0.0099	ppbV	70-130	25		25	25			
Hexachlorobutadiene	87-68-3	0.05	0.017	ppbV	70-130	25		25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.179	ppbV	40-160	25		25	25			
Vinyl chloride	75-01-4	0.02	0.0072	ppbV	70-130	25		25	25			
Acrylonitrile	107-13-1	0.5	0.0245	ppbV	70-130	25		25	25			
n-Butylbenzene	104-51-8	0.2	0.0048	ppbV	70-130	25		25	25			

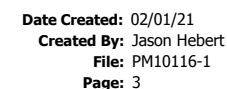
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Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

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Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soll/Solids only)
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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-02
 Client ID : VE-2-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1528486_EV2
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 11:46
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 21:45
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.059	0.020	--	0.371	0.126	--	
79-01-6	Trichloroethene	0.032	0.020	--	0.172	0.107	--	
127-18-4	Tetrachloroethene	0.342	0.020	--	2.32	0.136	--	

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Roux Env. Eng. & Geology, DPC Project Name : FORMER CLEAN ZONE DRY CLEANERS Lab ID : L2150027-03 Client ID : DUP-091621 Sample Location : YONKERS, NY Sample Matrix : AIR Analytical Method : 48,TO-15-SIM Lab File ID : R1528487_EV2 Sample Amount : 250 ml	Lab Number : L2150027 Project Number : 2546.0007Y002 Date Collected : 09/16/21 11:47 Date Received : 09/16/21 Date Analyzed : 09/21/21 22:24 Dilution Factor : 1 Analyst : RY Instrument ID : AIRLAB15 GC Column : RTX-1
--	---

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.061	0.020	--	0.384	0.126	--	
79-01-6	Trichloroethene	0.024	0.020	--	0.129	0.107	--	
127-18-4	Tetrachloroethene	0.305	0.020	--	2.07	0.136	--	

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2150027-05
 Client ID : VE-1-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1528488_EV2
 Sample Amount : 250 ml

Lab Number : L2150027
 Project Number : 2546.0007Y002
 Date Collected : 09/16/21 13:02
 Date Received : 09/16/21
 Date Analyzed : 09/21/21 23:03
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	0.033	0.020	--	0.131	0.079	--	
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.069	0.020	--	0.434	0.126	--	
79-01-6	Trichloroethene	0.041	0.020	--	0.220	0.107	--	
127-18-4	Tetrachloroethene	3.88	0.020	--	26.3	0.136	--	

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Roux Env. Eng. & Geology, DPC Project Name : FORMER CLEAN ZONE DRY CLEANERS Lab ID : WG1549027-4 Client ID : WG1549027-4BLANK Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15-SIM Lab File ID : R1528478_EV2 Sample Amount : 250 ml	Lab Number : L2150027 Project Number : 2546.0007Y002 Date Collected : NA Date Received : NA Date Analyzed : 09/21/21 15:31 Dilution Factor : 1 Analyst : RY Instrument ID : AIRLAB15 GC Column : RTX-1
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CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	ND	0.020	--	ND	0.126	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528486_Ev2.D
 Acq On : 21 Sep 2021 9:45 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-02,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 12:44:10 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\r1528476_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.62	49	228070	10.000	ppbV	-0.05
Standard Area = 214864			Recovery = 106.15%			
33) 1,4-difluorobenzene	11.91	114	545715	10.000	ppbV	-0.05
Standard Area = 548072			Recovery = 99.57%			
51) chlorobenzene-D5	16.64	54	101023	10.000	ppbV	-0.03
Standard Area = 95313			Recovery = 105.99%			

System Monitoring Compounds

Target Compounds					Qvalue
6) vinyl chloride	0.00		0	N.D.	
17) 1,1-dichloroethene	0.00		0	N.D.	d
28) cis-1,2-dichloroethene	0.00		0	N.D.	
36) 1,1,1-trichloroethane	0.00		0	N.D.	d
38) carbon tetrachloride	11.65	117	826	0.059	ppbV 96
44) trichloroethene	12.72	130	553	0.032	ppbV 93
57) tetrachloroethene	16.04	166	5529	0.342	ppbV 96

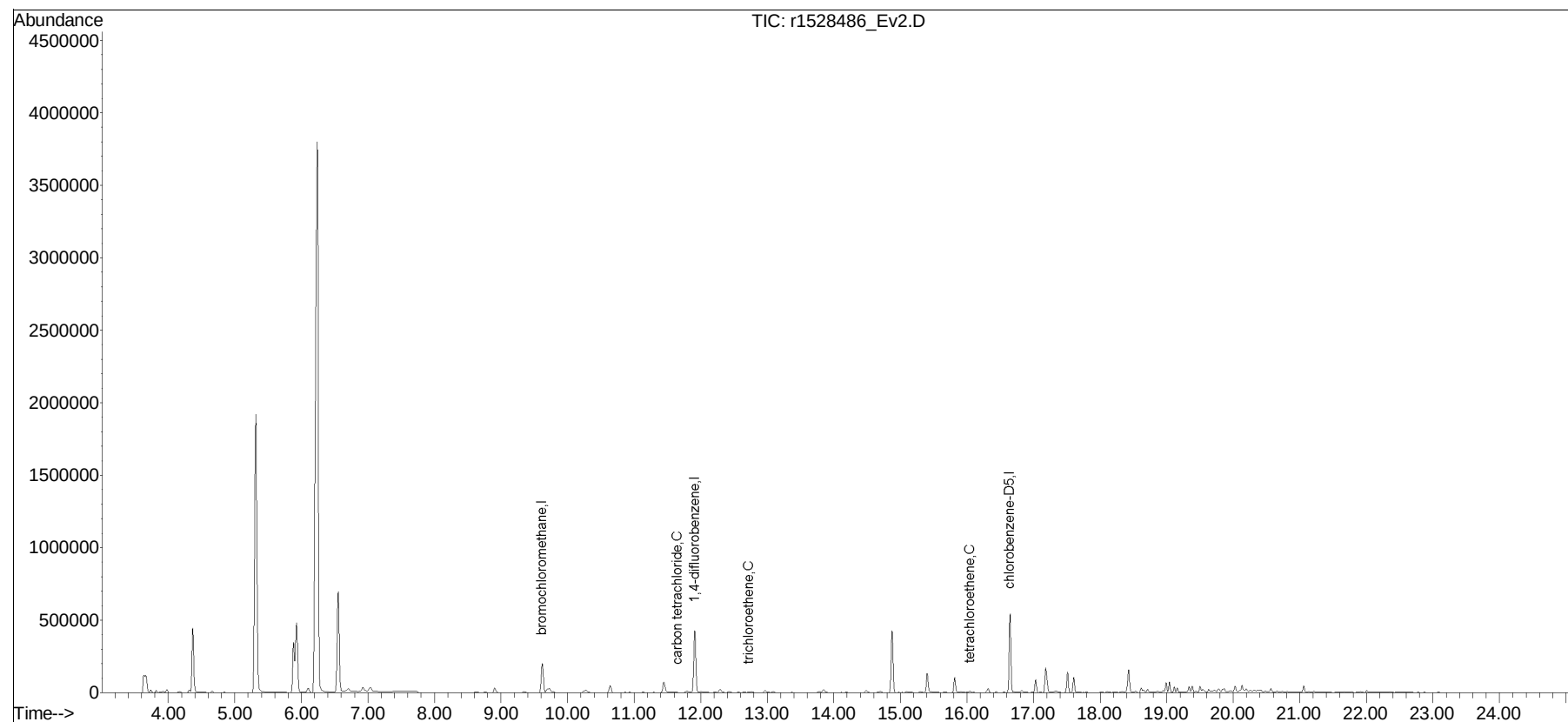
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

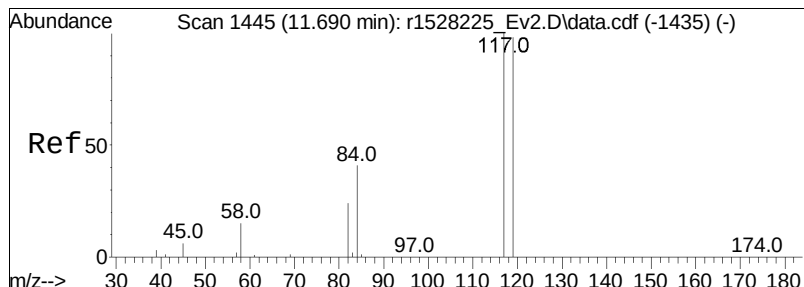
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
Data File : r1528486_Ev2.D
Acq On : 21 Sep 2021 9:45 PM
Operator : AIRLAB15:RY
Sample : L2150027-02,3,250,250
Misc : WG1549027,ICAL18280
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 12:44:10 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 15:40:18 2021
Response via : Initial Calibration

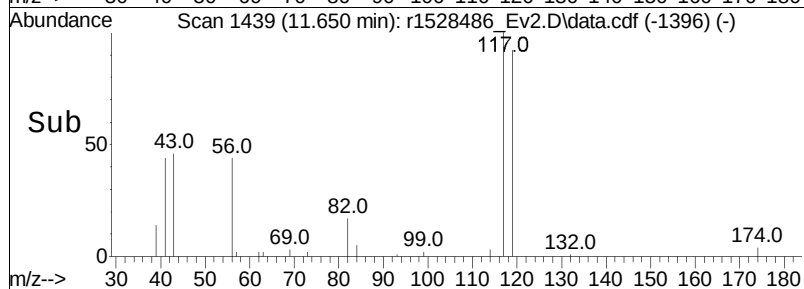
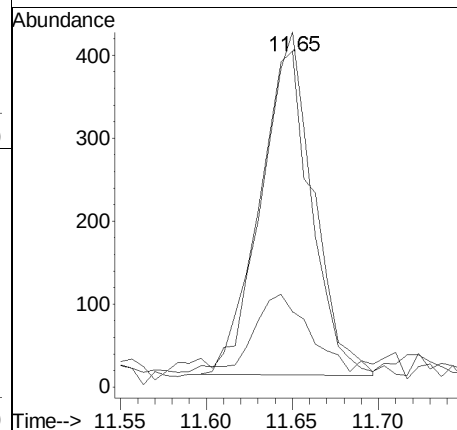
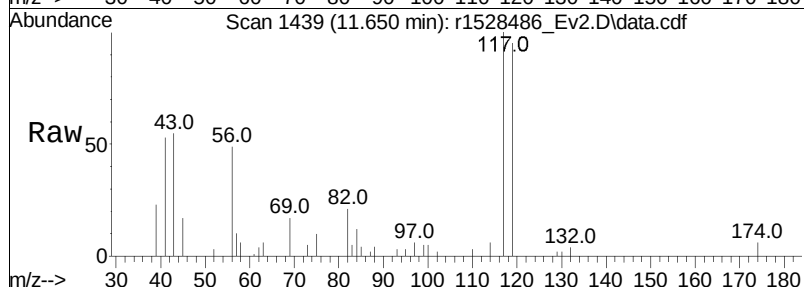
Sub List : 7-NY-SIM - .\Data\Airlab15\2021\09\0921SIM\r1528476_Ev2.D

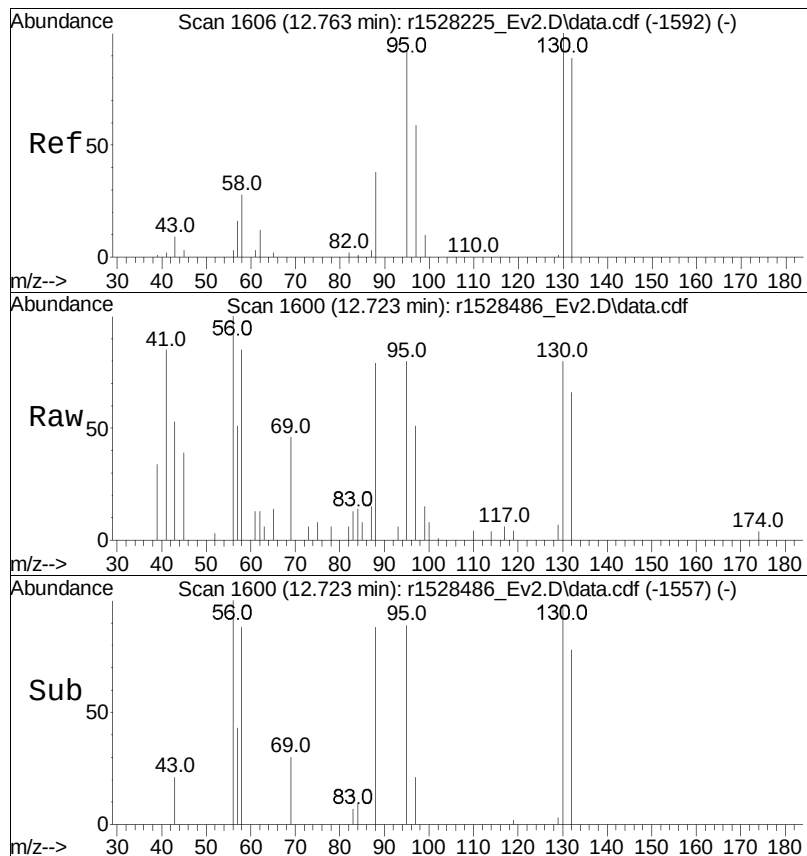




#38
 carbon tetrachloride
 Concen: 0.06 ppbV
 RT: 11.65 min Scan# 1439
 Delta R.T. -0.040 min
 Lab File: r1528486_Ev2.D
 Acq: 21 Sep 2021 9:45 PM

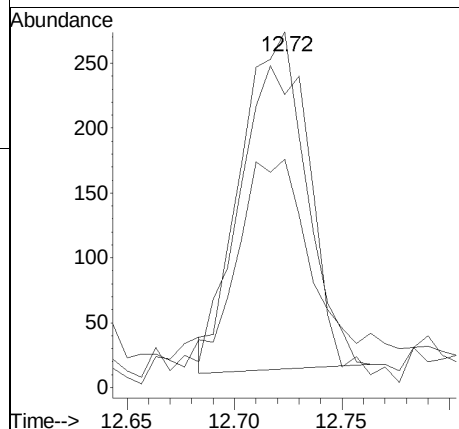
Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	94.6	78.4	117.6	
82	21.3	19.2	28.8	

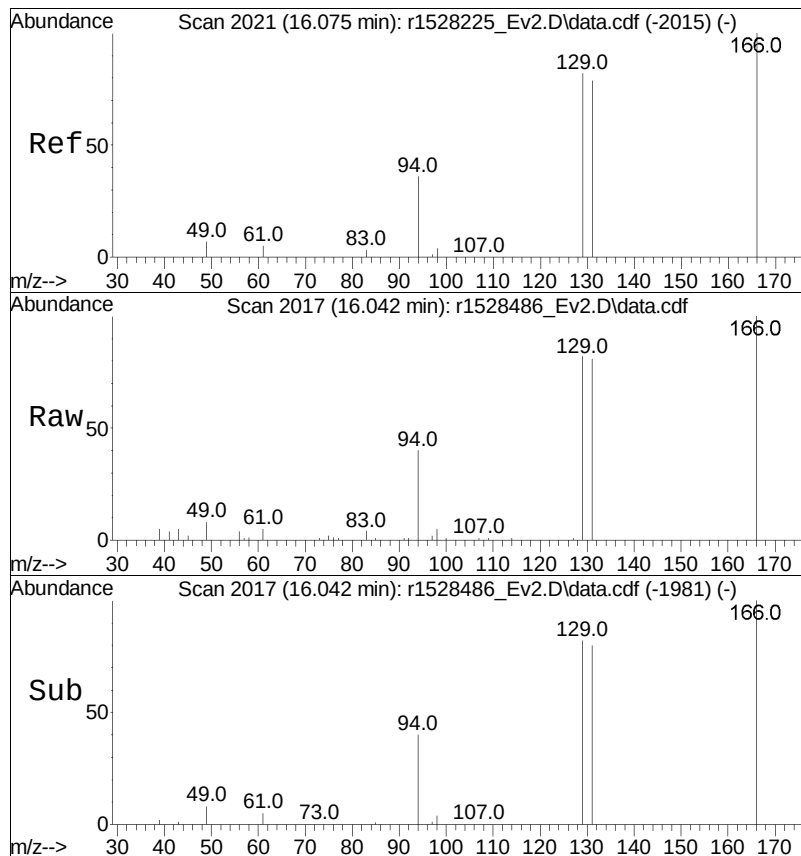




#44
trichloroethene
Concen: 0.03 ppbV
RT: 12.72 min Scan# 1600
Delta R.T. -0.040 min
Lab File: r1528486_Ev2.D
Acq: 21 Sep 2021 9:45 PM

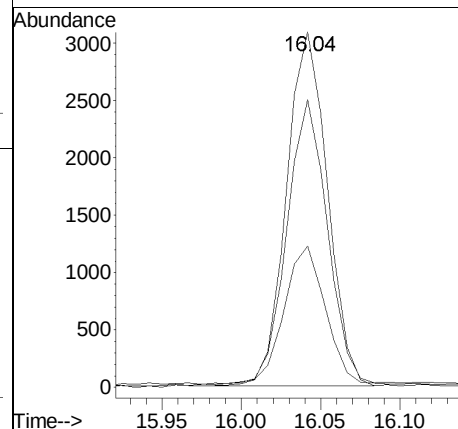
Tgt Ion:	130	Resp:	553
Ion Ratio	Lower	Upper	
130	100		
132	82.5	71.6	107.4
97	64.2	46.9	70.3





#57
 tetrachloroethene
 Concen: 0.34 ppbV
 RT: 16.04 min Scan# 2017
 Delta R.T. -0.033 min
 Lab File: r1528486_Ev2.D
 Acq: 21 Sep 2021 9:45 PM

Tgt Ion:	166	Resp:	5529
Ion Ratio	Lower	Upper	
166	100		
131	80.9	63.0	94.4
94	39.8	29.1	43.7



Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\Airlab15\QMethod	: TSIM15_210902.M
Data File	: r1528486_Ev2.D	Operator : AIRLAB15:RY
Date Inj'd	: 9/21/2020 0:9: 5	Instrument :
Sample	: L2150027-02,3,250,250	Quant Date : 9/22/2021 7:39 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528487_Ev2.D
 Acq On : 21 Sep 2021 10:24 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-03,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 12:45:14 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\r1528476_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.62	49	234002	10.000	ppbV	-0.05
Standard Area = 214864			Recovery = 108.91%			
33) 1,4-difluorobenzene	11.91	114	558948	10.000	ppbV	-0.05
Standard Area = 548072			Recovery = 101.98%			
51) chlorobenzene-D5	16.64	54	103835	10.000	ppbV	-0.03
Standard Area = 95313			Recovery = 108.94%			

System Monitoring Compounds

Target Compounds						Qvalue
6) vinyl chloride	0.00		0	N.D.		
17) 1,1-dichloroethene	0.00		0	N.D.	d	
28) cis-1,2-dichloroethene	9.43		0	N.D.		
36) 1,1,1-trichloroethane	0.00		0	N.D.		
38) carbon tetrachloride	11.65	117	873	0.061	ppbV	89
44) trichloroethene	12.72	130	426	0.024	ppbV	93
57) tetrachloroethene	16.04	166	5082	0.305	ppbV	96

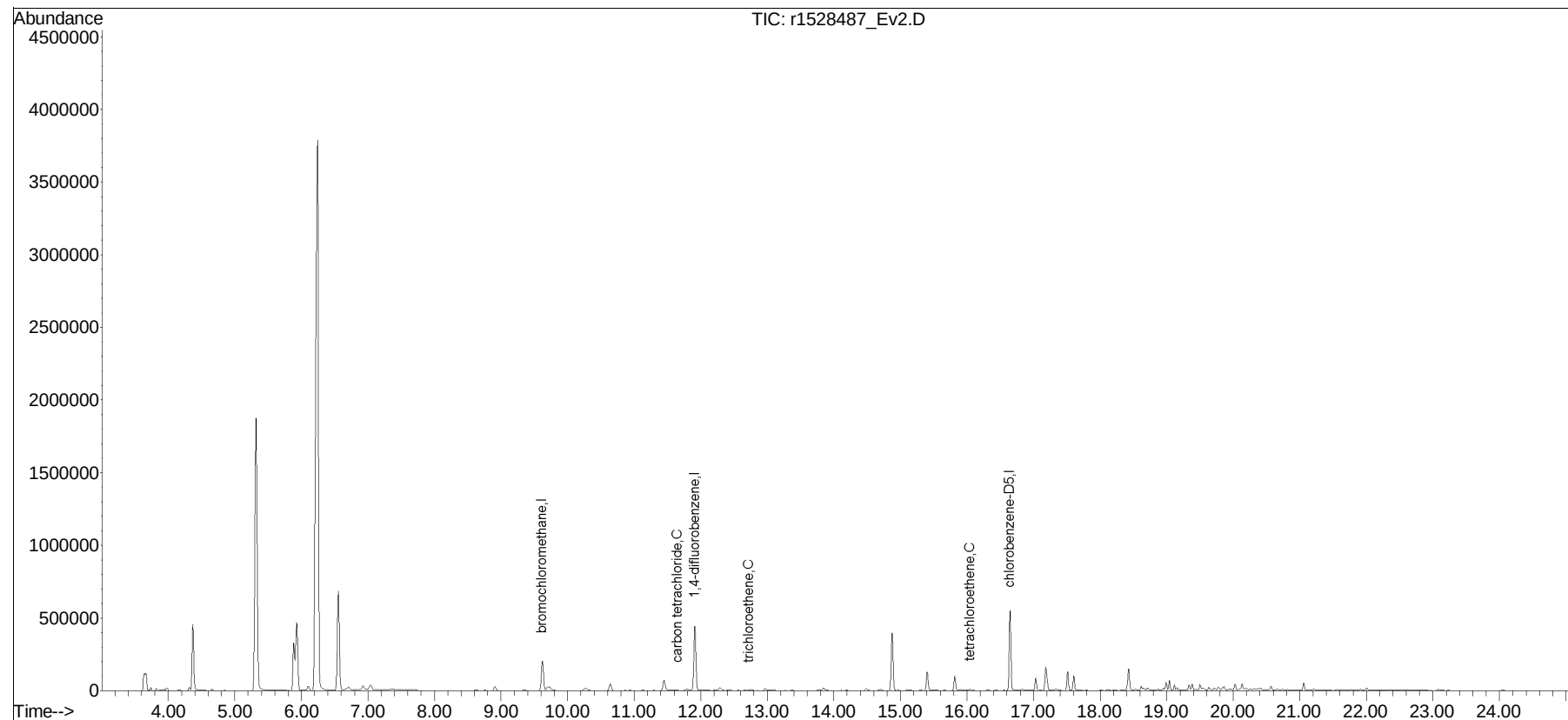
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

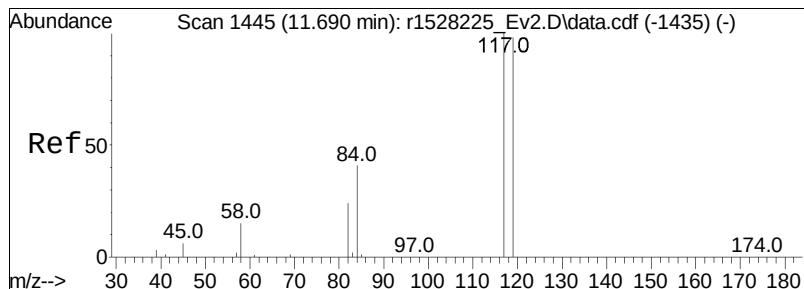
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
Data File : r1528487_Ev2.D
Acq On : 21 Sep 2021 10:24 PM
Operator : AIRLAB15:RY
Sample : L2150027-03,3,250,250
Misc : WG1549027,ICAL18280
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 12:45:14 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 15:40:18 2021
Response via : Initial Calibration

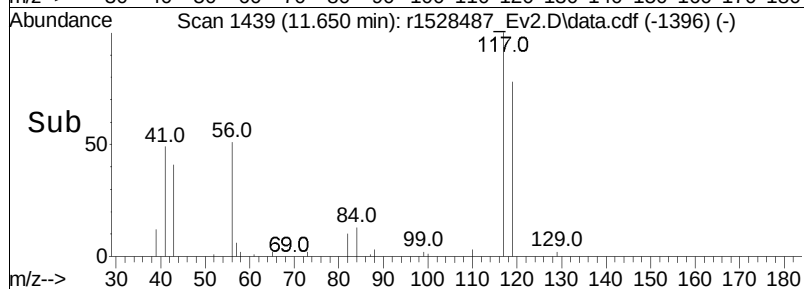
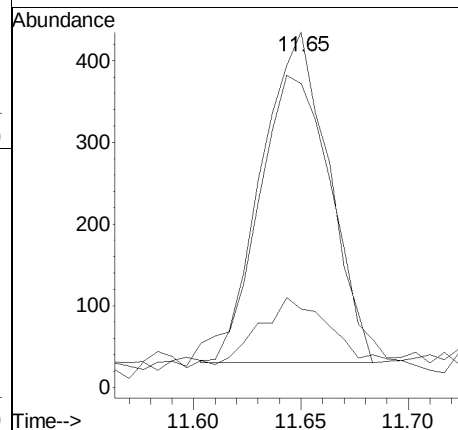
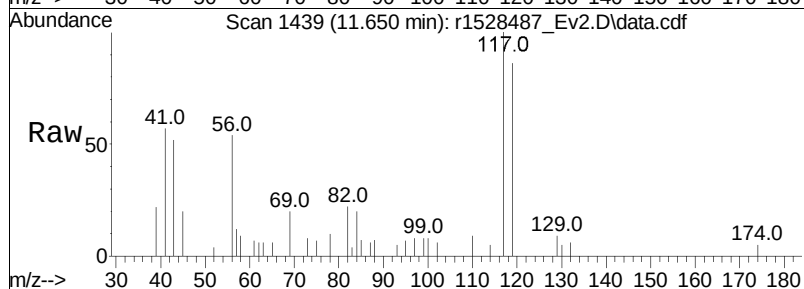
Sub List : 7-NY-SIM - .\Data\Airlab15\2021\09\0921SIM\r1528476_Ev2.D

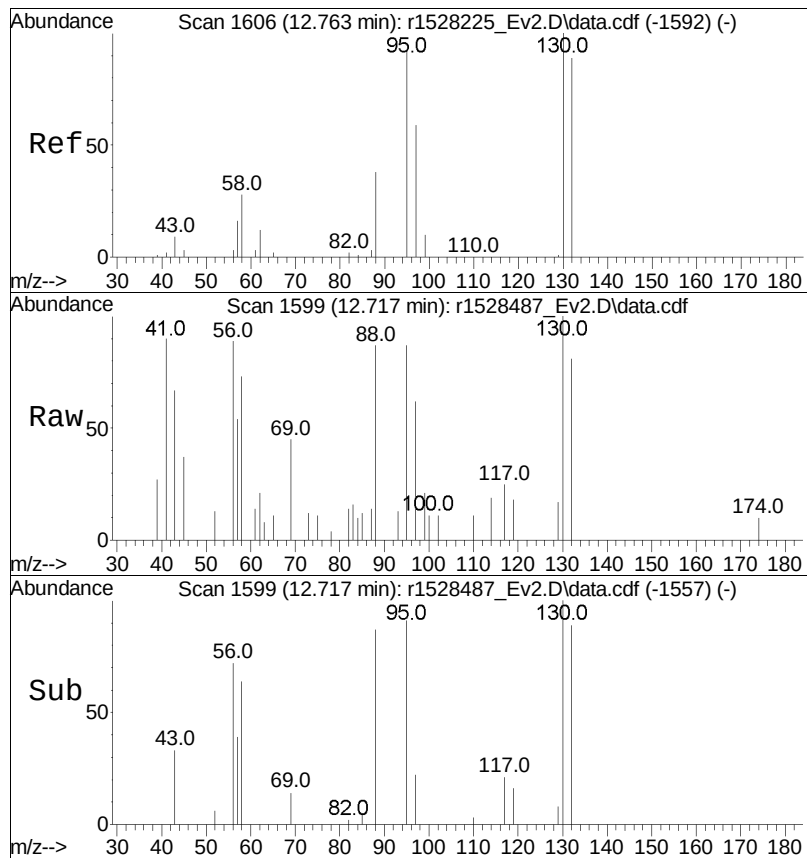




#38
 carbon tetrachloride
 Concen: 0.06 ppbV
 RT: 11.65 min Scan# 1439
 Delta R.T. -0.040 min
 Lab File: r1528487_Ev2.D
 Acq: 21 Sep 2021 10:24 PM

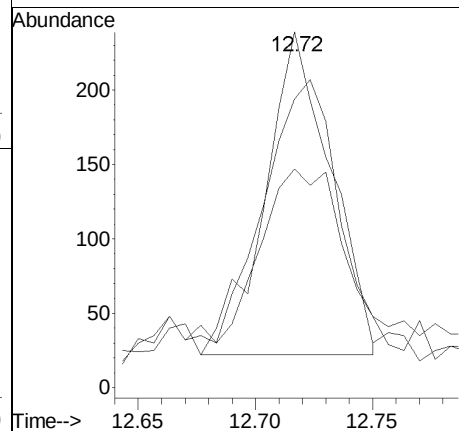
Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	85.5	78.4	117.6	
82	22.1	19.2	28.8	

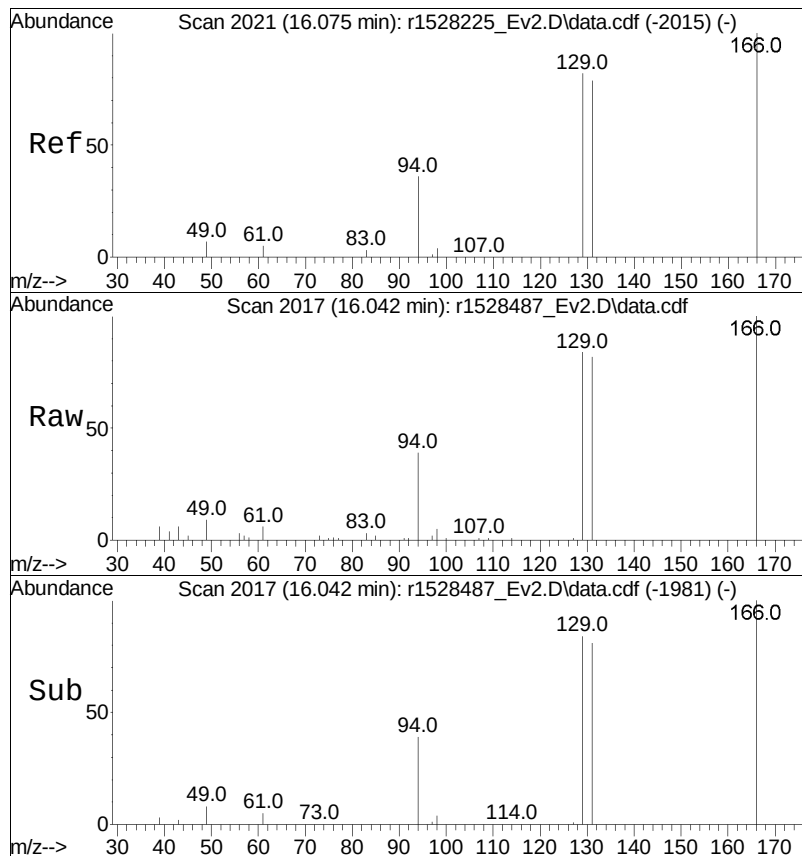




#44
trichloroethene
Concen: 0.02 ppbV
RT: 12.72 min Scan# 1599
Delta R.T. -0.047 min
Lab File: r1528487_Ev2.D
Acq: 21 Sep 2021 10:24 PM

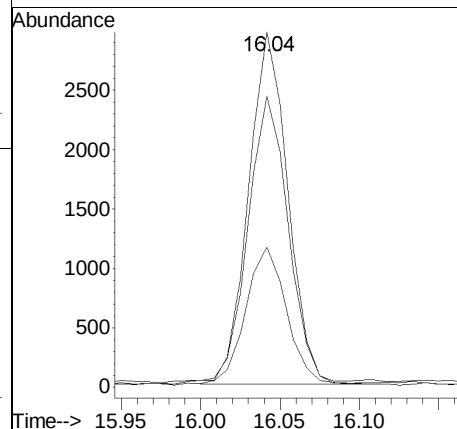
Tgt Ion	Ratio	Lower	Upper
130	100		
132	81.2	71.6	107.4
97	61.5	46.9	70.3





#57
 tetrachloroethene
 Concen: 0.31 ppbV
 RT: 16.04 min Scan# 2017
 Delta R.T. -0.033 min
 Lab File: r1528487_Ev2.D
 Acq: 21 Sep 2021 10:24 PM

Tgt Ion:	166	Resp:	5082
Ion Ratio	Lower	Upper	
166	100		
131	82.0	63.0	94.4
94	39.5	29.1	43.7



Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\Airlab15\QMethod	: TSIM15_210902.M
Data File	: r1528487_Ev2.D	Operator : AIRLAB15:RY
Date Inj'd	: 9/21/2020 0:0: 4	Instrument :
Sample	: L2150027-03,3,250,250	Quant Date : 9/22/2021 7:39 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528488_Ev2.D
 Acq On : 21 Sep 2021 11:03 PM
 Operator : AIRLAB15:RY
 Sample : L2150027-05,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 12:45:56 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\r1528476_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.63	49	241809	10.000	ppbV	-0.04
Standard Area = 214864			Recovery = 112.54%			
33) 1,4-difluorobenzene	11.92	114	589250	10.000	ppbV	-0.04
Standard Area = 548072			Recovery = 107.51%			
51) chlorobenzene-D5	16.65	54	106132	10.000	ppbV	-0.03
Standard Area = 95313			Recovery = 111.35%			

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.00		0	N.D.		
17) 1,1-dichloroethene	6.92		0	N.D.		
28) cis-1,2-dichloroethene	9.43	61	627	0.033	ppbV	96
36) 1,1,1-trichloroethane	0.00		0	N.D.	d	
38) carbon tetrachloride	11.65	117	1044	0.069	ppbV	94
44) trichloroethene	12.72	130	759	0.041	ppbV #	87
57) tetrachloroethene	16.04	166	65978	3.879	ppbV	98

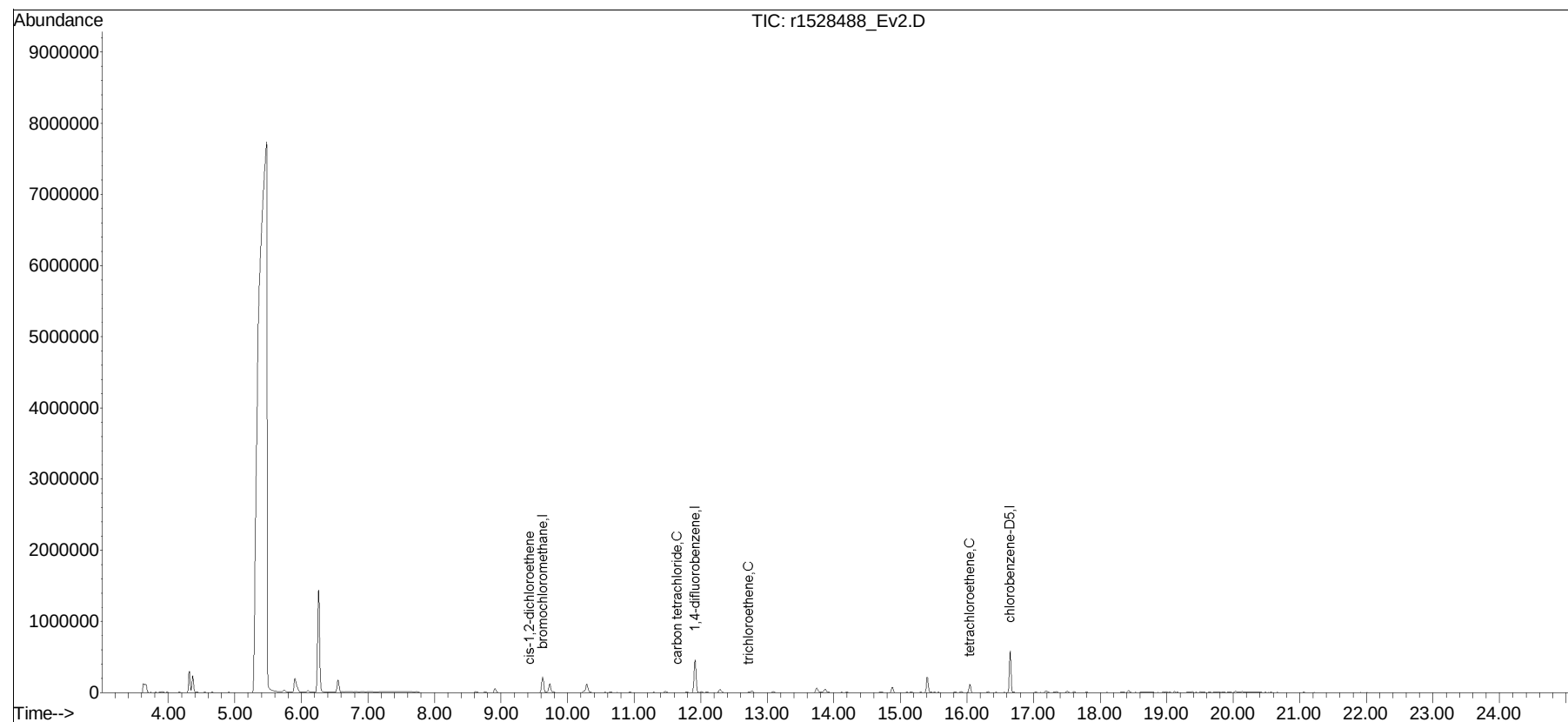
(#) = qualifier out of range (m) = manual integration (+) = signals summed

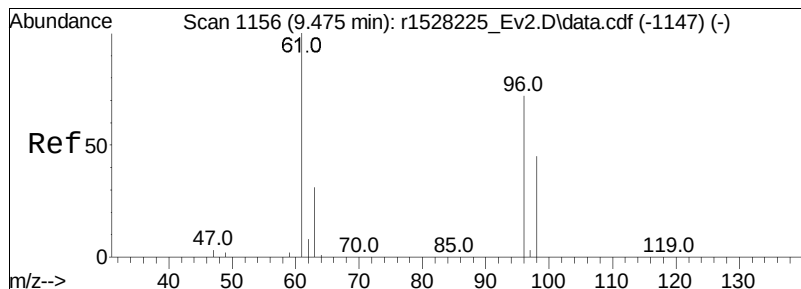
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
Data File : r1528488_Ev2.D
Acq On : 21 Sep 2021 11:03 PM
Operator : AIRLAB15:RY
Sample : L2150027-05,3,250,250
Misc : WG1549027,ICAL18280
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 12:45:56 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 15:40:18 2021
Response via : Initial Calibration

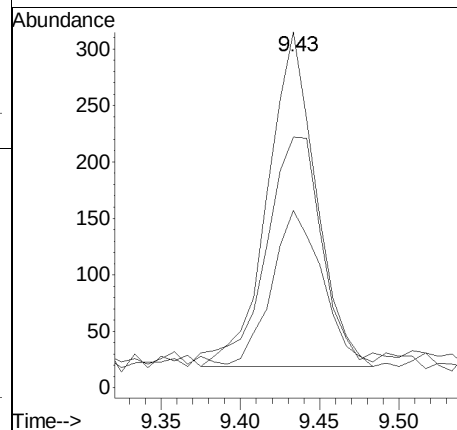
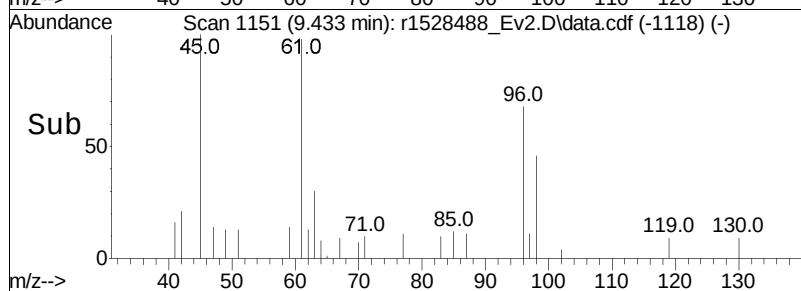
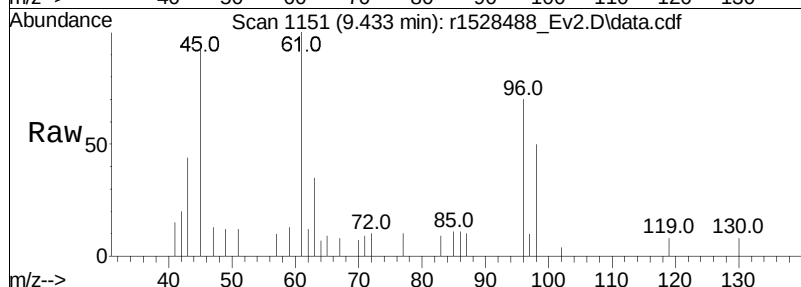
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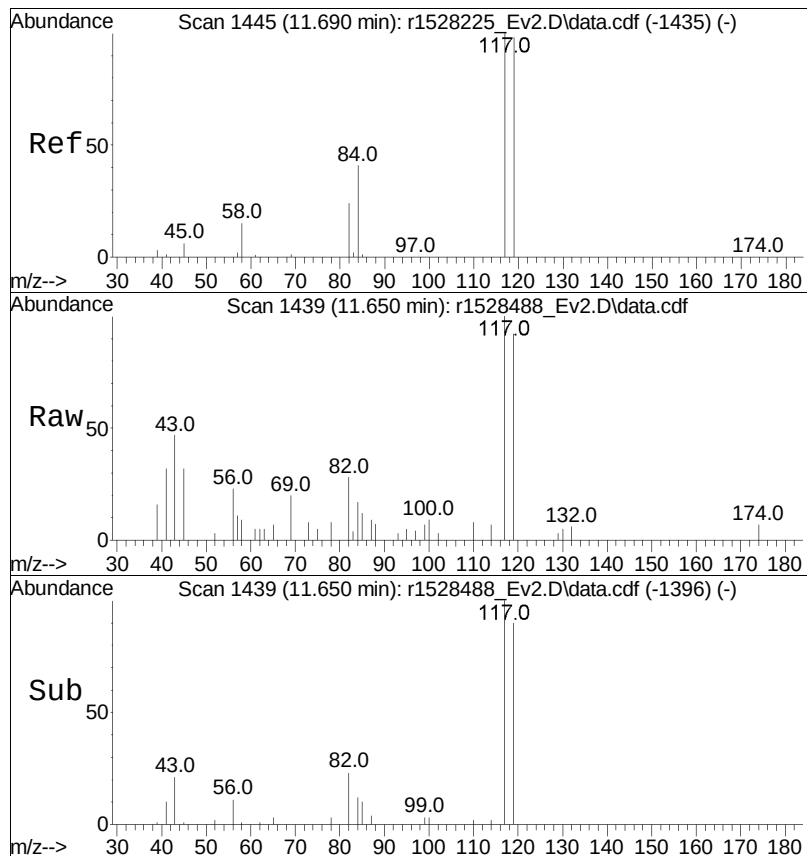




#28
 cis-1,2-dichloroethene
 Concen: 0.03 ppbV
 RT: 9.43 min Scan# 1151
 Delta R.T. -0.042 min
 Lab File: r1528488_Ev2.D
 Acq: 21 Sep 2021 11:03 PM

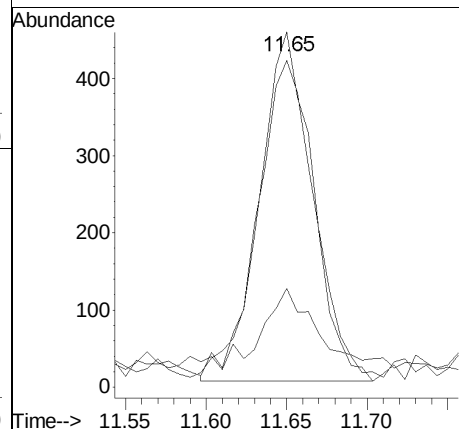
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 Ion Ratio Lower Upper
 61 100
 96 70.5 57.9 86.9
 98 49.8 36.1 54.1

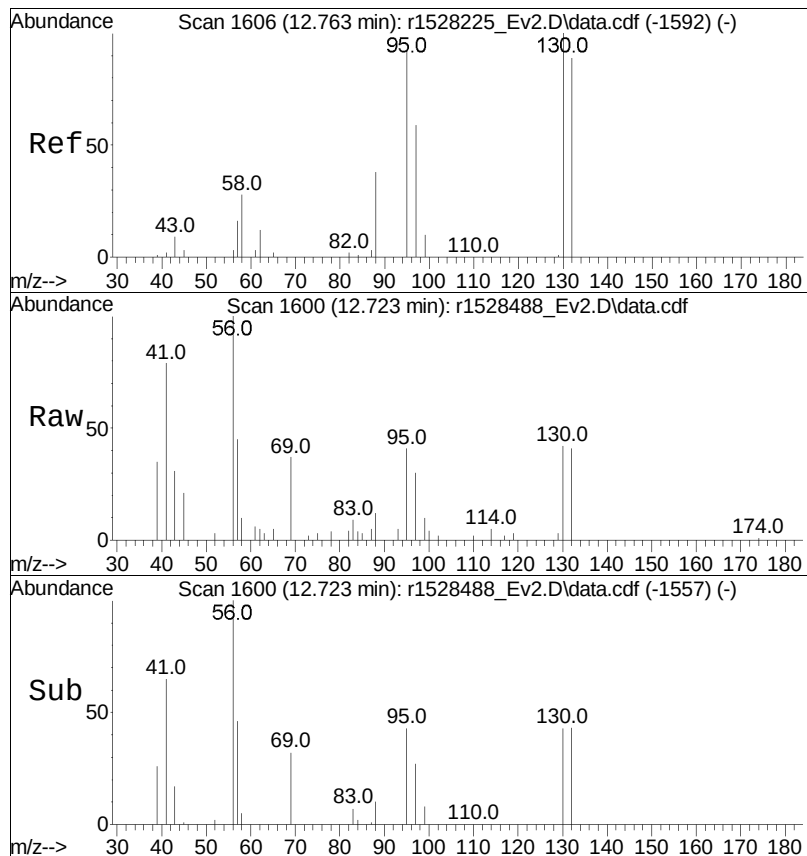




#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.65 min Scan# 1439
Delta R.T. -0.040 min
Lab File: r1528488_Ev2.D
Acq: 21 Sep 2021 11:03 PM

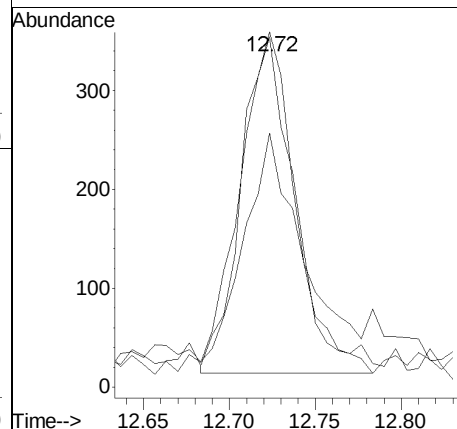
Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.0	78.4	117.6
82	27.8	19.2	28.8

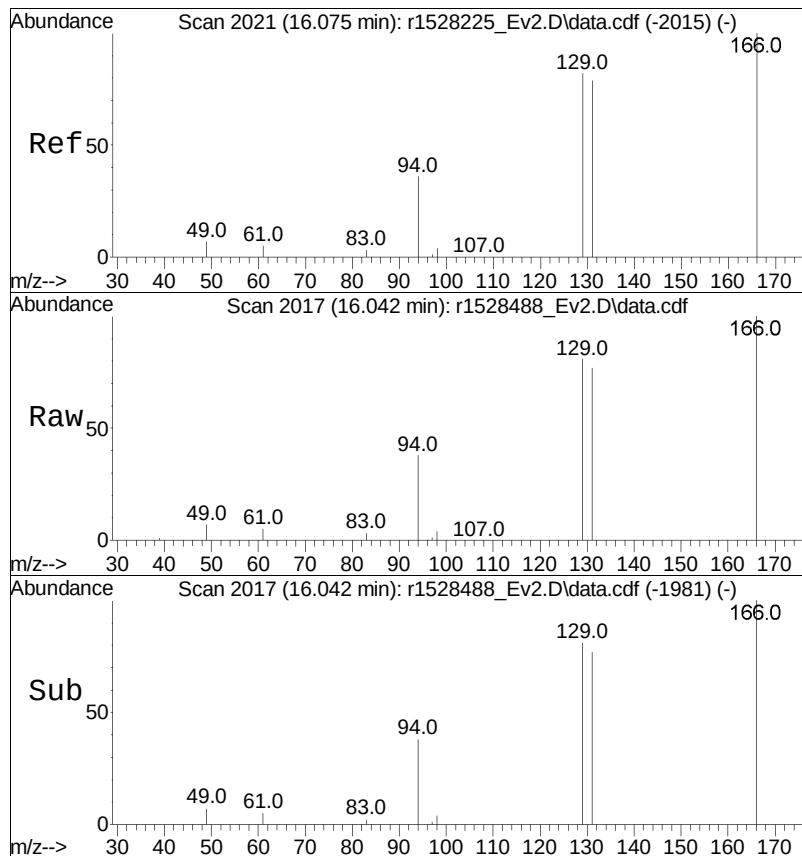




#44
trichloroethene
Concen: 0.04 ppbV
RT: 12.72 min Scan# 1600
Delta R.T. -0.040 min
Lab File: r1528488_Ev2.D
Acq: 21 Sep 2021 11:03 PM

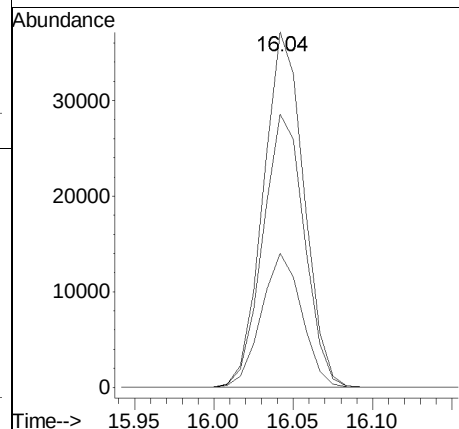
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	759		
132	98.6		71.6	107.4
97	71.6		46.9	70.3#





#57
 tetrachloroethene
 Concen: 3.88 ppbV
 RT: 16.04 min Scan# 2017
 Delta R.T. -0.033 min
 Lab File: r1528488_Ev2.D
 Acq: 21 Sep 2021 11:03 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	76.9	63.0	94.4
94	37.7	29.1	43.7



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528488_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:1: 3 Instrument :
Sample : L2150027-05,3,250,250 Quant Date : 9/22/2021 7:39 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2150027
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : AIRLAB15 **Ical Ref** : ICAL18280
Calibration dates : 09/02/21 19:35 09/03/21 01:23

Calibration Files

0.02=r1528219_Ev2.D 0.05=r1528220_Ev2.D 0.1 =r1528221_Ev2.D 0.2 =r1528222_Ev2.D 0.5 =r1528223_Ev2.D
 1.0 =r1528224_Ev2.D 5.0 =r1528225_Ev2.D 10.0=r1528226_Ev2.D 20.0=r1528227_Ev2.D 50.0=r1528228_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1) I bromochloromethane	-----ISTD-----											
2) propylene				0.569	0.547	0.560	0.456	0.470	0.443	0.446	0.4988	11.44
3) dichlorodifluoromethane				0.850	0.889	0.887	0.747	0.749	0.685	0.641	0.7782	12.72
4) C chloromethane				0.445	0.465	0.447	0.392	0.372	0.369	0.364	0.4077	10.55
5) Freon-114		1.083	1.080	1.124	1.171	1.142	0.984	0.932	0.883	0.782	1.0202	12.99
6) C vinyl chloride	0.622	0.604	0.571	0.606	0.612	0.618	0.531	0.528	0.520	0.519	0.5731	7.71
7) C 1,3-butadiene	0.469	0.417	0.441	0.458	0.481	0.476	0.416	0.404	0.393	0.374	0.4328	8.66
8) C bromomethane	0.550	0.514	0.467	0.491	0.496	0.497	0.422	0.418	0.403	0.394	0.4652	11.35
9) C chloroethane			0.286	0.292	0.298	0.296	0.252	0.252	0.247	0.250	0.2716	8.57
10) ethanol					0.499	0.428	0.308	0.344	0.260	0.241	0.3465	28.89
11) C vinyl bromide				0.414	0.419	0.424	0.371	0.373	0.360	0.360	0.3886	7.45
12) C acrolein		0.301	0.242	0.227	0.247	0.242	0.208	0.207	0.198	0.194	0.2297	14.51
13) acetone				0.741	0.726	0.734	0.602	0.590	0.553	0.515	0.6374	14.83
14) trichlorofluoromethane		0.709	0.745	0.712	0.745	0.755	0.636	0.628	0.594	0.585	0.6788	10.00
15) isopropyl alcohol				0.866	0.846	0.856	0.719	0.703	0.675	0.637	0.7576	12.65
16) C acrylonitrile				0.399	0.410	0.406	0.352	0.349	0.336	0.327	0.3685	9.62
17) C 1,1-dichloroethene	0.931	0.782	0.702	0.772	0.780	0.781	0.670	0.663	0.638	0.622	0.7342	12.76
18) tertiary butyl alcohol					0.990	0.992	0.870	0.855	0.827	0.806	0.8899	9.12
19) C methylene chloride					0.554	0.541	0.454	0.630	0.426	0.407	0.5020	17.32
20) C 3-chloropropene					0.872	0.697	0.614	0.782	0.593	0.589	0.6912	16.72
21) C carbon disulfide				1.240	1.658	1.305	1.135	1.494	1.092	1.060	1.2835	17.28
22) Freon 113	0.987	0.869	0.808	0.820	0.922	0.881	0.712	0.800	0.694	0.676	0.8167	12.45
23) trans-1,2-dichloroethene	0.966	0.910	0.871	0.910	0.953	0.955	0.831	0.851	0.810	0.804	0.8861	6.91
24) C 1,1-dichloroethane	1.075	1.034	0.998	1.062	1.102	1.095	0.933	0.950	0.920	0.920	1.0090	7.30
25) C MTBE	1.396	1.282	1.222	1.296	1.355	1.370	1.190	1.195	1.136	1.115	1.2556	7.89
26) C vinyl acetate					1.242	1.295	1.144	1.185	1.141	1.142	1.1914	5.41
27) C 2-butanone				1.284	1.319	1.329	1.168	1.179	1.105	1.092	1.2107	8.19
28) cis-1,2-dichloroethene	0.894	0.831	0.764	0.825	0.850	0.860	0.737	0.748	0.722	0.721	0.7951	8.04
29) Ethyl Acetate					0.241	0.250	0.217	0.222	0.215	0.216	0.2269	6.69
30) C chloroform	1.091	0.974	0.908	0.968	1.004	1.009	0.856	0.852	0.796	0.744	0.9203	11.71
31) Tetrahydrofuran				0.794	0.830	0.843	0.749	0.763	0.722	0.719	0.7744	6.43
32) C 1,2-dichloroethane	0.853	0.618	0.603	0.587	0.631	0.642	0.543	0.542	0.511	0.501	0.6032	16.70
33) I 1,4-difluorobenzene	-----ISTD-----											
34) C hexane				0.524	0.552	0.541	0.470	0.471	0.447	0.422	0.4897	10.11
35) s 1,2-dichloroethane-D4				0.263	0.262	0.258	0.261	0.262	0.257	0.252	0.2593	1.60
36) C 1,1,1-trichloroethane	0.355	0.304	0.289	0.316	0.322	0.323	0.278	0.283	0.269	0.262	0.3001	9.69



Initial Calibration Summary

Form 6

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2150027
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : AIRLAB15 **Ical Ref** : ICAL18280
Calibration dates : 09/02/21 19:35 09/03/21 01:23

Calibration Files

0.02=r1528219_Ev2.D 0.05=r1528220_Ev2.D 0.1 =r1528221_Ev2.D 0.2 =r1528222_Ev2.D 0.5 =r1528223_Ev2.D
 1.0 =r1528224_Ev2.D 5.0 =r1528225_Ev2.D 10.0=r1528226_Ev2.D 20.0=r1528227_Ev2.D 50.0=r1528228_Ev2.D

	Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
37) C	benzene			0.825	1.041	0.941	0.898	0.740	0.733	0.687	0.659	0.8155	16.52
38) C	carbon tetrachloride	0.259	0.275	0.249	0.269	0.280	0.274	0.243	0.243	0.234	0.227	0.2552	7.32
39)	cyclohexane			0.576	0.596	0.586	0.506	0.512	0.489	0.474	0.5342		9.41
40)	Dibromomethane		0.341	0.264	0.275	0.266	0.267	0.229	0.231	0.219	0.216	0.2563	15.26
41) C	1,2-dichloropropane	0.368	0.359	0.303	0.330	0.331	0.332	0.285	0.289	0.278	0.278	0.3151	10.53
42)	bromodichloromethane	0.416	0.395	0.417	0.427	0.446	0.451	0.403	0.404	0.379	0.361	0.4101	6.77
43) C	1,4-dioxane		0.205	0.211	0.214	0.214	0.195	0.194	0.186	0.180	0.1997		6.57
44) C	trichloroethene	0.363	0.319	0.307	0.326	0.337	0.342	0.297	0.301	0.286	0.280	0.3158	8.39
45) C	2,2,4-trimethylpentane		1.683	1.618	1.740	1.841	1.847	1.554	1.561	1.463	1.397	1.6337	9.66
46)	heptane			0.598	0.618	0.618	0.541	0.537	0.498	0.474	0.5550		10.44
47) C	cis-1,3-dichloropropene	0.310	0.285	0.285	0.315	0.326	0.337	0.305	0.312	0.296	0.292	0.3064	5.63
48) C	4-methyl-2-pentanone				0.680	0.686	0.611	0.612	0.572	0.548	0.6181		9.00
49)	trans-1,3-dichloropropene	0.384	0.342	0.330	0.360	0.371	0.381	0.337	0.341	0.327	0.317	0.3490	6.74
50) C	1,1,2-trichloroethane	0.322	0.305	0.272	0.291	0.306	0.306	0.265	0.267	0.258	0.258	0.2850	8.28
51) I	chlorobenzene-D5	-----ISTD-----											
52) C	toluene		5.362	4.733	5.976	5.460	5.077	4.252	4.317	4.198	4.052	4.8254	14.03
53) s	toluene-D8			4.830	4.774	4.675	4.784	4.966	5.109	5.179	4.9024		3.82
54)	2-hexanone			2.775	3.001	3.083	2.828	2.845	2.659	2.527	2.8169		6.75
55)	dibromochloromethane	1.952	1.794	1.624	1.753	1.861	1.761	1.870	1.812	1.779	1.8070		4.91
56) C	1,2-dibromoethane	2.091	1.908	1.829	1.935	2.019	2.037	1.792	1.822	1.781	1.746	1.8960	6.37
57) C	tetrachloroethene	1.957	1.651	1.548	1.628	1.731	1.692	1.486	1.501	1.438	1.393	1.6025	10.42
58)	1,1,1,2-tetrachloroethane	1.502	1.377	1.287	1.369	1.448	1.435	1.299	1.346	1.305	1.272	1.3640	5.67
59) C	chlorobenzene	3.556	3.416	3.154	3.434	3.616	3.623	3.160	3.208	3.040	2.878	3.3084	7.78
60) C	ethylbenzene	6.338	5.763	5.517	5.864	6.153	6.151	5.408	5.506	5.312	5.168	5.7180	6.98
61) C	m+p-xylene	4.982	4.595	4.479	4.719	5.014	4.995	4.361	4.416	4.235	3.994	4.5789	7.60
62) C	bromoform	1.581	1.312	1.212	1.223	1.349	1.383	1.413	1.480	1.494	1.479	1.3928	8.67
63) C	styrene	3.533	3.239	3.193	3.432	3.638	3.693	3.303	3.336	3.234	3.151	3.3752	5.65
64) C	1,1,2,2-tetrachloroethane	3.918	3.613	3.556	3.668	3.920	3.935	3.434	3.460	3.260	2.825	3.5588	9.68
65) C	o-xylene	5.183	4.672	4.545	4.727	5.081	5.068	4.445	4.450	4.244	3.833	4.6247	9.04
66)	1,2,3-Trichloropropane	2.754	2.444	2.303	2.460	2.646	2.661	2.315	2.341	2.200	2.116	2.4239	8.64
67) s	bromofluorobenzene			3.163	3.255	3.313	3.385	3.550	3.704	3.856	3.4609		7.28
68) C	isopropylbenzene			5.473	5.886	5.807	5.140	5.152	4.874	4.650	5.2832		8.75
69)	Bromobenzene	3.491	3.110	3.078	3.277	3.488	3.488	3.082	3.106	2.947	2.755	3.1822	7.85
70)	4-ethyl toluene	6.106	5.794	5.653	6.085	6.657	6.581	5.861	5.919	5.586	5.263	5.9507	7.23
71)	1,3,5-trimethylbenzene	4.632	4.542	4.530	4.808	5.051	4.891	4.563	4.475	4.322	4.065	4.5879	6.16
72)	tert-butylbenzene			5.519	5.986	5.999	5.237	5.218	4.775	4.064	5.2568		13.01



Initial Calibration Summary

Form 6

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2150027
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : AIRLAB15 **Ical Ref** : ICAL18280
Calibration dates : 09/02/21 19:35 09/03/21 01:23

Calibration Files

0.02=r1528219_Ev2.D 0.05=r1528220_Ev2.D 0.1 =r1528221_Ev2.D 0.2 =r1528222_Ev2.D 0.5 =r1528223_Ev2.D
 1.0 =r1528224_Ev2.D 5.0 =r1528225_Ev2.D 10.0=r1528226_Ev2.D 20.0=r1528227_Ev2.D 50.0=r1528228_Ev2.D

Compound		0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
73)	1,2,4-trimethylbenzene	5.035	4.711	4.727	4.947	5.285	5.273	4.647	4.633	4.359	3.897	4.7514	8.83
74) C	Benzyl Chloride			2.542	2.659	3.047	3.312	3.481	3.799	3.873	3.867	3.3225	16.00
75)	1,3-dichlorobenzene	3.046	2.993	2.981	3.082	3.338	3.334	3.003	3.069	2.969	2.935	3.0749	4.71
76) C	1,4-dichlorobenzene	3.120	2.917	2.905	2.919	3.133	3.310	2.978	3.078	2.981	2.944	3.0284	4.30
77)	sec-butylbenzene				7.004	7.587	7.589	6.721	6.770	6.383	5.997	6.8644	8.58
78)	p-isopropyltoluene				6.822	7.394	7.418	6.561	6.476	5.877	4.947	6.4993	13.40
79)	1,2-dichlorobenzene	3.018	2.829	2.796	2.794	3.116	3.176	2.877	2.937	2.836	2.809	2.9188	4.77
80)	n-butylbenzene				5.855	6.454	6.566	5.946	6.061	5.707	5.454	6.0059	6.58
81)	1,2-dibromo-3-chloropr...	1.103	1.102	1.064	1.105	1.213	1.290	1.231	1.269	1.166	1.140	1.1683	6.70
82) C	1,2,4-trichlorobenzene		1.791	1.701	1.680	1.952	2.150	2.202	2.384	2.165	2.276	2.0335	12.80
83)	naphthalene		6.208	6.045	6.203	7.208	7.708	7.262	7.575	6.610	6.678	6.8330	9.14
84)	1,2,3-trichlorobenzene		1.748	1.739	1.639	1.957	2.126	2.211	2.304	2.020	2.147	1.9879	11.76
85) C	hexachlorobutadiene		1.925	1.834	1.619	1.908	1.950	1.865	1.919	1.678	1.662	1.8175	7.09



Response Factor Report

Method Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
Method File : TSIM15_210902.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Fri Sep 03 15:40:18 2021
Response Via : Initial Calibration

Calibration Files

0.02=r1528219_Ev2.D 0.05=r1528220_Ev2.D 0.1 =r1528221_Ev2.D 0.2 =r1528222_Ev2.D 0.5 =r1528223_Ev2.D
1.0 =r1528224_Ev2.D 5.0 =r1528225_Ev2.D 10.0=r1528226_Ev2.D 20.0=r1528227_Ev2.D 50.0=r1528228_Ev2.D

Compound		0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
-----ISTD-----													
1) I	bromochloromethane												
2)	propylene				0.569	0.547	0.560	0.456	0.470	0.443	0.446	0.4988	11.44
3)	dichlorodifluorome...				0.850	0.889	0.887	0.747	0.749	0.685	0.641	0.7782	12.72
4) C	chloromethane				0.445	0.465	0.447	0.392	0.372	0.369	0.364	0.4077	10.55
5)	Freon-114		1.083	1.080	1.124	1.171	1.142	0.984	0.932	0.883	0.782	1.0202	12.99
6) C	vinyl chloride	0.622	0.604	0.571	0.606	0.612	0.618	0.531	0.528	0.520	0.519	0.5731	7.71
7) C	1,3-butadiene	0.469	0.417	0.441	0.458	0.481	0.476	0.416	0.404	0.393	0.374	0.4328	8.66
8) C	bromomethane	0.550	0.514	0.467	0.491	0.496	0.497	0.422	0.418	0.403	0.394	0.4652	11.35
9) C	chloroethane			0.286	0.292	0.298	0.296	0.252	0.252	0.247	0.250	0.2716	8.57
10)	ethanol					0.499	0.428	0.308	0.344	0.260	0.241	0.3465	28.89
11) C	vinyl bromide				0.414	0.419	0.424	0.371	0.373	0.360	0.360	0.3886	7.45
12) C	acrolein		0.301	0.242	0.227	0.247	0.242	0.208	0.207	0.198	0.194	0.2297	14.51
13)	acetone				0.741	0.726	0.734	0.602	0.590	0.553	0.515	0.6374	14.83
14)	trichlorofluoromet...		0.709	0.745	0.712	0.745	0.755	0.636	0.628	0.594	0.585	0.6788	10.00
15)	isopropyl alcohol				0.866	0.846	0.856	0.719	0.703	0.675	0.637	0.7576	12.65
16) C	acrylonitrile				0.399	0.410	0.406	0.352	0.349	0.336	0.327	0.3685	9.62
17) C	1,1-dichloroethene	0.931	0.782	0.702	0.772	0.780	0.781	0.670	0.663	0.638	0.622	0.7342	12.76
18)	tertiary butyl alc...					0.990	0.992	0.870	0.855	0.827	0.806	0.8899	9.12
19) C	methylene chloride					0.554	0.541	0.454	0.630	0.426	0.407	0.5020	17.32
20) C	3-chloropropene					0.872	0.697	0.614	0.782	0.593	0.589	0.6912	16.72
21) C	carbon disulfide				1.240	1.658	1.305	1.135	1.494	1.092	1.060	1.2835	17.28
22)	Freon 113	0.987	0.869	0.808	0.820	0.922	0.881	0.712	0.800	0.694	0.676	0.8167	12.45
23)	trans-1,2-dichloro...	0.966	0.910	0.871	0.910	0.953	0.955	0.831	0.851	0.810	0.804	0.8861	6.91
24) C	1,1-dichloroethane	1.075	1.034	0.998	1.062	1.102	1.095	0.933	0.950	0.920	0.920	1.0090	7.30
25) C	MTBE	1.396	1.282	1.222	1.296	1.355	1.370	1.190	1.195	1.136	1.115	1.2556	7.89
26) C	vinyl acetate					1.242	1.295	1.144	1.185	1.141	1.142	1.1914	5.41
27) C	2-butanone				1.284	1.319	1.329	1.168	1.179	1.105	1.092	1.2107	8.19
28)	cis-1,2-dichloroet...	0.894	0.831	0.764	0.825	0.850	0.860	0.737	0.748	0.722	0.721	0.7951	8.04
29)	Ethyl Acetate					0.241	0.250	0.217	0.222	0.215	0.216	0.2269	6.69
30) C	chloroform	1.091	0.974	0.908	0.968	1.004	1.009	0.856	0.852	0.796	0.744	0.9203	11.71
31)	Tetrahydrofuran				0.794	0.830	0.843	0.749	0.763	0.722	0.719	0.7744	6.43

Response Factor Report

Method Path : O:\Forensics\Data\AirLab15\2021\09\0902SIM_I\
Method File : TSIM15_210902.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Sep 03 15:40:18 2021
Response Via : Initial Calibration

Calibration Files

0.02=r1528219_Ev2.D 0.05=r1528220_Ev2.D 0.1 =r1528221_Ev2.D 0.2 =r1528222_Ev2.D 0.5 =r1528223_Ev2.D
1.0 =r1528224_Ev2.D 5.0 =r1528225_Ev2.D 10.0=r1528226_Ev2.D 20.0=r1528227_Ev2.D 50.0=r1528228_Ev2.D

	Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
32) C	1,2-dichloroethane	0.853	0.618	0.603	0.587	0.631	0.642	0.543	0.542	0.511	0.501	0.6032	16.70
33) I	1,4-difluorobenzene	-----ISTD-----											
34) C	hexane				0.524	0.552	0.541	0.470	0.471	0.447	0.422	0.4897	10.11
35) S	1,2-dichloroethane-D4				0.263	0.262	0.258	0.261	0.262	0.257	0.252	0.2593	1.60
36) C	1,1,1-trichloroethane	0.355	0.304	0.289	0.316	0.322	0.323	0.278	0.283	0.269	0.262	0.3001	9.69
37) C	benzene			0.825	1.041	0.941	0.898	0.740	0.733	0.687	0.659	0.8155	16.52
38) C	carbon tetrachloride	0.259	0.275	0.249	0.269	0.280	0.274	0.243	0.243	0.234	0.227	0.2552	7.32
39)	cyclohexane				0.576	0.596	0.586	0.506	0.512	0.489	0.474	0.5342	9.41
40)	Dibromomethane		0.341	0.264	0.275	0.266	0.267	0.229	0.231	0.219	0.216	0.2563	15.26
41) C	1,2-dichloropropane	0.368	0.359	0.303	0.330	0.331	0.332	0.285	0.289	0.278	0.278	0.3151	10.53
42)	bromodichloromethane	0.416	0.395	0.417	0.427	0.446	0.451	0.403	0.404	0.379	0.361	0.4101	6.77
43) C	1,4-dioxane			0.205	0.211	0.214	0.214	0.195	0.194	0.186	0.180	0.1997	6.57
44) C	trichloroethene	0.363	0.319	0.307	0.326	0.337	0.342	0.297	0.301	0.286	0.280	0.3158	8.39
45) C	2,2,4-trimethylpen...		1.683	1.618	1.740	1.841	1.847	1.554	1.561	1.463	1.397	1.6337	9.66
46)	heptane				0.598	0.618	0.618	0.541	0.537	0.498	0.474	0.5550	10.44
47) C	cis-1,3-dichloropr...	0.310	0.285	0.285	0.315	0.326	0.337	0.305	0.312	0.296	0.292	0.3064	5.63
48) C	4-methyl-2-pentanone					0.680	0.686	0.611	0.612	0.572	0.548	0.6181	9.00
49)	trans-1,3-dichloro...	0.384	0.342	0.330	0.360	0.371	0.381	0.337	0.341	0.327	0.317	0.3490	6.74
50) C	1,1,2-trichloroethane	0.322	0.305	0.272	0.291	0.306	0.306	0.265	0.267	0.258	0.258	0.2850	8.28
51) I	chlorobenzene-D5	-----ISTD-----											
52) C	toluene		5.362	4.733	5.976	5.460	5.077	4.252	4.317	4.198	4.052	4.8254	14.03
53) S	toluene-D8				4.830	4.774	4.675	4.784	4.966	5.109	5.179	4.9024	3.82
54)	2-hexanone				2.775	3.001	3.083	2.828	2.845	2.659	2.527	2.8169	6.75
55)	dibromochloromethane	1.952	1.794	1.624	1.753	1.861	1.866	1.761	1.870	1.812	1.779	1.8070	4.91
56) C	1,2-dibromoethane	2.091	1.908	1.829	1.935	2.019	2.037	1.792	1.822	1.781	1.746	1.8960	6.37
57) C	tetrachloroethene	1.957	1.651	1.548	1.628	1.731	1.692	1.486	1.501	1.438	1.393	1.6025	10.42
58)	1,1,1,2-tetrachlor...	1.502	1.377	1.287	1.369	1.448	1.435	1.299	1.346	1.305	1.272	1.3640	5.67
59) C	chlorobenzene	3.556	3.416	3.154	3.434	3.616	3.623	3.160	3.208	3.040	2.878	3.3084	7.78
60) C	ethylbenzene	6.338	5.763	5.517	5.864	6.153	6.151	5.408	5.506	5.312	5.168	5.7180	6.98
61) C	m+p-xylene	4.982	4.595	4.479	4.719	5.014	4.995	4.361	4.416	4.235	3.994	4.5789	7.60

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
Method File : TSIM15_210902.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Fri Sep 03 15:40:18 2021
Response Via : Initial Calibration

Calibration Files

0.02=r1528219_Ev2.D 0.05=r1528220_Ev2.D 0.1 =r1528221_Ev2.D 0.2 =r1528222_Ev2.D 0.5 =r1528223_Ev2.D
1.0 =r1528224_Ev2.D 5.0 =r1528225_Ev2.D 10.0=r1528226_Ev2.D 20.0=r1528227_Ev2.D 50.0=r1528228_Ev2.D

	Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
62)	C bromoform	1.581	1.312	1.212	1.223	1.349	1.383	1.413	1.480	1.494	1.479	1.3928	8.67
63)	C styrene	3.533	3.239	3.193	3.432	3.638	3.693	3.303	3.336	3.234	3.151	3.3752	5.65
64)	C 1,1,2,2-tetrachlor...	3.918	3.613	3.556	3.668	3.920	3.935	3.434	3.460	3.260	2.825	3.5588	9.68
65)	C o-xylene	5.183	4.672	4.545	4.727	5.081	5.068	4.445	4.450	4.244	3.833	4.6247	9.04
66)	1,2,3-Trichloropro...	2.754	2.444	2.303	2.460	2.646	2.661	2.315	2.341	2.200	2.116	2.4239	8.64
67)	s bromofluorobenzene				3.163	3.255	3.313	3.385	3.550	3.704	3.856	3.4609	7.28
68)	C isopropylbenzene				5.473	5.886	5.807	5.140	5.152	4.874	4.650	5.2832	8.75
69)	Bromobenzene	3.491	3.110	3.078	3.277	3.488	3.488	3.082	3.106	2.947	2.755	3.1822	7.85
70)	4-ethyl toluene	6.106	5.794	5.653	6.085	6.657	6.581	5.861	5.919	5.586	5.263	5.9507	7.23
71)	1,3,5-trimethylben...	4.632	4.542	4.530	4.808	5.051	4.891	4.563	4.475	4.322	4.065	4.5879	6.16
72)	tert-butylbenzene				5.519	5.986	5.999	5.237	5.218	4.775	4.064	5.2568	13.01
73)	1,2,4-trimethylben...	5.035	4.711	4.727	4.947	5.285	5.273	4.647	4.633	4.359	3.897	4.7514	8.83
74)	C Benzyl Chloride			2.542	2.659	3.047	3.312	3.481	3.799	3.873	3.867	3.3225	16.00
75)	1,3-dichlorobenzene	3.046	2.993	2.981	3.082	3.338	3.334	3.003	3.069	2.969	2.935	3.0749	4.71
76)	C 1,4-dichlorobenzene	3.120	2.917	2.905	2.919	3.133	3.310	2.978	3.078	2.981	2.944	3.0284	4.30
77)	sec-butylbenzene				7.004	7.587	7.589	6.721	6.770	6.383	5.997	6.8644	8.58
78)	p-isopropyltoluene				6.822	7.394	7.418	6.561	6.476	5.877	4.947	6.4993	13.40
79)	1,2-dichlorobenzene	3.018	2.829	2.796	2.794	3.116	3.176	2.877	2.937	2.836	2.809	2.9188	4.77
80)	n-butylbenzene				5.855	6.454	6.566	5.946	6.061	5.707	5.454	6.0059	6.58
81)	1,2-dibromo-3-chlo...	1.103	1.102	1.064	1.105	1.213	1.290	1.231	1.269	1.166	1.140	1.1683	6.70
82)	C 1,2,4-trichloroben...		1.791	1.701	1.680	1.952	2.150	2.202	2.384	2.165	2.276	2.0335	12.80
83)	naphthalene		6.208	6.045	6.203	7.208	7.708	7.262	7.575	6.610	6.678	6.8330	9.14
84)	1,2,3-trichloroben...		1.748	1.739	1.639	1.957	2.126	2.211	2.304	2.020	2.147	1.9879	11.76
85)	C hexachlorobutadiene		1.925	1.834	1.619	1.908	1.950	1.865	1.919	1.678	1.662	1.8175	7.09

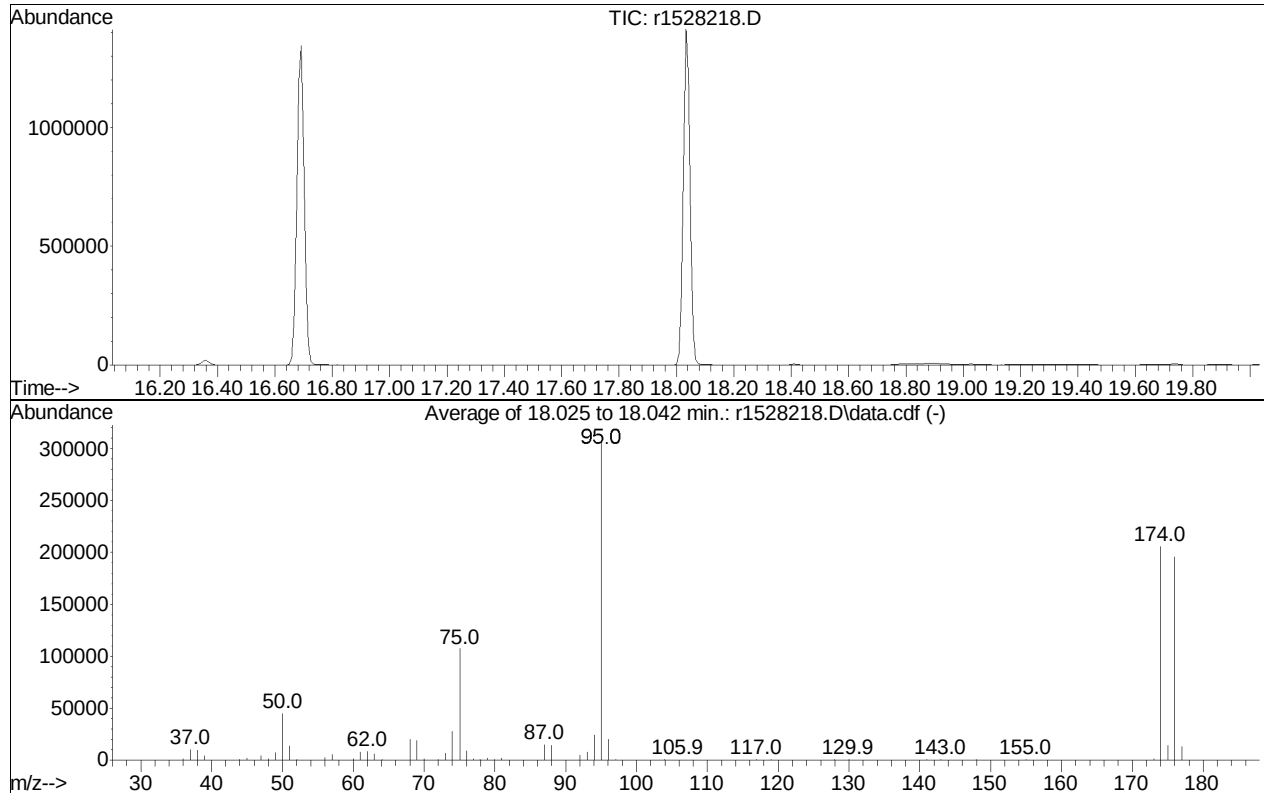
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528218.D
 Acq On : 2 Sep 2021 7:00 PM
 Operator : AIRLAB15:RY
 Sample : WG1542872-1,3,250,250
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Fri Sep 03 15:06:42 2021



Spectrum Information: Average of 18.025 to 18.042 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.6	44885	PASS
75	95	30	66	34.9	107382	PASS
95	95	100	100	100.0	307665	PASS
96	95	5	9	6.5	20102	PASS
173	174	0.00	2	0.5	1090	PASS
174	95	50	120	66.9	205785	PASS
175	174	4	9	6.8	14067	PASS
176	174	93	101	95.2	195930	PASS
177	176	5	9	6.6	12970	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528219_Ev2.D
 Acq On : 2 Sep 2021 7:35 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.02
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:39:45 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.67	49	216345	10.000	ppbV	0.00
Standard Area = 221893			Recovery =		97.50%	
33) 1,4-difluorobenzene	11.96	114	523610	10.000	ppbV	0.00
Standard Area = 529129			Recovery =		98.96%	
51) chlorobenzene-D5	16.68	54	107844	10.000	ppbV	0.00
Standard Area = 110952			Recovery =		97.20%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.00	65	0	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.00%#	
53) toluene-D8	14.81	98	509	0.010	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.10%#	
67) bromofluorobenzene	18.03	95	1988	0.054	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.54%#	
Target Compounds						
					Qvalue	
2) propylene	3.94	41	471M6	0.048	ppbV	
3) dichlorodifluoromethane	4.02	85	406	0.025	ppbV	98
4) chloromethane	4.21	50	294	0.035	ppbV #	70
5) Freon-114	4.34	85	525	0.025	ppbV	96
6) vinyl chloride	4.47	62	269	0.023	ppbV #	79
7) 1,3-butadiene	4.64	54	203	0.023	ppbV #	68
8) bromomethane	4.97	94	238	0.026	ppbV	92
9) chloroethane	5.19	64	176	0.032	ppbV #	70
10) ethanol	5.37	31	1318	0.198	ppbV	90
11) vinyl bromide	5.62	106	225M4	0.028	ppbV	
12) acrolein	5.78	56	170M4	0.038	ppbV	
13) acetone	5.95	43	1965	0.151	ppbV #	92
14) trichlorofluoromethane	6.15	101	375M4	0.027	ppbV	
15) isopropyl alcohol	6.28	45	985M4	0.063	ppbV	
16) acrylonitrile	6.52	53	182M4	0.024	ppbV	
17) 1,1-dichloroethene	6.92	61	403	0.028	ppbV #	87
18) tertiary butyl alcohol	7.03	59	405	0.022	ppbV #	91
19) methylene chloride	7.09	49	463	0.047	ppbV #	81
20) 3-chloropropene	7.23	41	299	0.023	ppbV #	86
21) carbon disulfide	7.39	76	662	0.027	ppbV #	1
22) Freon 113	7.43	101	427	0.028	ppbV #	91
23) trans-1,2-dichloroethene	8.23	61	418	0.023	ppbV	88
24) 1,1-dichloroethane	8.47	63	465	0.023	ppbV	90

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528219_Ev2.D
 Acq On : 2 Sep 2021 7:35 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.02
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:39:45 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.57	73	604	0.023	ppbV #	71
26) vinyl acetate	8.69	43	611	0.025	ppbV #	85
27) 2-butanone	8.97	43	613	0.024	ppbV #	87
28) cis-1,2-dichloroethene	9.47	61	387	0.024	ppbV #	94
29) Ethyl Acetate	9.80	61	119	0.025	ppbV #	22
30) chloroform	9.83	83	472	0.025	ppbV #	91
31) Tetrahydrofuran	10.32	42	294	0.018	ppbV #	86
32) 1,2-dichloroethane	10.69	62	369	0.031	ppbV #	76
34) hexane	9.74	57	644	0.026	ppbV #	55
36) 1,1,1-trichloroethane	10.98	97	372	0.026	ppbV #	84
37) benzene	11.52	78	1233	0.032	ppbV #	91
38) carbon tetrachloride	11.70	117	271	0.021	ppbV #	76
39) cyclohexane	11.84	56	704	0.027	ppbV #	89
40) Dibromomethane	12.45	93	520	0.043	ppbV #	94
41) 1,2-dichloropropane	12.48	63	385	0.026	ppbV #	85
42) bromodichloromethane	12.72	83	436	0.021	ppbV #	93
43) 1,4-dioxane	12.80	88	385M3	0.038	ppbV #	
44) trichloroethene	12.76	130	380	0.024	ppbV #	86
45) 2,2,4-trimethylpentane	12.82	57	1880	0.023	ppbV #	91
46) heptane	13.14	43	630	0.022	ppbV #	99
47) cis-1,3-dichloropropene	14.42	75	325	0.020	ppbV #	80
48) 4-methyl-2-pentanone	13.85	43	653	0.020	ppbV #	94
49) trans-1,3-dichloropropene	13.78	75	402	0.023	ppbV #	79
50) 1,1,2-trichloroethane	14.61	97	337	0.024	ppbV #	94
52) toluene	14.92	91	1501	0.033	ppbV #	97
54) 2-hexanone	15.23	43	563	0.018	ppbV #	94
55) dibromochloromethane	15.37	129	421	0.022	ppbV #	84
56) 1,2-dibromoethane	15.62	107	451	0.023	ppbV #	99
57) tetrachloroethene	16.08	166	422	0.026	ppbV #	88
58) 1,1,1,2-tetrachloroethane	16.71	131	324	0.023	ppbV #	93
59) chlorobenzene	16.73	112	767	0.023	ppbV #	94
60) ethylbenzene	17.07	91	1367	0.023	ppbV #	89
61) m+p-xylene	17.23	91	2149	0.046	ppbV #	99
62) bromoform	17.30	173	341	0.022	ppbV #	87
63) styrene	17.55	104	762	0.021	ppbV #	94
64) 1,1,2,2-tetrachloroethane	17.64	83	845	0.023	ppbV #	98
65) o-xylene	17.64	91	1118	0.023	ppbV #	96
66) 1,2,3-Trichloropropane	17.75	75	594	0.024	ppbV #	98
68) isopropylbenzene	18.14	105	1258	0.023	ppbV #	100
69) Bromobenzene	18.22	77	753	0.023	ppbV #	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528219_Ev2.D
 Acq On : 2 Sep 2021 7:35 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.02
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:39:45 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70) 4-ethyl toluene	18.68	105	1317	0.021	ppbV	#	95
71) 1,3,5-trimethylbenzene	18.74	105	999	0.020	ppbV	#	97
72) tert-butylbenzene	19.07	119	1269	0.022	ppbV	#	88
73) 1,2,4-trimethylbenzene	19.07	105	1086	0.022	ppbV		98
74) Benzyl Chloride	19.19	91	653	0.017	ppbV		92
75) 1,3-dichlorobenzene	19.21	146	657M3	0.020	ppbV		
76) 1,4-dichlorobenzene	19.26	146	673	0.021	ppbV		90
77) sec-butylbenzene	19.29	105	1587	0.022	ppbV		95
78) p-isopropyltoluene	19.41	119	1486	0.021	ppbV		96
79) 1,2-dichlorobenzene	19.54	146	651	0.021	ppbV		95
80) n-butylbenzene	19.76	91	1320	0.021	ppbV		95
81) 1,2-dibromo-3-chloropr...	19.91	75	238	0.018	ppbV		89
82) 1,2,4-trichlorobenzene	21.05	180	343	0.014	ppbV	#	76
83) naphthalene	21.17	128	1408	0.018	ppbV	#	92
84) 1,2,3-trichlorobenzene	21.43	180	381	0.016	ppbV	#	77
85) hexachlorobutadiene	21.50	225	454	0.023	ppbV		93

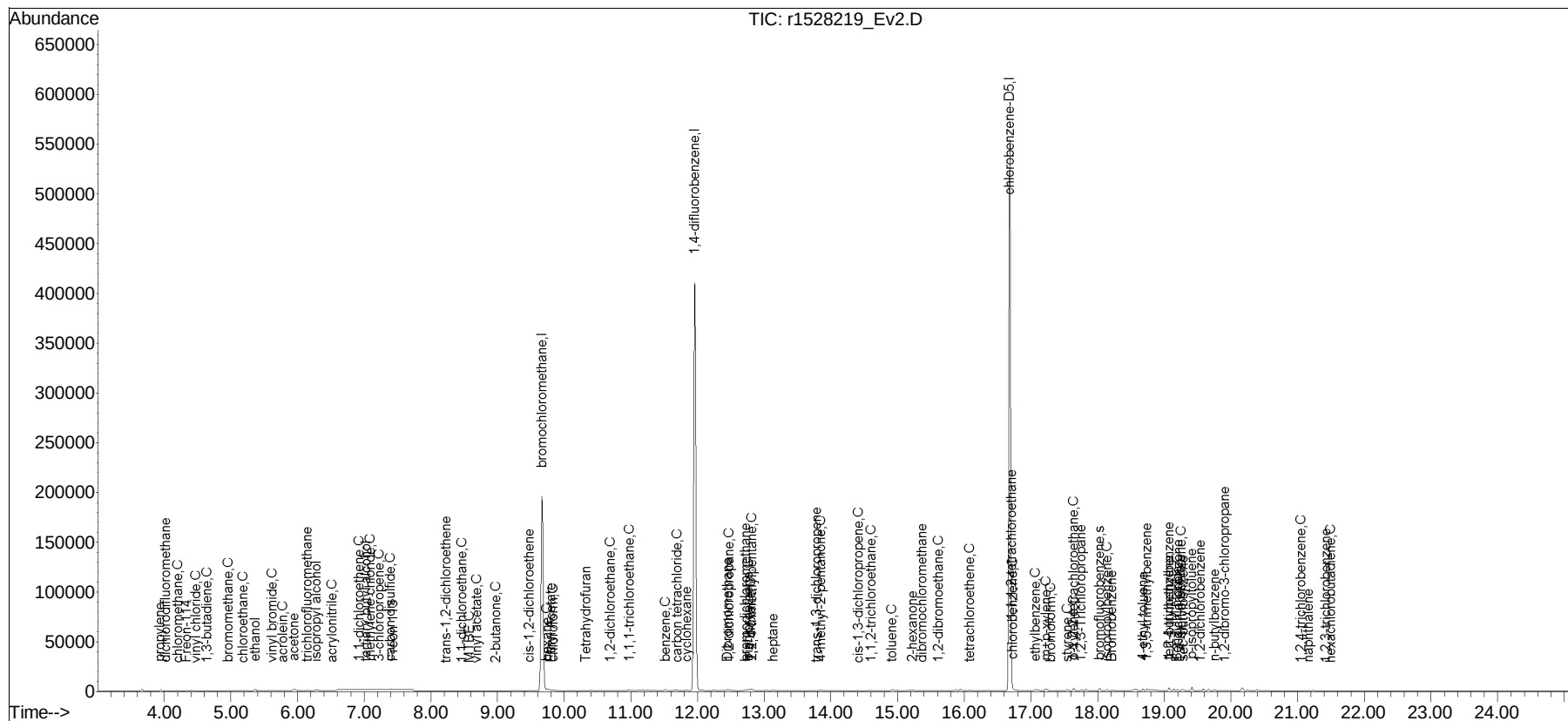
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data File  : r1528219_Ev2.D
Acq On     : 2 Sep 2021 7:35 PM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD0.02
Misc       : WG1542872
ALS Vial   : 0 Sample Multiplier: 1
```

Quant Time: Sep 03 14:39:45 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 10:45:38 2021
Response via : Initial Calibration

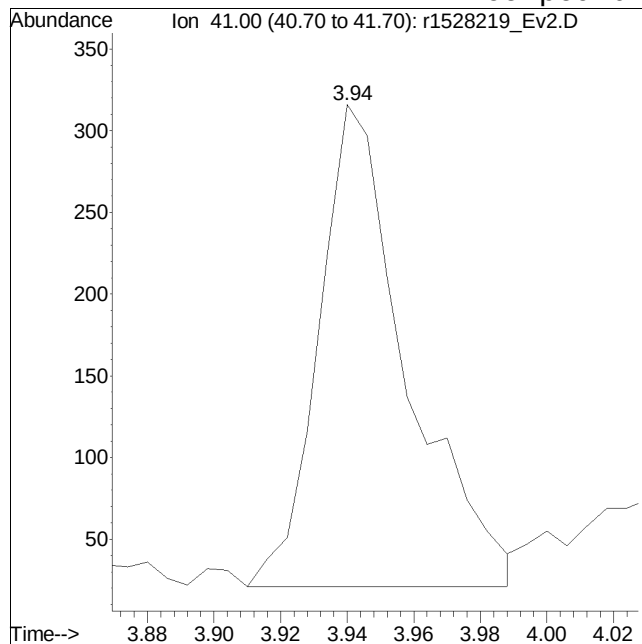
Sub List : Default - All compounds listed1\09\0902SIM_I\r1528225_Ev2.D



Manual Integration/Negative Proof Report

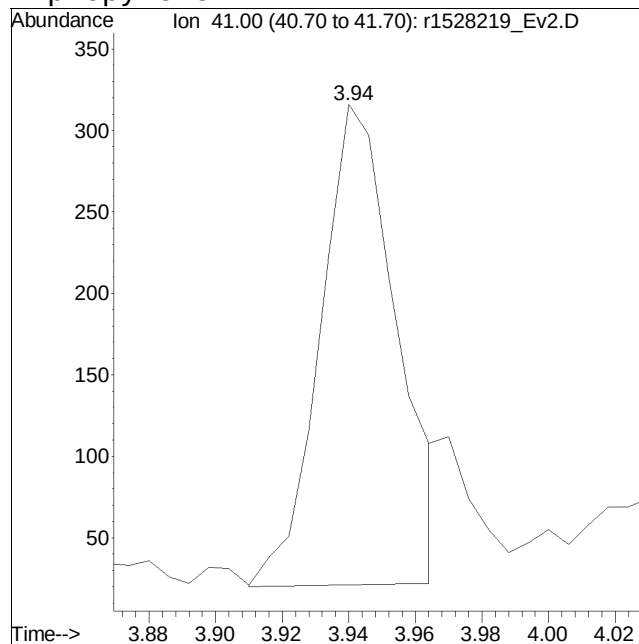
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM15_210902.M
Data File : r1528219_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:7: 5 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 9/3/2021 10:46 am

Compound #2: propylene



Original Peak Response = 542

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

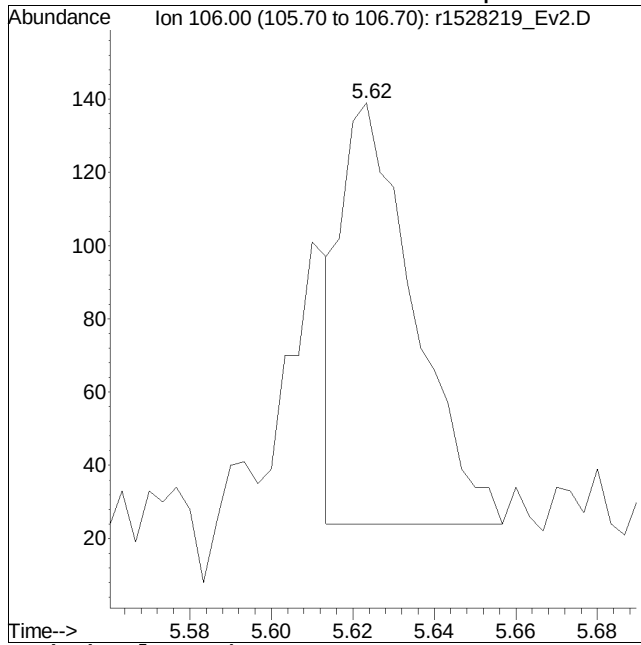


Manual Peak Response = 471 M6

Manual Integration/Negative Proof Report

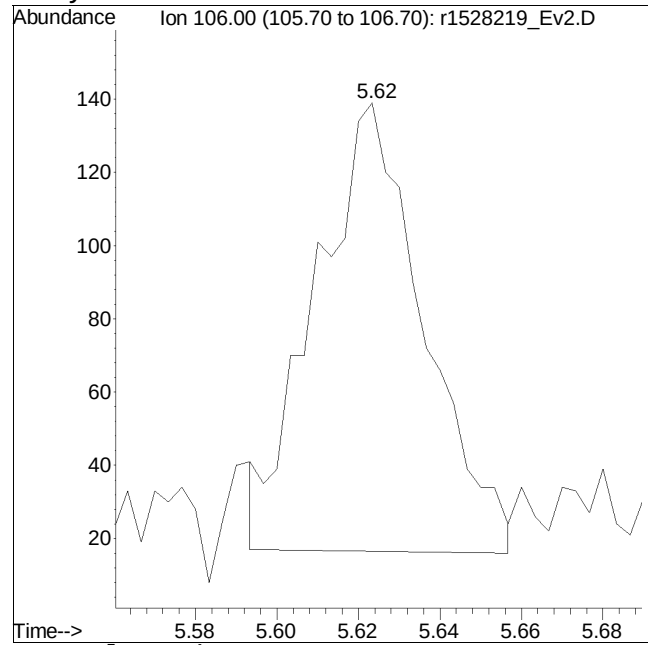
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528219_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:7: 5 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 9/3/2021 10:46 am

Compound #11: vinyl bromide



Original Peak Response = 143

M4 = Poor automated baseline construction.

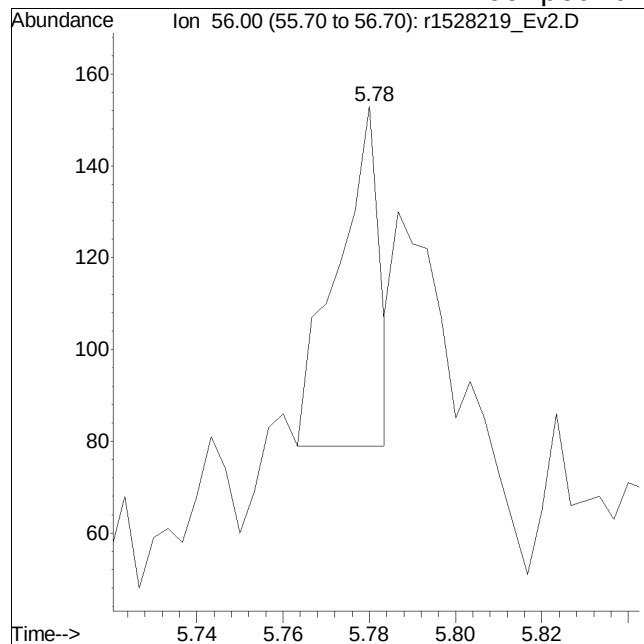


Manual Peak Response = 225 M4

Manual Integration/Negative Proof Report

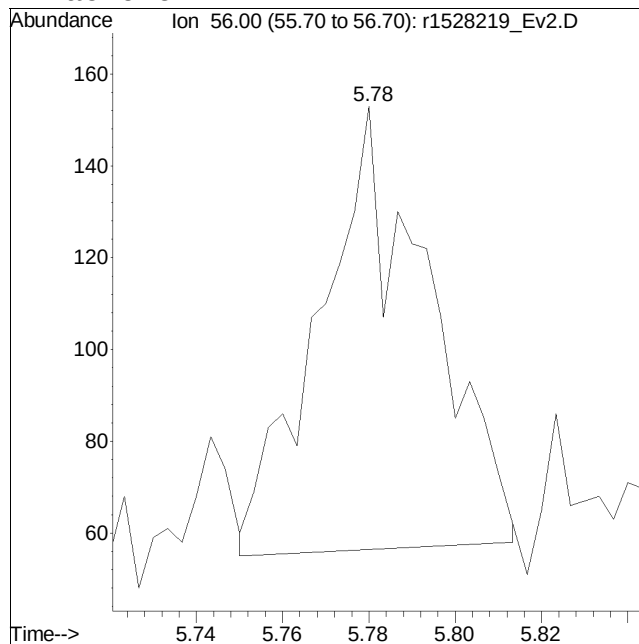
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528219_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:7: 5 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 9/3/2021 10:46 am

Compound #12: acrolein



Original Peak Response = 50

M4 = Poor automated baseline construction.

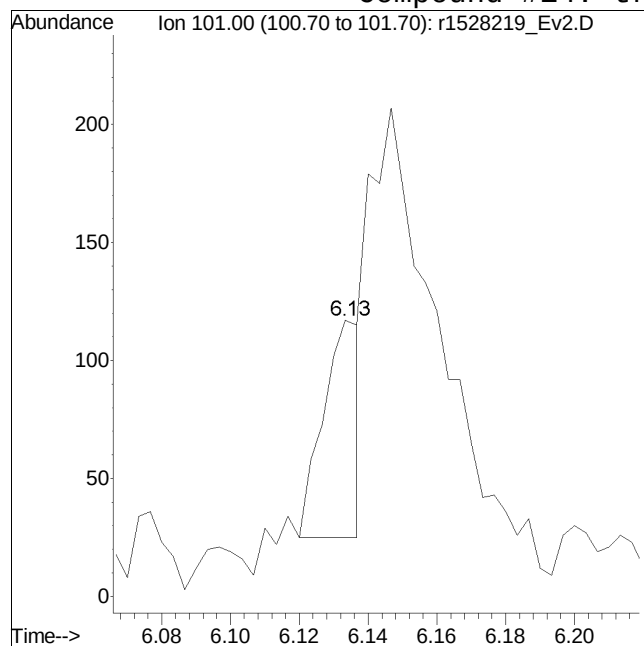


Manual Peak Response = 170 M4

Manual Integration/Negative Proof Report

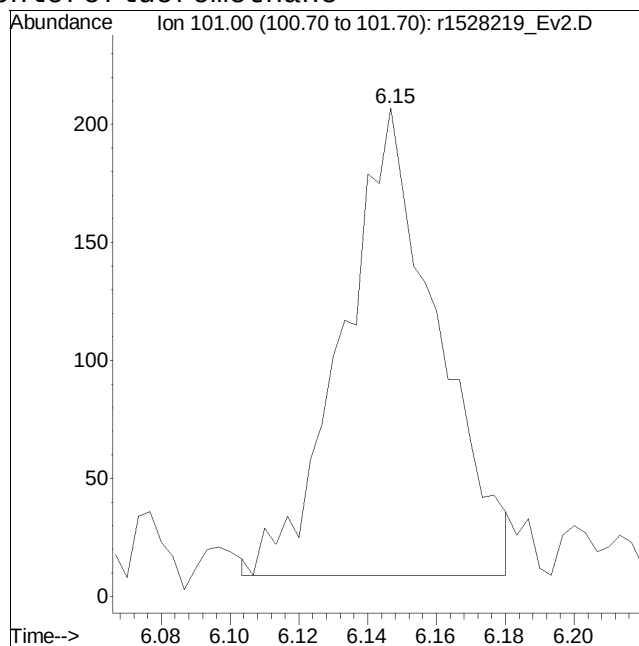
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528219_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:7: 5 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 9/3/2021 10:46 am

Compound #14: trichlorofluoromethane



Original Peak Response = 68

M4 = Poor automated baseline construction.

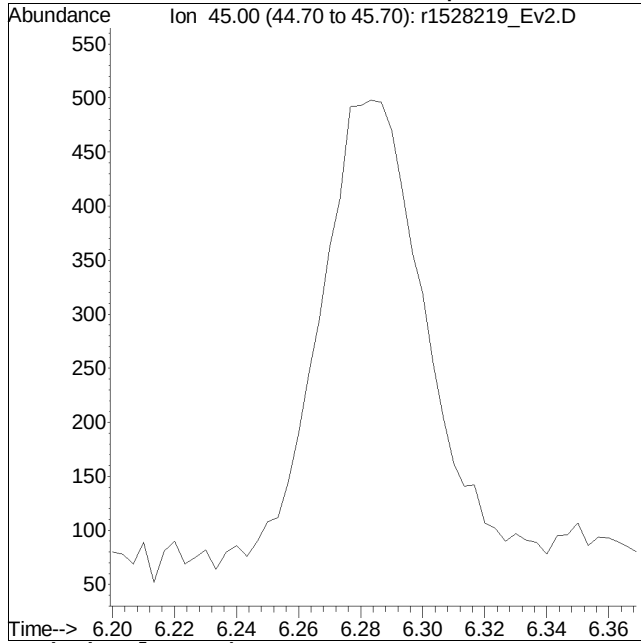


Manual Peak Response = 375 M4

Manual Integration/Negative Proof Report

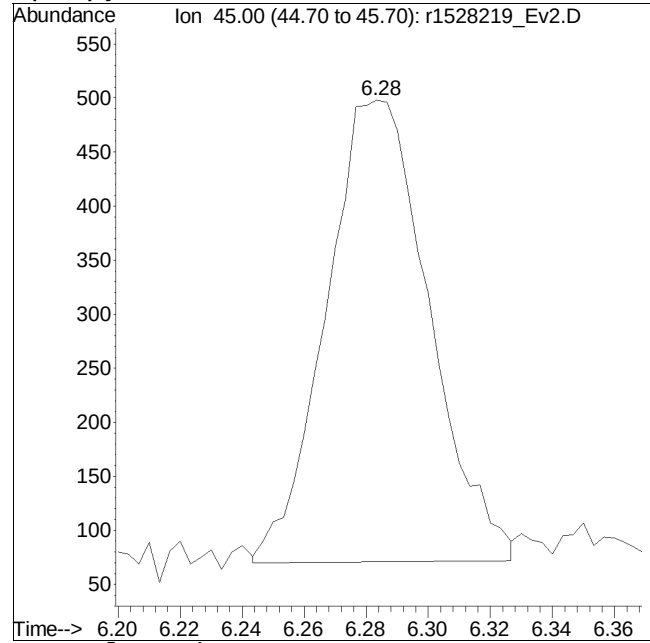
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528219_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:7: 5 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 9/3/2021 10:46 am

Compound #15: isopropyl alcohol



Original Peak Response = 0

M4 = Poor automated baseline construction.

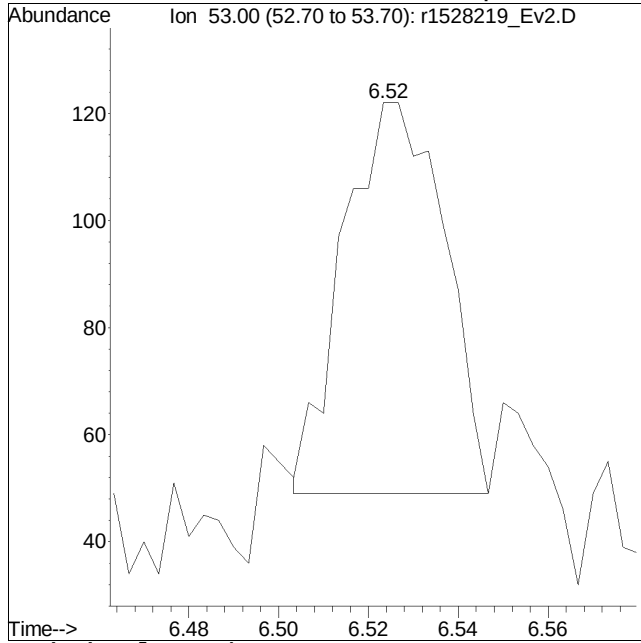


Manual Peak Response = 985 M4

Manual Integration/Negative Proof Report

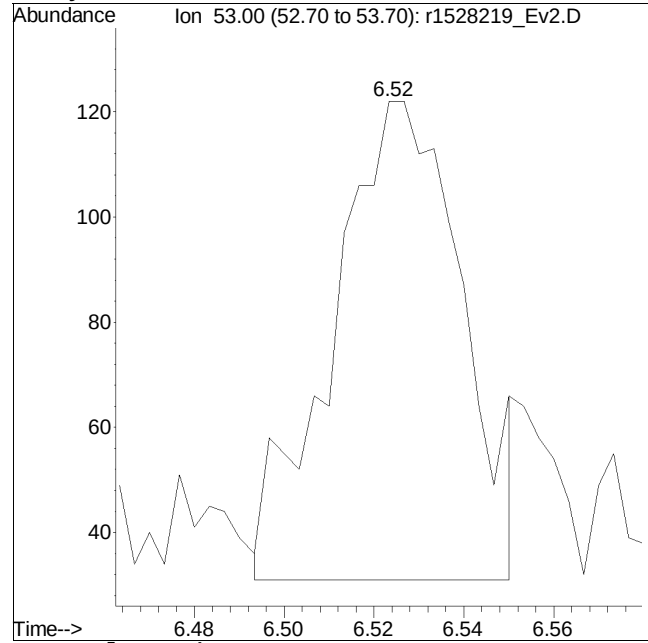
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528219_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:7: 5 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 9/3/2021 10:46 am

Compound #16: acrylonitrile



Original Peak Response = 114

M4 = Poor automated baseline construction.

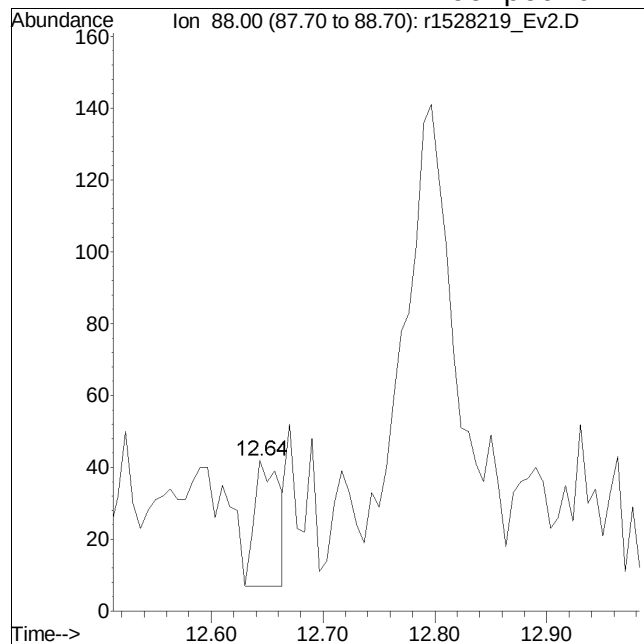


Manual Peak Response = 182 M4

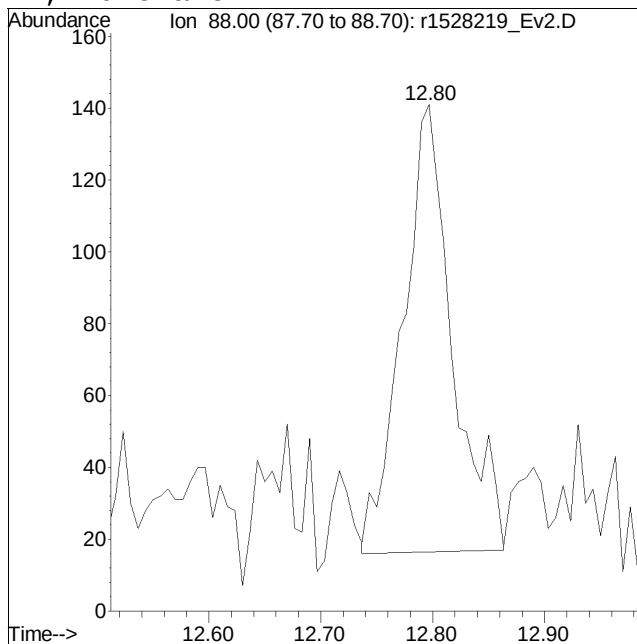
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
 Data File : r1528219_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 9/2/2020 0:7: 5 Instrument :
 Sample : IT015-SIMSTD0.02 Quant Date : 9/3/2021 10:46 am

Compound #43: 1,4-dioxane



Original Peak Response = 55



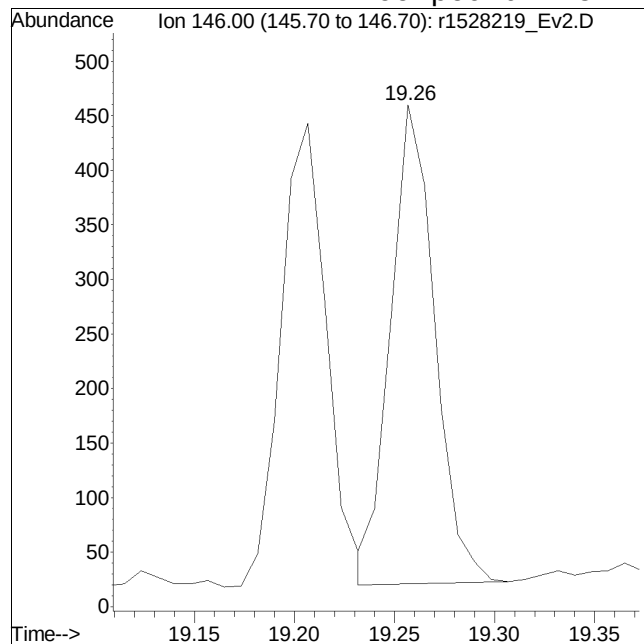
Manual Peak Response = 385 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration/Negative Proof Report

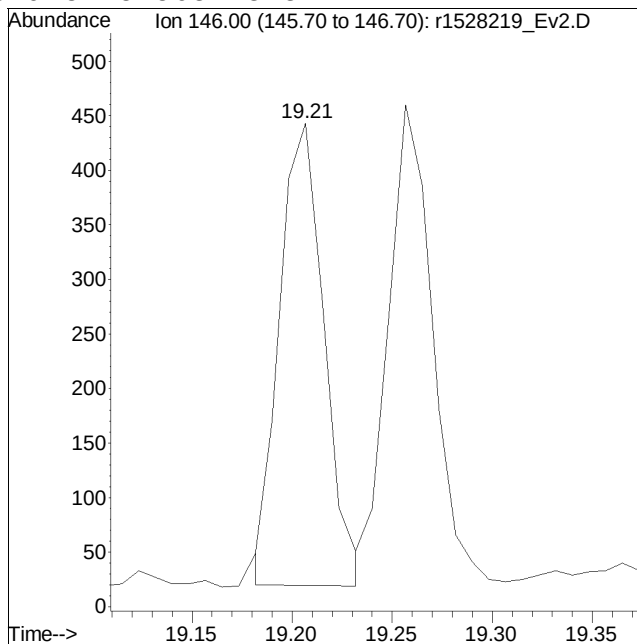
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
 Data File : r1528219_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 9/2/2020 0:7: 5 Instrument :
 Sample : IT015-SIMSTD0.02 Quant Date : 9/3/2021 10:46 am

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 673

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Manual Peak Response = 657 M3

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528220_Ev2.D
 Acq On : 2 Sep 2021 8:11 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.05
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:41:34 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.67	49	215980	10.000	ppbV	0.00
Standard Area = 221893			Recovery =		97.34%	
33) 1,4-difluorobenzene	11.96	114	520956	10.000	ppbV	0.00
Standard Area = 529129			Recovery =		98.46%	
51) chlorobenzene-D5	16.68	54	107450	10.000	ppbV	0.00
Standard Area = 110952			Recovery =		96.84%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.00	65	0	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.00%#	
53) toluene-D8	14.81	98	262	0.005	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.05%#	
67) bromofluorobenzene	18.03	95	756	0.021	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.21%#	
Target Compounds						
					Qvalue	
2) propylene	3.95	41	721M6	0.073	ppbV	
3) dichlorodifluoromethane	4.03	85	913	0.057	ppbV	93
4) chloromethane	4.22	50	579	0.068	ppbV #	75
5) Freon-114	4.34	85	1170	0.055	ppbV	97
6) vinyl chloride	4.48	62	652	0.057	ppbV #	88
7) 1,3-butadiene	4.64	54	450	0.050	ppbV #	70
8) bromomethane	4.97	94	555	0.061	ppbV	93
9) chloroethane	5.19	64	329	0.060	ppbV #	78
10) ethanol	5.37	31	2769	0.417	ppbV	90
11) vinyl bromide	5.62	106	527	0.066	ppbV	89
12) acrolein	5.79	56	325M4	0.072	ppbV	
13) acetone	5.95	43	4171	0.321	ppbV #	95
14) trichlorofluoromethane	6.15	101	766	0.056	ppbV	90
15) isopropyl alcohol	6.28	45	2059	0.133	ppbV #	93
16) acrylonitrile	6.53	53	470M4	0.062	ppbV	
17) 1,1-dichloroethene	6.92	61	845	0.058	ppbV #	90
18) tertiary butyl alcohol	7.03	59	1054	0.056	ppbV #	89
19) methylene chloride	7.09	49	788	0.080	ppbV	94
20) 3-chloropropene	7.24	41	790	0.060	ppbV	91
21) carbon disulfide	7.39	76	1408	0.057	ppbV #	1
22) Freon 113	7.43	101	938	0.061	ppbV	98
23) trans-1,2-dichloroethene	8.23	61	983	0.055	ppbV	93
24) 1,1-dichloroethane	8.47	63	1117	0.055	ppbV #	88

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528220_Ev2.D
 Acq On : 2 Sep 2021 8:11 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.05
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:41:34 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.57	73	1384	0.054	ppbV	# 90
26) vinyl acetate	8.69	43	1368	0.055	ppbV	# 93
27) 2-butanone	8.97	43	1390	0.055	ppbV	# 93
28) cis-1,2-dichloroethene	9.47	61	897	0.056	ppbV	# 99
29) Ethyl Acetate	9.79	61	247	0.053	ppbV	# 55
30) chloroform	9.83	83	1052	0.057	ppbV	# 92
31) Tetrahydrofuran	10.32	42	861	0.053	ppbV	# 92
32) 1,2-dichloroethane	10.69	62	667	0.057	ppbV	# 92
34) hexane	9.74	57	1342	0.055	ppbV	# 54
36) 1,1,1-trichloroethane	10.99	97	792	0.055	ppbV	# 95
37) benzene	11.52	78	2418	0.063	ppbV	# 98
38) carbon tetrachloride	11.70	117	716	0.057	ppbV	# 96
39) cyclohexane	11.83	56	1471	0.056	ppbV	# 91
40) Dibromomethane	12.45	93	889	0.075	ppbV	# 87
41) 1,2-dichloropropane	12.48	63	934	0.063	ppbV	# 90
42) bromodichloromethane	12.71	83	1030	0.049	ppbV	# 98
43) 1,4-dioxane	12.78	88	581	0.057	ppbV	# 97
44) trichloroethene	12.76	130	832	0.054	ppbV	# 94
45) 2,2,4-trimethylpentane	12.81	57	4384	0.054	ppbV	# 96
46) heptane	13.13	43	1571	0.056	ppbV	# 91
47) cis-1,3-dichloropropene	14.41	75	742	0.047	ppbV	# 90
48) 4-methyl-2-pentanone	13.84	43	1562	0.049	ppbV	# 95
49) trans-1,3-dichloropropene	13.78	75	890	0.051	ppbV	# 92
50) 1,1,2-trichloroethane	14.61	97	795	0.058	ppbV	# 96
52) toluene	14.92	91	2881	0.063	ppbV	# 98
54) 2-hexanone	15.22	43	1338	0.044	ppbV	# 93
55) dibromochloromethane	15.36	129	964	0.051	ppbV	# 96
56) 1,2-dibromoethane	15.62	107	1025	0.053	ppbV	# 94
57) tetrachloroethene	16.07	166	887	0.056	ppbV	# 91
58) 1,1,1,2-tetrachloroethane	16.71	131	740	0.053	ppbV	# 96
59) chlorobenzene	16.73	112	1835	0.054	ppbV	# 98
60) ethylbenzene	17.07	91	3096	0.053	ppbV	# 99
61) m+p-xylene	17.23	91	4937	0.105	ppbV	# 98
62) bromoform	17.30	173	705	0.046	ppbV	# 94
63) styrene	17.54	104	1740	0.049	ppbV	# 96
64) 1,1,2,2-tetrachloroethane	17.63	83	1941	0.053	ppbV	# 99
65) o-xylene	17.63	91	2510	0.053	ppbV	# 100
66) 1,2,3-Trichloropropane	17.75	75	1313	0.053	ppbV	# 98
68) isopropylbenzene	18.14	105	2940	0.053	ppbV	# 99
69) Bromobenzene	18.22	77	1671	0.050	ppbV	# 98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528220_Ev2.D
 Acq On : 2 Sep 2021 8:11 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.05
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:41:34 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70) 4-ethyl toluene	18.68	105	3113	0.049	ppbV		98
71) 1,3,5-trimethylbenzene	18.74	105	2440	0.050	ppbV #		97
72) tert-butylbenzene	19.07	119	3003	0.053	ppbV		99
73) 1,2,4-trimethylbenzene	19.07	105	2531	0.051	ppbV		95
74) Benzyl Chloride	19.19	91	1452	0.039	ppbV		94
75) 1,3-dichlorobenzene	19.21	146	1608	0.050	ppbV		96
76) 1,4-dichlorobenzene	19.26	146	1567M3	0.049	ppbV		
77) sec-butylbenzene	19.28	105	3704	0.051	ppbV		98
78) p-isopropyltoluene	19.41	119	3594	0.051	ppbV		98
79) 1,2-dichlorobenzene	19.54	146	1520	0.049	ppbV		97
80) n-butylbenzene	19.76	91	3008	0.047	ppbV		95
81) 1,2-dibromo-3-chloropr...	19.91	75	592	0.045	ppbV		96
82) 1,2,4-trichlorobenzene	21.05	180	962	0.041	ppbV		92
83) naphthalene	21.17	128	3335	0.043	ppbV		96
84) 1,2,3-trichlorobenzene	21.43	180	939	0.040	ppbV #		91
85) hexachlorobutadiene	21.49	225	1034	0.052	ppbV		94

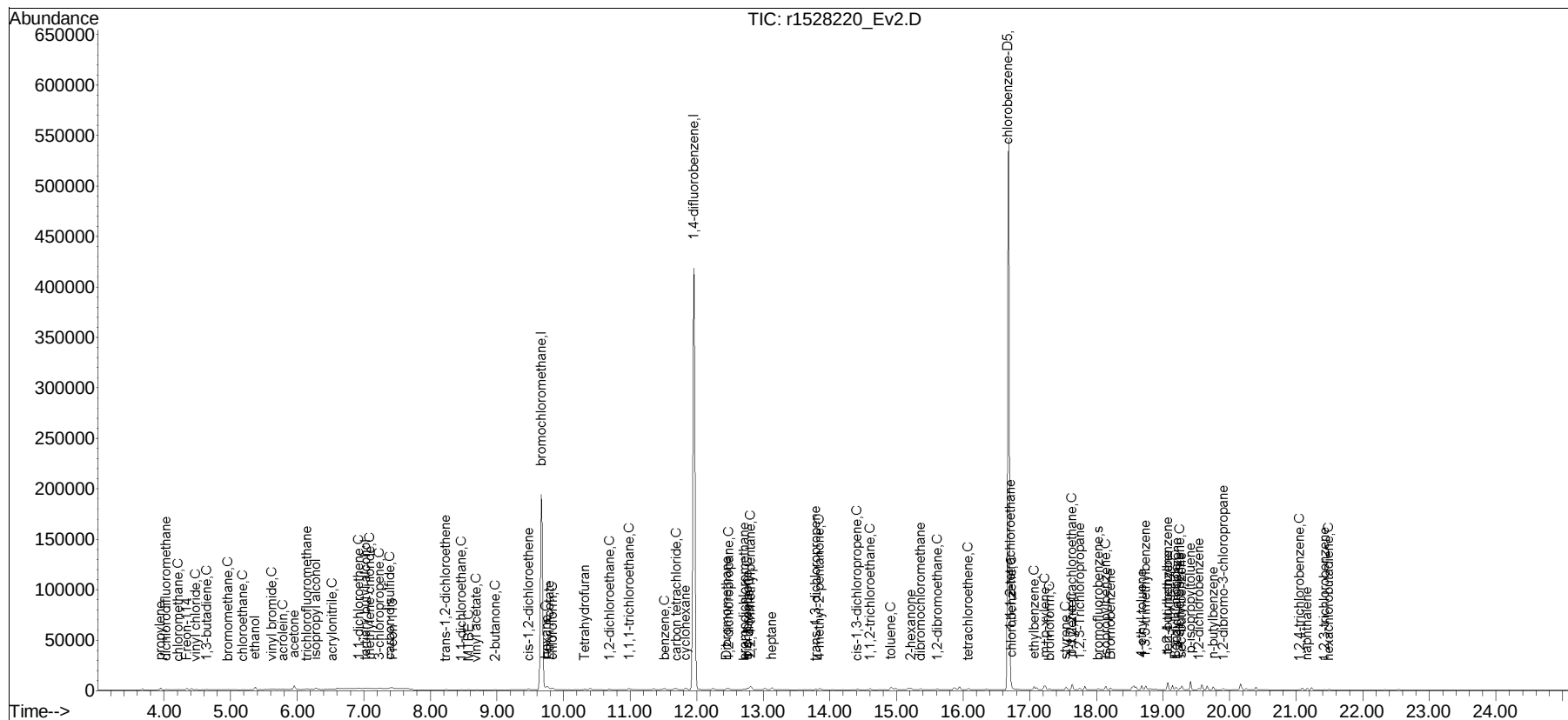
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path   : O:\Forensics\Data\AirLab15\2021\09\0902SIM_I\
Data File  : r1528220_Ev2.D
Acq On     : 2 Sep 2021 8:11 PM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD0.05
Misc       : WG1542872
ALS Vial   : 0 Sample Multiplier: 1
```

Quant Time: Sep 03 14:41:34 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 10:45:38 2021
Response via : Initial Calibration

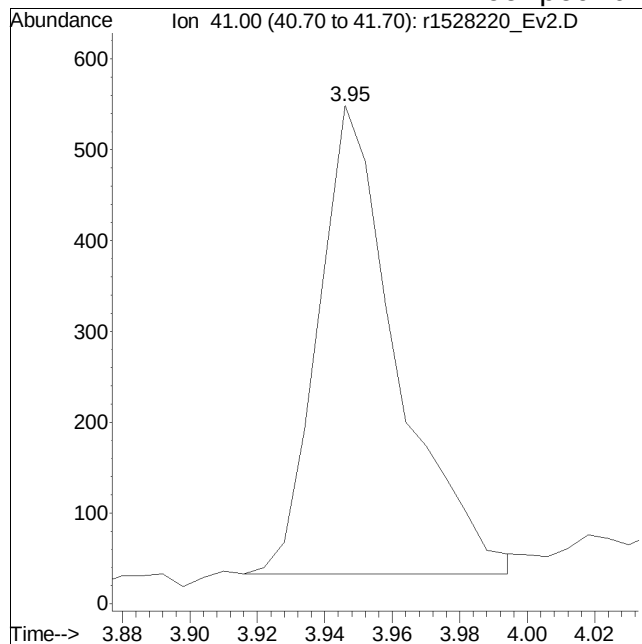
Sub List : Default - All compounds listed1\09\0902SIM_I\r1528225_Ev2.D



Manual Integration/Negative Proof Report

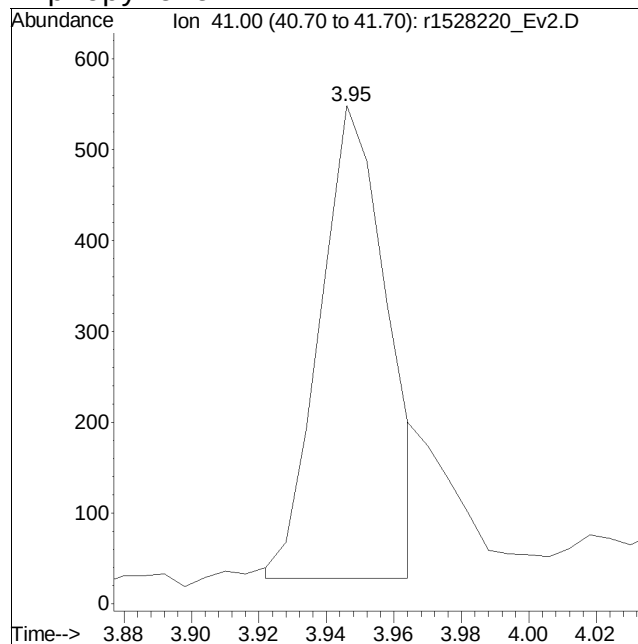
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528220_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:8: 1 Instrument :
Sample : IT015-SIMSTD0.05 Quant Date : 9/3/2021 10:46 am

Compound #2: propylene



Original Peak Response = 841

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

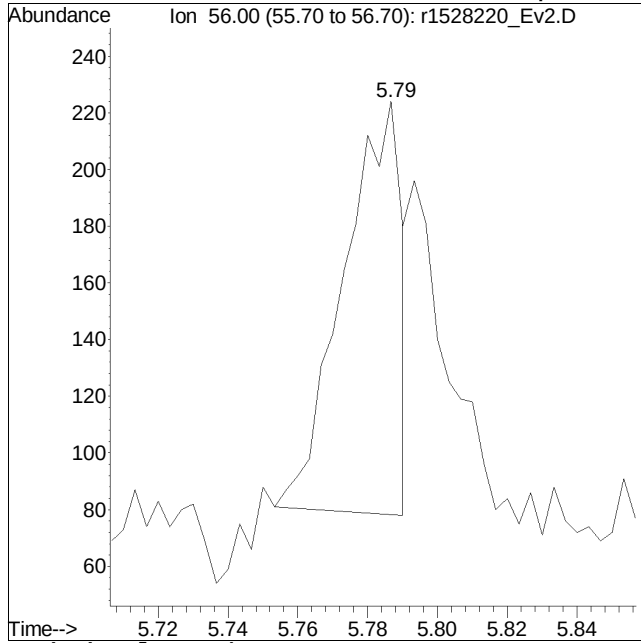


Manual Peak Response = 721 M6

Manual Integration/Negative Proof Report

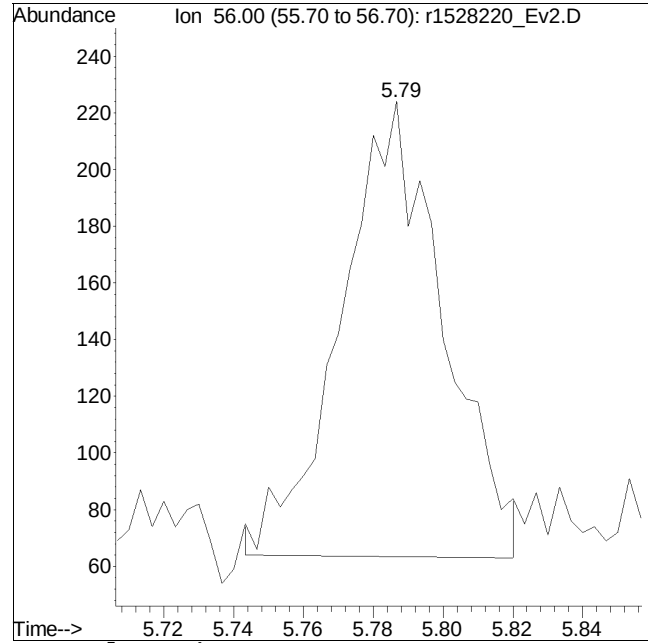
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528220_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:8: 1 Instrument :
Sample : IT015-SIMSTD0.05 Quant Date : 9/3/2021 10:46 am

Compound #12: acrolein



Original Peak Response = 168

M4 = Poor automated baseline construction.

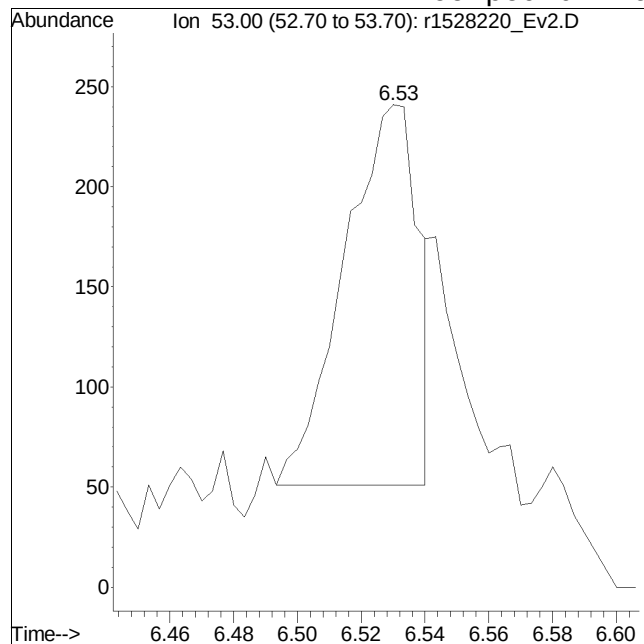


Manual Peak Response = 325 M4

Manual Integration/Negative Proof Report

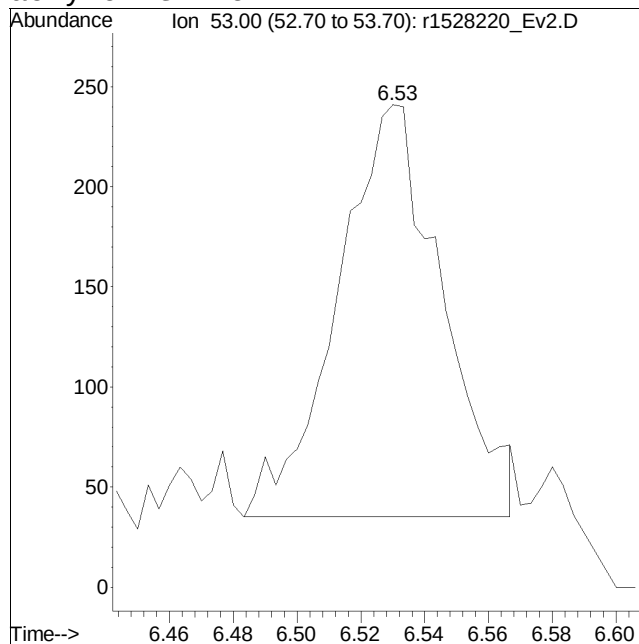
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528220_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:8: 1 Instrument :
Sample : IT015-SIMSTD0.05 Quant Date : 9/3/2021 10:46 am

Compound #16: acrylonitrile



Original Peak Response = 307

M4 = Poor automated baseline construction.

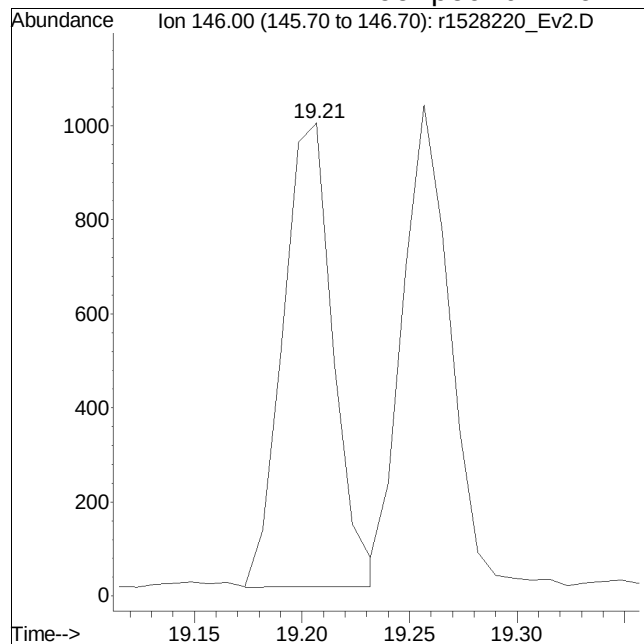


Manual Peak Response = 470 M4

Manual Integration/Negative Proof Report

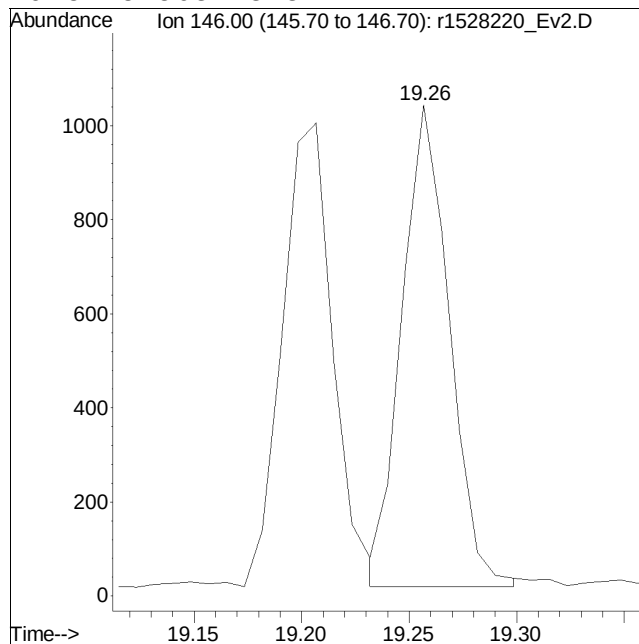
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
 Data File : r1528220_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 9/2/2020 0:8: 1 Instrument :
 Sample : IT015-SIMSTD0.05 Quant Date : 9/3/2021 10:46 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 1608

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Manual Peak Response = 1567 M3

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528221_Ev2.D
 Acq On : 2 Sep 2021 8:49 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.1
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:43:15 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.67	49	215810	10.000	ppbV	0.00
Standard Area = 221893			Recovery =		97.26%	
33) 1,4-difluorobenzene	11.96	114	519306	10.000	ppbV	0.00
Standard Area = 529129			Recovery =		98.14%	
51) chlorobenzene-D5	16.68	54	108387	10.000	ppbV	0.00
Standard Area = 110952			Recovery =		97.69%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.00	65	0d	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.00%#	
53) toluene-D8	14.81	98	218	0.004	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.04%#	
67) bromofluorobenzene	18.02	95	503	0.014	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		0.14%#	
Target Compounds						
					Qvalue	
2) propylene	3.95	41	1263M6	0.128	ppbV	
3) dichlorodifluoromethane	4.02	85	1845	0.114	ppbV	97
4) chloromethane	4.22	50	1012	0.120	ppbV	95
5) Freon-114	4.34	85	2331	0.110	ppbV	97
6) vinyl chloride	4.47	62	1233	0.108	ppbV	97
7) 1,3-butadiene	4.64	54	951	0.106	ppbV	89
8) bromomethane	4.97	94	1007	0.111	ppbV	99
9) chloroethane	5.19	64	617	0.113	ppbV #	87
10) ethanol	5.37	31	5072	0.764	ppbV	97
11) vinyl bromide	5.62	106	880	0.110	ppbV	98
12) acrolein	5.78	56	522	0.116	ppbV #	36
13) acetone	5.95	43	7515	0.578	ppbV #	96
14) trichlorofluoromethane	6.15	101	1607	0.117	ppbV	99
15) isopropyl alcohol	6.28	45	4123	0.266	ppbV #	94
16) acrylonitrile	6.52	53	848M4	0.112	ppbV	
17) 1,1-dichloroethene	6.92	61	1514	0.105	ppbV	94
18) tertiary butyl alcohol	7.03	59	2075	0.111	ppbV	94
19) methylene chloride	7.09	49	1365	0.139	ppbV	100
20) 3-chloropropene	7.23	41	1423	0.107	ppbV	94
21) carbon disulfide	7.39	76	2614	0.107	ppbV #	1
22) Freon 113	7.43	101	1743	0.113	ppbV	98
23) trans-1,2-dichloroethene	8.23	61	1880	0.105	ppbV	93
24) 1,1-dichloroethane	8.47	63	2154	0.107	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528221_Ev2.D
 Acq On : 2 Sep 2021 8:49 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.1
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:43:15 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	8.57	73	2638	0.103	ppbV	#	94
26) vinyl acetate	8.69	43	2657	0.108	ppbV		96
27) 2-butanone	8.97	43	2662	0.106	ppbV	#	97
28) cis-1,2-dichloroethene	9.47	61	1649	0.104	ppbV		99
29) Ethyl Acetate	9.79	61	516	0.110	ppbV	#	53
30) chloroform	9.83	83	1960	0.106	ppbV		97
31) Tetrahydrofuran	10.31	42	1638	0.101	ppbV		97
32) 1,2-dichloroethane	10.69	62	1301	0.111	ppbV	#	93
34) hexane	9.74	57	2563	0.105	ppbV	#	58
36) 1,1,1-trichloroethane	10.98	97	1502	0.104	ppbV	#	93
37) benzene	11.52	78	4286	0.112	ppbV		96
38) carbon tetrachloride	11.69	117	1294	0.103	ppbV		99
39) cyclohexane	11.84	56	2853	0.109	ppbV		97
40) Dibromomethane	12.45	93	1370	0.115	ppbV	#	85
41) 1,2-dichloropropane	12.48	63	1572	0.106	ppbV	#	89
42) bromodichloromethane	12.71	83	2168	0.104	ppbV	#	97
43) 1,4-dioxane	12.78	88	1063	0.105	ppbV		88
44) trichloroethene	12.76	130	1593	0.103	ppbV		91
45) 2,2,4-trimethylpentane	12.81	57	8404	0.104	ppbV	#	97
46) heptane	13.13	43	3001	0.107	ppbV		99
47) cis-1,3-dichloropropene	14.41	75	1479	0.093	ppbV		93
48) 4-methyl-2-pentanone	13.84	43	2932	0.092	ppbV		97
49) trans-1,3-dichloropropene	13.78	75	1715	0.098	ppbV		92
50) 1,1,2-trichloroethane	14.61	97	1414	0.103	ppbV		98
52) toluene	14.92	91	5130	0.111	ppbV		100
54) 2-hexanone	15.21	43	2698	0.088	ppbV		96
55) dibromochloromethane	15.36	129	1760	0.092	ppbV		98
56) 1,2-dibromoethane	15.61	107	1982	0.102	ppbV		99
57) tetrachloroethene	16.07	166	1678	0.104	ppbV		93
58) 1,1,1,2-tetrachloroethane	16.71	131	1395	0.099	ppbV		94
59) chlorobenzene	16.73	112	3418	0.100	ppbV		96
60) ethylbenzene	17.07	91	5980	0.102	ppbV		98
61) m+p-xylene	17.23	91	9709	0.205	ppbV		100
62) bromoform	17.30	173	1314	0.086	ppbV		96
63) styrene	17.54	104	3461	0.097	ppbV		98
64) 1,1,2,2-tetrachloroethane	17.63	83	3854	0.104	ppbV		98
65) o-xylene	17.63	91	4926	0.102	ppbV		98
66) 1,2,3-Trichloropropane	17.75	75	2496	0.099	ppbV		96
68) isopropylbenzene	18.14	105	5502	0.099	ppbV		97
69) Bromobenzene	18.22	77	3336	0.100	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528221_Ev2.D
 Acq On : 2 Sep 2021 8:49 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.1
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:43:15 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.68	105	6127	0.096	ppbV	97
71) 1,3,5-trimethylbenzene	18.74	105	4910	0.099	ppbV	97
72) tert-butylbenzene	19.07	119	5747	0.101	ppbV	97
73) 1,2,4-trimethylbenzene	19.07	105	5123	0.102	ppbV	93
74) Benzyl Chloride	19.19	91	2755	0.073	ppbV	97
75) 1,3-dichlorobenzene	19.20	146	3231	0.099	ppbV	95
76) 1,4-dichlorobenzene	19.26	146	3149M3	0.098	ppbV	
77) sec-butylbenzene	19.28	105	7241	0.099	ppbV	99
78) p-isopropyltoluene	19.41	119	6998	0.098	ppbV	96
79) 1,2-dichlorobenzene	19.54	146	3030	0.097	ppbV	97
80) n-butylbenzene	19.76	91	6075	0.094	ppbV	93
81) 1,2-dibromo-3-chloropr...	19.91	75	1153	0.086	ppbV	92
82) 1,2,4-trichlorobenzene	21.05	180	1844	0.077	ppbV	98
83) naphthalene	21.17	128	6552	0.083	ppbV	100
84) 1,2,3-trichlorobenzene	21.43	180	1885	0.079	ppbV #	93
85) hexachlorobutadiene	21.49	225	1988	0.098	ppbV	96

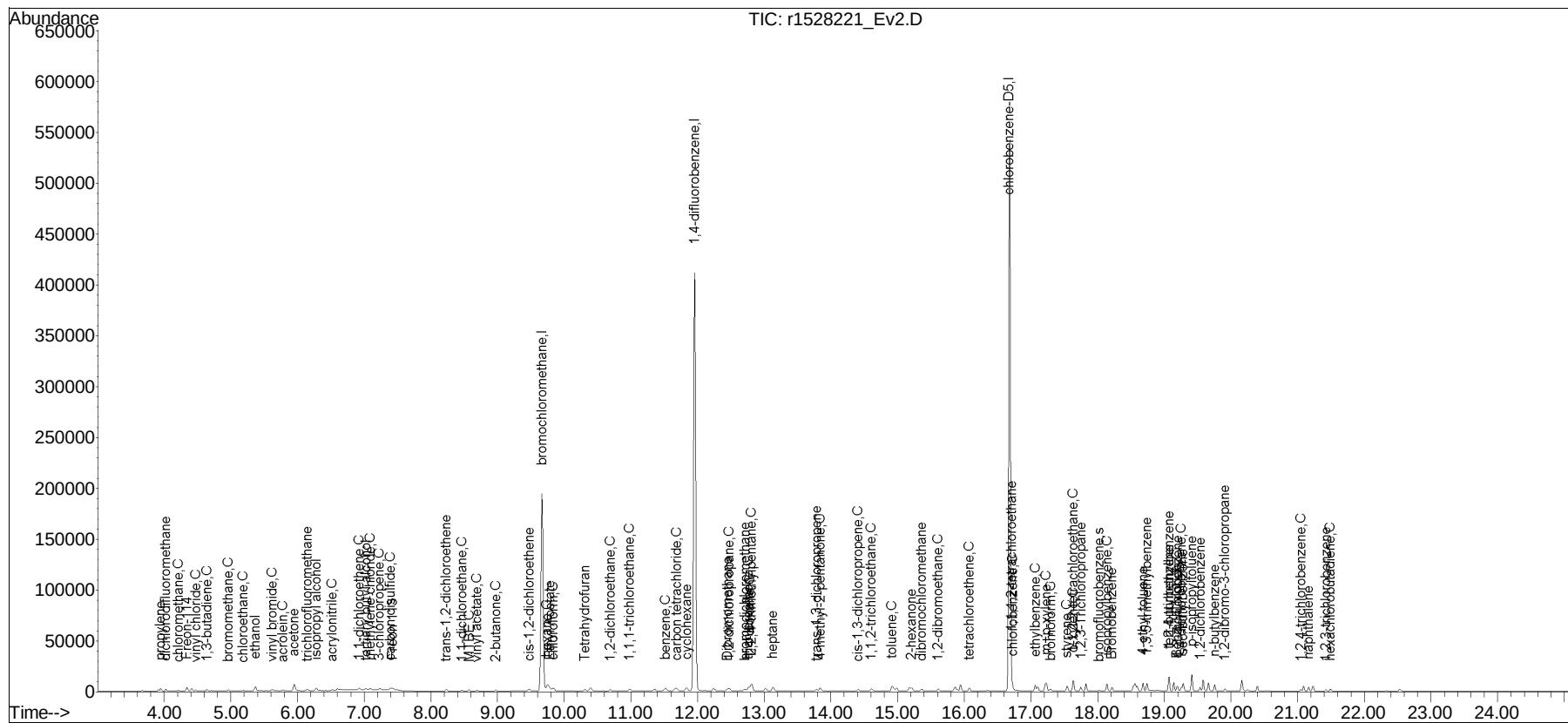
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path : O:\Forensics\Data\AirLab15\2021\09\0902SIM_I\
Data File : r1528221_Ev2.D
Acq On    : 2 Sep 2021 8:49 PM
Operator  : AIRLAB15:RY
Sample    : IT015-SIMSTD0.1
Misc      : WG1542872
ALS Vial  : 0 Sample Multiplier: 1
```

Quant Time: Sep 03 14:43:15 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 10:45:38 2021
Response via : Initial Calibration

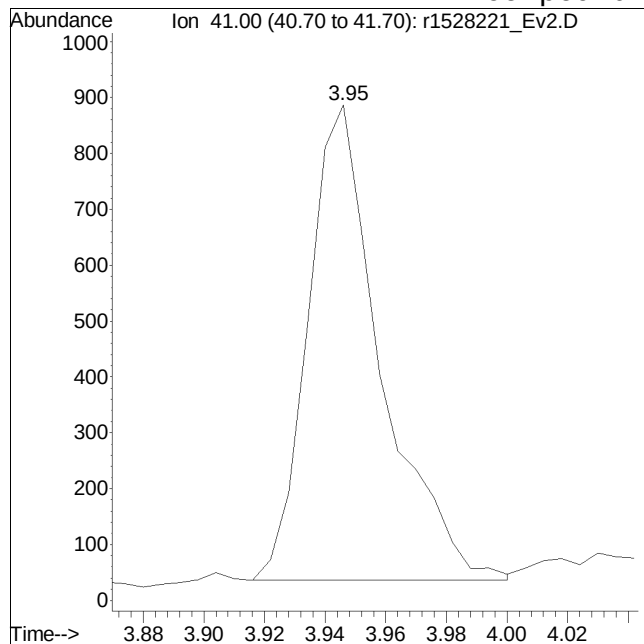
Sub List : Default - All compounds listed1\09\0902SIM_I\r1528225_Ev2.D



Manual Integration/Negative Proof Report

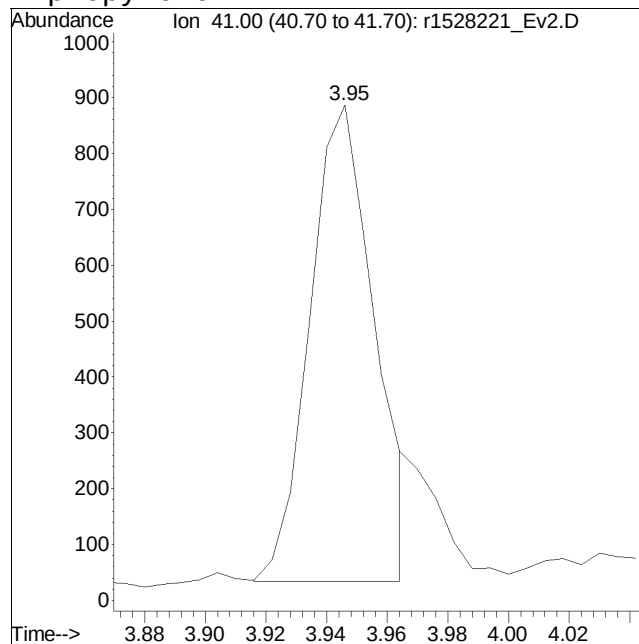
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM15_210902.M
 Data File : r1528221_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 9/2/2020 0:8: 9 Instrument :
 Sample : IT015-SIMSTD0.1 Quant Date : 9/3/2021 10:46 am

Compound #2: propylene



Original Peak Response = 1425

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



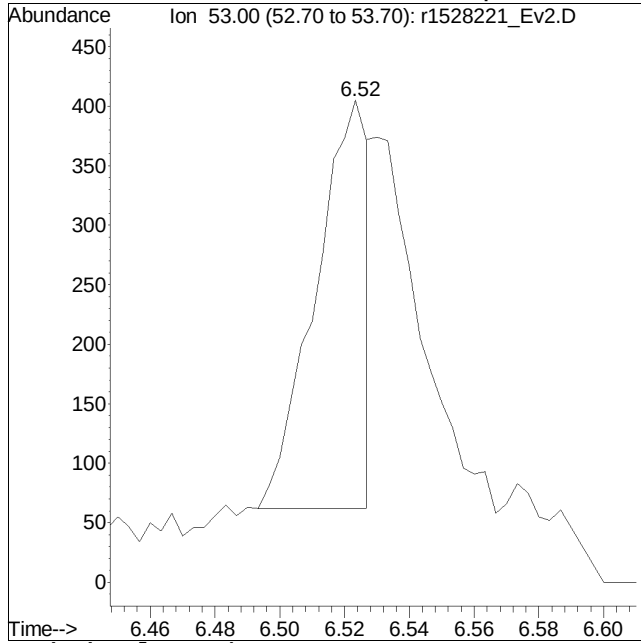
Manual Peak Response = 1263 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

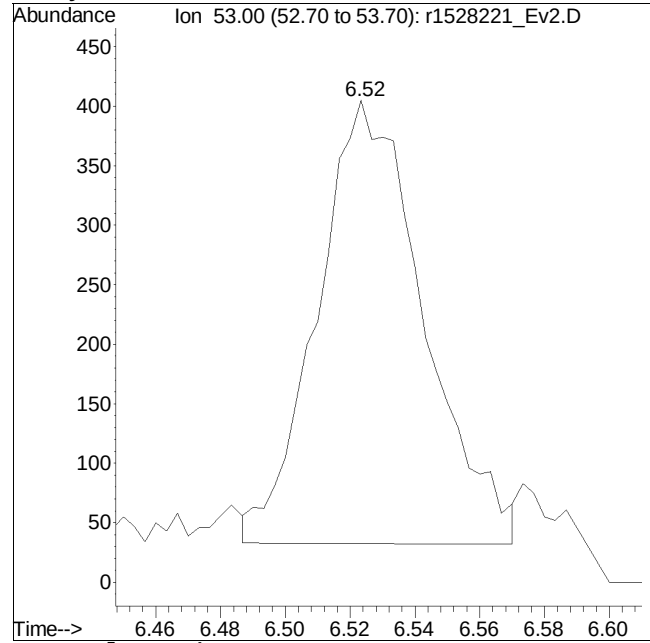
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528221_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:8: 9 Instrument :
Sample : IT015-SIMSTD0.1 Quant Date : 9/3/2021 10:46 am

Compound #16: acrylonitrile



Original Peak Response = 384

M4 = Poor automated baseline construction.

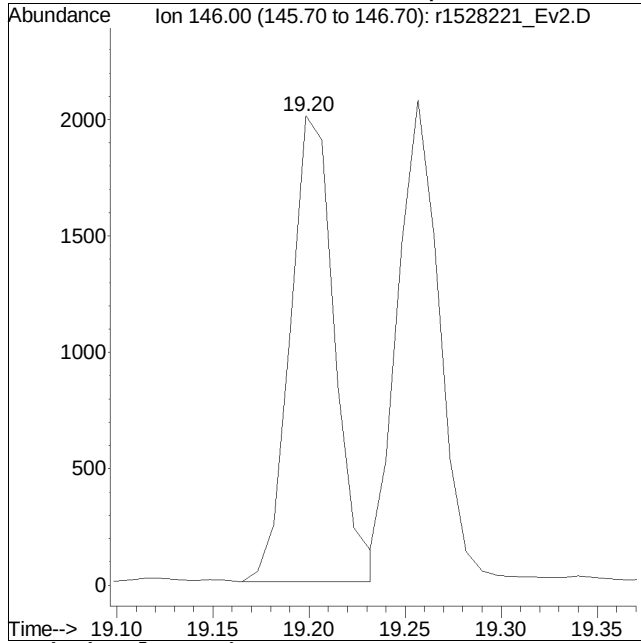


Manual Peak Response = 848 M4

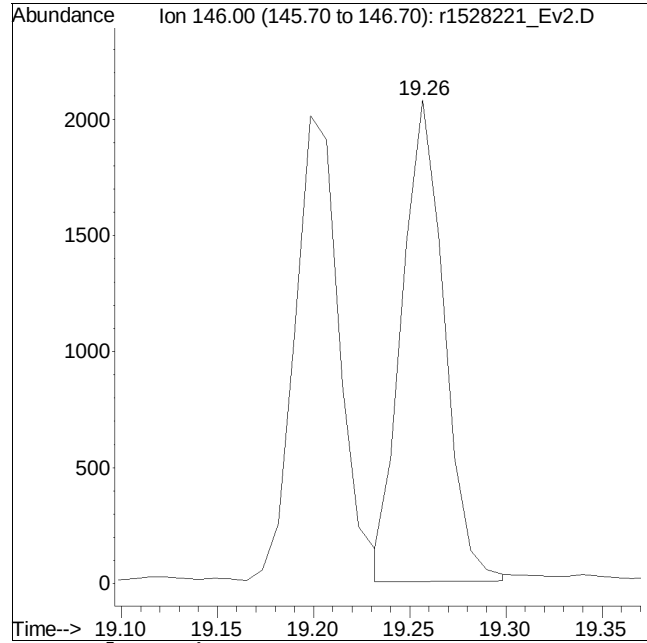
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528221_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:8: 9 Instrument :
Sample : IT015-SIMSTD0.1 Quant Date : 9/3/2021 10:46 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 3231



Manual Peak Response = 3149 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528222_Ev2.D
 Acq On : 2 Sep 2021 9:27 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:43:58 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.67	49	216177	10.000	ppbV	0.00
Standard Area = 221893			Recovery =		97.42%	
33) 1,4-difluorobenzene	11.96	114	515292	10.000	ppbV	0.00
Standard Area = 529129			Recovery =		97.38%	
51) chlorobenzene-D5	16.68	54	107908	10.000	ppbV	0.00
Standard Area = 110952			Recovery =		97.26%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.56	65	135610	10.073	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.73%	
53) toluene-D8	14.81	98	521171	10.096	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.96%	
67) bromofluorobenzene	18.02	95	341353	9.345	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		93.45%	
Target Compounds						
					Qvalue	
2) propylene	3.94	41	2460M6	0.249	ppbV	
3) dichlorodifluoromethane	4.02	85	3676	0.228	ppbV	97
4) chloromethane	4.21	50	1923	0.227	ppbV	97
5) Freon-114	4.34	85	4860	0.228	ppbV	98
6) vinyl chloride	4.47	62	2622	0.228	ppbV	98
7) 1,3-butadiene	4.64	54	1980	0.220	ppbV	90
8) bromomethane	4.96	94	2122	0.233	ppbV	99
9) chloroethane	5.18	64	1263	0.232	ppbV	96
10) ethanol	5.36	31	12389	1.864	ppbV	100
11) vinyl bromide	5.62	106	1791	0.224	ppbV	98
12) acrolein	5.78	56	982	0.219	ppbV	97
13) acetone	5.94	43	16018	1.231	ppbV	96
14) trichlorofluoromethane	6.15	101	3079	0.224	ppbV	99
15) isopropyl alcohol	6.27	45	9362	0.602	ppbV	99
16) acrylonitrile	6.52	53	1725	0.227	ppbV	99
17) 1,1-dichloroethene	6.92	61	3338	0.230	ppbV	98
18) tertiary butyl alcohol	7.01	59	4136	0.220	ppbV	98
19) methylene chloride	7.09	49	2435	0.248	ppbV	99
20) 3-chloropropene	7.23	41	2929	0.221	ppbV	96
21) carbon disulfide	7.39	76	5361	0.218	ppbV #	1
22) Freon 113	7.43	101	3544	0.230	ppbV	99
23) trans-1,2-dichloroethene	8.23	61	3936	0.219	ppbV	94
24) 1,1-dichloroethane	8.47	63	4593	0.228	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528222_Ev2.D
 Acq On : 2 Sep 2021 9:27 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:43:58 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.57	73	5603	0.218	ppbV	98
26) vinyl acetate	8.69	43	5362	0.217	ppbV	99
27) 2-butanone	8.97	43	5551	0.220	ppbV	98
28) cis-1,2-dichloroethene	9.47	61	3567	0.224	ppbV	99
29) Ethyl Acetate	9.78	61	1047	0.223	ppbV	76
30) chloroform	9.83	83	4186	0.226	ppbV	99
31) Tetrahydrofuran	10.30	42	3435	0.212	ppbV	97
32) 1,2-dichloroethane	10.68	62	2540	0.216	ppbV	96
34) hexane	9.74	57	5397	0.223	ppbV #	73
36) 1,1,1-trichloroethane	10.98	97	3253	0.227	ppbV	97
37) benzene	11.52	78	10728	0.281	ppbV	99
38) carbon tetrachloride	11.69	117	2768	0.221	ppbV	99
39) cyclohexane	11.83	56	5940	0.228	ppbV	96
40) Dibromomethane	12.44	93	2833	0.240	ppbV #	99
41) 1,2-dichloropropane	12.48	63	3397	0.231	ppbV	95
42) bromodichloromethane	12.71	83	4399	0.212	ppbV	99
43) 1,4-dioxane	12.77	88	2170	0.216	ppbV	89
44) trichloroethene	12.76	130	3362	0.220	ppbV	95
45) 2,2,4-trimethylpentane	12.81	57	17931	0.224	ppbV	100
46) heptane	13.13	43	6166	0.221	ppbV	96
47) cis-1,3-dichloropropene	14.41	75	3251	0.207	ppbV	97
48) 4-methyl-2-pentanone	13.83	43	6522	0.207	ppbV	97
49) trans-1,3-dichloropropene	13.78	75	3713	0.214	ppbV	99
50) 1,1,2-trichloroethane	14.61	97	2997	0.220	ppbV	97
52) toluene	14.92	91	12898	0.281	ppbV	99
54) 2-hexanone	15.21	43	5988	0.196	ppbV	96
55) dibromochloromethane	15.36	129	3783	0.199	ppbV	96
56) 1,2-dibromoethane	15.61	107	4177	0.216	ppbV	99
57) tetrachloroethene	16.07	166	3514	0.219	ppbV	93
58) 1,1,1,2-tetrachloroethane	16.71	131	2955	0.211	ppbV	97
59) chlorobenzene	16.72	112	7411	0.217	ppbV	98
60) ethylbenzene	17.07	91	12656	0.217	ppbV	98
61) m+p-xylene	17.22	91	20369	0.433	ppbV	97
62) bromoform	17.29	173	2640	0.173	ppbV	96
63) styrene	17.54	104	7407	0.208	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.63	83	7916	0.214	ppbV	99
65) o-xylene	17.63	91	10201	0.213	ppbV	98
66) 1,2,3-Trichloropropane	17.75	75	5309	0.213	ppbV	99
68) isopropylbenzene	18.14	105	11811	0.213	ppbV	98
69) Bromobenzene	18.22	77	7072	0.213	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528222_Ev2.D
 Acq On : 2 Sep 2021 9:27 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:43:58 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.68	105	13132	0.208	ppbV	98
71) 1,3,5-trimethylbenzene	18.74	105	10377	0.211	ppbV	99
72) tert-butylbenzene	19.07	119	11911	0.211	ppbV	99
73) 1,2,4-trimethylbenzene	19.07	105	10677	0.213	ppbV	94
74) Benzyl Chloride	19.19	91	5739	0.153	ppbV	99
75) 1,3-dichlorobenzene	19.20	146	6652	0.205	ppbV	93
76) 1,4-dichlorobenzene	19.26	146	6300	0.196	ppbV	94
77) sec-butylbenzene	19.28	105	15115	0.208	ppbV	97
78) p-isopropyltoluene	19.41	119	14724	0.208	ppbV	97
79) 1,2-dichlorobenzene	19.54	146	6030	0.194	ppbV	96
80) n-butylbenzene	19.76	91	12635	0.197	ppbV	94
81) 1,2-dibromo-3-chloropr...	19.91	75	2385	0.180	ppbV	94
82) 1,2,4-trichlorobenzene	21.05	180	3625	0.153	ppbV	98
83) naphthalene	21.17	128	13388	0.171	ppbV	100
84) 1,2,3-trichlorobenzene	21.43	180	3538	0.148	ppbV	96
85) hexachlorobutadiene	21.49	225	3494	0.174	ppbV	98

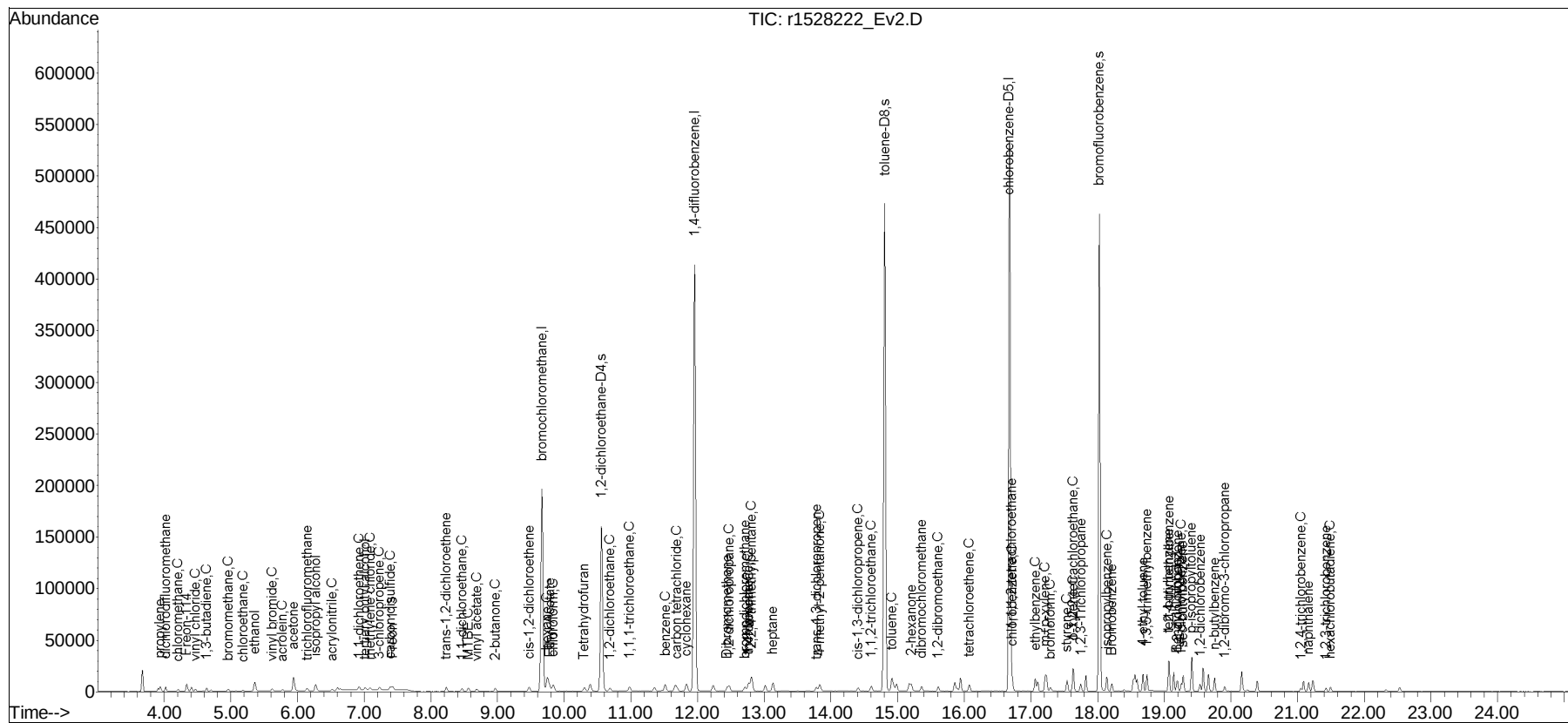
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : O:\Forensics\Data\AirLab15\2021\09\0902SIM_I\
Data File  : r1528222_Ev2.D
Acq On     : 2 Sep 2021 9:27 PM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD0.2
Misc       : WG1542872
ALS Vial   : 0 Sample Multiplier: 1
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Quant Time: Sep 03 14:43:58 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 10:45:38 2021
Response via : Initial Calibration

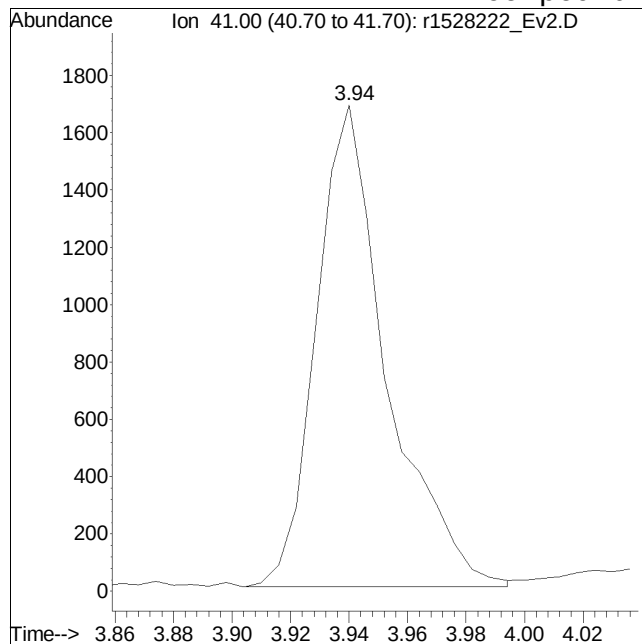
Sub List : Default - All compounds listed1\09\0902SIM_I\r1528225_Ev2.D



Manual Integration/Negative Proof Report

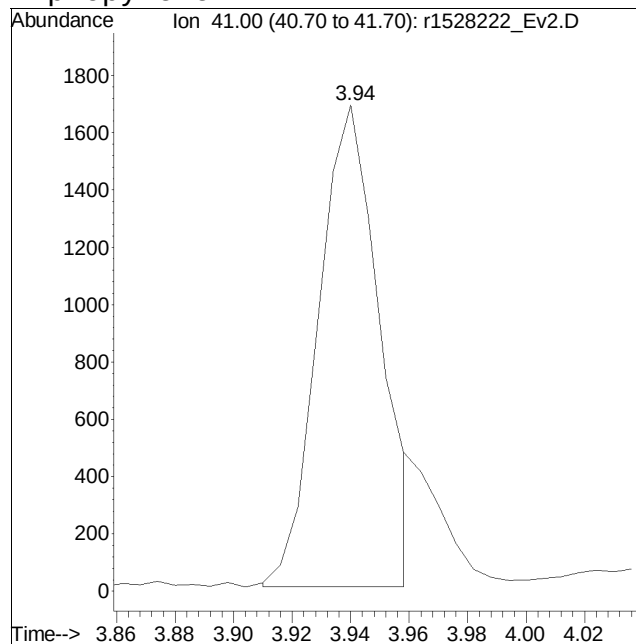
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM15_210902.M
Data File : r1528222_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:9: 7 Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 9/3/2021 10:46 am

Compound #2: propylene



Original Peak Response = 2813

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 2460 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528223_Ev2.D
 Acq On : 2 Sep 2021 10:06 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:45:23 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.67	49	219080	10.000	ppbV	0.00
Standard Area = 221893			Recovery =		98.73%	
33) 1,4-difluorobenzene	11.96	114	516552	10.000	ppbV	0.00
Standard Area = 529129			Recovery =		97.62%	
51) chlorobenzene-D5	16.68	54	107936	10.000	ppbV	0.00
Standard Area = 110952			Recovery =		97.28%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.56	65	135503	10.041	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.41%	
53) toluene-D8	14.81	98	515340	9.980	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.80%	
67) bromofluorobenzene	18.02	95	351344	9.616	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.16%	
Target Compounds						
					Qvalue	
2) propylene	3.94	41	5997M6	0.600	ppbV	
3) dichlorodifluoromethane	4.02	85	9735	0.595	ppbV	100
4) chloromethane	4.21	50	5094	0.593	ppbV	99
5) Freon-114	4.34	85	12825	0.595	ppbV	98
6) vinyl chloride	4.47	62	6707	0.577	ppbV	98
7) 1,3-butadiene	4.64	54	5271	0.578	ppbV	96
8) bromomethane	4.96	94	5437	0.588	ppbV	97
9) chloroethane	5.18	64	3266	0.592	ppbV	100
10) ethanol	5.36	31	27323	4.055	ppbV	100
11) vinyl bromide	5.62	106	4587	0.565	ppbV	95
12) acrolein	5.77	56	2706	0.594	ppbV	98
13) acetone	5.94	43	39790	3.017	ppbV	100
14) trichlorofluoromethane	6.14	101	8159	0.585	ppbV	99
15) isopropyl alcohol	6.27	45	23173	1.471	ppbV	99
16) acrylonitrile	6.52	53	4496	0.583	ppbV	96
17) 1,1-dichloroethene	6.92	61	8543	0.582	ppbV	98
18) tertiary butyl alcohol	7.01	59	10840	0.569	ppbV	99
19) methylene chloride	7.09	49	6073	0.610	ppbV	97
20) 3-chloropropene	7.23	41	9549	0.710	ppbV	98
21) carbon disulfide	7.39	76	18163	0.730	ppbV #	88
22) Freon 113	7.43	101	10100	0.647	ppbV	96
23) trans-1,2-dichloroethene	8.23	61	10436	0.573	ppbV	95
24) 1,1-dichloroethane	8.47	63	12070	0.590	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528223_Ev2.D
 Acq On : 2 Sep 2021 10:06 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:45:23 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.56	73	14842	0.569	ppbV	99
26) vinyl acetate	8.69	43	13607	0.543	ppbV	99
27) 2-butanone	8.96	43	14444	0.565	ppbV	99
28) cis-1,2-dichloroethene	9.47	61	9308	0.577	ppbV	99
29) Ethyl Acetate	9.78	61	2645	0.557	ppbV	72
30) chloroform	9.83	83	11001	0.587	ppbV	98
31) Tetrahydrofuran	10.29	42	9097	0.554	ppbV	97
32) 1,2-dichloroethane	10.68	62	6913	0.581	ppbV	99
34) hexane	9.74	57	14248	0.587	ppbV	79
36) 1,1,1-trichloroethane	10.98	97	8325	0.579	ppbV	96
37) benzene	11.52	78	24312	0.636	ppbV	100
38) carbon tetrachloride	11.69	117	7241	0.578	ppbV	100
39) cyclohexane	11.84	56	15400	0.589	ppbV	99
40) Dibromomethane	12.45	93	6861	0.580	ppbV #	99
41) 1,2-dichloropropane	12.48	63	8538	0.580	ppbV	97
42) bromodichloromethane	12.71	83	11516	0.553	ppbV	98
43) 1,4-dioxane	12.76	88	5523	0.549	ppbV	96
44) trichloroethene	12.76	130	8703	0.567	ppbV	98
45) 2,2,4-trimethylpentane	12.81	57	47536	0.592	ppbV	99
46) heptane	13.13	43	15961	0.572	ppbV	99
47) cis-1,3-dichloropropene	14.41	75	8425	0.534	ppbV	97
48) 4-methyl-2-pentanone	13.82	43	17556	0.556	ppbV	98
49) trans-1,3-dichloropropene	13.78	75	9580	0.550	ppbV	99
50) 1,1,2-trichloroethane	14.61	97	7896	0.578	ppbV	98
52) toluene	14.92	91	29466	0.642	ppbV	99
54) 2-hexanone	15.20	43	16198	0.531	ppbV	97
55) dibromochloromethane	15.36	129	10041	0.528	ppbV	98
56) 1,2-dibromoethane	15.61	107	10895	0.563	ppbV	98
57) tetrachloroethene	16.07	166	9343	0.583	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.71	131	7812	0.557	ppbV	99
59) chlorobenzene	16.73	112	19514	0.572	ppbV	95
60) ethylbenzene	17.07	91	33204	0.569	ppbV	99
61) m+p-xylene	17.23	91	54122	1.150	ppbV	100
62) bromoform	17.29	173	7280	0.477	ppbV	99
63) styrene	17.54	104	19634	0.551	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.63	83	21155	0.571	ppbV	100
65) o-xylene	17.63	91	27422	0.572	ppbV	98
66) 1,2,3-Trichloropropane	17.75	75	14281	0.572	ppbV	99
68) isopropylbenzene	18.14	105	31768	0.573	ppbV	98
69) Bromobenzene	18.22	77	18824	0.566	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528223_Ev2.D
 Acq On : 2 Sep 2021 10:06 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:45:23 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.68	105	35929	0.568	ppbV	98
71) 1,3,5-trimethylbenzene	18.74	105	27260	0.553	ppbV	98
72) tert-butylbenzene	19.07	119	32303	0.571	ppbV	98
73) 1,2,4-trimethylbenzene	19.07	105	28521	0.569	ppbV	94
74) Benzyl Chloride	19.19	91	16446	0.438	ppbV	97
75) 1,3-dichlorobenzene	19.20	146	18012	0.556	ppbV	97
76) 1,4-dichlorobenzene	19.26	146	16910	0.526	ppbV	96
77) sec-butylbenzene	19.28	105	40947	0.564	ppbV	98
78) p-isopropyltoluene	19.41	119	39906	0.564	ppbV	98
79) 1,2-dichlorobenzene	19.53	146	16814	0.541	ppbV	94
80) n-butylbenzene	19.76	91	34829	0.543	ppbV	94
81) 1,2-dibromo-3-chloropr...	19.91	75	6546	0.493	ppbV	95
82) 1,2,4-trichlorobenzene	21.05	180	10537	0.443	ppbV	98
83) naphthalene	21.17	128	38899	0.496	ppbV	99
84) 1,2,3-trichlorobenzene	21.43	180	10563	0.443	ppbV	98
85) hexachlorobutadiene	21.49	225	10295	0.511	ppbV	97

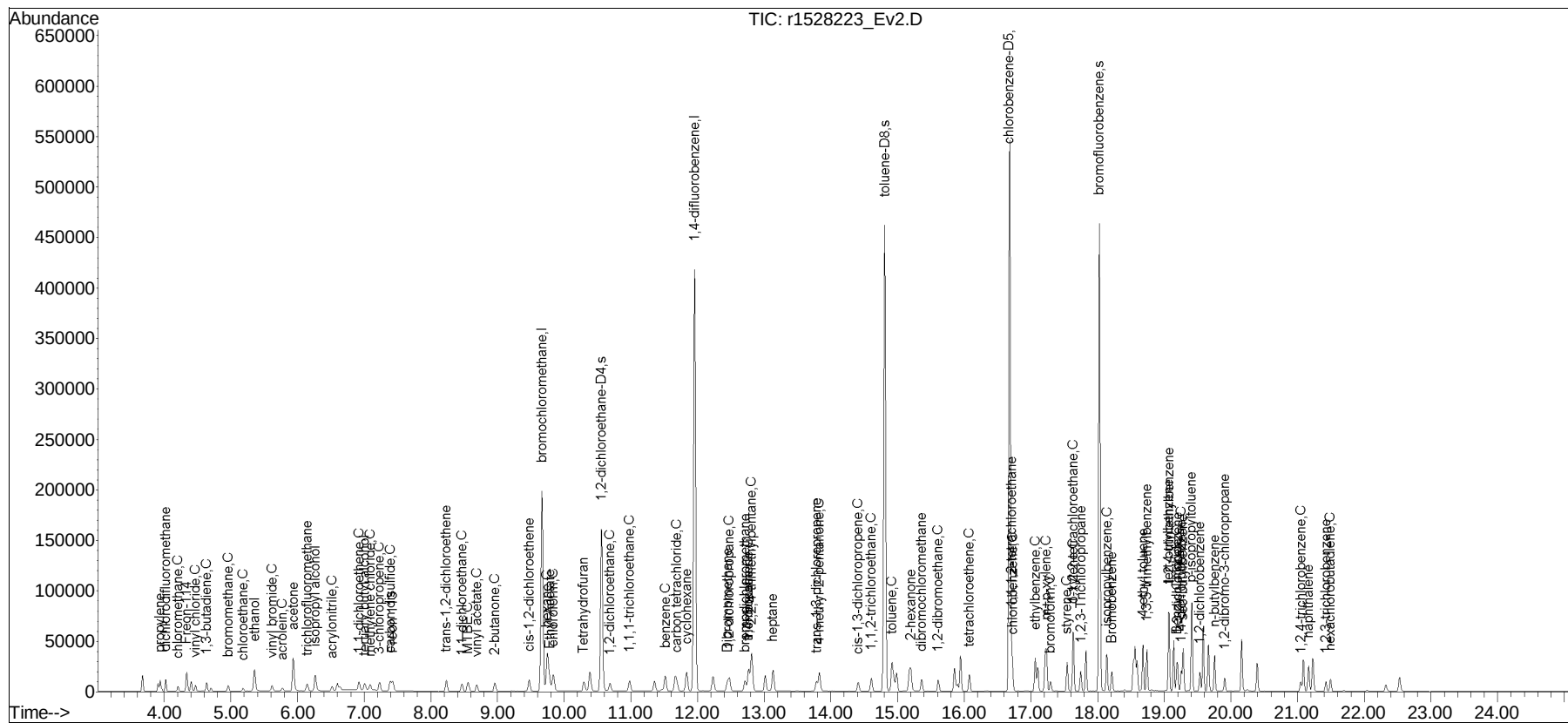
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path : O:\Forensics\Data\AirLab15\2021\09\0902SIM_I\
Data File : r1528223_Ev2.D
Acq On    : 2 Sep 2021 10:06 PM
Operator  : AIRLAB15:RY
Sample    : IT015-SIMSTD0.5
Misc      : WG1542872
ALS Vial  : 0      Sample Multiplier: 1
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Quant Time: Sep 03 14:45:23 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 10:45:38 2021
Response via : Initial Calibration

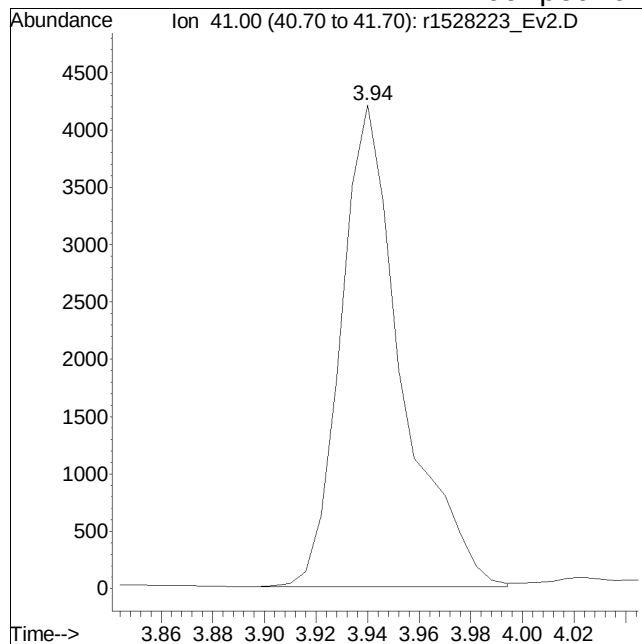
Sub List : Default - All compounds listed1\09\0902SIM_I\r1528225_Ev2.D



Manual Integration/Negative Proof Report

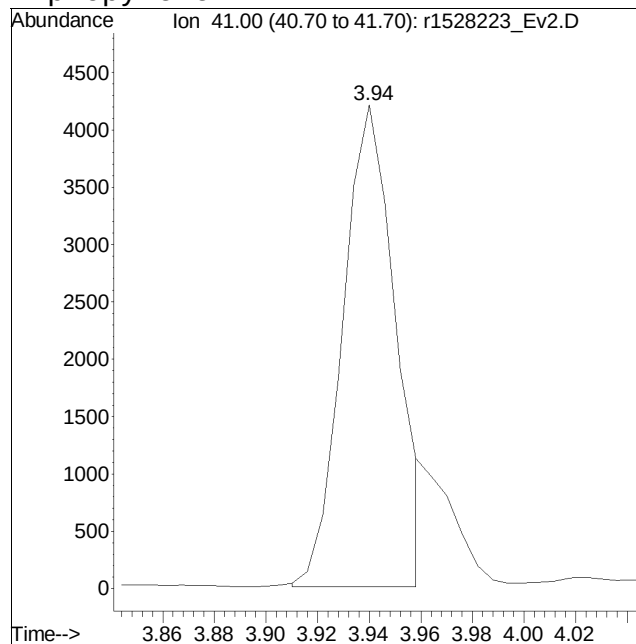
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM15_210902.M
Data File : r1528223_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:0: 6 Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 9/3/2021 10:46 am

Compound #2: propylene



Original Peak Response = 6910

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 5997 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528224_Ev2.D
 Acq On : 2 Sep 2021 10:47 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:48:14 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.67	49	220077	10.000	ppbV	0.00
Standard Area = 221893			Recovery =		99.18%	
33) 1,4-difluorobenzene	11.96	114	525390	10.000	ppbV	0.00
Standard Area = 529129			Recovery =		99.29%	
51) chlorobenzene-D5	16.68	54	110849	10.000	ppbV	0.00
Standard Area = 110952			Recovery =		99.91%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.56	65	135306	9.858	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.58%	
53) toluene-D8	14.81	98	518190	9.772	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		97.72%	
67) bromofluorobenzene	18.02	95	367283	9.788	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		97.88%	
Target Compounds					Qvalue	
2) propylene	3.94	41	12322M6	1.227	ppbV	
3) dichlorodifluoromethane	4.02	85	19529	1.188	ppbV	99
4) chloromethane	4.20	50	9833	1.140	ppbV	100
5) Freon-114	4.34	85	25128	1.160	ppbV	99
6) vinyl chloride	4.47	62	13595	1.163	ppbV	99
7) 1,3-butadiene	4.64	54	10472	1.144	ppbV	98
8) bromomethane	4.96	94	10931	1.177	ppbV	98
9) chloroethane	5.18	64	6519	1.176	ppbV	99
10) ethanol	5.35	31	47123	6.963	ppbV	100
11) vinyl bromide	5.62	106	9327	1.144	ppbV	98
12) acrolein	5.77	56	5331	1.165	ppbV	98
13) acetone	5.93	43	80803	6.099	ppbV	100
14) trichlorofluoromethane	6.14	101	16615	1.186	ppbV	99
15) isopropyl alcohol	6.26	45	47109	2.977	ppbV	100
16) acrylonitrile	6.52	53	8938	1.154	ppbV	98
17) 1,1-dichloroethene	6.92	61	17197	1.166	ppbV	99
18) tertiary butyl alcohol	7.00	59	21829	1.140	ppbV	99
19) methylene chloride	7.09	49	11912	1.192	ppbV	99
20) 3-chloropropene	7.23	41	15346	1.136	ppbV	98
21) carbon disulfide	7.39	76	28720	1.149	ppbV #	80
22) Freon 113	7.43	101	19385	1.237	ppbV	98
23) trans-1,2-dichloroethene	8.23	61	21007	1.149	ppbV	95
24) 1,1-dichloroethane	8.47	63	24088	1.173	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528224_Ev2.D
 Acq On : 2 Sep 2021 10:47 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:48:14 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.55	73	30155	1.151	ppbV	99
26) vinyl acetate	8.68	43	28506	1.133	ppbV	99
27) 2-butanone	8.95	43	29238	1.138	ppbV	99
28) cis-1,2-dichloroethene	9.47	61	18936	1.168	ppbV	100
29) Ethyl Acetate	9.78	61	5508	1.155	ppbV	85
30) chloroform	9.83	83	22201	1.178	ppbV	99
31) Tetrahydrofuran	10.28	42	18551	1.126	ppbV	97
32) 1,2-dichloroethane	10.68	62	14135	1.182	ppbV	99
34) hexane	9.74	57	28437	1.151	ppbV	88
36) 1,1,1-trichloroethane	10.98	97	16964	1.160	ppbV	97
37) benzene	11.52	78	47154	1.213	ppbV	100
38) carbon tetrachloride	11.69	117	14376	1.128	ppbV	97
39) cyclohexane	11.84	56	30767	1.158	ppbV	99
40) Dibromomethane	12.44	93	14016	1.165	ppbV #	100
41) 1,2-dichloropropane	12.48	63	17442	1.165	ppbV	99
42) bromodichloromethane	12.71	83	23690	1.118	ppbV	100
43) 1,4-dioxane	12.76	88	11254	1.100	ppbV	98
44) trichloroethene	12.76	130	17987	1.153	ppbV	100
45) 2,2,4-trimethylpentane	12.81	57	97056	1.189	ppbV	100
46) heptane	13.13	43	32486	1.144	ppbV	100
47) cis-1,3-dichloropropene	14.41	75	17687	1.102	ppbV	97
48) 4-methyl-2-pentanone	13.82	43	36025	1.122	ppbV	100
49) trans-1,3-dichloropropene	13.78	75	20015	1.130	ppbV	99
50) 1,1,2-trichloroethane	14.61	97	16084	1.157	ppbV	98
52) toluene	14.92	91	56279	1.194	ppbV	100
54) 2-hexanone	15.19	43	34178	1.090	ppbV	97
55) dibromochloromethane	15.36	129	20680	1.059	ppbV	98
56) 1,2-dibromoethane	15.61	107	22581	1.137	ppbV	98
57) tetrachloroethene	16.07	166	18761	1.139	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.71	131	15910	1.105	ppbV	98
59) chlorobenzene	16.73	112	40161	1.147	ppbV	96
60) ethylbenzene	17.07	91	68188	1.138	ppbV	98
61) m+p-xylene	17.23	91	110734	2.291	ppbV	100
62) bromoform	17.29	173	15333	0.979	ppbV	99
63) styrene	17.54	104	40937	1.118	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.63	83	43622	1.146	ppbV	99
65) o-xylene	17.63	91	56178	1.140	ppbV	98
66) 1,2,3-Trichloropropane	17.74	75	29500	1.150	ppbV	100
68) isopropylbenzene	18.14	105	64375	1.130	ppbV	98
69) Bromobenzene	18.22	77	38666	1.132	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528224_Ev2.D
 Acq On : 2 Sep 2021 10:47 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:48:14 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.68	105	72955	1.123	ppbV	99
71) 1,3,5-trimethylbenzene	18.74	105	54214	1.072	ppbV	97
72) tert-butylbenzene	19.07	119	66493	1.145	ppbV	98
73) 1,2,4-trimethylbenzene	19.07	105	58449	1.135	ppbV	99
74) Benzyl Chloride	19.18	91	36710	0.951	ppbV	99
75) 1,3-dichlorobenzene	19.20	146	36960	1.110	ppbV	99
76) 1,4-dichlorobenzene	19.26	146	36686	1.111	ppbV	97
77) sec-butylbenzene	19.28	105	84124	1.129	ppbV	100
78) p-isopropyltoluene	19.41	119	82230	1.131	ppbV	99
79) 1,2-dichlorobenzene	19.53	146	35208	1.104	ppbV	97
80) n-butylbenzene	19.76	91	72785	1.104	ppbV	94
81) 1,2-dibromo-3-chloropr...	19.91	75	14298	1.048	ppbV	97
82) 1,2,4-trichlorobenzene	21.04	180	23836	0.976	ppbV	98
83) naphthalene	21.17	128	85438	1.061	ppbV	99
84) 1,2,3-trichlorobenzene	21.43	180	23562	0.961	ppbV	98
85) hexachlorobutadiene	21.49	225	21611	1.045	ppbV	98

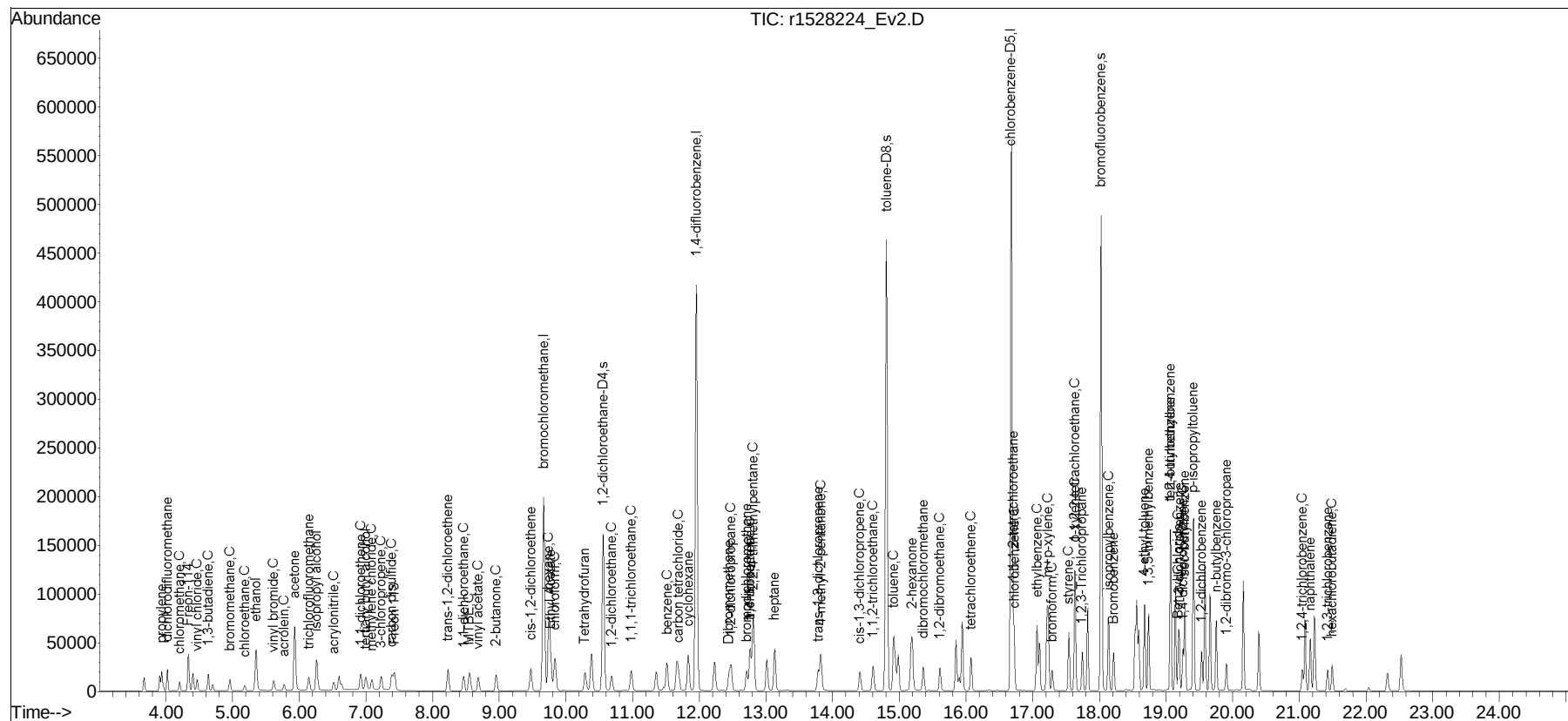
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AirLab15\2021\09\0902SIM_I\
 Data File : r1528224_Ev2.D
 Acq On : 2 Sep 2021 10:47 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:48:14 2021
 Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

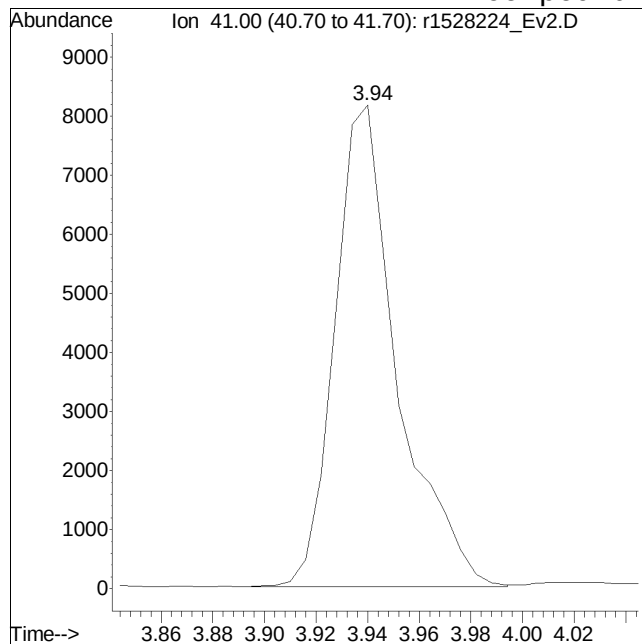
Sub List : Default - All compounds listed 1\09\0902SIM_I\r1528225_Ev2.D



Manual Integration/Negative Proof Report

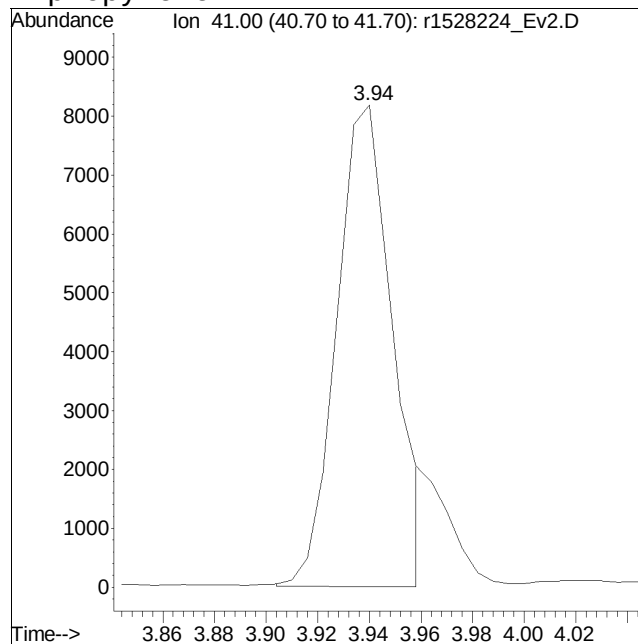
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM15_210902.M
Data File : r1528224_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:0: 7 Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 9/3/2021 10:46 am

Compound #2: propylene



Original Peak Response = 13709

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 12322 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528225_Ev2.D
 Acq On : 2 Sep 2021 11:26 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 10:44:59 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 06:59:02 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.67	49	221893	10.000	ppbV	0.00
Standard Area = 221893			Recovery =	100.00%		
33) 1,4-difluorobenzene	11.96	114	529129	10.000	ppbV	0.00
Standard Area = 529129			Recovery =	100.00%		
51) chlorobenzene-D5	16.68	54	110952	10.000	ppbV	0.00
Standard Area = 110952			Recovery =	100.00%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.56	65	138238	11.233	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.33%		
53) toluene-D8	14.81	98	530775	8.835	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	88.35%		
67) bromofluorobenzene	18.02	95	375583	9.518	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.18%		
Target Compounds						
					Qvalue	
2) propylene	3.93	41	50620M6	3.579	ppbV	
3) dichlorodifluoromethane	4.02	85	82859	5.268	ppbV	100
4) chloromethane	4.20	50	43469	3.764	ppbV	95
5) Freon-114	4.34	85	109182	4.322	ppbV	95
6) vinyl chloride	4.47	62	58907	4.068	ppbV	97
7) 1,3-butadiene	4.64	54	46145	4.282	ppbV #	77
8) bromomethane	4.96	94	46817	4.227	ppbV	99
9) chloroethane	5.18	64	27951	3.906	ppbV	100
10) ethanol	5.35	31	170595	22.406	ppbV #	66
11) vinyl bromide	5.62	106	41117	4.213	ppbV	97
12) acrolein	5.77	56	23059	4.196	ppbV	99
13) acetone	5.92	43	333958	16.556	ppbV #	84
14) trichlorofluoromethane	6.14	101	70604	5.688	ppbV	99
15) isopropyl alcohol	6.25	45	199458	8.070	ppbV #	96
16) acrylonitrile	6.51	53	39047	4.150	ppbV	97
17) 1,1-dichloroethene	6.92	61	74323	4.533	ppbV	95
18) tertiary butyl alcohol	6.98	59	96526	5.202	ppbV #	82
19) methylene chloride	7.09	49	50397	3.612	ppbV	92
20) 3-chloropropene	7.23	41	68112	3.082	ppbV #	83
21) carbon disulfide	7.39	76	125965	3.775	ppbV	100
22) Freon 113	7.42	101	79020	4.206	ppbV	99
23) trans-1,2-dichloroethene	8.22	61	92196	4.498	ppbV	97
24) 1,1-dichloroethane	8.47	63	103515	4.314	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528225_Ev2.D
 Acq On : 2 Sep 2021 11:26 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 10:44:59 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 06:59:02 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.54	73	132020	5.011	ppbV	99
26) vinyl acetate	8.68	43	126890	4.034	ppbV #	94
27) 2-butanone	8.94	43	129559	3.866	ppbV #	94
28) cis-1,2-dichloroethene	9.47	61	81725	4.490	ppbV	95
29) Ethyl Acetate	9.77	61	24043	4.318	ppbV	81
30) chloroform	9.82	83	94987	4.998	ppbV	99
31) Tetrahydrofuran	10.28	42	83087	3.762	ppbV #	87
32) 1,2-dichloroethane	10.68	62	60296	5.390	ppbV	92
34) hexane	9.74	57	124396	4.531	ppbV	88
36) 1,1,1-trichloroethane	10.98	97	73622	6.044	ppbV	91
37) benzene	11.51	78	195754	4.062	ppbV	96
38) carbon tetrachloride	11.69	117	64186	6.455	ppbV	99
39) cyclohexane	11.83	56	133807	4.625	ppbV	93
40) Dibromomethane	12.44	93	60570	4.496	ppbV #	94
41) 1,2-dichloropropane	12.48	63	75394	4.045	ppbV	98
42) bromodichloromethane	12.71	83	106690	5.261	ppbV	99
43) 1,4-dioxane	12.75	88	51523	4.874	ppbV	95
44) trichloroethene	12.76	130	78581	4.682	ppbV	97
45) 2,2,4-trimethylpentane	12.81	57	411033M6	4.603	ppbV	
46) heptane	13.13	43	143001	3.864	ppbV #	87
47) cis-1,3-dichloropropene	14.41	75	80818	5.336	ppbV	93
48) 4-methyl-2-pentanone	13.82	43	161639	3.914	ppbV #	89
49) trans-1,3-dichloropropene	13.78	75	89227	4.869	ppbV	96
50) 1,1,2-trichloroethane	14.60	97	69996	4.510	ppbV	97
52) toluene	14.92	91	235877	3.824	ppbV	98
54) 2-hexanone	15.19	43	156873	3.563	ppbV #	87
55) dibromochloromethane	15.36	129	97707	5.148	ppbV	98
56) 1,2-dibromoethane	15.61	107	99430	4.162	ppbV	98
57) tetrachloroethene	16.07	166	82413	4.353	ppbV	97
58) 1,1,1,2-tetrachloroethane	16.71	131	72063	4.964	ppbV	98
59) chlorobenzene	16.72	112	175288	4.295	ppbV	97
60) ethylbenzene	17.06	91	299996	4.513	ppbV	91
61) m+p-xylene	17.22	91	483841	9.123	ppbV	93
62) bromoform	17.29	173	78407	5.644	ppbV	98
63) styrene	17.54	104	183234	4.367	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.63	83	190482	4.278	ppbV	98
65) o-xylene	17.63	91	246573	4.621	ppbV	94
66) 1,2,3-Trichloropropane	17.74	75	128418	4.140	ppbV	98
68) isopropylbenzene	18.13	105	285158	4.278	ppbV	97
69) Bromobenzene	18.21	77	170970	4.223	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528225_Ev2.D
 Acq On : 2 Sep 2021 11:26 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 10:44:59 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Aug 23 06:59:02 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.68	105	325144	4.503	ppbV	97
71) 1,3,5-trimethylbenzene	18.74	105	253135	4.420	ppbV	95
72) tert-butylbenzene	19.07	119	290527	4.464	ppbV	100
73) 1,2,4-trimethylbenzene	19.07	105	257815	4.339	ppbV	92
74) Benzyl Chloride	19.18	91	193091	6.586	ppbV	99
75) 1,3-dichlorobenzene	19.20	146	166575	4.154	ppbV	96
76) 1,4-dichlorobenzene	19.26	146	165191	4.216	ppbV	95
77) sec-butylbenzene	19.28	105	372865	4.228	ppbV	98
78) p-isopropyltoluene	19.41	119	363962	4.567	ppbV	100
79) 1,2-dichlorobenzene	19.53	146	159613	4.172	ppbV	98
80) n-butylbenzene	19.75	91	329859	4.628	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.91	75	68273	5.540	ppbV	92
82) 1,2,4-trichlorobenzene	21.04	180	122184	5.304	ppbV	96
83) naphthalene	21.16	128	402866	5.187	ppbV	100
84) 1,2,3-trichlorobenzene	21.43	180	122652	5.276	ppbV	94
85) hexachlorobutadiene	21.49	225	103460	5.340	ppbV	98

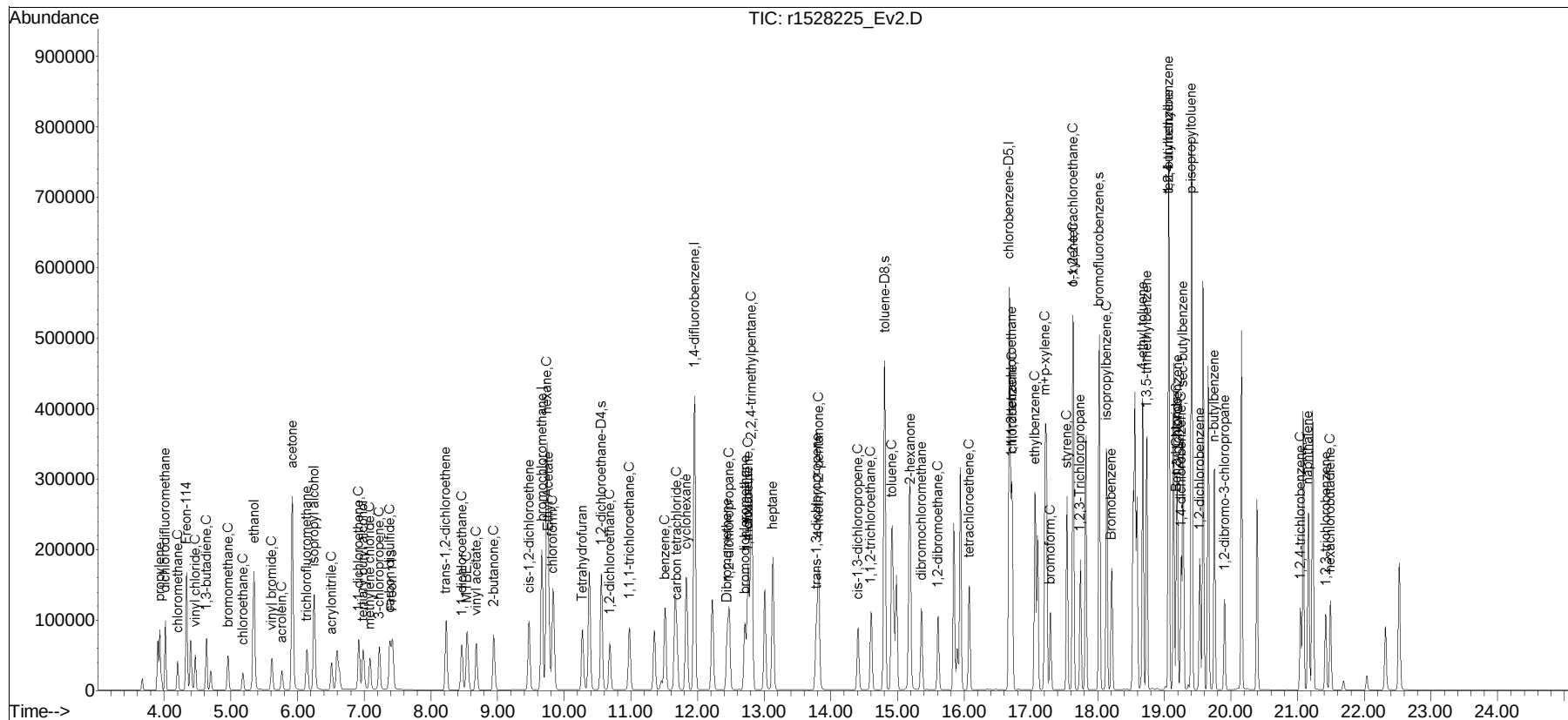
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : 0:\Forensics\Data\AirLab15\2021\09\0902SIM_I\
Data File  : r1528225_Ev2.D
Acq On     : 2 Sep 2021 11:26 PM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD5.0
Misc       : WG1542872
ALS Vial   : 0 Sample Multiplier: 1
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Quant Time: Sep 03 10:44:59 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Aug 23 06:59:02 2021
Response via : Initial Calibration

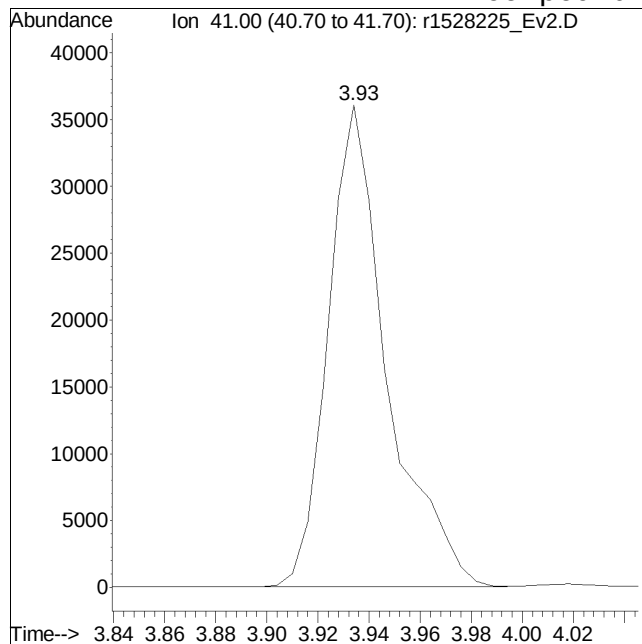
Sub List : Default - All compounds listed1\09\0902SIM_I\r1528225_Ev2.D



Manual Integration/Negative Proof Report

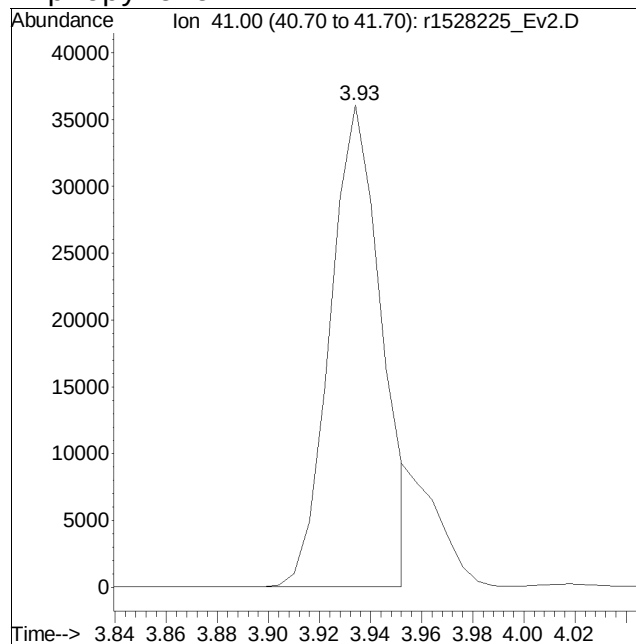
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM15_210902.M
Data File : r1528225_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:1: 6 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 9/3/2021 10:44 am

Compound #2: propylene



Original Peak Response = 57845

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

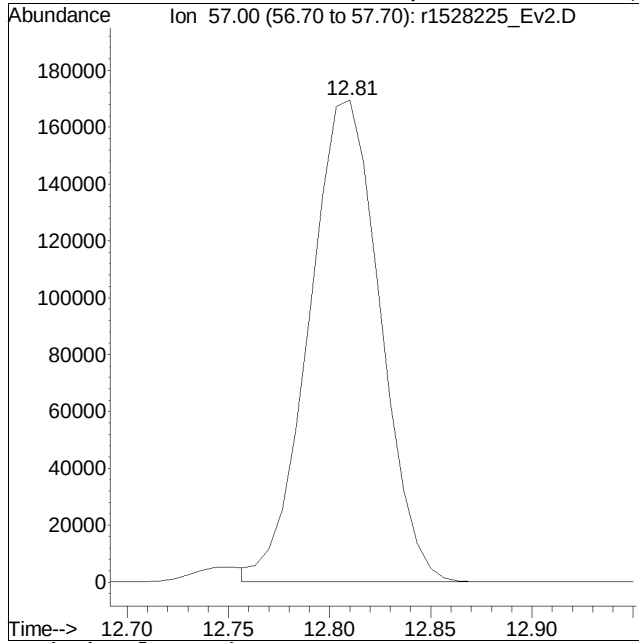


Manual Peak Response = 50620 M6

Manual Integration/Negative Proof Report

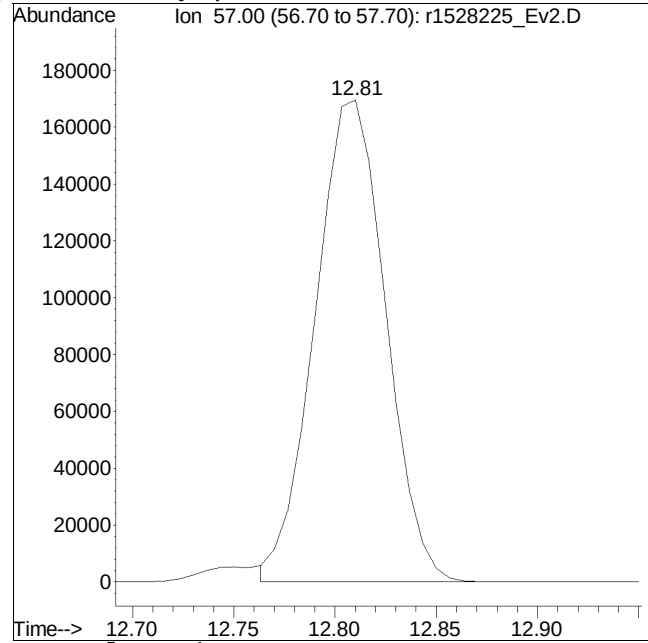
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528225_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/2/2020 0:1: 6 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 9/3/2021 10:44 am

Compound #45: 2,2,4-trimethylpentane



Original Peak Response = 413155

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 411033 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528226_Ev2.D
 Acq On : 3 Sep 2021 12:07 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD010
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:49:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.67	49	219606	10.000	ppbV	0.00
Standard Area = 221893			Recovery =		98.97%	
33) 1,4-difluorobenzene	11.96	114	526937	10.000	ppbV	0.00
Standard Area = 529129			Recovery =		99.59%	
51) chlorobenzene-D5	16.68	54	108649	10.000	ppbV	0.00
Standard Area = 110952			Recovery =		97.92%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.56	65	138098	10.031	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.31%	
53) toluene-D8	14.81	98	539602	10.382	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		103.82%	
67) bromofluorobenzene	18.02	95	385670	10.486	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		104.86%	
Target Compounds						
					Qvalue	
2) propylene	3.93	41	103208M6	10.301	ppbV	
3) dichlorodifluoromethane	4.02	85	164482	10.029	ppbV	100
4) chloromethane	4.20	50	81796	9.507	ppbV	98
5) Freon-114	4.34	85	204700	9.472	ppbV	100
6) vinyl chloride	4.47	62	115915	9.941	ppbV	100
7) 1,3-butadiene	4.64	54	88829	9.725	ppbV	95
8) bromomethane	4.96	94	91858	9.912	ppbV	99
9) chloroethane	5.18	64	55450	10.022	ppbV	98
10) ethanol	5.35	31	377390	55.881	ppbV	100
11) vinyl bromide	5.62	106	81898	10.063	ppbV	99
12) acrolein	5.77	56	45564	9.983	ppbV	99
13) acetone	5.92	43	647410	48.970	ppbV	100
14) trichlorofluoromethane	6.14	101	137865	9.865	ppbV	100
15) isopropyl alcohol	6.25	45	385734	24.426	ppbV	100
16) acrylonitrile	6.51	53	76575	9.908	ppbV	99
17) 1,1-dichloroethene	6.92	61	145702	9.904	ppbV	97
18) tertiary butyl alcohol	6.99	59	187740	9.826	ppbV	100
19) methylene chloride	7.09	49	138291	13.863	ppbV	99
20) 3-chloropropene	7.23	41	171635	12.731	ppbV	97
21) carbon disulfide	7.39	76	328018	13.156	ppbV	96
22) Freon 113	7.43	101	175594	11.226	ppbV	96
23) trans-1,2-dichloroethene	8.23	61	186872	10.240	ppbV	93
24) 1,1-dichloroethane	8.47	63	208680	10.185	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528226_Ev2.D
 Acq On : 3 Sep 2021 12:07 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD010
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:49:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.54	73	262323	10.038	ppbV	99
26) vinyl acetate	8.68	43	260163	10.358	ppbV	100
27) 2-butanone	8.94	43	258909	10.096	ppbV	100
28) cis-1,2-dichloroethene	9.47	61	164180	10.149	ppbV	100
29) Ethyl Acetate	9.77	61	48754	10.245	ppbV	95
30) chloroform	9.83	83	187132	9.953	ppbV	98
31) Tetrahydrofuran	10.27	42	167654	10.194	ppbV	97
32) 1,2-dichloroethane	10.68	62	119096	9.979	ppbV	99
34) hexane	9.74	57	248425	10.027	ppbV	99
36) 1,1,1-trichloroethane	10.98	97	149055	10.165	ppbV	100
37) benzene	11.52	78	386051	9.902	ppbV	99
38) carbon tetrachloride	11.69	117	128099	10.020	ppbV	98
39) cyclohexane	11.84	56	269536	10.114	ppbV	100
40) Dibromomethane	12.44	93	121589	10.079	ppbV #	100
41) 1,2-dichloropropane	12.48	63	152201	10.136	ppbV	100
42) bromodichloromethane	12.71	83	212796	10.014	ppbV	100
43) 1,4-dioxane	12.74	88	102315	9.970	ppbV	98
44) trichloroethene	12.76	130	158516	10.128	ppbV	98
45) 2,2,4-trimethylpentane	12.81	57	822395	10.046	ppbV	99
46) heptane	13.13	43	283199	9.943	ppbV	100
47) cis-1,3-dichloropropene	14.41	75	164210	10.202	ppbV	99
48) 4-methyl-2-pentanone	13.81	43	322434	10.015	ppbV	99
49) trans-1,3-dichloropropene	13.78	75	179511	10.101	ppbV	100
50) 1,1,2-trichloroethane	14.61	97	140678	10.091	ppbV	96
52) toluene	14.92	91	469049	10.153	ppbV	99
54) 2-hexanone	15.19	43	309124	10.062	ppbV	98
55) dibromochloromethane	15.36	129	203123	10.615	ppbV	96
56) 1,2-dibromoethane	15.61	107	197948	10.165	ppbV	100
57) tetrachloroethene	16.07	166	163101	10.105	ppbV	99
58) 1,1,1,2-tetrachloroethane	16.71	131	146206	10.359	ppbV	99
59) chlorobenzene	16.72	112	348591	10.154	ppbV	99
60) ethylbenzene	17.07	91	598268	10.183	ppbV	97
61) m+p-xylene	17.23	91	959568	20.253	ppbV	100
62) bromoform	17.29	173	160845	10.474	ppbV	99
63) styrene	17.54	104	362415	10.099	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.63	83	375964	10.078	ppbV	100
65) o-xylene	17.63	91	483534	10.013	ppbV	100
66) 1,2,3-Trichloropropane	17.74	75	254384	10.114	ppbV	100
68) isopropylbenzene	18.13	105	559794	10.024	ppbV	100
69) Bromobenzene	18.21	77	337417	10.077	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528226_Ev2.D
 Acq On : 3 Sep 2021 12:07 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD010
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:49:52 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.68	105	643126	10.099	ppbV	99
71) 1,3,5-trimethylbenzene	18.73	105	486158	9.806	ppbV	95
72) tert-butylbenzene	19.07	119	566971	9.964	ppbV	97
73) 1,2,4-trimethylbenzene	19.07	105	503358	9.969	ppbV	99
74) Benzyl Chloride	19.18	91	412715	10.914	ppbV	98
75) 1,3-dichlorobenzene	19.20	146	333445	10.221	ppbV	99
76) 1,4-dichlorobenzene	19.26	146	334396	10.336	ppbV	99
77) sec-butylbenzene	19.28	105	735559	10.073	ppbV	98
78) p-isopropyltoluene	19.41	119	703609	9.871	ppbV	96
79) 1,2-dichlorobenzene	19.53	146	319100	10.208	ppbV	99
80) n-butylbenzene	19.75	91	658496	10.193	ppbV	98
81) 1,2-dibromo-3-chloropr...	19.90	75	137892	10.313	ppbV	98
82) 1,2,4-trichlorobenzene	21.04	180	258969	10.822	ppbV	98
83) naphthalene	21.16	128	822980	10.431	ppbV	100
84) 1,2,3-trichlorobenzene	21.42	180	250327	10.421	ppbV	98
85) hexachlorobutadiene	21.49	225	208456	10.288	ppbV	98

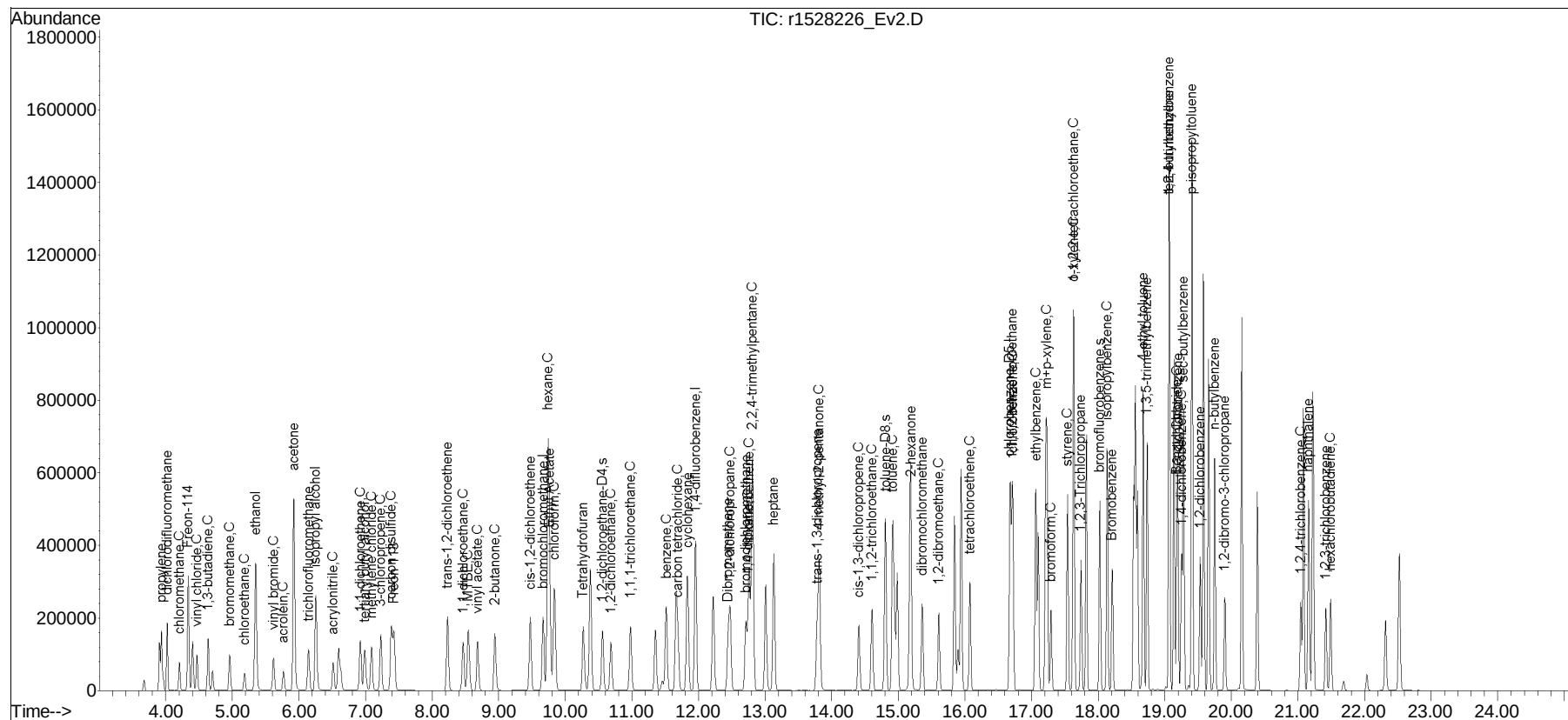
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AirLab15\2021\09\0902SIM_I\
 Data File : r1528226_Ev2.D
 Acq On : 3 Sep 2021 12:07 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD010
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:49:52 2021
 Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

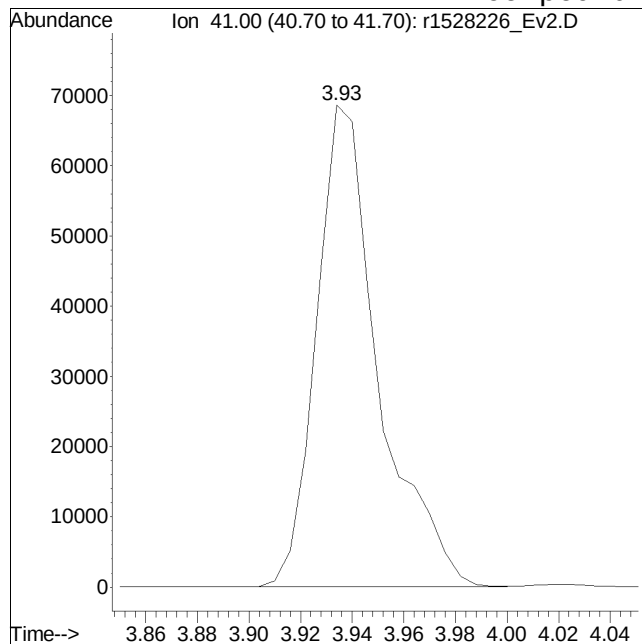
Sub List : Default - All compounds listed1\09\0902SIM_I\r1528225_Ev2.D



Manual Integration/Negative Proof Report

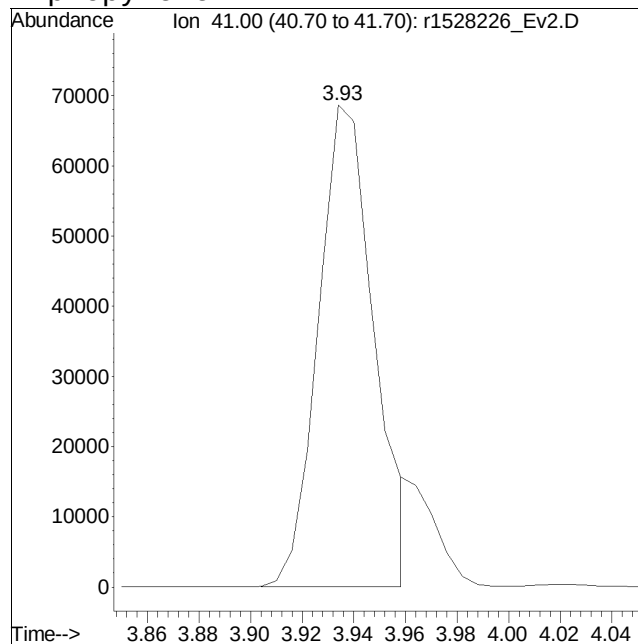
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 Data File : r1528226_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 9/3/2020 0:2: 7 Instrument :
 Sample : IT015-SIMSTD010 Quant Date : 9/3/2021 10:46 am

Compound #2: propylene



Original Peak Response = 114613

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 103208 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528227_Ev2.D
 Acq On : 3 Sep 2021 12:44 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD020
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:52:14 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.67	49	218051	10.000	ppbV	0.00
Standard Area = 221893			Recovery =		98.27%	
33) 1,4-difluorobenzene	11.96	114	522838	10.000	ppbV	0.00
Standard Area = 529129			Recovery =		98.81%	
51) chlorobenzene-D5	16.68	54	106353	10.000	ppbV	0.00
Standard Area = 110952			Recovery =		95.85%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.56	65	134534	9.849	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.49%	
53) toluene-D8	14.81	98	543323	10.679	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		106.79%	
67) bromofluorobenzene	18.02	95	393934	10.942	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		109.42%	
Target Compounds						
					Qvalue	
2) propylene	3.93	41	193310M6	19.431	ppbV	
3) dichlorodifluoromethane	4.02	85	298607	18.336	ppbV	98
4) chloromethane	4.20	50	160914	18.835	ppbV	98
5) Freon-114	4.33	85	385271	17.954	ppbV	99
6) vinyl chloride	4.46	62	226752	19.586	ppbV	99
7) 1,3-butadiene	4.63	54	171289	18.887	ppbV	93
8) bromomethane	4.95	94	175913	19.118	ppbV	99
9) chloroethane	5.18	64	107537	19.576	ppbV	97
10) ethanol	5.35	31	566178	84.433	ppbV	96
11) vinyl bromide	5.62	106	157078	19.438	ppbV	99
12) acrolein	5.76	56	86470	19.080	ppbV	98
13) acetone	5.92	43	1206812	91.933	ppbV	99
14) trichlorofluoromethane	6.14	101	259112	18.673	ppbV	99
15) isopropyl alcohol	6.25	45	736336	46.959	ppbV	100
16) acrylonitrile	6.51	53	146497	19.090	ppbV	100
17) 1,1-dichloroethene	6.92	61	278309	19.053	ppbV	98
18) tertiary butyl alcohol	6.98	59	360705	19.014	ppbV	100
19) methylene chloride	7.09	49	185640	18.742	ppbV	99
20) 3-chloropropene	7.22	41	258568	19.316	ppbV	98
21) carbon disulfide	7.39	76	476369	19.242	ppbV	95
22) Freon 113	7.42	101	302647	19.487	ppbV	98
23) trans-1,2-dichloroethene	8.22	61	353139	19.489	ppbV	98
24) 1,1-dichloroethane	8.47	63	401243	19.722	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528227_Ev2.D
 Acq On : 3 Sep 2021 12:44 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD020
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:52:14 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.54	73	495366	19.092	ppbV	99
26) vinyl acetate	8.68	43	497513	19.950	ppbV	99
27) 2-butanone	8.94	43	481786	18.921	ppbV	98
28) cis-1,2-dichloroethene	9.47	61	314778	19.598	ppbV	99
29) Ethyl Acetate	9.77	61	93605	19.809	ppbV	80
30) chloroform	9.83	83	347140	18.595	ppbV	98
31) Tetrahydrofuran	10.27	42	314895	19.284	ppbV	100
32) 1,2-dichloroethane	10.68	62	222851	18.805	ppbV	99
34) hexane	9.74	57	467593	19.021	ppbV	99
36) 1,1,1-trichloroethane	10.98	97	280968	19.311	ppbV	98
37) benzene	11.52	78	718854	18.582	ppbV	99
38) carbon tetrachloride	11.69	117	245029	19.317	ppbV	98
39) cyclohexane	11.83	56	511690	19.351	ppbV	99
40) Dibromomethane	12.44	93	229210	19.149	ppbV #	100
41) 1,2-dichloropropane	12.48	63	290796	19.517	ppbV	97
42) bromodichloromethane	12.71	83	396508	18.806	ppbV	99
43) 1,4-dioxane	12.74	88	194286	19.081	ppbV	100
44) trichloroethene	12.76	130	298927	19.249	ppbV	98
45) 2,2,4-trimethylpentane	12.81	57	1529655	18.831	ppbV	99
46) heptane	13.13	43	520778	18.428	ppbV	98
47) cis-1,3-dichloropropene	14.41	75	310004	19.410	ppbV	100
48) 4-methyl-2-pentanone	13.81	43	598338	18.731	ppbV	99
49) trans-1,3-dichloropropene	13.78	75	341589	19.372	ppbV	100
50) 1,1,2-trichloroethane	14.60	97	270039	19.522	ppbV	97
52) toluene	14.92	91	893037	19.749	ppbV	100
54) 2-hexanone	15.18	43	565577	18.806	ppbV	97
55) dibromochloromethane	15.36	129	385371	20.574	ppbV	97
56) 1,2-dibromoethane	15.61	107	378777	19.871	ppbV	99
57) tetrachloroethene	16.07	166	305876	19.360	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.71	131	277551	20.090	ppbV	99
59) chlorobenzene	16.72	112	646656	19.243	ppbV	99
60) ethylbenzene	17.06	91	1129851	19.645	ppbV	100
61) m+p-xylene	17.23	91	1801701	38.848	ppbV	100
62) bromoform	17.29	173	317857	21.146	ppbV	100
63) styrene	17.54	104	687920	19.583	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.63	83	693341	18.987	ppbV	100
65) o-xylene	17.63	91	902651	19.095	ppbV	99
66) 1,2,3-Trichloropropane	17.74	75	467854	19.004	ppbV	99
68) isopropylbenzene	18.13	105	1036690	18.964	ppbV	98
69) Bromobenzene	18.21	77	626917	19.127	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528227_Ev2.D
 Acq On : 3 Sep 2021 12:44 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD020
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:52:14 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.68	105	1188275	19.063	ppbV	99
71) 1,3,5-trimethylbenzene	18.74	105	919373	18.945	ppbV	98
72) tert-butylbenzene	19.07	119	1015567	18.234	ppbV	94
73) 1,2,4-trimethylbenzene	19.07	105	927165	18.759	ppbV	93
74) Benzyl Chloride	19.18	91	823862	22.256	ppbV	99
75) 1,3-dichlorobenzene	19.20	146	631432	19.773	ppbV	98
76) 1,4-dichlorobenzene	19.26	146	634014	20.020	ppbV	99
77) sec-butylbenzene	19.28	105	1357686	18.993	ppbV	97
78) p-isopropyltoluene	19.41	119	1250014	17.915	ppbV	94
79) 1,2-dichlorobenzene	19.53	146	603331	19.717	ppbV	99
80) n-butylbenzene	19.75	91	1213821	19.195	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.90	75	247936	18.943	ppbV	96
82) 1,2,4-trichlorobenzene	21.04	180	460433	19.657	ppbV	98
83) naphthalene	21.16	128	1406040	18.205	ppbV	100
84) 1,2,3-trichlorobenzene	21.42	180	429636	18.272	ppbV	98
85) hexachlorobutadiene	21.49	225	356884	17.993	ppbV	97

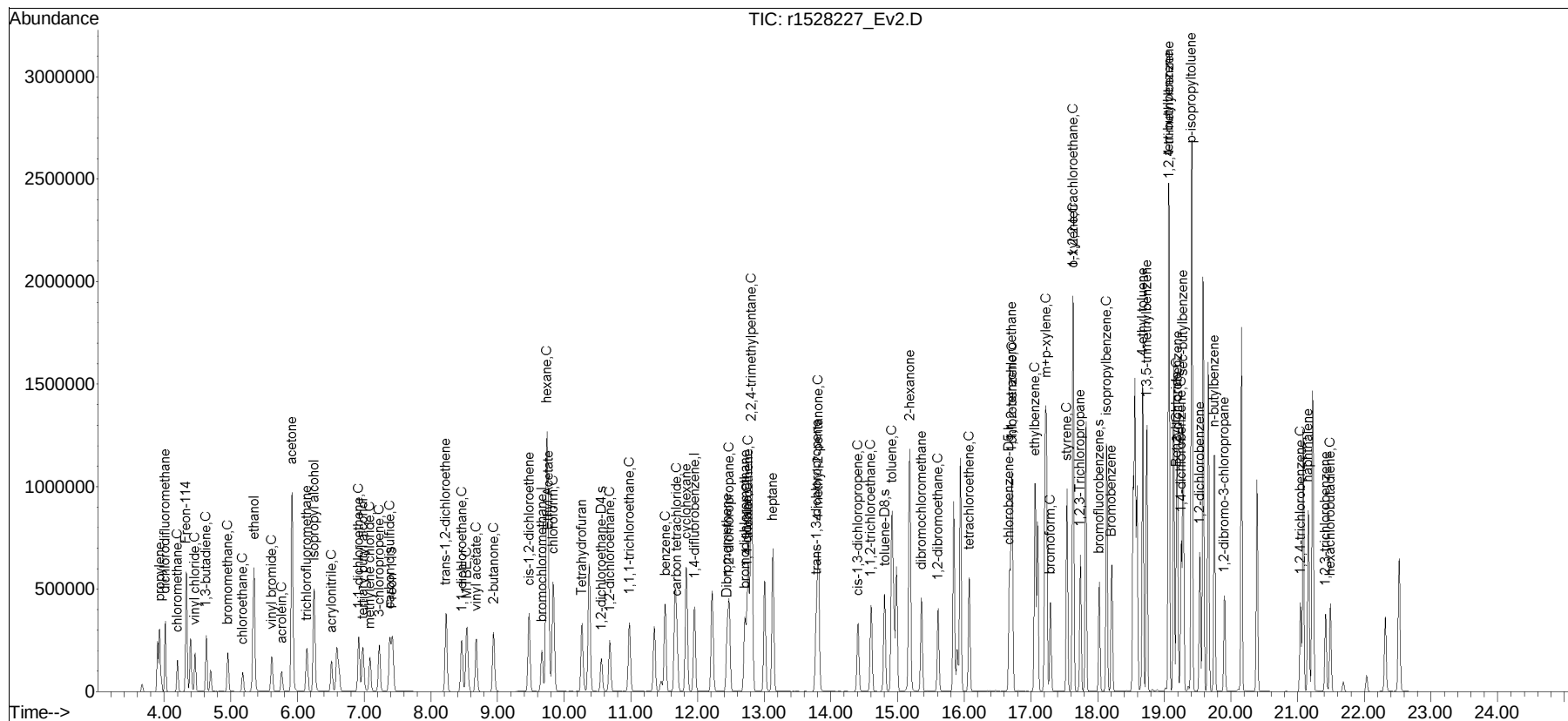
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path : 0:\Forensics\Data\AirLab15\2021\09\0902SIM_I\
Data File : r1528227_Ev2.D
Acq On    : 3 Sep 2021 12:44 AM
Operator  : AIRLAB15:RY
Sample    : IT015-SIMSTD020
Misc      : WG1542872
ALS Vial  : 0 Sample Multiplier: 1
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Quant Time: Sep 03 14:52:14 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 10:45:38 2021
Response via : Initial Calibration

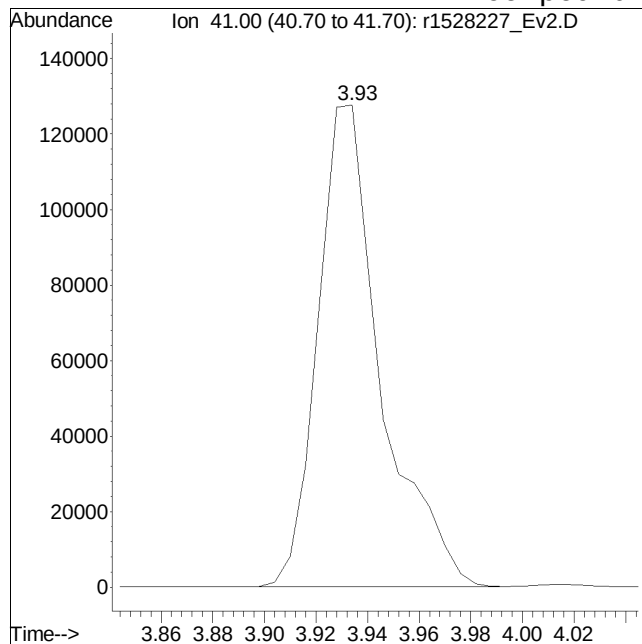
Sub List : Default - All compounds listed1\09\0902SIM_I\r1528225_Ev2.D



Manual Integration/Negative Proof Report

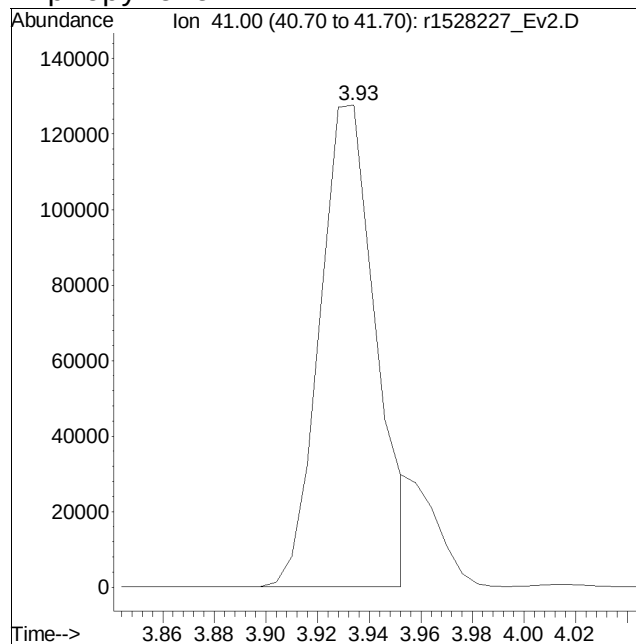
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM15_210902.M
Data File : r1528227_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/3/2020 0:2: 4 Instrument :
Sample : IT015-SIMSTD020 Quant Date : 9/3/2021 10:46 am

Compound #2: propylene



Original Peak Response = 216483

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 193310 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528228_Ev2.D
 Acq On : 3 Sep 2021 1:23 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD050
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:54:42 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.67	49	215952	10.000	ppbV	0.00
Standard Area = 221893			Recovery =		97.32%	
33) 1,4-difluorobenzene	11.96	114	520244	10.000	ppbV	0.00
Standard Area = 529129			Recovery =		98.32%	
51) chlorobenzene-D5	16.68	54	104958	10.000	ppbV	0.00
Standard Area = 110952			Recovery =		94.60%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.56	65	130846	9.627	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.27%	
53) toluene-D8	14.81	98	543566	10.826	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		108.26%	
67) bromofluorobenzene	18.02	95	404697	11.391	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		113.91%	
Target Compounds						
					Qvalue	
2) propylene	3.93	41	481449M4	48.863	ppbV	
3) dichlorodifluoromethane	4.01	85	691695	42.888	ppbV	99
4) chloromethane	4.20	50	392903	46.437	ppbV	99
5) Freon-114	4.32	85	843836	39.707	ppbV	97
6) vinyl chloride	4.46	62	560073	48.847	ppbV	100
7) 1,3-butadiene	4.63	54	403463	44.920	ppbV	93
8) bromomethane	4.95	94	425737	46.719	ppbV	97
9) chloroethane	5.18	64	269678	49.568	ppbV	95
10) ethanol	5.35	31	1301295	195.946	ppbV	94
11) vinyl bromide	5.61	106	388220	48.508	ppbV	100
12) acrolein	5.76	56	209958	46.779	ppbV	98
13) acetone	5.92	43	2780164	213.848	ppbV	97
14) trichlorofluoromethane	6.14	101	632088	45.994	ppbV	100
15) isopropyl alcohol	6.25	45	1720620	110.797	ppbV	99
16) acrylonitrile	6.51	53	353204	46.472	ppbV	99
17) 1,1-dichloroethene	6.92	61	671534	46.420	ppbV	96
18) tertiary butyl alcohol	6.98	59	870493	46.332	ppbV	99
19) methylene chloride	7.09	49	439018	44.754	ppbV	97
20) 3-chloropropene	7.22	41	636515	48.011	ppbV	98
21) carbon disulfide	7.38	76	1144592	46.683	ppbV	95
22) Freon 113	7.42	101	729742	47.445	ppbV	95
23) trans-1,2-dichloroethene	8.22	61	868113	48.375	ppbV	95
24) 1,1-dichloroethane	8.47	63	993859	49.326	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528228_Ev2.D
 Acq On : 3 Sep 2021 1:23 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD050
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:54:42 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.54	73	1203837	46.847	ppbV	99
26) vinyl acetate	8.68	43	1232603	49.906	ppbV	99
27) 2-butanone	8.94	43	1179136	46.758	ppbV	97
28) cis-1,2-dichloroethene	9.47	61	778312	48.928	ppbV	98
29) Ethyl Acetate	9.77	61	233414	49.876	ppbV	78
30) chloroform	9.83	83	803707	43.470	ppbV	98
31) Tetrahydrofuran	10.26	42	775877	47.975	ppbV	97
32) 1,2-dichloroethane	10.68	62	540722	46.073	ppbV	99
34) hexane	9.74	57	1098891	44.923	ppbV	90
36) 1,1,1-trichloroethane	10.98	97	682220	47.124	ppbV	99
37) benzene	11.52	78	1714036	44.528	ppbV	100
38) carbon tetrachloride	11.69	117	589760	46.726	ppbV	99
39) cyclohexane	11.83	56	1234205	46.906	ppbV	98
40) Dibromomethane	12.44	93	561117	47.111	ppbV #	98
41) 1,2-dichloropropane	12.48	63	722534	48.736	ppbV	98
42) bromodichloromethane	12.71	83	940118	44.811	ppbV	99
43) 1,4-dioxane	12.74	88	467213	46.115	ppbV	98
44) trichloroethene	12.76	130	728499	47.145	ppbV	99
45) 2,2,4-trimethylpentane	12.81	57	3633263	44.952	ppbV	99
46) heptane	13.13	43	1233314	43.859	ppbV	95
47) cis-1,3-dichloropropene	14.41	75	758686	47.740	ppbV	99
48) 4-methyl-2-pentanone	13.81	43	1425538	44.849	ppbV	97
49) trans-1,3-dichloropropene	13.78	75	824530	46.993	ppbV	99
50) 1,1,2-trichloroethane	14.61	97	671717	48.802	ppbV	91
52) toluene	14.92	91	2126424	47.649	ppbV	100
54) 2-hexanone	15.19	43	1326181	44.683	ppbV	93
55) dibromochloromethane	15.36	129	933444	50.495	ppbV	98
56) 1,2-dibromoethane	15.61	107	916218	48.705	ppbV	97
57) tetrachloroethene	16.07	166	731046	46.886	ppbV	97
58) 1,1,1,2-tetrachloroethane	16.71	131	667517	48.960	ppbV	100
59) chlorobenzene	16.73	112	1510246	45.539	ppbV	94
60) ethylbenzene	17.07	91	2712055	47.783	ppbV	97
61) m+p-xylene	17.23	91	4192160	91.591	ppbV	100
62) bromoform	17.30	173	776319	52.333	ppbV	98
63) styrene	17.54	104	1653840	47.706	ppbV	97
64) 1,1,2,2-tetrachloroethane	17.63	83	1482572	41.139	ppbV	100
65) o-xylene	17.63	91	2011318	43.115	ppbV	96
66) 1,2,3-Trichloropropane	17.74	75	1110225	45.696	ppbV	98
68) isopropylbenzene	18.14	105	2440077	45.228	ppbV	96
69) Bromobenzene	18.22	77	1445805	44.697	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528228_Ev2.D
 Acq On : 3 Sep 2021 1:23 AM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD050
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 14:54:42 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 10:45:38 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.68	105	2762037	44.900	ppbV	97
71) 1,3,5-trimethylbenzene	18.74	105	2133381	44.546	ppbV	95
72) tert-butylbenzene	19.07	119	2132974	38.805	ppbV #	88
73) 1,2,4-trimethylbenzene	19.07	105	2045279	41.931	ppbV	90
74) Benzyl Chloride	19.19	91	2029473	55.553	ppbV	93
75) 1,3-dichlorobenzene	19.21	146	1540299	48.875	ppbV	92
76) 1,4-dichlorobenzene	19.26	146	1544909	49.432	ppbV	99
77) sec-butylbenzene	19.28	105	3147120	44.612	ppbV	95
78) p-isopropyltoluene	19.41	119	2596085	37.701	ppbV #	88
79) 1,2-dichlorobenzene	19.54	146	1474067	48.813	ppbV	94
80) n-butylbenzene	19.76	91	2862009	45.860	ppbV #	84
81) 1,2-dibromo-3-chloropr...	19.91	75	598436	46.330	ppbV	93
82) 1,2,4-trichlorobenzene	21.05	180	1194495	51.673	ppbV	96
83) naphthalene	21.17	128	3504754	45.982	ppbV	99
84) 1,2,3-trichlorobenzene	21.43	180	1126973	48.566	ppbV	99
85) hexachlorobutadiene	21.49	225	871972	44.547	ppbV	94

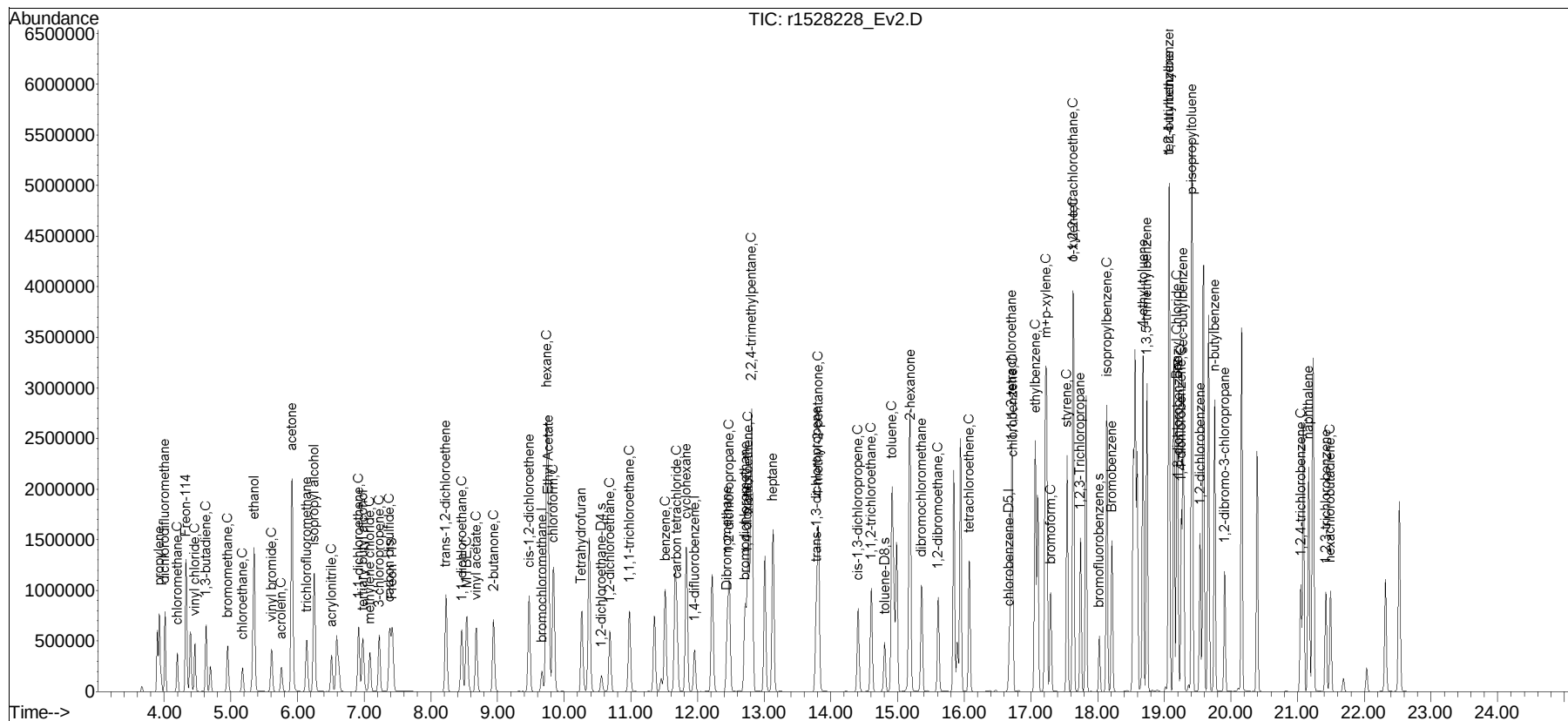
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path : 0:\Forensics\Data\AirLab15\2021\09\0902SIM_I\
Data File : r1528228_Ev2.D
Acq On    : 3 Sep 2021 1:23 AM
Operator  : AIRLAB15:RY
Sample    : IT015-SIMSTD050
Misc      : WG1542872
ALS Vial  : 0 Sample Multiplier: 1
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Quant Time: Sep 03 14:54:42 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 10:45:38 2021
Response via : Initial Calibration

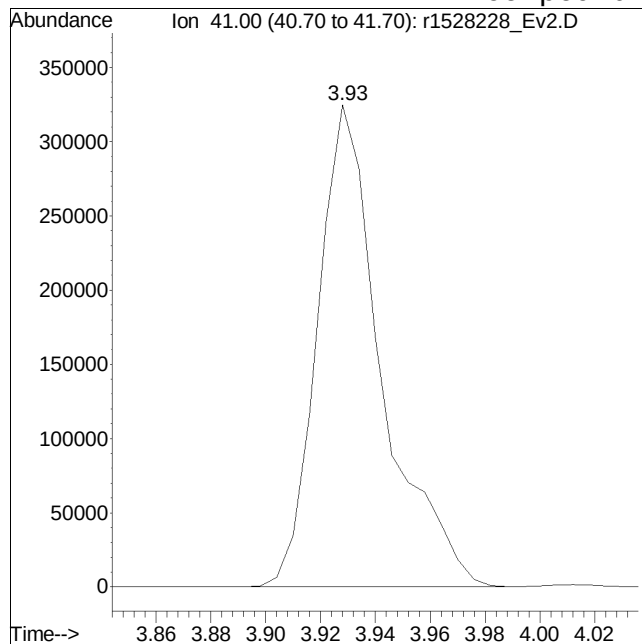
Sub List : Default - All compounds listed1\09\0902SIM_I\r1528225_Ev2.D



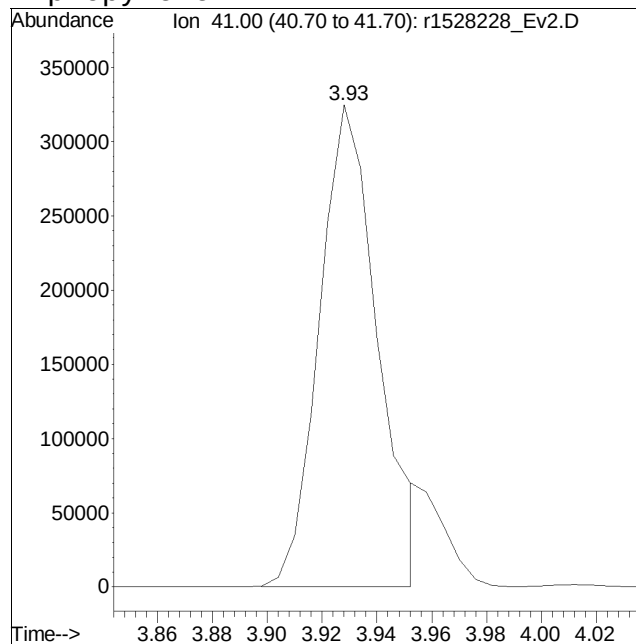
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528228_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/3/2020 0:1: 3 Instrument :
Sample : IT015-SIMSTD050 Quant Date : 9/3/2021 10:46 am

Compound #2: propylene



Original Peak Response = 528501



Manual Peak Response = 481449 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528233_Ev2.D
 Acq On : 3 Sep 2021 10:08 AM
 Operator : AIRLAB15:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 15:41:09 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:41:03 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	92	0.00
2	propylene	0.499	0.483	3.2	97	0.00
3	dichlorodifluoromethane	0.778	0.766	1.5	94	0.00
4 C	chloromethane	0.408	0.402	1.5	94	0.00
5	Freon-114	1.020	1.028	-0.8	96	0.00
6 C	vinyl chloride	0.573	0.592	-3.3	102	0.00
7 C	1,3-butadiene	0.433	0.439	-1.4	97	0.00
8 C	bromomethane	0.465	0.460	1.1	100	0.00
9 C	chloroethane	0.272	0.289	-6.2	105	0.00
10	ethanol	0.347	0.286	17.6	85	0.00
11 C	vinyl bromide	0.389	0.411	-5.7	102	0.00
12 C	acrolein	0.230	0.207	10.0	91	0.00
13	acetone	0.637	0.601	5.7	91	0.00
14	trichlorofluoromethane	0.679	0.690	-1.6	99	0.00
15	isopropyl alcohol	0.758	0.717	5.4	91	0.00
16 C	acrylonitrile	0.368	0.360	2.2	94	0.00
17 C	1,1-dichloroethene	0.734	0.731	0.4	100	0.00
18	tertiary butyl alcohol	0.890	0.913	-2.6	96	0.00
19 C	methylene chloride	0.502	0.477	5.0	96	0.00
20 C	3-chloropropene	0.691	0.732	-5.9	109	0.00
21 C	carbon disulfide	1.283	1.180	8.0	95	0.00
22	Freon 113	0.817	0.833	-2.0	107	0.00
23	trans-1,2-dichloroethene	0.886	0.911	-2.8	100	0.00
24 C	1,1-dichloroethane	1.009	1.080	-7.0	106	0.00
25 C	MTBE	1.256	1.310	-4.3	101	0.00
26 C	vinyl acetate	1.191	1.196	-0.4	96	0.00
27 C	2-butanone	1.211	1.265	-4.5	99	0.00
28	cis-1,2-dichloroethene	0.795	0.857	-7.8	106	0.00
29	Ethyl Acetate	0.227	0.259	-14.1	109	0.00
30 C	chloroform	0.920	0.918	0.2	98	0.00
31	Tetrahydrofuran	0.774	0.815	-5.3	100	0.00
32 C	1,2-dichloroethane	0.603	0.581	3.6	98	0.00
33 I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.00
34 C	hexane	0.490	0.490	0.0	102	0.00
35 s	1,2-dichloroethane-D4	0.259	0.256	1.2	96	0.00
36 C	1,1,1-trichloroethane	0.300	0.297	1.0	104	0.00
37 C	benzene	0.816	0.738	9.6	97	0.00
38 C	carbon tetrachloride	0.255	0.252	1.2	101	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528233_Ev2.D
 Acq On : 3 Sep 2021 10:08 AM
 Operator : AIRLAB15:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 15:41:09 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:41:03 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	cyclohexane	0.534	0.532	0.4	103	0.00
40	Dibromomethane	0.256	0.233	9.0	99	0.00
41 C	1,2-dichloropropane	0.315	0.318	-1.0	109	0.00
42	bromodichloromethane	0.410	0.404	1.5	98	0.00
43 C	1,4-dioxane	0.200	0.206	-3.0	103	0.00
44 C	trichloroethene	0.316	0.321	-1.6	105	0.00
45 C	2,2,4-trimethylpentane	1.634	1.637	-0.2	103	0.00
46	heptane	0.555	0.553	0.4	100	0.00
47 C	cis-1,3-dichloropropene	0.306	0.286	6.5	91	0.00
48 C	4-methyl-2-pentanone	0.618	0.639	-3.4	102	0.00
49	trans-1,3-dichloropropene	0.349	0.371	-6.3	107	0.00
50 C	1,1,2-trichloroethane	0.285	0.299	-4.9	110	0.00
51 I	chlorobenzene-D5	1.000	1.000	0.0	91	0.00
52 C	toluene	4.825	4.909	-1.7	105	0.00
53 s	toluene-D8	4.902	5.500	-12.2	104	0.00
54	2-hexanone	2.817	3.084	-9.5	99	0.00
55	dibromochloromethane	1.807	2.106	-16.5	108	0.00
56 C	1,2-dibromoethane	1.896	2.094	-10.4	106	0.00
57 C	tetrachloroethene	1.603	1.685	-5.1	103	0.00
58	1,1,1,2-tetrachloroethane	1.364	1.446	-6.0	101	0.00
59 C	chlorobenzene	3.308	3.573	-8.0	102	0.00
60 C	ethylbenzene	5.718	6.267	-9.6	105	0.00
61 C	m+p-xylene	4.579	4.979	-8.7	103	0.00
62 C	bromoform	1.393	1.656	-18.9	106	0.00
63 C	styrene	3.375	3.810	-12.9	105	0.00
64 C	1,1,2,2-tetrachloroethane	3.559	3.852	-8.2	102	0.00
65 C	o-xylene	4.625	5.133	-11.0	105	0.00
66	1,2,3-Trichloropropane	2.424	2.419	0.2	95	0.00
67 s	bromofluorobenzene	3.461	3.903	-12.8	105	0.00
68 C	isopropylbenzene	5.283	5.747	-8.8	101	0.00
69	Bromobenzene	3.182	3.250	-2.1	96	0.00
70	4-ethyl toluene	5.951	6.510	-9.4	101	0.00
71	1,3,5-trimethylbenzene	4.588	5.258	-14.6	104	0.00
72	tert-butylbenzene	5.257	5.640	-7.3	98	0.02
73	1,2,4-trimethylbenzene	4.751	5.439	-14.5	106	0.02
74 C	Benzyl Chloride	3.322	3.894	-17.2	101	0.02
75	1,3-dichlorobenzene	3.075	3.503	-13.9	106	0.02
76 C	1,4-dichlorobenzene	3.028	3.508	-15.9	107	0.02

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528233_Ev2.D
 Acq On : 3 Sep 2021 10:08 AM
 Operator : AIRLAB15:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 15:41:09 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:41:03 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	sec-butylbenzene	6.864	7.406	-7.9	100	0.02
78	p-isopropyltoluene	6.499	6.454	0.7	89	0.02
79	1,2-dichlorobenzene	2.919	3.367	-15.3	106	0.02
80	n-butylbenzene	6.006	6.717	-11.8	102	0.03
81	1,2-dibromo-3-chloropropane	1.168	1.275	-9.2	94	0.02
82 C	1,2,4-trichlorobenzene	2.033	2.490	-22.5	102	0.03
83	naphthalene	6.833	7.579	-10.9	95	0.03
84	1,2,3-trichlorobenzene	1.988	2.327	-17.1	95	0.02
85 C	hexachlorobutadiene	1.818	1.972	-8.5	96	0.03

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528233_Ev2.D
 Acq On : 3 Sep 2021 10:08 AM
 Operator : AIRLAB15:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 15:41:09 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:41:03 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.66	49	203197	10.000	ppbV	0.00
Standard Area = 221893			Recovery =		91.57%	
33) 1,4-difluorobenzene	11.95	114	515838	10.000	ppbV	0.00
Standard Area = 529129			Recovery =		97.49%	
51) chlorobenzene-D5	16.68	54	100558	10.000	ppbV	0.00
Standard Area = 110952			Recovery =		90.63%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.55	65	132036	9.871	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.71%	
53) toluene-D8	14.80	98	553029	11.218	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		112.18%	
67) bromofluorobenzene	18.02	95	392510	11.278	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		112.78%	
Target Compounds						
					Qvalue	
2) propylene	3.93	41	49090M6	4.843	ppbV	
3) dichlorodifluoromethane	4.02	85	77860	4.924	ppbV	99
4) chloromethane	4.20	50	40878	4.935	ppbV	100
5) Freon-114	4.33	85	104395	5.036	ppbV	99
6) vinyl chloride	4.46	62	60113	5.162	ppbV	99
7) 1,3-butadiene	4.63	54	44597	5.071	ppbV	88
8) bromomethane	4.95	94	46724	4.943	ppbV	96
9) chloroethane	5.18	64	29327	5.313	ppbV	97
10) ethanol	5.35	31	145148	20.615	ppbV	96
11) vinyl bromide	5.61	106	41739	5.286	ppbV	100
12) acrolein	5.76	56	21068	4.514	ppbV	98
13) acetone	5.92	43	305209	23.565	ppbV	98
14) trichlorofluoromethane	6.14	101	70148	5.085	ppbV	100
15) isopropyl alcohol	6.25	45	182059	11.827	ppbV	100
16) acrylonitrile	6.51	53	36611	4.890	ppbV	100
17) 1,1-dichloroethene	6.92	61	74244	4.976	ppbV	96
18) tertiary butyl alcohol	6.98	59	92749	5.129	ppbV	99
19) methylene chloride	7.09	49	48471	4.752	ppbV	97
20) 3-chloropropene	7.22	41	74385	5.297	ppbV	98
21) carbon disulfide	7.38	76	119930	4.598	ppbV	98
22) Freon 113	7.42	101	84597	5.098	ppbV	97
23) trans-1,2-dichloroethene	8.22	61	92575	5.142	ppbV	94
24) 1,1-dichloroethane	8.46	63	109732	5.352	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528233_Ev2.D
 Acq On : 3 Sep 2021 10:08 AM
 Operator : AIRLAB15:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 15:41:09 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:41:03 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.54	73	133107	5.217	ppbV	99
26) vinyl acetate	8.68	43	121475	5.018	ppbV	98
27) 2-butanone	8.94	43	128531	5.225	ppbV	98
28) cis-1,2-dichloroethene	9.47	61	87036	5.387	ppbV	99
29) Ethyl Acetate	9.77	61	26285	5.702	ppbV	70
30) chloroform	9.82	83	93242	4.986	ppbV	99
31) Tetrahydrofuran	10.27	42	82850	5.265	ppbV	98
32) 1,2-dichloroethane	10.68	62	58987	4.813	ppbV	98
34) hexane	9.73	57	126364	5.002	ppbV	89
36) 1,1,1-trichloroethane	10.98	97	76481	4.940	ppbV	97
37) benzene	11.51	78	190389	4.526	ppbV	99
38) carbon tetrachloride	11.68	117	65029	4.940	ppbV	98
39) cyclohexane	11.83	56	137239	4.980	ppbV	98
40) Dibromomethane	12.44	93	60218	4.554	ppbV #	98
41) 1,2-dichloropropane	12.47	63	81936	5.041	ppbV	99
42) bromodichloromethane	12.70	83	104099	4.921	ppbV	100
43) 1,4-dioxane	12.74	88	53217	5.166	ppbV	97
44) trichloroethene	12.76	130	82898	5.088	ppbV	99
45) 2,2,4-trimethylpentane	12.80	57	422340	5.012	ppbV	99
46) heptane	13.12	43	142657	4.983	ppbV	98
47) cis-1,3-dichloropropene	14.40	75	73694	4.663	ppbV	98
48) 4-methyl-2-pentanone	13.81	43	164893	5.172	ppbV	100
49) trans-1,3-dichloropropene	13.78	75	95662	5.314	ppbV	99
50) 1,1,2-trichloroethane	14.60	97	77222	5.253	ppbV	93
52) toluene	14.91	91	246827	5.087	ppbV	100
54) 2-hexanone	15.18	43	155069	5.474	ppbV	99
55) dibromochloromethane	15.36	129	105907	5.828	ppbV	97
56) 1,2-dibromoethane	15.60	107	105303	5.523	ppbV	99
57) tetrachloroethene	16.07	166	84739	5.258	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.70	131	72715	5.301	ppbV	99
59) chlorobenzene	16.72	112	179635	5.400	ppbV	95
60) ethylbenzene	17.06	91	315116	5.480	ppbV	99
61) m+p-xylene	17.23	91	500631	10.873	ppbV	99
62) bromoform	17.29	173	83261	5.945	ppbV	97
63) styrene	17.53	104	191542	5.643	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.63	83	193651	5.411	ppbV	100
65) o-xylene	17.63	91	258091	5.550	ppbV	97
66) 1,2,3-Trichloropropane	17.74	75	121639	4.990	ppbV	99
68) isopropylbenzene	18.13	105	288948	5.439	ppbV	100
69) Bromobenzene	18.21	77	163383	5.106	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\
 Data File : r1528233_Ev2.D
 Acq On : 3 Sep 2021 10:08 AM
 Operator : AIRLAB15:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 15:41:09 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:41:03 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0902SIM_I\r1528225_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.68	105	327307	5.470	ppbV	99
71) 1,3,5-trimethylbenzene	18.74	105	264342	5.730	ppbV	96
72) tert-butylbenzene	19.08	119	283584	5.365	ppbV	96
73) 1,2,4-trimethylbenzene	19.08	105	273489	5.724	ppbV	91
74) Benzyl Chloride	19.20	91	195787	5.860	ppbV	98
75) 1,3-dichlorobenzene	19.22	146	176141	5.696	ppbV	95
76) 1,4-dichlorobenzene	19.27	146	176364	5.791	ppbV	97
77) sec-butylbenzene	19.30	105	372347	5.394	ppbV	99
78) p-isopropyltoluene	19.43	119	324525	4.965	ppbV	92
79) 1,2-dichlorobenzene	19.56	146	169293	5.768	ppbV	99
80) n-butylbenzene	19.78	91	337706	5.592	ppbV	95
81) 1,2-dibromo-3-chloropr...	19.93	75	64115	5.458	ppbV	96
82) 1,2,4-trichlorobenzene	21.07	180	125209	6.123	ppbV	98
83) naphthalene	21.19	128	381060	5.546	ppbV	99
84) 1,2,3-trichlorobenzene	21.45	180	117022	5.854	ppbV	99
85) hexachlorobutadiene	21.52	225	99167	5.426	ppbV	97

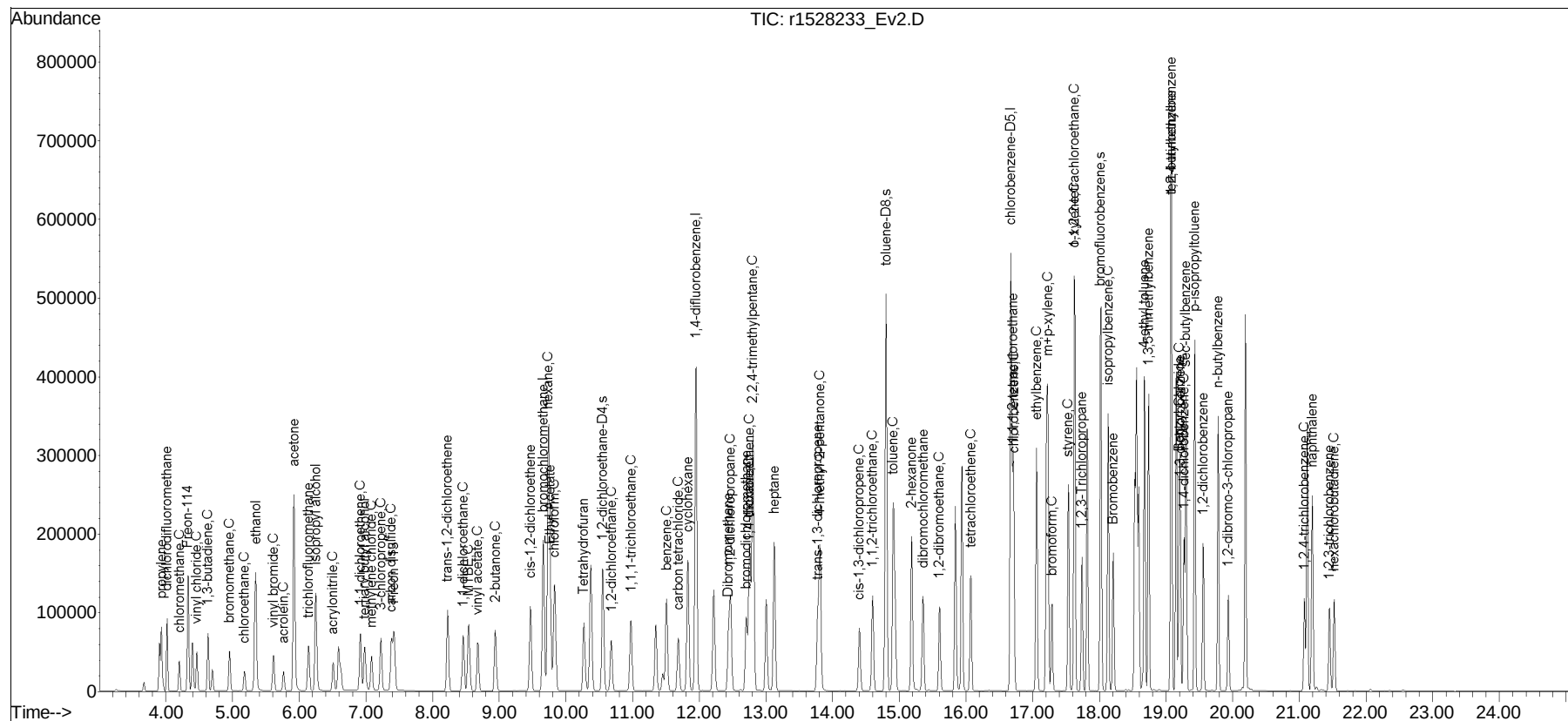
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AirLab15\2021\09\0902SIM_I\
 Data File : r1528233_Ev2.D
 Acq On : 3 Sep 2021 10:08 AM
 Operator : AIRLAB15:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1542872
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 15:41:09 2021
 Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0902SIM_I\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:41:03 2021
 Response via : Initial Calibration

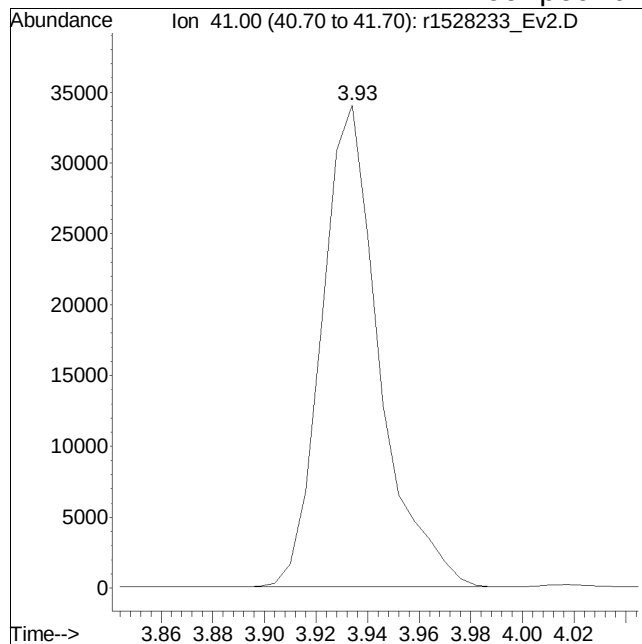
Sub List : Default - All compounds listed 1\09\0902SIM_I\r1528225_Ev2.D



Manual Integration/Negative Proof Report

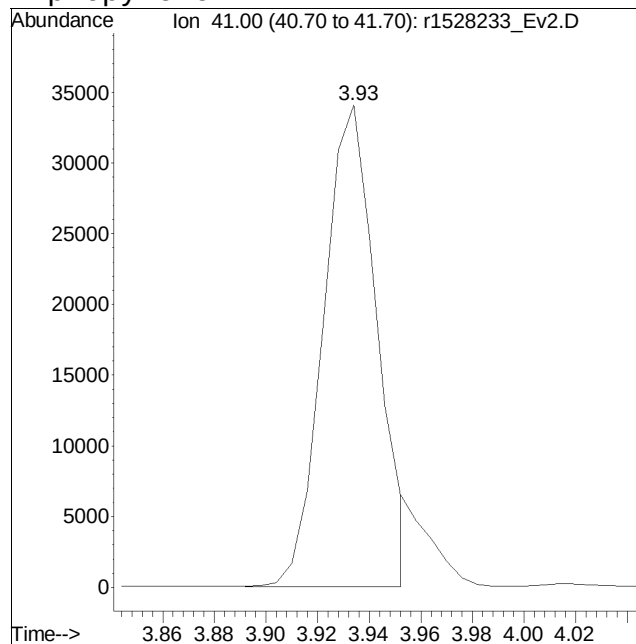
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528233_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/3/2020 0:0: 8 Instrument :
Sample : CT015-SIMSTD5.0 Quant Date : 9/3/2021 3:41 pm

Compound #2: propylene



Original Peak Response = 52706

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 49090 M6

Continuing Calibration

Calibration Verification Summary

Form 7

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC Project Name : FORMER CLEAN ZONE DRY CLEANERS Instrument ID : AIRLAB15 Lab File ID : R1528476_EV2 Sample No : WG1549027-2 Channel :	Lab Number : L2150027 Project Number : 2546.0007Y002 Calibration Date : 09/21/21 13:04 Init. Calib. Date(s) : 09/02/21 09/03/21 Init. Calib. Times : 19:35 01:23
---	---

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	97	-.05
propylene	0.499	0.427	-	14.4	30	91	-.03
dichlorodifluoromethane	0.778	0.847	-	-8.9	30	110	-.03
chloromethane	0.408	0.424	-	-3.9	30	105	-.04
Freon-114	1.02	1.082	-	-6.1	30	106	-.04
vinyl chloride	0.573	0.486	-	15.2	30	89	-.04
1,3-butadiene	0.433	0.422	-	2.5	30	98	-.04
bromomethane	0.465	0.43	-	7.5	30	99	-.04
chloroethane	0.272	0.236	-	13.2	30	91	-.04
ethanol	0.347	0.358	-	-3.2	30	113	-.05
vinyl bromide	0.389	0.395	-	-1.5	30	103	-.04
acrolein	0.23	0.19	-	17.4	30	88	-.04
acetone	0.637	0.578	-	9.3	30	93	-.04
trichlorofluoromethane	0.679	0.715	-	-5.3	30	109	-.04
isopropyl alcohol	0.758	0.67	-	11.6	30	90	-.04
acrylonitrile	0.368	0.363	-	1.4	30	100	-.05
1,1-dichloroethene	0.734	0.635	-	13.5	30	92	-.05
tertiary butyl alcohol	0.89	0.716	-	19.6	30	80	-.04
methylene chloride	0.502	0.521	-	-3.8	30	111	-.05
3-chloropropene	0.691	0.592	-	14.3	30	93	-.05
carbon disulfide	1.283	1.419	-	-10.6	30	121	-.05
Freon 113	0.817	0.915	-	-12	30	124	-.05
trans-1,2-dichloroethene	0.886	0.765	-	13.7	30	89	-.04
1,1-dichloroethane	1.009	0.92	-	8.8	30	95	-.05
MTBE	1.256	1.246	-	0.8	30	101	-.04
vinyl acetate	1.191	1.034	-	13.2	30	88	-.05
2-butanone	1.211	1.128	-	6.9	30	94	-.04
cis-1,2-dichloroethene	0.795	0.724	-	8.9	30	95	-.05
Ethyl Acetate	0.227	0.203	-	10.6	30	91	-.04
chloroform	0.92	0.914	-	0.7	30	103	-.04
Tetrahydrofuran	0.774	0.688	-	11.1	30	89	-.05
1,2-dichloroethane	0.603	0.536	-	11.1	30	96	-.05
1,4-difluorobenzene	1	1	-	0	30	104	-.05
hexane	0.49	0.393	-	19.8	30	87	-.05
1,1,1-trichloroethane	0.3	0.292	-	2.7	30	109	-.05
benzene	0.816	0.72	-	11.8	30	101	-.05
carbon tetrachloride	0.255	0.268	-	-5.1	30	115	-.05
cyclohexane	0.534	0.433	-	18.9	30	89	-.05
Dibromomethane	0.256	0.211	-	17.6	30	96	-.05
1,2-dichloropropane	0.315	0.261	-	17.1	30	95	-.05
bromodichloromethane	0.41	0.384	-	6.3	30	99	-.05
1,4-dioxane	0.2	0.173	-	13.5	30	92	-.05
trichloroethene	0.316	0.286	-	9.5	30	100	-.05

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2150027
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Calibration Date	: 09/21/21 13:04
Lab File ID	: R1528476_EV2	Init. Calib. Date(s)	: 09/02/21 09/03/21
Sample No	: WG1549027-2	Init. Calib. Times	: 19:35 01:23
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	1.634	1.311	-	19.8	30	87	-.05
heptane	0.555	0.478	-	13.9	30	92	-.05
cis-1,3-dichloropropene	0.306	0.269	-	12.1	30	91	-.05
4-methyl-2-pentanone	0.618	0.554	-	10.4	30	94	-.05
trans-1,3-dichloropropene	0.349	0.351	-	-0.6	30	108	-.05
1,1,2-trichloroethane	0.285	0.272	-	4.6	30	106	-.04
chlorobenzene-D5	1	1	-	0	30	86	-.03
toluene	4.825	4.875	-	-1	30	99	-.04
2-hexanone	2.817	2.905	-	-3.1	30	88	-.04
dibromochloromethane	1.807	2.149	-	-18.9	30	105	-.04
1,2-dibromoethane	1.896	2.361	-	-24.5	30	113	-.04
tetrachloroethene	1.603	1.799	-	-12.2	30	104	-.03
1,1,1,2-tetrachloroethane	1.364	1.462	-	-7.2	30	97	-.04
chlorobenzene	3.308	3.818	-	-15.4	30	104	-.03
ethylbenzene	5.718	6.211	-	-8.6	30	99	-.03
m+p-xylene	4.579	5.051	-	-10.3	30	100	-.02
bromoform	1.393	1.776	-	-27.5	30	108	-.03
styrene	3.375	4.074	-	-20.7	30	106	-.03
1,1,2,2-tetrachloroethane	3.559	3.74	-	-5.1	30	94	-.03
o-xylene	4.625	5.111	-	-10.5	30	99	-.03
1,2,3-Trichloropropane	2.424	2.628	-	-8.4	30	98	-.03
isopropylbenzene	5.283	6.386	-	-20.9	30	107	-.02
Bromobenzene	3.182	3.381	-	-6.3	30	94	-.02
4-ethyl toluene	5.951	7.264	-	-22.1	30	106	-.03
1,3,5-trimethylbenzene	4.588	5.837	-	-27.2	30	110	-.03
tert-butylbenzene	5.257	5.792	-	-10.2	30	95	0
1,2,4-trimethylbenzene	4.751	6.037	-	-27.1	30	112	0
Benzyl Chloride	3.322	3.275	-	1.4	30	81	0
1,3-dichlorobenzene	3.075	4.093	-	-33.1*	30	117	0
1,4-dichlorobenzene	3.028	4.002	-	-32.2*	30	115	0
sec-butylbenzene	6.864	8.228	-	-19.9	30	105	0
p-isopropyltoluene	6.499	6.58	-	-1.2	30	86	0
1,2-dichlorobenzene	2.919	3.902	-	-33.7*	30	116	0
n-butylbenzene	6.006	6.475	-	-7.8	30	94	0
1,2-dibromo-3-chloropropan	1.168	1.323	-	-13.3	30	92	0
1,2,4-trichlorobenzene	2.033	2.178	-	-7.1	30	85	0
naphthalene	6.833	6.678	-	2.3	30	79	0
1,2,3-trichlorobenzene	1.988	2.116	-	-6.4	30	82	0
hexachlorobutadiene	1.818	1.906	-	-4.8	30	88	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528476_Ev2.D
 Acq On : 21 Sep 2021 1:04 PM
 Operator : AIRLAB15:RY
 Sample : WG1549027-2,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:47:54 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	97	-0.05
2	propylene	0.499	0.427	14.4	91	-0.03
3	dichlorodifluoromethane	0.778	0.847	-8.9	110	-0.03
4 C	chloromethane	0.408	0.424	-3.9	105	-0.04
5	Freon-114	1.020	1.082	-6.1	106	-0.04
6 C	vinyl chloride	0.573	0.486	15.2	89	-0.04
7 C	1,3-butadiene	0.433	0.422	2.5	98	-0.04
8 C	bromomethane	0.465	0.430	7.5	99	-0.04
9 C	chloroethane	0.272	0.236	13.2	91	-0.04
10	ethanol	0.347	0.358	-3.2	113	-0.05
11 C	vinyl bromide	0.389	0.395	-1.5	103	-0.04
12 C	acrolein	0.230	0.190	17.4	88	-0.04
13	acetone	0.637	0.578	9.3	93	-0.04
14	trichlorofluoromethane	0.679	0.715	-5.3	109	-0.04
15	isopropyl alcohol	0.758	0.670	11.6	90	-0.04
16 C	acrylonitrile	0.368	0.363	1.4	100	-0.05
17 C	1,1-dichloroethene	0.734	0.635	13.5	92	-0.05
18	tertiary butyl alcohol	0.890	0.716	19.6	80	-0.04
19 C	methylene chloride	0.502	0.521	-3.8	111	-0.05
20 C	3-chloropropene	0.691	0.592	14.3	93	-0.05
21 C	carbon disulfide	1.283	1.419	-10.6	121	-0.05
22	Freon 113	0.817	0.915	-12.0	124	-0.05
23	trans-1,2-dichloroethene	0.886	0.765	13.7	89	-0.04
24 C	1,1-dichloroethane	1.009	0.920	8.8	95	-0.05
25 C	MTBE	1.256	1.246	0.8	101	-0.04
26 C	vinyl acetate	1.191	1.034	13.2	88	-0.05
27 C	2-butanone	1.211	1.128	6.9	94	-0.04
28	cis-1,2-dichloroethene	0.795	0.724	8.9	95	-0.05
29	Ethyl Acetate	0.227	0.203	10.6	91	-0.04
30 C	chloroform	0.920	0.914	0.7	103	-0.04
31	Tetrahydrofuran	0.774	0.688	11.1	89	-0.05
32 C	1,2-dichloroethane	0.603	0.536	11.1	96	-0.05
33 I	1,4-difluorobenzene	1.000	1.000	0.0	104	-0.05
34 C	hexane	0.490	0.393	19.8	87	-0.05
36 C	1,1,1-trichloroethane	0.300	0.292	2.7	109	-0.05
37 C	benzene	0.816	0.720	11.8	101	-0.05
38 C	carbon tetrachloride	0.255	0.268	-5.1	115	-0.05
39	cyclohexane	0.534	0.433	18.9	89	-0.05

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528476_Ev2.D
 Acq On : 21 Sep 2021 1:04 PM
 Operator : AIRLAB15:RY
 Sample : WG1549027-2,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:47:54 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	Dibromomethane	0.256	0.211	17.6	96	-0.05
41 C	1,2-dichloropropane	0.315	0.261	17.1	95	-0.05
42	bromodichloromethane	0.410	0.384	6.3	99	-0.05
43 C	1,4-dioxane	0.200	0.173	13.5	92	-0.05
44 C	trichloroethene	0.316	0.286	9.5	100	-0.05
45 C	2,2,4-trimethylpentane	1.634	1.311	19.8	87	-0.05
46	heptane	0.555	0.478	13.9	92	-0.05
47 C	cis-1,3-dichloropropene	0.306	0.269	12.1	91	-0.05
48 C	4-methyl-2-pentanone	0.618	0.554	10.4	94	-0.05
49	trans-1,3-dichloropropene	0.349	0.351	-0.6	108	-0.05
50 C	1,1,2-trichloroethane	0.285	0.272	4.6	106	-0.04
51 I	chlorobenzene-D5	1.000	1.000	0.0	86	-0.03
52 C	toluene	4.825	4.875	-1.0	99	-0.04
54	2-hexanone	2.817	2.905	-3.1	88	-0.04
55	dibromochloromethane	1.807	2.149	-18.9	105	-0.04
56 C	1,2-dibromoethane	1.896	2.361	-24.5	113	-0.04
57 C	tetrachloroethene	1.603	1.799	-12.2	104	-0.03
58	1,1,1,2-tetrachloroethane	1.364	1.462	-7.2	97	-0.04
59 C	chlorobenzene	3.308	3.818	-15.4	104	-0.03
60 C	ethylbenzene	5.718	6.211	-8.6	99	-0.03
61 C	m+p-xylene	4.579	5.051	-10.3	100	-0.02
62 C	bromoforn	1.393	1.776	-27.5	108	-0.03
63 C	styrene	3.375	4.074	-20.7	106	-0.03
64 C	1,1,2,2-tetrachloroethane	3.559	3.740	-5.1	94	-0.03
65 C	o-xylene	4.625	5.111	-10.5	99	-0.03
66	1,2,3-Trichloropropane	2.424	2.628	-8.4	98	-0.03
68 C	isopropylbenzene	5.283	6.386	-20.9	107	-0.02
69	Bromobenzene	3.182	3.381	-6.3	94	-0.02
70	4-ethyl toluene	5.951	7.264	-22.1	106	-0.03
71	1,3,5-trimethylbenzene	4.588	5.837	-27.2	110	-0.03
72	tert-butylbenzene	5.257	5.792	-10.2	95	0.00
73	1,2,4-trimethylbenzene	4.751	6.037	-27.1	112	0.00
74 C	Benzyl Chloride	3.322	3.275	1.4	81	0.00
75	1,3-dichlorobenzene	3.075	4.093	-33.1#	117	0.00
76 C	1,4-dichlorobenzene	3.028	4.002	-32.2#	115	0.00
77	sec-butylbenzene	6.864	8.228	-19.9	105	0.00
78	p-isopropyltoluene	6.499	6.580	-1.2	86	0.00
79	1,2-dichlorobenzene	2.919	3.902	-33.7#	116	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528476_Ev2.D
 Acq On : 21 Sep 2021 1:04 PM
 Operator : AIRLAB15:RY
 Sample : WG1549027-2,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:47:54 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	n-butylbenzene	6.006	6.475	-7.8	94	0.00
81	1,2-dibromo-3-chloropropane	1.168	1.323	-13.3	92	0.00
82 C	1,2,4-trichlorobenzene	2.033	2.178	-7.1	85	0.00
83	naphthalene	6.833	6.678	2.3	79	0.00
84	1,2,3-trichlorobenzene	1.988	2.116	-6.4	82	0.00
85 C	hexachlorobutadiene	1.818	1.906	-4.8	88	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528476_Ev2.D
 Acq On : 21 Sep 2021 1:04 PM
 Operator : AIRLAB15:RY
 Sample : WG1549027-2,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:47:54 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\r1528476_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.62	49	214864	10.000	ppbV	-0.05
Standard Area = 214864			Recovery	=	100.00%	
33) 1,4-difluorobenzene	11.91	114	548072	10.000	ppbV	-0.05
Standard Area = 548072			Recovery	=	100.00%	
51) chlorobenzene-D5	16.64	54	95313	10.000	ppbV	-0.03
Standard Area = 95313			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) propylene	3.90	41	45889M6	4.282	ppbV	
3) dichlorodifluoromethane	3.99	85	90961	5.440	ppbV	99
4) chloromethane	4.17	50	45516	5.196	ppbV	97
5) Freon-114	4.30	85	116252	5.304	ppbV	99
6) vinyl chloride	4.43	62	52227	4.242	ppbV	99
7) 1,3-butadiene	4.60	54	45368	4.878	ppbV	90
8) bromomethane	4.92	94	46206	4.622	ppbV	98
9) chloroethane	5.14	64	25336	4.341	ppbV	92
10) ethanol	5.30	31	192568	25.865	ppbV	87
11) vinyl bromide	5.57	106	42426	5.081	ppbV	94
12) acrolein	5.72	56	20405	4.134	ppbV	98
13) acetone	5.88	43	310644	22.682	ppbV	93
14) trichlorofluoromethane	6.10	101	76867	5.270	ppbV	99
15) isopropyl alcohol	6.21	45	179829	11.048	ppbV	98
16) acrylonitrile	6.47	53	39004	4.927	ppbV	94
17) 1,1-dichloroethene	6.87	61	68210	4.324	ppbV	96
18) tertiary butyl alcohol	6.94	59	76870	4.020	ppbV	# 87
19) methylene chloride	7.04	49	56019	5.194	ppbV	99
20) 3-chloropropene	7.18	41	63649	4.286	ppbV	# 95
21) carbon disulfide	7.34	76	152425	5.527	ppbV	94
22) Freon 113	7.37	101	98349	5.604	ppbV	96
23) trans-1,2-dichloroethene	8.18	61	82185	4.317	ppbV	# 87
24) 1,1-dichloroethane	8.42	63	98822	4.558	ppbV	98
25) MTBE	8.50	73	133892	4.963	ppbV	# 91
26) vinyl acetate	8.63	43	111095	4.340	ppbV	97
27) 2-butanone	8.90	43	121224	4.660	ppbV	94
28) cis-1,2-dichloroethene	9.43	61	77754	4.551	ppbV	92
29) Ethyl Acetate	9.72	61	21818	4.476	ppbV	83
30) chloroform	9.78	83	98209	4.967	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528476_Ev2.D
 Acq On : 21 Sep 2021 1:04 PM
 Operator : AIRLAB15:RY
 Sample : WG1549027-2,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:47:54 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\r1528476_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Tetrahydrofuran	10.23	42	73907	4.442	ppbV	94
32) 1,2-dichloroethane	10.63	62	57594	4.444	ppbV	98
34) hexane	9.69	57	107811	4.017	ppbV	97
36) 1,1,1-trichloroethane	10.93	97	80090	4.869	ppbV	96
37) benzene	11.46	78	197356	4.416	ppbV	97
38) carbon tetrachloride	11.64	117	73547	5.258	ppbV	97
39) cyclohexane	11.78	56	118771	4.057	ppbV	95
40) Dibromomethane	12.40	93	57942	4.124	ppbV #	95
41) 1,2-dichloropropane	12.43	63	71583	4.145	ppbV	98
42) bromodichloromethane	12.66	83	105097	4.676	ppbV	98
43) 1,4-dioxane	12.70	88	47495	4.339	ppbV	98
44) trichloroethene	12.71	130	78338	4.526	ppbV	97
45) 2,2,4-trimethylpentane	12.76	57	359163	4.011	ppbV	98
46) heptane	13.08	43	131097	4.310	ppbV	96
47) cis-1,3-dichloropropene	14.36	75	73666	4.387	ppbV	92
48) 4-methyl-2-pentanone	13.77	43	151700	4.478	ppbV	95
49) trans-1,3-dichloropropene	13.73	75	96238	5.032	ppbV	92
50) 1,1,2-trichloroethane	14.56	97	74418	4.764	ppbV	91
52) toluene	14.88	91	232349	5.052	ppbV	100
54) 2-hexanone	15.15	43	138419	5.156	ppbV	93
55) dibromochloromethane	15.32	129	102401	5.945	ppbV	98
56) 1,2-dibromoethane	15.57	107	112528	6.227	ppbV	99
57) tetrachloroethene	16.04	166	85755	5.614	ppbV	97
58) 1,1,1,2-tetrachloroethane	16.67	131	69692	5.361	ppbV	96
59) chlorobenzene	16.68	112	181944	5.770	ppbV	97
60) ethylbenzene	17.02	91	295998	5.431	ppbV	95
61) m+p-xylene	17.19	91	481433	11.031	ppbV	95
62) bromoform	17.26	173	84655	6.377	ppbV	99
63) styrene	17.51	104	194151	6.035	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.60	83	178212	5.254	ppbV	99
65) o-xylene	17.60	91	243578	5.526	ppbV	96
66) 1,2,3-Trichloropropane	17.71	75	125231	5.420	ppbV	94
68) isopropylbenzene	18.11	105	304321	6.043	ppbV	95
69) Bromobenzene	18.18	77	161149	5.313	ppbV	90
70) 4-ethyl toluene	18.65	105	346155	6.103	ppbV	93
71) 1,3,5-trimethylbenzene	18.72	105	278179	6.362	ppbV	89
72) tert-butylbenzene	19.06	119	276017	5.509	ppbV	96
73) 1,2,4-trimethylbenzene	19.06	105	287700	6.353	ppbV #	84
74) Benzyl Chloride	19.17	91	156073	4.928	ppbV	99
75) 1,3-dichlorobenzene	19.19	146	195061	6.656	ppbV	92

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528476_Ev2.D
 Acq On : 21 Sep 2021 1:04 PM
 Operator : AIRLAB15:RY
 Sample : WG1549027-2,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:47:54 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\r1528476_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-dichlorobenzene	19.25	146	190712	6.607	ppbV	95
77) sec-butylbenzene	19.27	105	392095	5.993	ppbV	98
78) p-isopropyltoluene	19.41	119	313583	5.062	ppbV	91
79) 1,2-dichlorobenzene	19.53	146	185934	6.683	ppbV	95
80) n-butylbenzene	19.76	91	308580	5.391	ppbV	93
81) 1,2-dibromo-3-chloropr...	19.91	75	63036	5.661	ppbV	92
82) 1,2,4-trichlorobenzene	21.05	180	103796	5.355	ppbV	96
83) naphthalene	21.17	128	318267	4.887	ppbV	98
84) 1,2,3-trichlorobenzene	21.43	180	100860	5.323	ppbV	94
85) hexachlorobutadiene	21.49	225	90828	5.243	ppbV	99

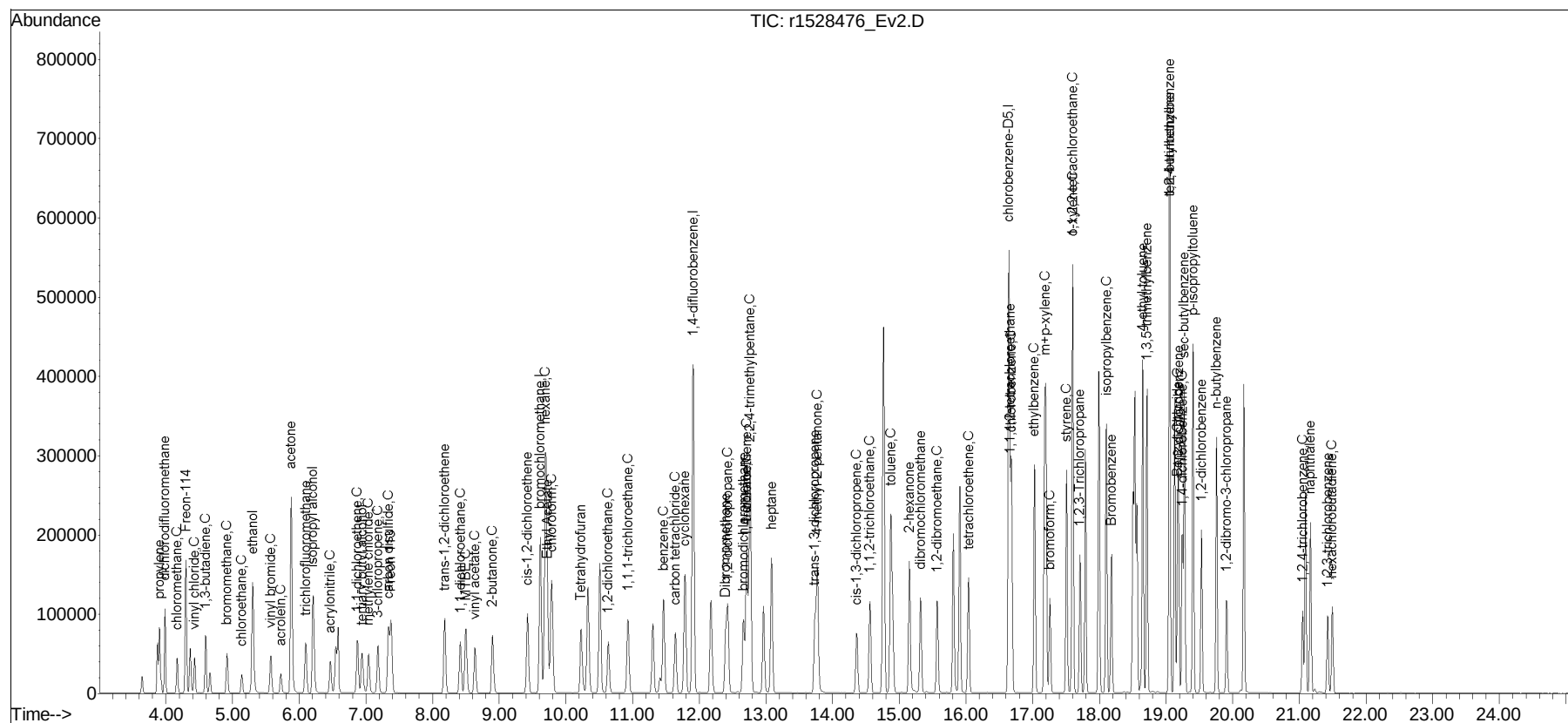
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path   : 0:\Forensics\Data\AirLab15\2021\09\0921SIM\
Data File  : r1528476_Ev2.D
Acq On     : 21 Sep 2021   1:04 PM
Operator   : AIRLAB15:RY
Sample     : WG1549027-2,3,250,250
Misc       : WG1549027,ICAL18280
ALS Vial   : 0      Sample Multiplier: 1
```

Quant Time: Sep 21 13:47:54 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 15:40:18 2021
Response via : Initial Calibration

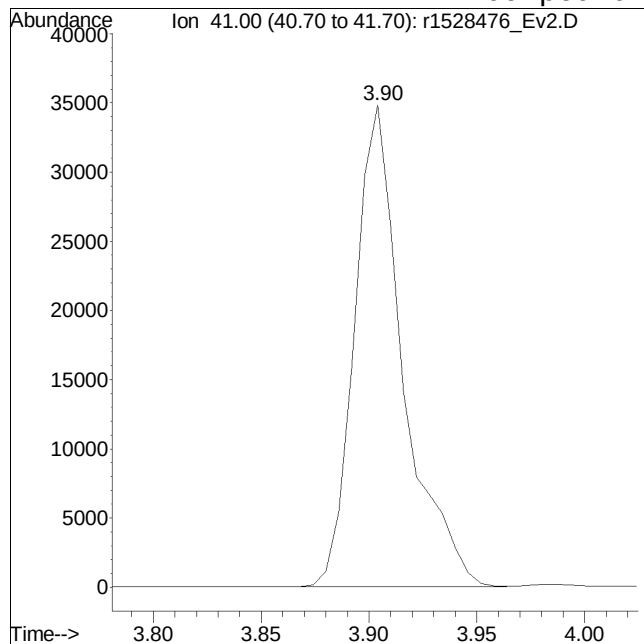
Sub List : Default-LCS-AP2 - All compounds listed1SIM\r1528476_Ev2.D



Manual Integration/Negative Proof Report

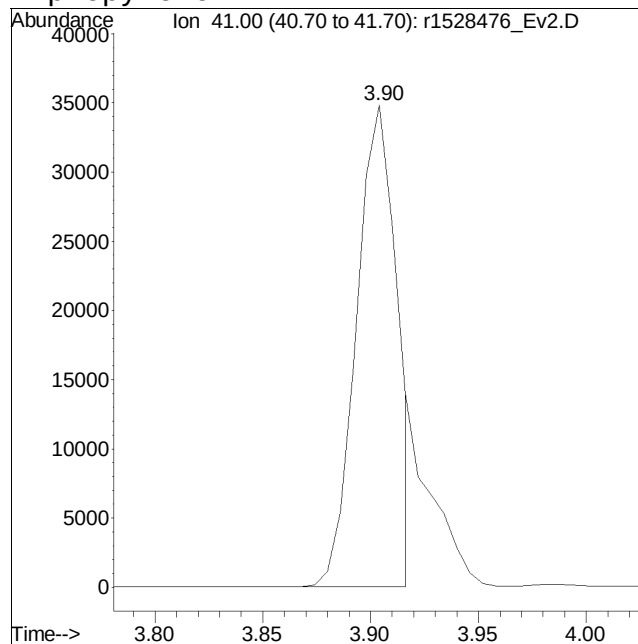
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM15_210902.M
Data File : r1528476_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:1: 4 Instrument :
Sample : WG1549027-2,3,250,250 Quant Date : 9/21/2021 2:47 pm

Compound #2: propylene



Original Peak Response = 54383

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 45889 M6

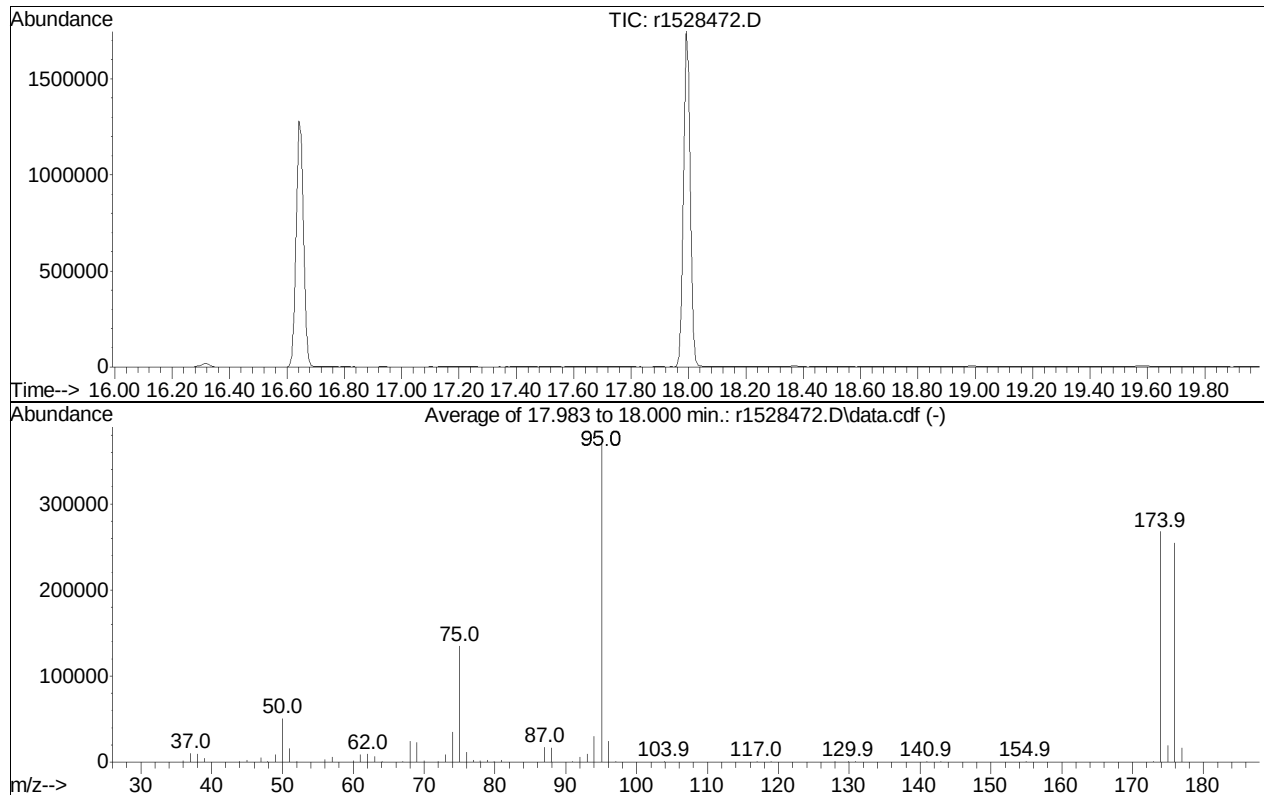
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

BFB

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528472.D
 Acq On : 21 Sep 2021 10:24 AM
 Operator : AIRLAB15:RY
 Sample : WG1549027-1,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Fri Sep 03 15:40:18 2021



Spectrum Information: Average of 17.983 to 18.000 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.6	50507	PASS
75	95	30	66	36.3	134815	PASS
95	95	100	100	100.0	371180	PASS
96	95	5	9	6.5	24266	PASS
173	174	0.00	2	0.5	1371	PASS
174	95	50	120	72.1	267655	PASS
175	174	4	9	7.2	19219	PASS
176	174	93	101	95.2	254706	PASS
177	176	5	9	6.5	16626	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528478_Ev2.D
 Acq On : 21 Sep 2021 3:31 PM
 Operator : AIRLAB15:RY
 Sample : WG1549027-4,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 06:37:43 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\r1528476_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.62	49	211582	10.000	ppbV	-0.05
Standard Area = 214864			Recovery =		98.47%	
33) 1,4-difluorobenzene	11.91	114	528441	10.000	ppbV	-0.05
Standard Area = 548072			Recovery =		96.42%	
51) chlorobenzene-D5	16.62	54	92360	10.000	ppbV	-0.06
Standard Area = 95313			Recovery =		96.90%	

System Monitoring Compounds

Target Compounds			Qvalue
6) vinyl chloride	0.00	0	N.D.
17) 1,1-dichloroethene	0.00	0	N.D.
28) cis-1,2-dichloroethene	0.00	0	N.D.
36) 1,1,1-trichloroethane	10.82	0	N.D.
38) carbon tetrachloride	0.00	0	N.D.
44) trichloroethene	0.00	0	N.D.
57) tetrachloroethene	0.00	0	N.D.

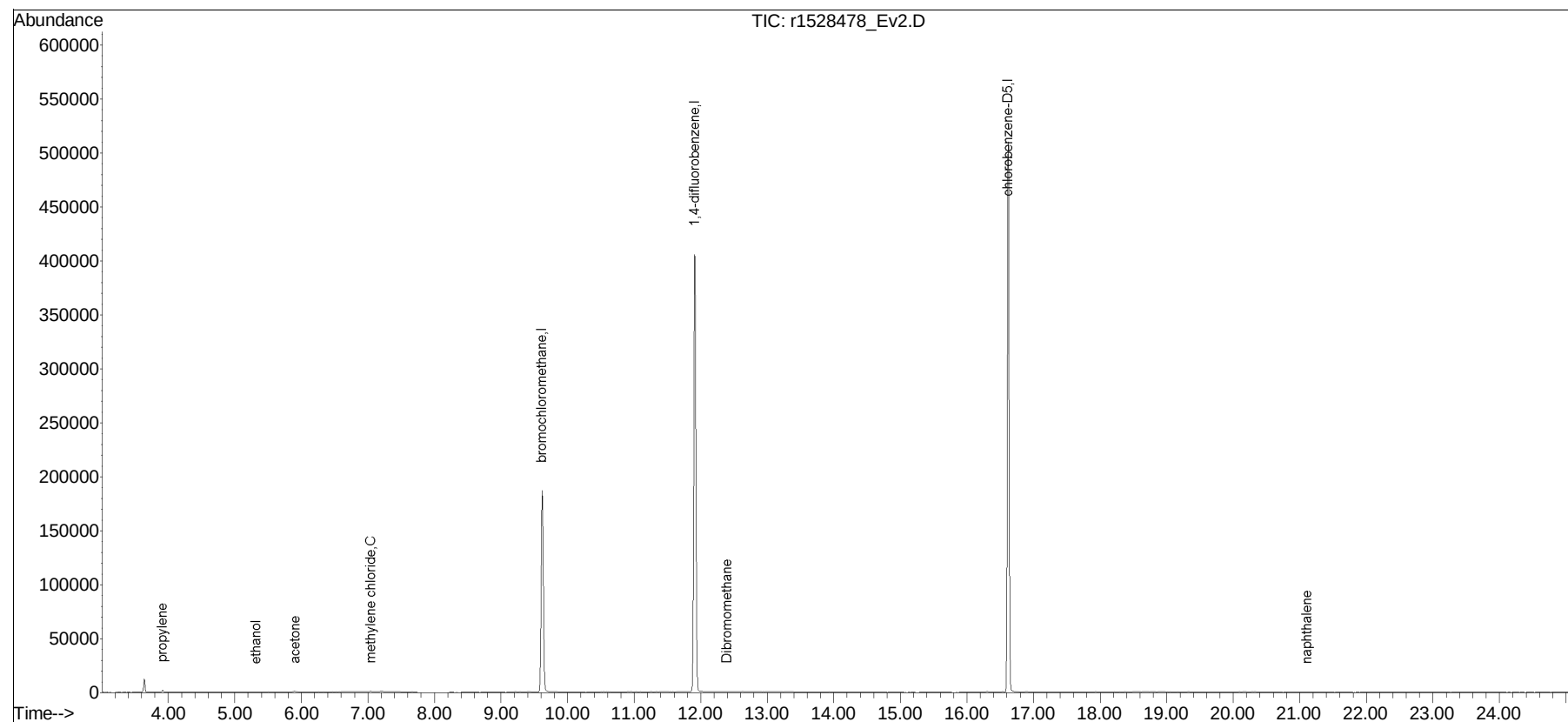
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
Data File : r1528478_Ev2.D
Acq On : 21 Sep 2021 3:31 PM
Operator : AIRLAB15:RY
Sample : WG1549027-4,3,250,250
Misc : WG1549027,ICAL18280
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 06:37:43 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 15:40:18 2021
Response via : Initial Calibration

Sub List : Default-LCS-AP2 - All compounds listed1SIM\r1528476_Ev2.D



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528478_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:3: 1 Instrument :
Sample : WG1549027-4,3,250,250 Quant Date : 9/22/2021 7:37 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528476_Ev2.D
 Acq On : 21 Sep 2021 1:04 PM
 Operator : AIRLAB15:RY
 Sample : WG1549027-3,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:47:54 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	97	-0.05
2	propylene	5.000	4.282	14.4	91	-0.03
3	dichlorodifluoromethane	5.000	5.440	-8.8	110	-0.03
4 C	chloromethane	5.000	5.196	-3.9	105	-0.04
5	Freon-114	5.000	5.304	-6.1	106	-0.04
6 C	vinyl chloride	5.000	4.242	15.2	89	-0.04
7 C	1,3-butadiene	5.000	4.878	2.4	98	-0.04
8 C	bromomethane	5.000	4.622	7.6	99	-0.04
9 C	chloroethane	5.000	4.341	13.2	91	-0.04
10	ethanol	25.000	25.865	-3.5	113	-0.05
11 C	vinyl bromide	5.000	5.081	-1.6	103	-0.04
12 C	acrolein	5.000	4.134	17.3	88	-0.04
13	acetone	25.000	22.682	9.3	93	-0.04
14	trichlorofluoromethane	5.000	5.270	-5.4	109	-0.04
15	isopropyl alcohol	12.500	11.048	11.6	90	-0.04
16 C	acrylonitrile	5.000	4.927	1.5	100	-0.05
17 C	1,1-dichloroethene	5.000	4.324	13.5	92	-0.05
18	tertiary butyl alcohol	5.000	4.020	19.6	80	-0.04
19 C	methylene chloride	5.000	5.194	-3.9	111	-0.05
20 C	3-chloropropene	5.000	4.286	14.3	93	-0.05
21 C	carbon disulfide	5.000	5.527	-10.5	121	-0.05
22	Freon 113	5.000	5.604	-12.1	124	-0.05
23	trans-1,2-dichloroethene	5.000	4.317	13.7	89	-0.04
24 C	1,1-dichloroethane	5.000	4.558	8.8	95	-0.05
25 C	MTBE	5.000	4.963	0.7	101	-0.04
26 C	vinyl acetate	5.000	4.340	13.2	88	-0.05
27 C	2-butanone	5.000	4.660	6.8	94	-0.04
28	cis-1,2-dichloroethene	5.000	4.551	9.0	95	-0.05
29	Ethyl Acetate	5.000	4.476	10.5	91	-0.04
30 C	chloroform	5.000	4.967	0.7	103	-0.04
31	Tetrahydrofuran	5.000	4.442	11.2	89	-0.05
32 C	1,2-dichloroethane	5.000	4.444	11.1	96	-0.05
33 I	1,4-difluorobenzene	10.000	10.000	0.0	104	-0.05
34 C	hexane	5.000	4.017	19.7	87	-0.05
36 C	1,1,1-trichloroethane	5.000	4.869	2.6	109	-0.05
37 C	benzene	5.000	4.416	11.7	101	-0.05
38 C	carbon tetrachloride	5.000	5.258	-5.2	115	-0.05
39	cyclohexane	5.000	4.057	18.9	89	-0.05

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528476_Ev2.D
 Acq On : 21 Sep 2021 1:04 PM
 Operator : AIRLAB15:RY
 Sample : WG1549027-3,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:47:54 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40	Dibromomethane	5.000	4.124	17.5	96	-0.05
41 C	1,2-dichloropropane	5.000	4.145	17.1	95	-0.05
42	bromodichloromethane	5.000	4.676	6.5	99	-0.05
43 C	1,4-dioxane	5.000	4.339	13.2	92	-0.05
44 C	trichloroethene	5.000	4.526	9.5	100	-0.05
45 C	2,2,4-trimethylpentane	5.000	4.011	19.8	87	-0.05
46	heptane	5.000	4.310	13.8	92	-0.05
47 C	cis-1,3-dichloropropene	5.000	4.387	12.3	91	-0.05
48 C	4-methyl-2-pentanone	5.000	4.478	10.4	94	-0.05
49	trans-1,3-dichloropropene	5.000	5.032	-0.6	108	-0.05
50 C	1,1,2-trichloroethane	5.000	4.764	4.7	106	-0.04
51 I	chlorobenzene-D5	10.000	10.000	0.0	86	-0.03
52 C	toluene	5.000	5.052	-1.0	99	-0.04
54	2-hexanone	5.000	5.156	-3.1	88	-0.04
55	dibromochloromethane	5.000	5.945	-18.9	105	-0.04
56 C	1,2-dibromoethane	5.000	6.227	-24.5	113	-0.04
57 C	tetrachloroethene	5.000	5.614	-12.3	104	-0.03
58	1,1,1,2-tetrachloroethane	5.000	5.361	-7.2	97	-0.04
59 C	chlorobenzene	5.000	5.770	-15.4	104	-0.03
60 C	ethylbenzene	5.000	5.431	-8.6	99	-0.03
61 C	m+p-xylene	10.000	11.031	-10.3	100	-0.02
62 C	bromofom	5.000	6.377	-27.5	108	-0.03
63 C	styrene	5.000	6.035	-20.7	106	-0.03
64 C	1,1,2,2-tetrachloroethane	5.000	5.254	-5.1	94	-0.03
65 C	o-xylene	5.000	5.526	-10.5	99	-0.03
66	1,2,3-Trichloropropane	5.000	5.420	-8.4	98	-0.03
68 C	isopropylbenzene	5.000	6.043	-20.9	107	-0.02
69	Bromobenzene	5.000	5.313	-6.3	94	-0.02
70	4-ethyl toluene	5.000	6.103	-22.1	106	-0.03
71	1,3,5-trimethylbenzene	5.000	6.362	-27.2	110	-0.03
72	tert-butylbenzene	5.000	5.509	-10.2	95	0.00
73	1,2,4-trimethylbenzene	5.000	6.353	-27.1	112	0.00
74 C	Benzyl Chloride	5.000	4.928	1.4	81	0.00
75	1,3-dichlorobenzene	5.000	6.656	-33.1#	117	0.00
76 C	1,4-dichlorobenzene	5.000	6.607	-32.1#	115	0.00
77	sec-butylbenzene	5.000	5.993	-19.9	105	0.00
78	p-isopropyltoluene	5.000	5.062	-1.2	86	0.00
79	1,2-dichlorobenzene	5.000	6.683	-33.7#	116	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528476_Ev2.D
 Acq On : 21 Sep 2021 1:04 PM
 Operator : AIRLAB15:RY
 Sample : WG1549027-3,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:47:54 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
80	n-butylbenzene	5.000	5.391	-7.8	94	0.00
81	1,2-dibromo-3-chloropropane	5.000	5.661	-13.2	92	0.00
82 C	1,2,4-trichlorobenzene	5.000	5.355	-7.1	85	0.00
83	naphthalene	5.000	4.887	2.3	79	0.00
84	1,2,3-trichlorobenzene	5.000	5.323	-6.5	82	0.00
85 C	hexachlorobutadiene	5.000	5.243	-4.9	88	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528476_Ev2.D
 Acq On : 21 Sep 2021 1:04 PM
 Operator : AIRLAB15:RY
 Sample : WG1549027-3,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:47:54 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\r1528476_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.62	49	214864	10.000	ppbV	-0.05
Standard Area = 214864			Recovery =	100.00%		
33) 1,4-difluorobenzene	11.91	114	548072	10.000	ppbV	-0.05
Standard Area = 548072			Recovery =	100.00%		
51) chlorobenzene-D5	16.64	54	95313	10.000	ppbV	-0.03
Standard Area = 95313			Recovery =	100.00%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.43	62	52227	4.242	ppbV	99
17) 1,1-dichloroethene	6.87	61	68210	4.324	ppbV	96
28) cis-1,2-dichloroethene	9.43	61	77754	4.551	ppbV	92
36) 1,1,1-trichloroethane	10.93	97	80090	4.869	ppbV	96
38) carbon tetrachloride	11.64	117	73547	5.258	ppbV	97
44) trichloroethene	12.71	130	78338	4.526	ppbV	97
57) tetrachloroethene	16.04	166	85755	5.614	ppbV	97

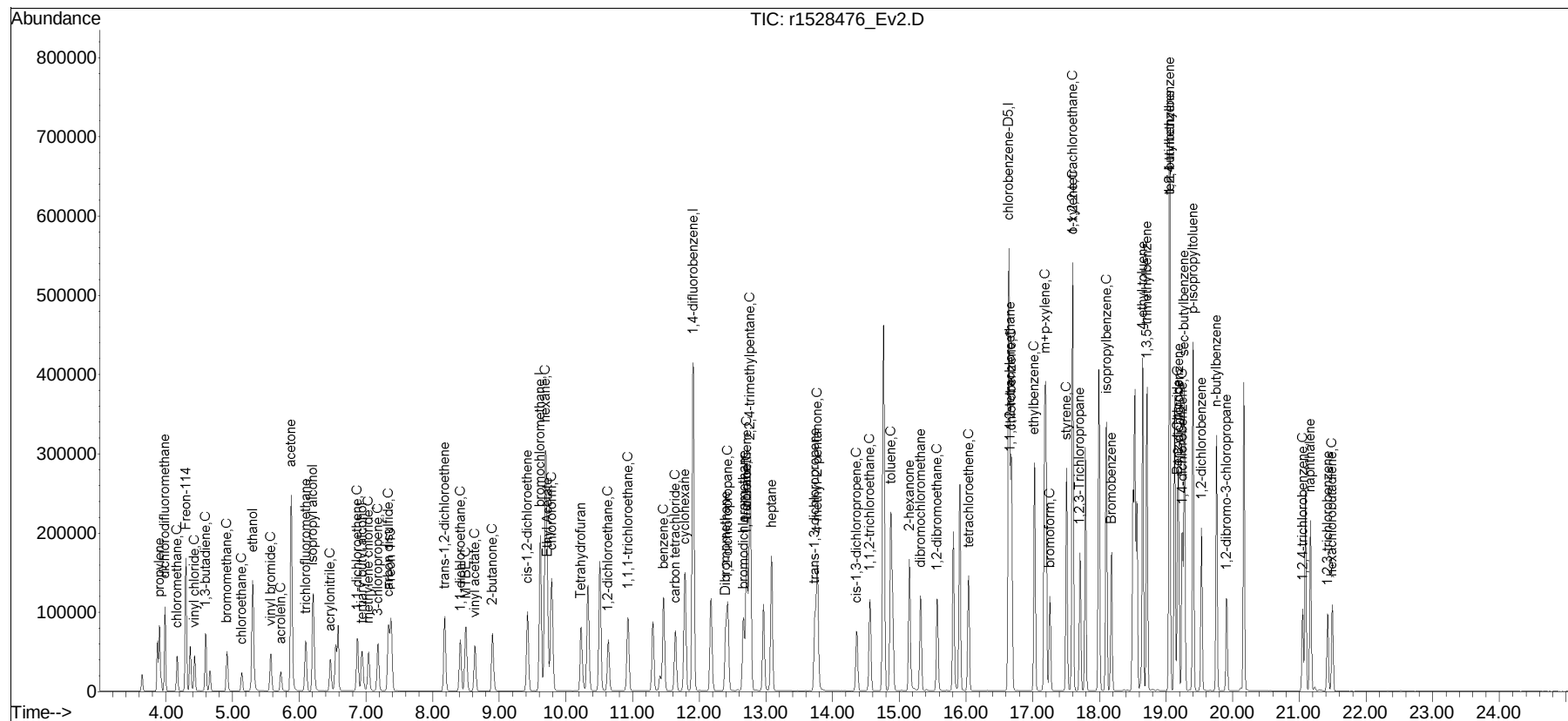
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

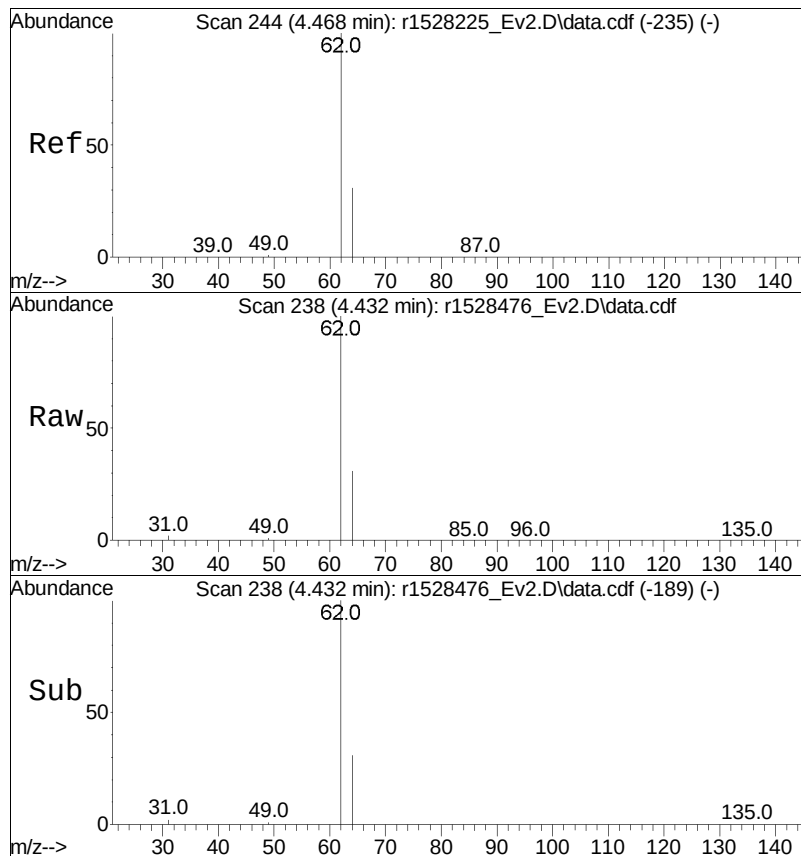
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AirLab15\2021\09\0921SIM\
 Data File : r1528476_Ev2.D
 Acq On : 21 Sep 2021 1:04 PM
 Operator : AIRLAB15:RY
 Sample : WG1549027-3,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 21 13:47:54 2021
 Quant Method : 0:\Forensics\Data\AirLab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

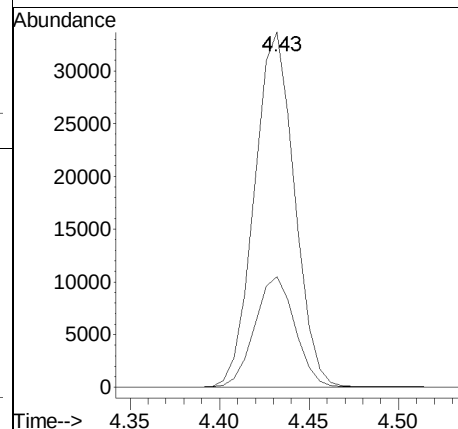
Sub List : Default-LCS-AP2 - All compounds listed1SIM\r1528476_Ev2.D

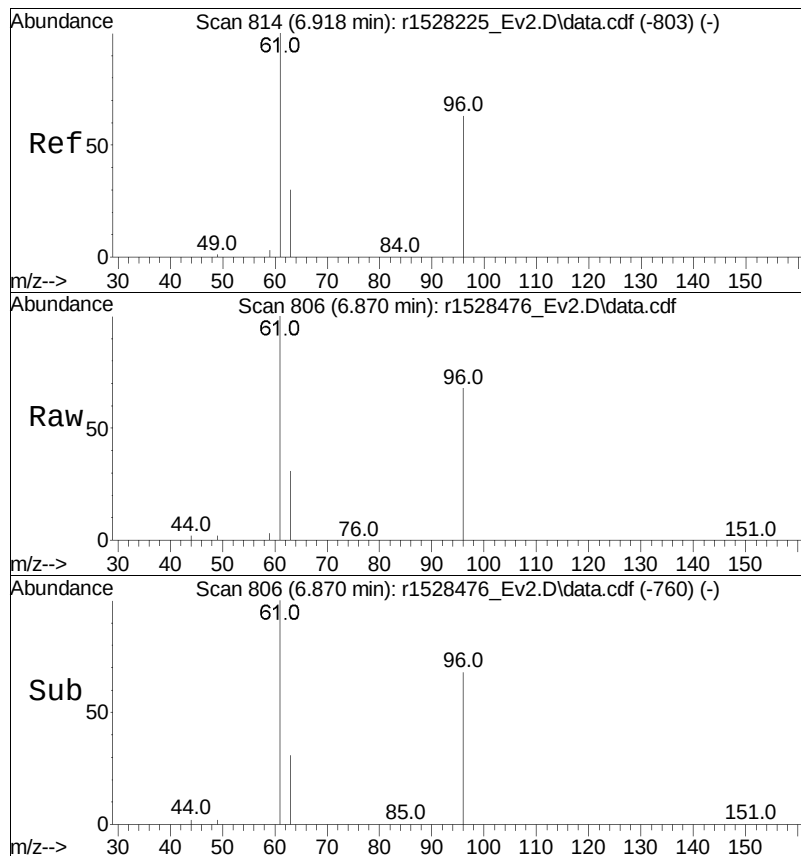




#6
 vinyl chloride
 Concen: 4.24 ppbV
 RT: 4.43 min Scan# 238
 Delta R.T. -0.036 min
 Lab File: r1528476_Ev2.D
 Acq: 21 Sep 2021 1:04 PM

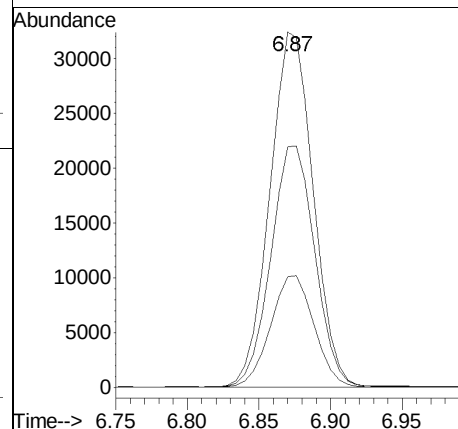
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.2	24.6	36.8

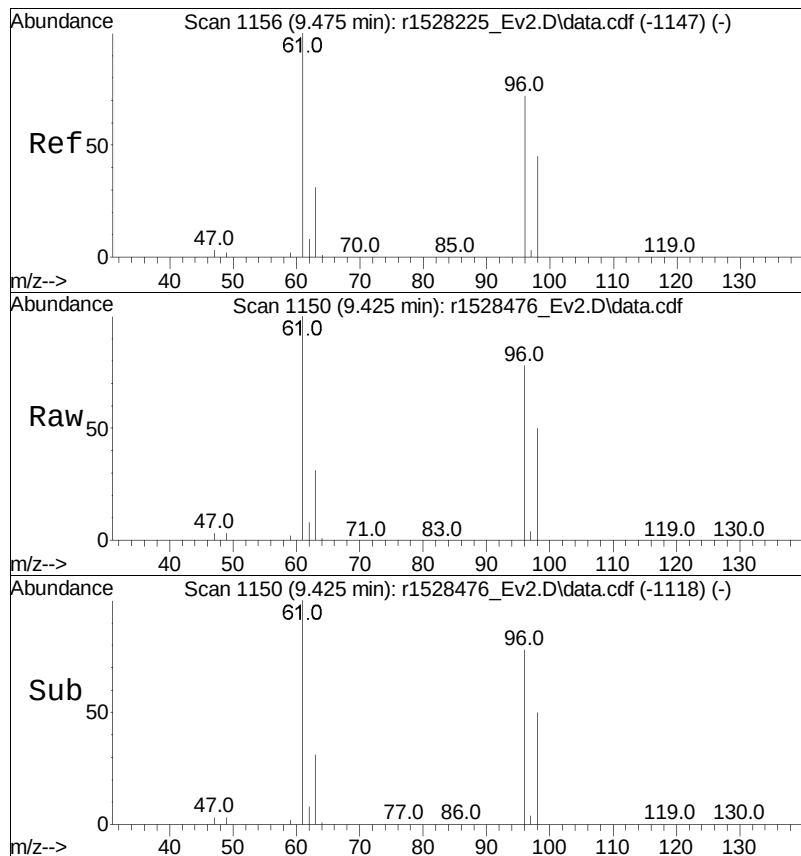




#17
 1,1-dichloroethene
 Concen: 4.32 ppbV
 RT: 6.87 min Scan# 806
 Delta R.T. -0.048 min
 Lab File: r1528476_Ev2.D
 Acq: 21 Sep 2021 1:04 PM

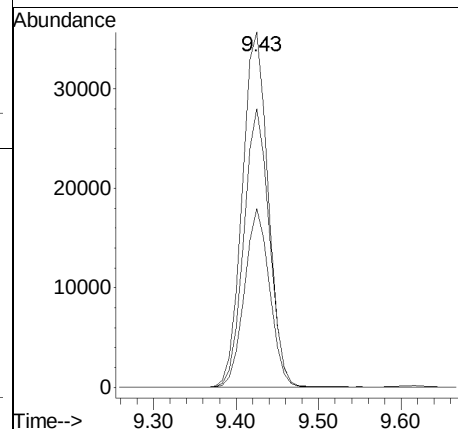
Tgt Ion:	61	Resp:	68210
Ion Ratio	Lower	Upper	
61	100		
96	67.7	50.8	76.2
63	31.1	24.2	36.4

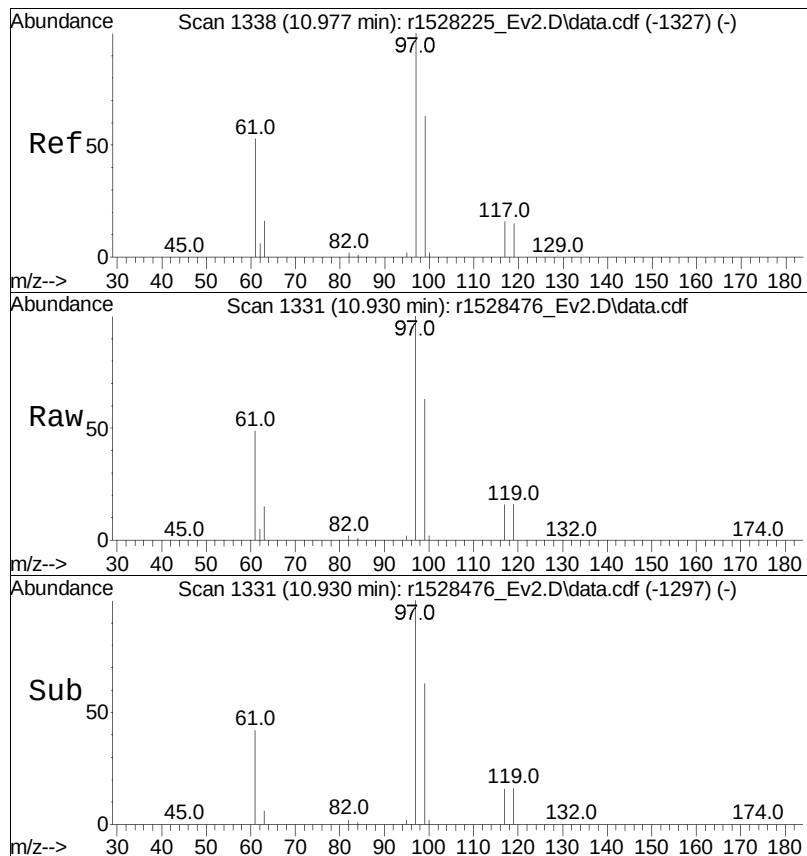




#28
 cis-1,2-dichloroethene
 Concen: 4.55 ppbV
 RT: 9.43 min Scan# 1150
 Delta R.T. -0.050 min
 Lab File: r1528476_Ev2.D
 Acq: 21 Sep 2021 1:04 PM

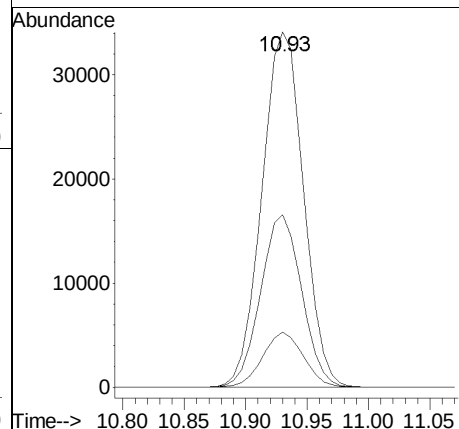
Tgt Ion:	61	Resp:	77754
Ion Ratio	Lower	Upper	
61	100		
96	78.5	57.9	86.9
98	50.4	36.1	54.1

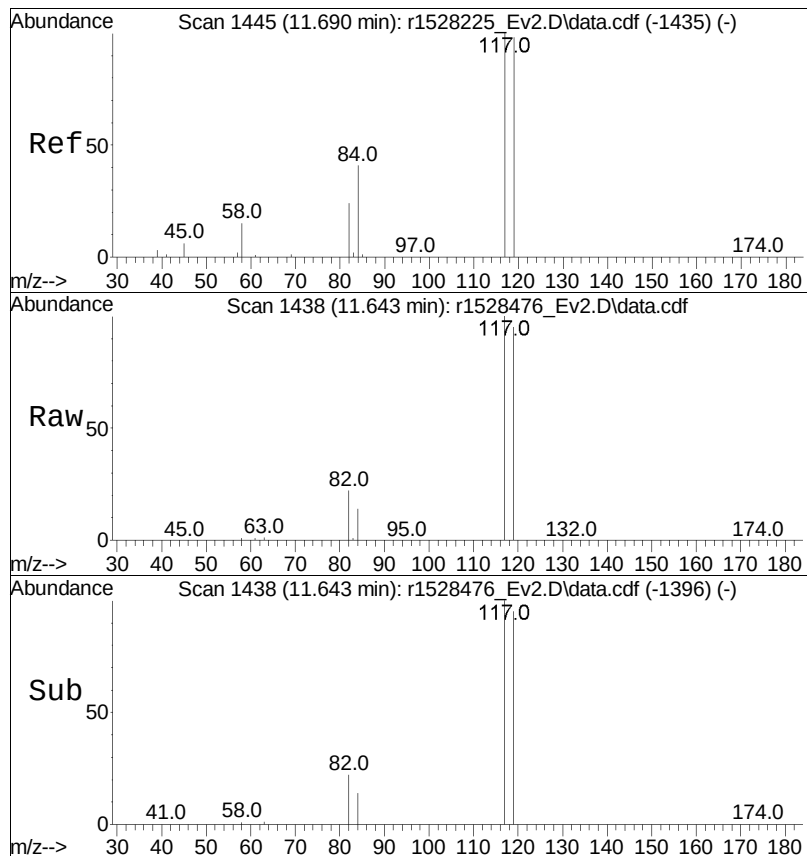




#36
 1,1,1-trichloroethane
 Concen: 4.87 ppbV
 RT: 10.93 min Scan# 1331
 Delta R.T. -0.047 min
 Lab File: r1528476_Ev2.D
 Acq: 21 Sep 2021 1:04 PM

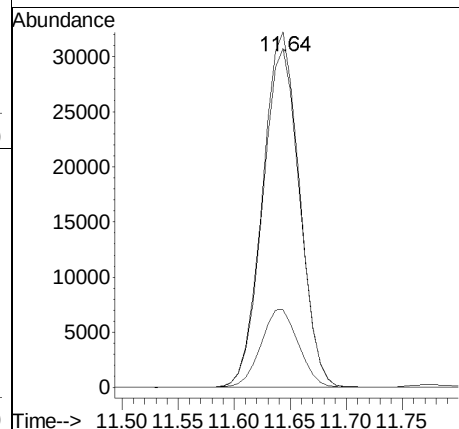
Tgt Ion	Ratio	Lower	Upper
97	100		
61	48.6	42.1	63.1
119	15.6	12.4	18.6

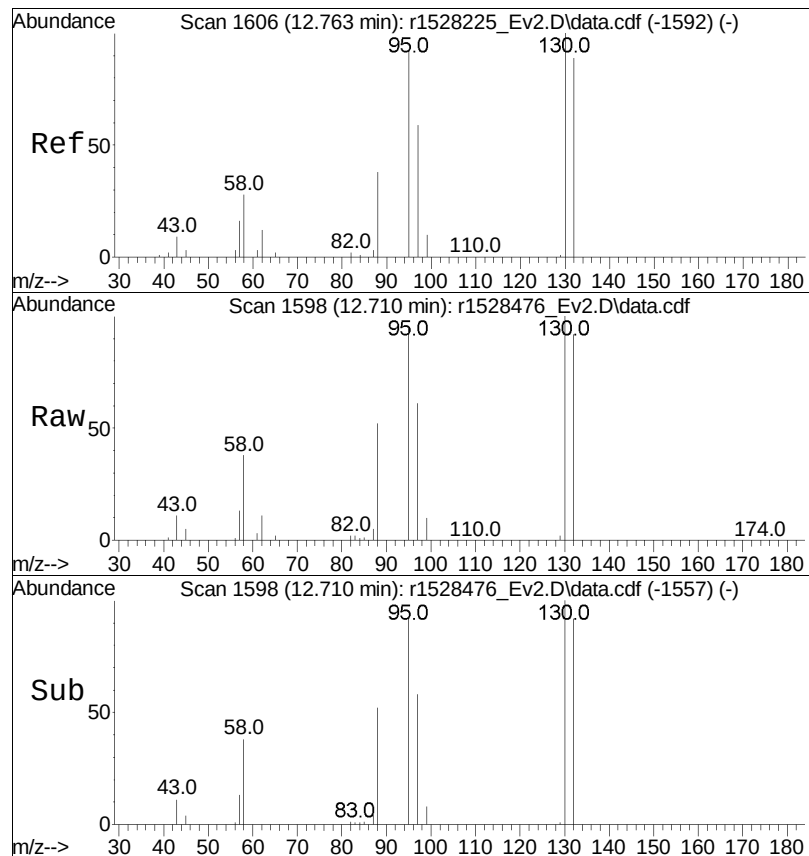




#38
 carbon tetrachloride
 Concen: 5.26 ppbV
 RT: 11.64 min Scan# 1438
 Delta R.T. -0.047 min
 Lab File: r1528476_Ev2.D
 Acq: 21 Sep 2021 1:04 PM

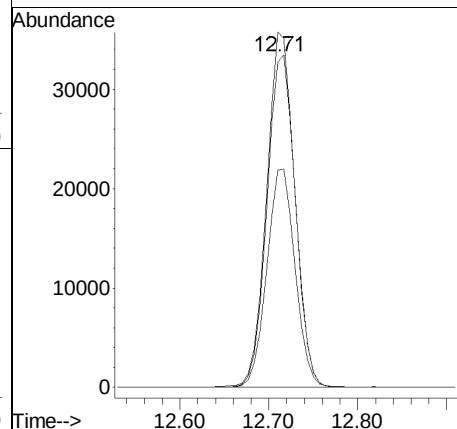
Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	78.4	117.6
82	21.9	19.2	28.8

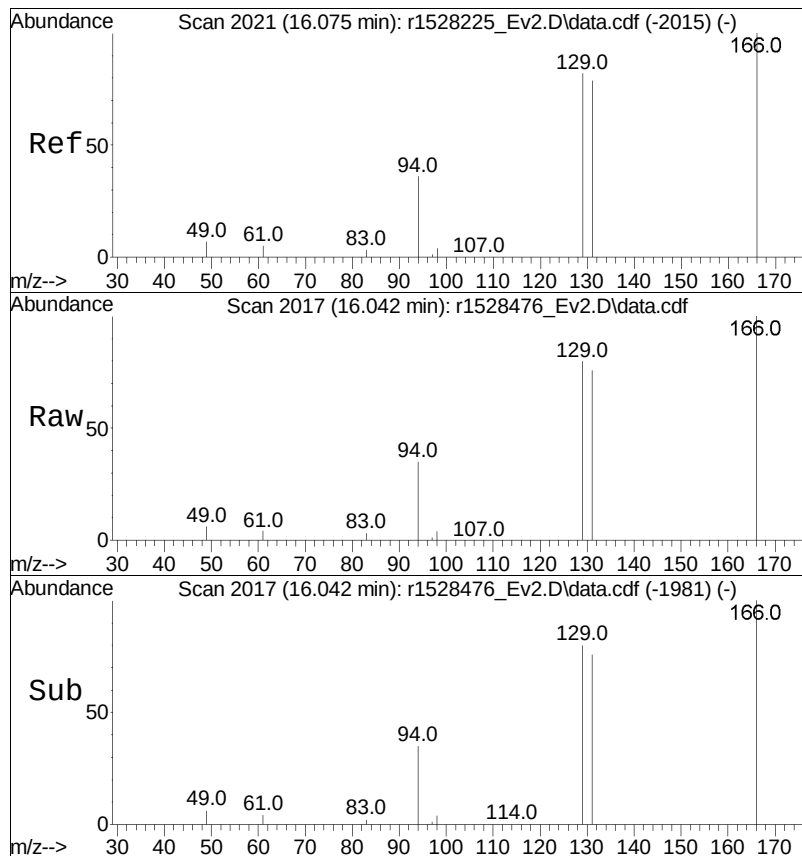




#44
 trichloroethene
 Concen: 4.53 ppbV
 RT: 12.71 min Scan# 1598
 Delta R.T. -0.053 min
 Lab File: r1528476_Ev2.D
 Acq: 21 Sep 2021 1:04 PM

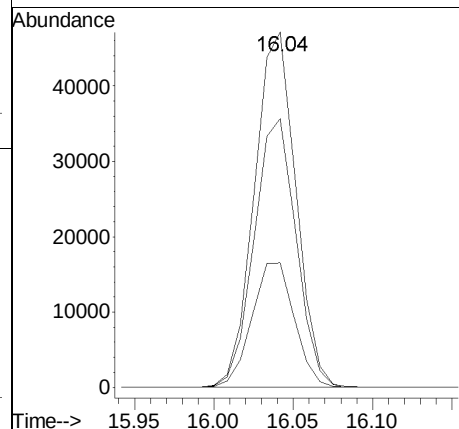
Tgt Ion:	130	Resp:	78338
Ion Ratio	Lower	Upper	
130	100		
132	91.6	71.6	107.4
97	61.2	46.9	70.3





#57
 tetrachloroethene
 Concen: 5.61 ppbV
 RT: 16.04 min Scan# 2017
 Delta R.T. -0.033 min
 Lab File: r1528476_Ev2.D
 Acq: 21 Sep 2021 1:04 PM

Tgt Ion:	166	Resp:	85755
Ion Ratio	Lower	Upper	
166	100		
131	75.6	63.0	94.4
94	35.0	29.1	43.7



Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
 Data File : r1528482_Ev2.D
 Acq On : 21 Sep 2021 7:11 PM
 Operator : AIRLAB15:RY
 Sample : WG1549027-5,3,250,250
 Misc : WG1549027,ICAL18280
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 12:42:33 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Sep 03 15:40:18 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\r1528476_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.62	49	205050	10.000	ppbV	-0.05
Standard Area = 214864			Recovery =		95.43%	
33) 1,4-difluorobenzene	11.91	114	524389	10.000	ppbV	-0.05
Standard Area = 548072			Recovery =		95.68%	
51) chlorobenzene-D5	16.64	54	92623	10.000	ppbV	-0.03
Standard Area = 95313			Recovery =		97.18%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.00		0	N.D.		
17) 1,1-dichloroethene	0.00		0	N.D.	d	
28) cis-1,2-dichloroethene	9.42	61	170	0.010	ppbV #	77
36) 1,1,1-trichloroethane	0.00		0	N.D.		
38) carbon tetrachloride	11.64	117	828	0.062	ppbV	98
44) trichloroethene	12.72	130	1586	0.096	ppbV	96
57) tetrachloroethene	16.04	166	1749	0.118	ppbV	98

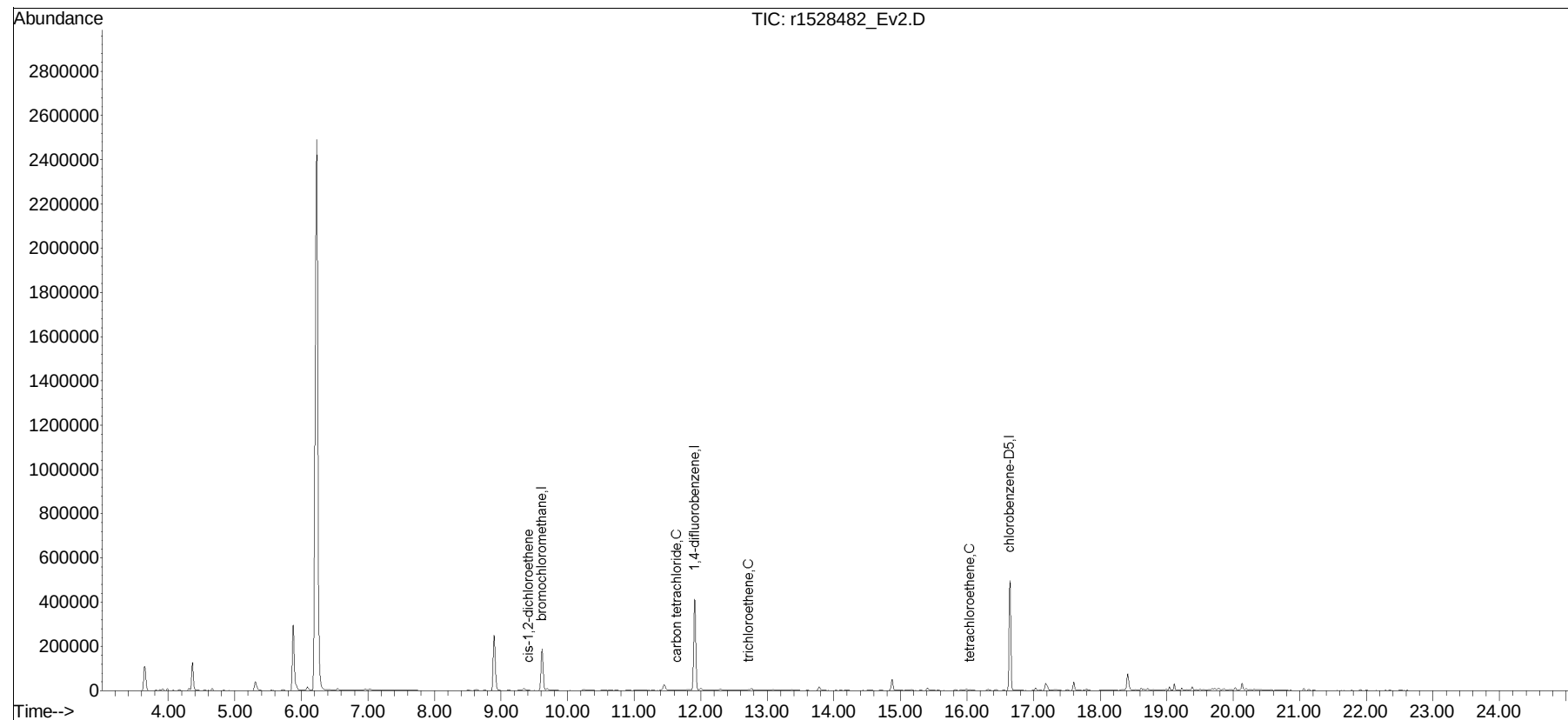
(#) = qualifier out of range (m) = manual integration (+) = signals summed

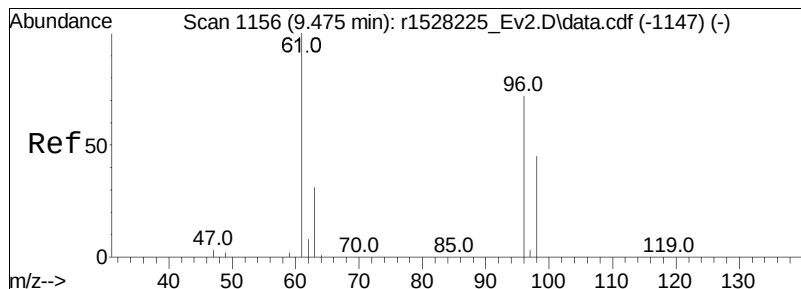
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\
Data File : r1528482_Ev2.D
Acq On : 21 Sep 2021 7:11 PM
Operator : AIRLAB15:RY
Sample : WG1549027-5,3,250,250
Misc : WG1549027,ICAL18280
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 22 12:42:33 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\09\0921SIM\TSIM15_210902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Fri Sep 03 15:40:18 2021
Response via : Initial Calibration

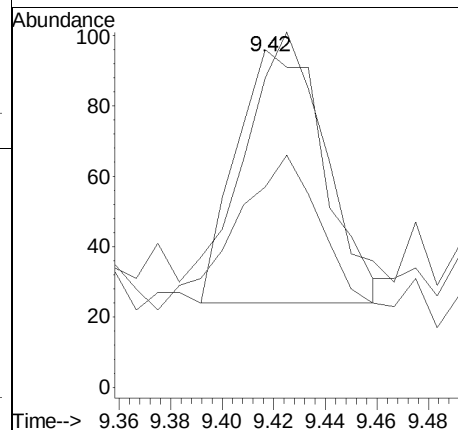
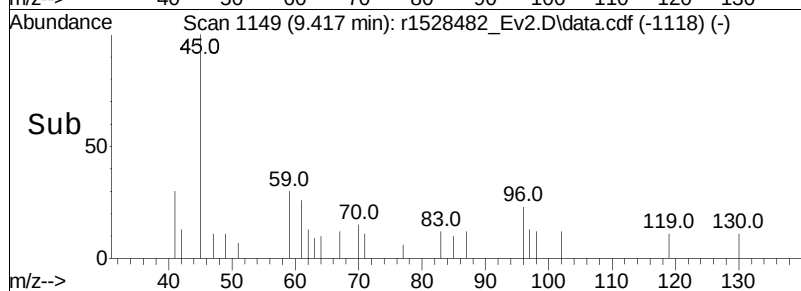
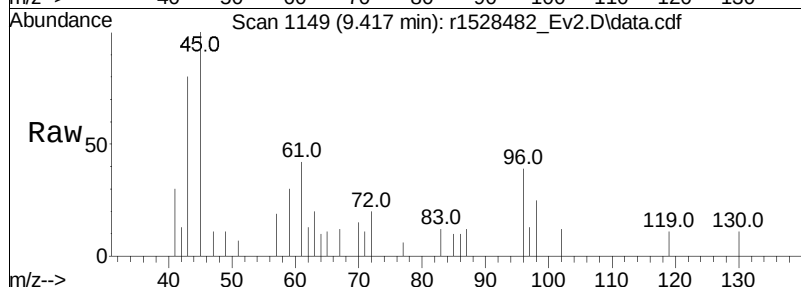
Sub List : 7-NY-SIM - .\Data\Airlab15\2021\09\0921SIM\r1528476_Ev2.D

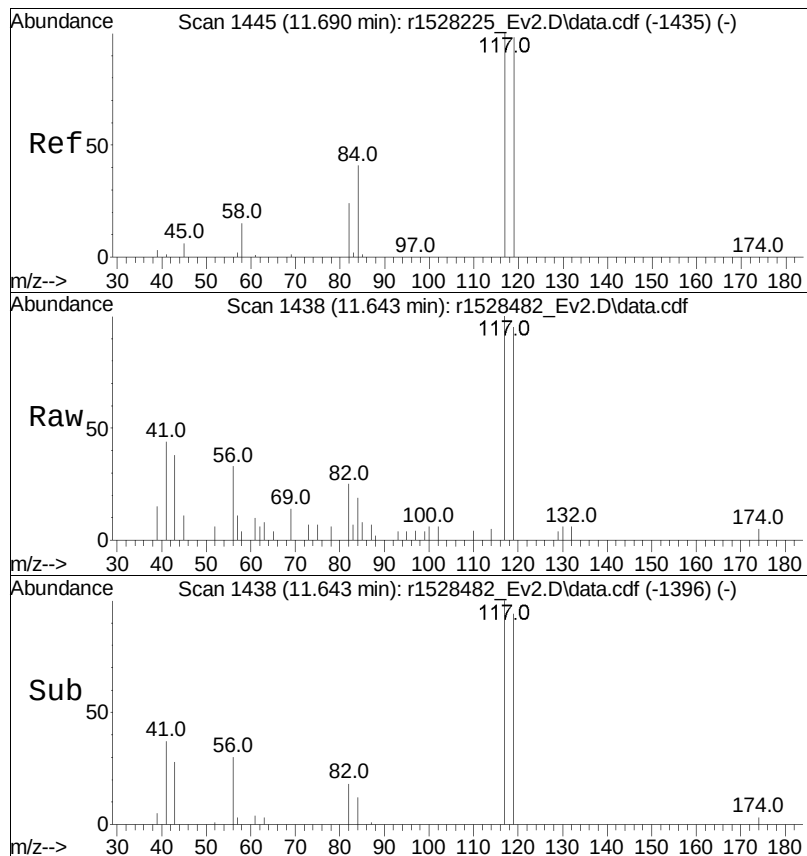




#28
 cis-1,2-dichloroethene
 Concen: 0.01 ppbV
 RT: 9.42 min Scan# 1149
 Delta R.T. -0.058 min
 Lab File: r1528482_Ev2.D
 Acq: 21 Sep 2021 7:11 PM

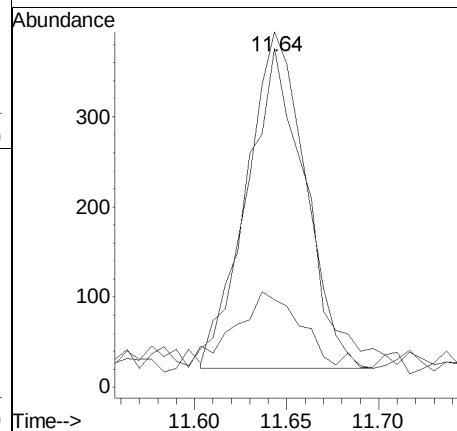
Tgt Ion: 61 Resp: 170
 Ion Ratio Lower Upper
 61 100
 96 91.7 57.9 86.9#
 98 59.4 36.1 54.1#

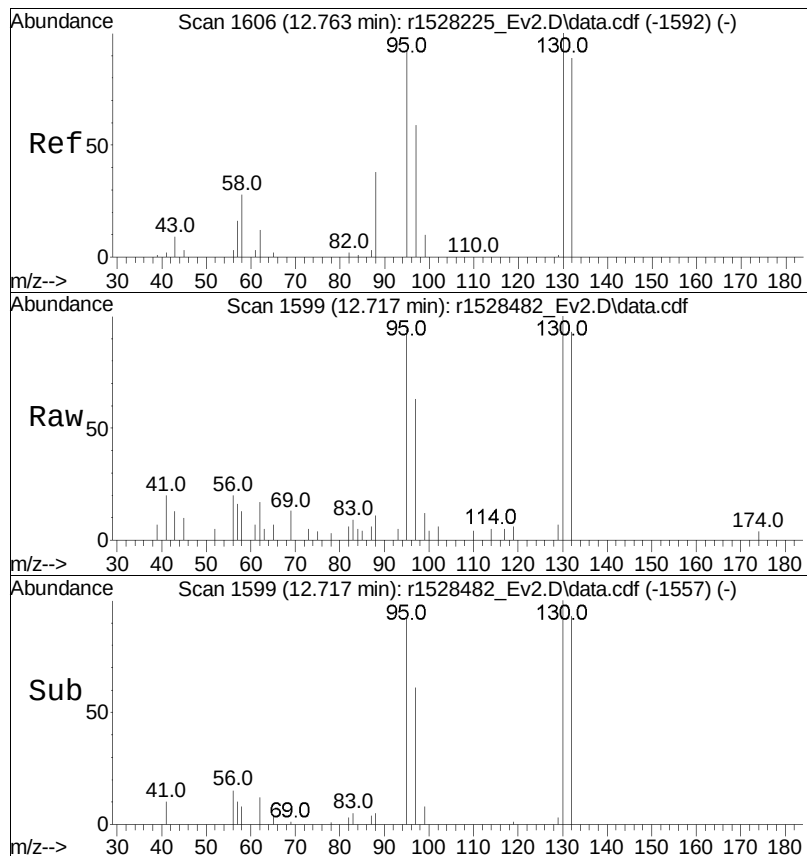




#38
carbon tetrachloride
Concen: 0.06 ppbV
RT: 11.64 min Scan# 1438
Delta R.T. -0.047 min
Lab File: r1528482_Ev2.D
Acq: 21 Sep 2021 7:11 PM

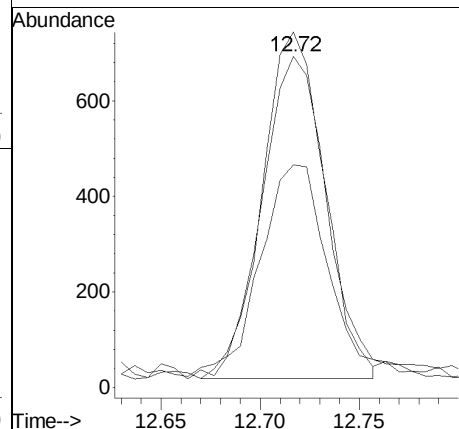
Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	78.4	117.6
82	24.6	19.2	28.8

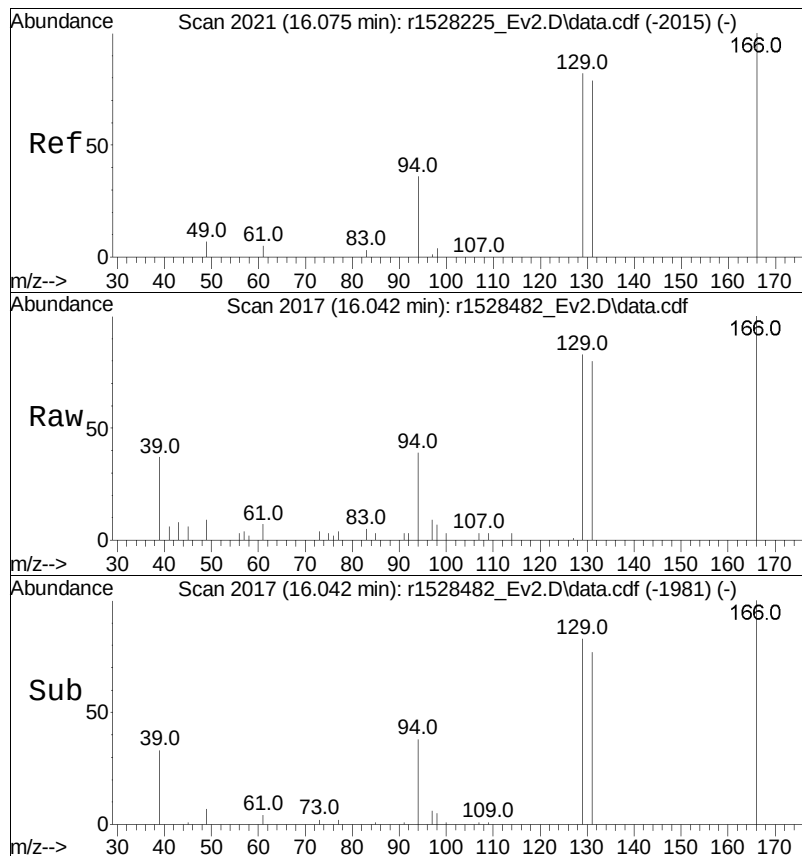




#44
 trichloroethene
 Concen: 0.10 ppbV
 RT: 12.72 min Scan# 1599
 Delta R.T. -0.047 min
 Lab File: r1528482_Ev2.D
 Acq: 21 Sep 2021 7:11 PM

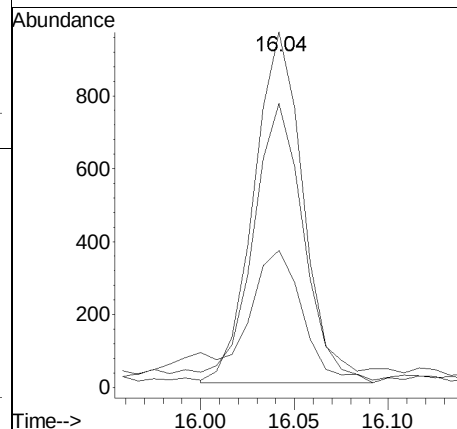
Tgt Ion:	130	Resp:	1586
Ion Ratio	Lower	Upper	
130	100		
132	93.1	71.6	107.4
97	62.6	46.9	70.3





#57
 tetrachloroethene
 Concen: 0.12 ppbV
 RT: 16.04 min Scan# 2017
 Delta R.T. -0.033 min
 Lab File: r1528482_Ev2.D
 Acq: 21 Sep 2021 7:11 PM

Tgt Ion:	166	Resp:	1749
Ion Ratio	Lower	Upper	
166	100		
131	79.9	63.0	94.4
94	38.6	29.1	43.7



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_210902.M
Data File : r1528482_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 9/21/2020 0:7: 1 Instrument :
Sample : WG1549027-5,3,250,250 Quant Date : 9/22/2021 7:38 am

There are no manual integrations or false positives in this file.

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{\text{cf}} / V_{\text{ci}}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI / 14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF / 14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 22 2021, 02:38 pm

Work Group: WG1549027 for Department: 3 GC/MS

Created: 21-SEP-21 Due: Operator: TS

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2150027-02	VE-2-IA	S T015-SIM	AIR	DONE	U	1016	0923	S0	Can-2.7
L2150027-03	DUP-091621	S T015-SIM	AIR	DONE	U	1016	0923	S0	Can-2.7
L2150027-05	VE-1-IA	S T015-SIM	AIR	DONE	U	1016	0923	S0	Can-2.7
L2150061-01	IA01_091621	S T015-SIM	AIR	DONE	U	1016	0923	S0	Can-2.7
L2150061-03	IA02_091621	S T015-SIM	AIR	DONE	U	1016	0923	S0	Can-2.7
L2150061-05	IA03_091621	S T015-SIM	AIR	DONE	U	1016	0923	S0	Can-2.7
L2150061-07	AA01_091621	S T015-SIM	AIR	DONE	U	1016	0923	S0	Can-2.7
WG1549027-1	MS BFB Tune Standard	S T015-SIM	AIR	DONE	U				
WG1549027-2	Continuing Calibrati	S T015-SIM	AIR	DONE	U				
WG1549027-3	Laboratory Control S	S T015-SIM	AIR	DONE	U				
WG1549027-4	Laboratory Method Bl	S T015-SIM	AIR	DONE	U				
WG1549027-5	Duplicate Sample	S T015-SIM	AIR	DONE	U				
Comments:									
WG1549027-5	L2150061-03								

Alpha Analytical Air Lab Instrument Run Log

ID: <u>AirLab15</u>	Internal Standard/Surrogate IDs: <u>SS20-009 / SS20-025</u>
Date: <u>09/02/21</u>	Internal Standard/Surrogate Volume: <u>100 ml</u>
Initials: <u>AR</u>	Sequence File Name: <u>210902.S</u>

SIM ICAL#		Full Scan ICAL#		APH ICAL#		Check Pass ? Y/N
AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	
1	BA15090201	TO15_SFS.qgm	R1528215.qgd	250 ML		NA
1	BA15090202	TO15_SFS.qgm	R1528216.qgd	250 ML		NA
1	BA15090203	TO15_SFS.qgm	R1528217.qgd	250 ML		NA
1	TA15090201	TO15_SFS.qgm	R1528218.qgd	250 ML	TUNE	NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R1528219.qgd	SS21-025D 50ML		NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R1528220.qgd	SS21-025D 100ML		NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R1528221.qgd	SS21-025D 250ML		NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R1528222.qgd	SS21-025C 50ML		NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R1528223.qgd	SS21-025C 125ML		NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R1528224.qgd	SS21-025C 250ML		NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R1528225.qgd	SS21-025B 125ML		NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R1528226.qgd	SS21-025B 250ML		NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R1528227.qgd	SS21-025A 50ML		NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R1528228.qgd	SS21-025A 125ML		NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R1528229.qgd	SS21-025A 250ML		NA
1	BA15090201	TO15_SFS.qgm	R1528230.qgd	250 ML		NA
1	BA15090202	TO15_SFS.qgm	R1528231.qgd	250 ML		NA
2	CTO15-LLSTD10	TO15_SFS.qgm	R1528232.qgd	SS21-027G 250ML	FS ICV FAILED	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1528233.qgd	SS21-027G 125ML	SIM ICV	NA
2	CTO15-LLSTD10	TO15_SFS.qgm	R1528234.qgd	SS21-027G 250ML	FS ICV	NA

Alpha Analytical Air Lab Instrument Run Log

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: AirLab15 Internal Standard/Surrogate IDs: SS20-028 / SS21-026
 Date: 09/21/21 Internal Standard/Surrogate Volume: 100 ml
 Initials: TS Sequence File Name: 210921.S

SIM ICAL# 18280

Full Scan ICAL# 18279

APH ICAL#
18274

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	Check Pass ? Y/N
1	TA15092101	TO15_SFS.qgm	R1528472.qgd	250 ML	TUNE		NA
2	CAPH-10STD10	TO15_SFS.qgm	R1528473.qgd	SS21-023B2 125 ML	APH CC		NA
3	CA15092101	TO15_SFS.qgm	R1528474.qgd	SS21-025H 250 ML	NJ CC FAILED		NA
4	CTO15-LLSTD10.0	TO15_SFS.qgm	R1528475.qgd	SS21-027G 250ML	LL LCS		NA
4	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1528476.qgd	SS21-027G 125ML	SIM LCS		NA
1	BA15092101	TO15_SFS.qgm	R1528477.qgd	250 ML	LL BLANK		NA
1	BA15092102	TO15_SFS.qgm	R1528478.qgd	250 ML	SIM BLANK		NA
1	L2150061-07,3,250,250	TO15_SFS.qgm	R1528479.qgd	WG1549026,ICAL18279		NY/7SIM	Y
2	L2150061-01,3,250,250	TO15_SFS.qgm	R1528480.qgd	WG1549026,ICAL18279	IPA OVERCAL	NY/7SIM	Y
3	L2150061-03,3,250,250	TO15_SFS.qgm	R1528481.qgd	WG1549026,ICAL18279	IPA OVERCAL	NY/7SIM	Y
3	L2150061-03DUP,3,250,250	TO15_SFS.qgm	R1528482.qgd	WG1549026,ICAL18279	SIM DUP	NY/7SIM	Y
4	L2150061-05,3,250,250	TO15_SFS.qgm	R1528483.qgd	WG1549026,ICAL18279		NY/7SIM	Y
5	L2150623-01,3,250,250	TO15_SFS.qgm	R1528484.qgd	WG1549028,ICAL18279		MCP	Y
5	L2150623-01DUP,3,250,250	TO15_SFS.qgm	R1528485.qgd	WG1549028,ICAL18279	MCP (DUMMY) DUP	MCP	Y
6	L2150027-02,3,250,250	TO15_SFS.qgm	R1528486.qgd	WG1549026,ICAL18279	IPA OVERCAL	NY/7SIM	Y
7	L2150027-03,3,250,250	TO15_SFS.qgm	R1528487.qgd	WG1549026,ICAL18279	IPA OVERCAL	NY/7SIM	Y
8	L2150027-05,3,250,250	TO15_SFS.qgm	R1528488.qgd	WG1549026,ICAL18279	ETOH OVERCAL	NY/7SIM	Y
9	L2150027-01D,3,200,250	TO15_SFS.qgm	R1528489.qgd	WG1549026,ICAL18279	T	NY	Y
10	L2150027-04D,3,138.61,250	TO15_SFS.qgm	R1528490.qgd	WG1549026,ICAL18279	905	NY	Y
11	L2150061-02,3,250,250	TO15_SFS.qgm	R1528491.qgd	WG1549026,ICAL18279		NY	Y
12	L2150061-04,3,250,250	TO15_SFS.qgm	R1528492.qgd	WG1549026,ICAL18279		NY	Y
13	L2150061-06D,3,110,250	TO15_SFS.qgm	R1528493.qgd	WG1549026,ICAL18279	T	NY	Y

Alpha Analytical Air Lab Instrument Run Log

2	L2150061-01D,3,100,250	TO15_SFS.qgm	R1528494.qgd	WG1549026,ICAL18279		IPA	Y
3	L2150061-03D,3,100,250	TO15_SFS.qgm	R1528495.qgd	WG1549026,ICAL18279		IPA	Y
6	L2150027-02D,3,75,250	TO15_SFS.qgm	R1528496.qgd	WG1549026,ICAL18279		IPA	Y
7	L2150027-03D,3,75,250	TO15_SFS.qgm	R1528497.qgd	WG1549026,ICAL18279		IPA	Y
8	L2150027-05D,3,2.51,250	TO15_SFS.qgm	R1528498.qgd	WG1549026,ICAL18279		ETOH	Y

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed



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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2213657

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Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2213657
Report Date: 03/22/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2213657-01	VE-1	SOIL_VAPOR	YONKERS, NY	03/16/22 12:09	03/16/22
L2213657-02	VE-2-IA	AIR	YONKERS, NY	03/16/22 12:13	03/16/22
L2213657-03	DUP-031622	AIR	YONKERS, NY	03/16/22 12:14	03/16/22
L2213657-04	VE-2	SOIL_VAPOR	YONKERS, NY	03/16/22 12:28	03/16/22
L2213657-05	VE-1-IA	AIR	YONKERS, NY	03/16/22 13:01	03/16/22

Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2213657
Report Date: 03/22/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2213657
Report Date: 03/22/22

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on March 15, 2022. The canister certification results are provided as an addendum.

L2213657-04D: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to perform a screen analysis. The pressurization resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

L2213657-05D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Report Date: 03/22/22

Title: Technical Director/Representative



GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2213657
Report Date: 03/22/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.

Report Format: Data Usability Report



Project Name: FORMER CLEAN ZONE DRY CLEANERS
Project Number: 2546.0007Y002

Lab Number: L2213657
Report Date: 03/22/22

Data Qualifiers

- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- ND** - Not detected at the reporting limit (RL) for the sample.



Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)
 Purge time: 11 min

Columns (length x ID x df):
 RTX-VMS 20m x 0.18mm x 1um
 RTX-VMS 30m x 0.25mm x 1.4um
 RTX-502.2 40m x 0.18mm x 1um

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)

Column Type: Restek RTX 502.2
 Column Length: 105 Meters
 df: 3.00 um
 ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: Tekmar Velocity / EST Encon
 Autosampler: Varian Archon / EST Centurion
 Purge time: 11 min

Column Type: DB-VRX
 Column Length: 60 Meters
 df: 1.40 um
 ID: 0.25 mm
 Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

Column Type: Haysep S Column
 Column Length: 2 Meters packed
 (100/200 mesh)

Autosampler: LEAP Headspace

Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200
 Autosampler: Entech 7016CA or 7016D

Column Type: Restek RTX-1
 Column Length: 60 Meters
 df: 1.00 um
 ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.32 μ m
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.25 μ m
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1 μ L
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLP Pesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1 μ L
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Alpha Job Number : L2213657

Received : 16-MAR-2022

Reviewer : Jennifer Jerome

Account Name : Roux Env. Eng. & Geology, DPC

Project Number : 2546.0007Y002

Project Name : FORMER CLEAN ZONE DRY CLEANERS

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Absent/			

Condition Information

- | | |
|--|-----|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between sample labels & COC? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | YES |

Volatile Organics/VPH

- | | |
|--|----|
| 1) Reagent Water Vials Frozen by Client? | NA |
|--|----|

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 22 2022, 05:21 pm

Login Number: L2213657

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2546.0007Y002

Received: 16MAR22 Due Date: 23MAR22

Sample # Client ID Mat PR Collected

L2213657-01 VE-1 11 2E 16MAR22 12:09

T015 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/23/22

ASP-B, CAN-RENT, FLOW-RENT, T015-LL

L2213657-02 VE-2-IA 10 2E 16MAR22 12:13

T015 SIM for 7 NYS DMCs Package Due Date: 03/23/22

CAN-RENT, FLOW-RENT, T015-LL, T015-SIM

L2213657-03 DUP-031622 10 2E 16MAR22 12:14

T015 SIM for 7 NYS DMCs Package Due Date: 03/23/22

CAN-RENT, FLOW-RENT, T015-LL, T015-SIM

L2213657-04 VE-2 11 2E 16MAR22 12:28

T015 SIM for 7 NYS DMCs Package Due Date: 03/23/22

CAN-RENT, FLOW-RENT, T015-LL

L2213657-05 VE-1-IA 10 2E 16MAR22 13:01

T015 SIM for 7 NYS DMCs Package Due Date: 03/23/22

CAN-RENT, FLOW-RENT, T015-LL, T015-SIM

Page 1

Logged By: Dylan Snook

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ROUX
Address: 209 SHAFTER ST.
ISLANDIA, NY 11749
Phone: 631- 2322600
Fax: 631- 2329898
Email: RHEUKE@ROUXINC.COM

☑ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: **FORMER CLEAN ZONE
DRY CLEANERS**

Project Location: **YONKERS, NY**

Project #: **2546.0007Y002**

Project Manager: **RACHEL HENKE**

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: _____ Time: _____

Date Rec'd in Lab: 3/17/22

Report Information - Data Deliverables

☐ FAX
☐ ADEx

Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)

Other Formats: _____

☒ EMAIL (standard pdf report)

☒ Additional Deliverables:
CAT B DELIVERABLES

Report to: (if different than Project Manager)

ALPHA Job #: L2213657

Billing Information

Same as Client info	PO #:
---	-------

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm
-----------	---------	------------

ANALYSIS

All Columns Below Must Be Filled Out

[illegible]

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:

Date/Time

Received By:

Date/Time:

Relinquished By: Erin A. Poux

31161221358

B-Lopez

3116122135

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.

Supporting Documentation

Project Name: FORMER CLEAN ZONE DRY CLEANERS

Lab Number: L2213657

Project Number: 2546.0007Y002

Report Date: 03/22/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2213657-01	VE-1	01546	Flow 3	03/15/22	379826		-	-	-	Pass	18.0	18.7	4
L2213657-01	VE-1	2232	2.7L Can	03/15/22	379826	L2212162-04	Pass	-29.3	-5.1	-	-	-	-
L2213657-02	VE-2-IA	0785	Flow 3	03/15/22	379826		-	-	-	Pass	18.0	17.7	2
L2213657-02	VE-2-IA	3233	2.7L Can	03/15/22	379826	L2212162-04	Pass	-29.3	-6.1	-	-	-	-
L2213657-03	DUP-031622	02100	Flow 3	03/15/22	379826		-	-	-	Pass	18.0	18.1	1
L2213657-03	DUP-031622	2357	2.7L Can	03/15/22	379826	L2212162-04	Pass	-29.1	-5.1	-	-	-	-
L2213657-04	VE-2	0543	Flow 3	03/15/22	379826		-	-	-	Pass	18.0	12.0	40
L2213657-04	VE-2	3221	2.7L Can	03/15/22	379826	L2212162-04	Pass	-29.4	-13.5	-	-	-	-
L2213657-05	VE-1-IA	02097	Flow 3	03/15/22	379826		-	-	-	Pass	18.0	16.8	7
L2213657-05	VE-1-IA	3405	2.7L Can	03/15/22	379826	L2212162-04	Pass	-29.3	-7.2	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2212162
Report Date: 03/22/22

Air Canister Certification Results

Lab ID: L2212162-04
 Client ID: CAN 727 SHELF 7
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/10/22 03:40
 Analyst: RY

Date Collected: 03/08/22 18:00
 Date Received: 03/09/22
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	5.30	5.00	--	6.95	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2212162
Report Date: 03/22/22

Air Canister Certification Results

Lab ID: L2212162-04
 Client ID: CAN 727 SHELF 7
 Sample Location:

Date Collected: 03/08/22 18:00
 Date Received: 03/09/22
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2212162
Report Date: 03/22/22

Air Canister Certification Results

Lab ID: L2212162-04
Client ID: CAN 727 SHELF 7
Sample Location:

Date Collected: 03/08/22 18:00
Date Received: 03/09/22
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2212162
Report Date: 03/22/22

Air Canister Certification Results

Lab ID: L2212162-04
 Client ID: CAN 727 SHELF 7
 Sample Location:

Date Collected: 03/08/22 18:00
 Date Received: 03/09/22
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2212162
Report Date: 03/22/22

Air Canister Certification Results

Lab ID: L2212162-04
Client ID: CAN 727 SHELF 7
Sample Location:

Date Collected: 03/08/22 18:00
Date Received: 03/09/22
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	95		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2212162
Report Date: 03/22/22

Air Canister Certification Results

Lab ID: L2212162-04
 Client ID: CAN 727 SHELF 7
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/10/22 03:40
 Analyst: RY

Date Collected: 03/08/22 18:00
 Date Received: 03/09/22
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2212162
Report Date: 03/22/22

Air Canister Certification Results

Lab ID: L2212162-04
 Client ID: CAN 727 SHELF 7
 Sample Location:

Date Collected: 03/08/22 18:00
 Date Received: 03/09/22
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2212162
Report Date: 03/22/22

Air Canister Certification Results

Lab ID: L2212162-04
Client ID: CAN 727 SHELF 7
Sample Location:

Date Collected: 03/08/22 18:00
Date Received: 03/09/22
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	95		60-140



Organics

Volatile Organics in Air

TO-15 Low Level

Volatiles QC Summary

Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Client Sample ID	: DUP-031622	Matrix	: AIR
Lab Sample ID	: L2213657-03	Analysis Date	: 03/20/22 21:45
Lab File ID	: R1531789	DUP File ID	: r1531790
Dup Sample ID	: WG1617728-5	DUP Analysis Date	: 03/20/22 22:25

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Dichlorodifluoromethane	0.495	0.495	0	25
Chloromethane	0.591	0.564	5	25
Freon-114	ND	ND	NC	25
1,3-Butadiene	ND	ND	NC	25
Bromomethane	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
Ethanol	ND	307	0	25
Vinyl bromide	ND	ND	NC	25
Acetone	10.8	9.91	9	25
Trichlorofluoromethane	0.313	0.316	1	25
Isopropanol	12.5	12.5	0	25
Tertiary butyl Alcohol	ND	ND	NC	25
Methylene chloride	ND	0.570	NC	25
3-Chloropropene	ND	ND	NC	25
Carbon disulfide	ND	ND	NC	25
Freon-113	ND	ND	NC	25
trans-1,2-Dichloroethene	ND	ND	NC	25
1,1-Dichloroethane	ND	ND	NC	25
Methyl tert butyl ether	ND	ND	NC	25
2-Butanone	1.69	1.73	2	25
Ethyl Acetate	1.41	1.45	3	25
Chloroform	ND	ND	NC	25
Tetrahydrofuran	ND	ND	NC	25
1,2-Dichloroethane	0.253	0.259	2	25
n-Hexane	ND	ND	NC	25

Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Client Sample ID	: DUP-031622	Matrix	: AIR
Lab Sample ID	: L2213657-03	Analysis Date	: 03/20/22 21:45
Lab File ID	: R1531789	DUP File ID	: r1531790
Dup Sample ID	: WG1617728-5	DUP Analysis Date	: 03/20/22 22:25

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Benzene	ND	ND	NC	25
Cyclohexane	0.210	0.207	1	25
1,2-Dichloropropane	ND	ND	NC	25
Bromodichloromethane	ND	ND	NC	25
1,4-Dioxane	ND	ND	NC	25
2,2,4-Trimethylpentane	ND	ND	NC	25
Heptane	ND	ND	NC	25
cis-1,3-Dichloropropene	ND	ND	NC	25
4-Methyl-2-pentanone	ND	ND	NC	25
trans-1,3-Dichloropropene	ND	ND	NC	25
1,1,2-Trichloroethane	ND	ND	NC	25
Toluene	5.44	5.44	0	25
2-Hexanone	ND	ND	NC	25
Dibromochloromethane	ND	ND	NC	25
1,2-Dibromoethane	ND	ND	NC	25
Chlorobenzene	ND	ND	NC	25
Ethylbenzene	0.543	0.558	3	25
p/m-Xylene	1.40	1.43	2	25
Bromoform	ND	ND	NC	25
Styrene	1.99	2.04	2	25
1,1,2,2-Tetrachloroethane	ND	ND	NC	25
o-Xylene	0.835	0.839	0	25
4-Ethyltoluene	ND	ND	NC	25
1,3,5-Trimethylbenzene	ND	ND	NC	25
1,2,4-Trimethylbenzene	0.741	0.766	3	25

Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Client Sample ID	: DUP-031622	Matrix	: AIR
Lab Sample ID	: L2213657-03	Analysis Date	: 03/20/22 21:45
Lab File ID	: R1531789	DUP File ID	: r1531790
Dup Sample ID	: WG1617728-5	DUP Analysis Date	: 03/20/22 22:25

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Benzyl chloride	ND	ND	NC	25
1,3-Dichlorobenzene	ND	ND	NC	25
1,4-Dichlorobenzene	ND	ND	NC	25
1,2-Dichlorobenzene	ND	ND	NC	25
1,2,4-Trichlorobenzene	ND	ND	NC	25
Hexachlorobutadiene	ND	ND	NC	25

Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2213657
 Project Name : FORMER CLEAN ZONE DRY CLEANERS Project Number : 2546.0007Y002
 Matrix : AIR
 LCS Sample ID : WG1617728-3 Analysis Date : 03/20/22 13:18 File ID : r1531778
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Propylene	10	8.69	87				-	70-130	-
Dichlorodifluoromethane	10	7.84	78				-	70-130	-
Chloromethane	10	8.08	81				-	70-130	-
Freon-114	10	8.12	81				-	70-130	-
Vinyl chloride	10	8.15	82				-	70-130	-
1,3-Butadiene	10	9.12	91				-	70-130	-
Bromomethane	10	7.74	77				-	70-130	-
Chloroethane	10	8.45	84				-	70-130	-
Ethanol	50	58.6	117				-	40-160	-
Vinyl bromide	10	9.27	93				-	70-130	-
Acetone	50	52.1	104				-	40-160	-
Trichlorofluoromethane	10	8.34	83				-	70-130	-
Isopropanol	25	24.8	99				-	40-160	-
1,1-Dichloroethene	10	8.63	86				-	70-130	-
Tertiary butyl Alcohol	10	8.94	89				-	70-130	-
Methylene chloride	10	9.66	97				-	70-130	-
3-Chloropropene	10	10.9	109				-	70-130	-
Carbon disulfide	10	11.6	116				-	70-130	-
Freon-113	10	9.64	96				-	70-130	-
trans-1,2-Dichloroethene	10	8.78	88				-	70-130	-
1,1-Dichloroethane	10	8.60	86				-	70-130	-
Methyl tert butyl ether	10	8.52	85				-	70-130	-
Vinyl acetate	10	8.85	88				-	70-130	-
2-Butanone	10	9.20	92				-	70-130	-
cis-1,2-Dichloroethene	10	8.29	83				-	70-130	-
Ethyl Acetate	10	10.0	100				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2213657
 Project Name : FORMER CLEAN ZONE DRY CLEANERS Project Number : 2546.0007Y002
 Matrix : AIR
 LCS Sample ID : WG1617728-3 Analysis Date : 03/20/22 13:18 File ID : r1531778
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Chloroform	10	8.37	84				-	70-130	-
Tetrahydrofuran	10	8.75	88				-	70-130	-
1,2-Dichloroethane	10	8.26	83				-	70-130	-
n-Hexane	10	9.94	99				-	70-130	-
1,1,1-Trichloroethane	10	9.10	91				-	70-130	-
Benzene	10	8.14	81				-	70-130	-
Carbon tetrachloride	10	8.96	90				-	70-130	-
Cyclohexane	10	9.69	97				-	70-130	-
1,2-Dichloropropane	10	8.96	90				-	70-130	-
Bromodichloromethane	10	10.1	101				-	70-130	-
1,4-Dioxane	10	9.72	97				-	70-130	-
Trichloroethene	10	8.81	88				-	70-130	-
2,2,4-Trimethylpentane	10	10.2	102				-	70-130	-
Heptane	10	9.96	100				-	70-130	-
cis-1,3-Dichloropropene	10	8.98	90				-	70-130	-
4-Methyl-2-pentanone	10	10.0	100				-	70-130	-
trans-1,3-Dichloropropene	10	7.77	78				-	70-130	-
1,1,2-Trichloroethane	10	9.15	92				-	70-130	-
Toluene	10	8.16	82				-	70-130	-
2-Hexanone	10	9.69	97				-	70-130	-
Dibromochloromethane	10	10.8	108				-	70-130	-
1,2-Dibromoethane	10	8.88	89				-	70-130	-
Tetrachloroethene	10	8.50	85				-	70-130	-
Chlorobenzene	10	8.60	86				-	70-130	-
Ethylbenzene	10	8.72	87				-	70-130	-
p/m-Xylene	20	17.6	88				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2213657
 Project Name : FORMER CLEAN ZONE DRY CLEANERS Project Number : 2546.0007Y002
 Matrix : AIR
 LCS Sample ID : WG1617728-3 Analysis Date : 03/20/22 13:18 File ID : r1531778
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Bromoform	10	11.0	110				-	70-130	-
Styrene	10	8.67	87				-	70-130	-
1,1,2,2-Tetrachloroethane	10	9.01	90				-	70-130	-
o-Xylene	10	9.13	91				-	70-130	-
4-Ethyltoluene	10	9.62	96				-	70-130	-
1,3,5-Trimethylbenzene	10	8.94	89				-	70-130	-
1,2,4-Trimethylbenzene	10	9.48	95				-	70-130	-
Benzyl chloride	10	11.2	112				-	70-130	-
1,3-Dichlorobenzene	10	8.96	90				-	70-130	-
1,4-Dichlorobenzene	10	9.10	91				-	70-130	-
1,2-Dichlorobenzene	10	8.94	89				-	70-130	-
1,2,4-Trichlorobenzene	10	8.69	87				-	70-130	-
Hexachlorobutadiene	10	8.55	86				-	70-130	-

Method Blank Summary

Form 4

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2213657
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Lab Sample ID : WG1617728-4 **Lab File ID** : r1531780
Instrument ID : AIRLAB15
Matrix : AIR **Analysis Date** : 03/20/22 15:20

Client Sample No.	Lab Sample ID	Analysis Date
WG1617728-3LCS	WG1617728-3	03/20/22 13:18
VE-2-IA	L2213657-02	03/20/22 21:06
DUP-031622	L2213657-03	03/20/22 21:45
DUP-031622DUP	WG1617728-5	03/20/22 22:25
VE-1-IA	L2213657-05	03/20/22 23:04
VE-1	L2213657-01	03/20/22 23:43
VE-2	L2213657-04D	03/21/22 00:22
VE-1-IA	L2213657-05D	03/21/22 09:06

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Analysis Date	: 12/22/21 03:37
Tune Standard	: WG1587794-1	Tune File ID	: r1529887_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	17.4
75	30.0 - 66.0% of mass 95	39.7
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	0.5 (.7)1
174	50.0 - 120.0% of mass 95	64.3
175	4.0 - 9.0% of mass 174	4.6 (7.2)1
176	93.0 - 101% of mass 174	62.5 (97.2)1
177	5.0 - 9.0% of mass 176	4.1 (6.6)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1517040-1	R1529891	12/22/21 06:12
STD0.5	R1517040-2	R1529892	12/22/21 06:51
STD1.0	R1517040-4	R1529893	12/22/21 07:32
STD5.0	R1517040-3	R1529894	12/22/21 08:11
STD010	R1517040-5	R1529895	12/22/21 08:52
STD020	R1517040-6	R1529896	12/22/21 09:29
STD050	R1517040-7	R1529897	12/22/21 10:08
STD100	R1517040-8	R1529898	12/22/21 10:49
ICV QUANT	R1517040-9	R1529901	12/22/21 14:28

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Analysis Date	: 03/20/22 11:40
Tune Standard	: WG1617728-1	Tune File ID	: r1531776_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	17.6
75	30.0 - 66.0% of mass 95	38.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.4 (.7)1
174	50.0 - 120.0% of mass 95	57.7
175	4.0 - 9.0% of mass 174	3.9 (6.8)1
176	93.0 - 101% of mass 174	55 (95.3)1
177	5.0 - 9.0% of mass 176	3.4 (6.3)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1617728-2CCAL	WG1617728-2	R1531778	03/20/22 13:18
WG1617728-3LCS	WG1617728-3	R1531778	03/20/22 13:18
WG1617728-4BLANK	WG1617728-4	R1531780	03/20/22 15:20
VE-2-IA	L2213657-02	R1531788	03/20/22 21:06
DUP-031622	L2213657-03	R1531789	03/20/22 21:45
WG1617728-5DUP	WG1617728-5	R1531790	03/20/22 22:25
VE-1-IA	L2213657-05	R1531791	03/20/22 23:04
VE-1	L2213657-01	R1531792	03/20/22 23:43
VE-2	L2213657-04D	R1531793	03/21/22 00:22
VE-1-IA	L2213657-05D	R1531799	03/21/22 09:06

Internal Standard Area and RT Summary

Form 8a

Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Analysis Date	: 03/20/22 13:18:00
Sample No	: WG1617728-2	Lab File ID	: R1531778

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1617728-2	382239	9.58	859136	11.86	200634	16.57
Upper Limit	535135	9.91	1202790	12.19	280888	16.90
Lower Limit	229343	9.25	515482	11.53	120380	16.24
Sample ID						
WG1617728-3 LCS	382239	9.58	859136	11.86	200634	16.57
WG1617728-4 BLANK	380489	9.59	820809	11.86	191501	16.58
VE-2-IA	382360	9.58	837180	11.86	198398	16.57
DUP-031622	385217	9.58	838965	11.86	202451	16.57
DUP-031622 DUP	380390	9.58	844066	11.86	199949	16.57
VE-1-IA	384366	9.58	836960	11.86	200139	16.57
VE-1	396045	9.58	858084	11.86	209413	16.57
VE-2	391407	9.58	853920	11.86	207988	16.57
VE-1-IA	366355	9.57	769840	11.84	184461	16.53

Area Upper Limit = +40% of internal standard area
Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT
RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits





Date Created: 02/18/22
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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.2	0.0501	ppbV	70-130			25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.0614	ppbV	70-130			25	25			
1,1,2-Trichloroethane	79-00-5	0.2	0.067	ppbV	70-130			25	25			
1,1-Dichloroethane	75-34-3	0.2	0.0628	ppbV	70-130			25	25			
1,1-Dichloroethene	75-35-4	0.2	0.0643	ppbV	70-130			25	25			
1,2,3-Trimethylbenzene	526-73-8	0.2	0.0576	ppbV	70-130			25	25			
1,2,4-Trichlorobenzene	120-82-1	0.2	0.0674	ppbV	70-130			25	25			
1,2,4-Trimethylbenzene	95-63-6	0.2	0.0368	ppbV	70-130			25	25			
1,2,4,5-Tetramethylbenzene	95-93-2	0.2	0.0604	ppbV	70-130			25	25			
1,2-Dibromoethane	106-93-4	0.2	0.0561	ppbV	70-130			25	25			
1,2-Dichlorobenzene	95-50-1	0.2	0.0628	ppbV	70-130			25	25			
1,2-Dichloroethane	107-06-2	0.2	0.0602	ppbV	70-130			25	25			
1,2-Dichloropropane	78-87-5	0.2	0.061	ppbV	70-130			25	25			
1,3,5-Trimethylbenzene	108-67-8	0.2	0.0675	ppbV	70-130			25	25			
1,3-Butadiene	106-99-0	0.2	0.067	ppbV	70-130			25	25			
1,3-Dichlorobenzene	541-73-1	0.2	0.0627	ppbV	70-130			25	25			
1,4-Dichlorobenzene	106-46-7	0.2	0.0636	ppbV	70-130			25	25			
1,4-Dioxane	123-91-1	0.2	0.0805	ppbV	70-130			25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.0361	ppbV	70-130			25	25			
2-Butanone	78-93-3	0.5	0.0482	ppbV	70-130			25	25			
2-Hexanone	591-78-6	0.2	0.0648	ppbV	70-130			25	25			
2-Methylthiophene	554-14-3	0.2	0.0524	ppbV	70-130			25	25			
3-Methylthiophene	616-44-4	0.2	0.0393	ppbV	70-130			25	25			
3-Chloropropene	107-05-1	0.2	0.0585	ppbV	70-130			25	25			
2-Ethylthiophene	872-55-9	0.2	0.0407	ppbV	70-130			25	25			
4-Ethyltoluene	622-96-8	0.2	0.037	ppbV	70-130			25	25			
Acetone	67-64-1	1	0.689	ppbV	40-160			25	25			
Benzene	71-43-2	0.2	0.0487	ppbV	70-130			25	25			
Benzyl chloride	100-44-7	0.2	0.0482	ppbV	70-130			25	25			
Benzothiophene	95-15-8	0.5	0.077	ppbV	70-130			25	25			
Bromodichloromethane	75-27-4	0.2	0.0504	ppbV	70-130			25	25			
Bromoform	75-25-2	0.2	0.0641	ppbV	70-130			25	25			
Bromomethane	74-83-9	0.2	0.0773	ppbV	70-130			25	25			
Carbon disulfide	75-15-0	0.2	0.0559	ppbV	70-130			25	25			
Carbon tetrachloride	56-23-5	0.2	0.0499	ppbV	70-130			25	25			
Chlorobenzene	108-90-7	0.2	0.0624	ppbV	70-130			25	25			
Chloroethane	75-00-3	0.2	0.0805	ppbV	70-130			25	25			
Chloroform	67-66-3	0.2	0.0633	ppbV	70-130			25	25			
Chloromethane	74-87-3	0.2	0.0689	ppbV	70-130			25	25			
cis-1,2-Dichloroethene	156-59-2	0.2	0.117	ppbV	70-130			25	25			
cis-1,3-Dichloropropene	10061-01-5	0.2	0.0409	ppbV	70-130			25	25			
Cyclohexane	110-82-7	0.2	0.0368	ppbV	70-130			25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibromochloromethane	124-48-1	0.2	0.0614	ppbV	70-130			25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0583	ppbV	70-130			25	25			
Ethyl Alcohol	64-17-5	5	0.733	ppbV	40-160			25	25			
Ethyl Acetate	141-78-6	0.5	0.122	ppbV	70-130			25	25			
Ethylbenzene	100-41-4	0.2	0.0432	ppbV	70-130			25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0656	ppbV	70-130			25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0591	ppbV	70-130			25	25			
Hexachlorobutadiene	87-68-3	0.2	0.0529	ppbV	70-130			25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.478	ppbV	40-160			25	25			
Methylene chloride	75-09-2	0.5	0.134	ppbV	70-130			25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.0421	ppbV	70-130			25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.0525	ppbV	70-130			25	25			
Methyl Methacrylate	80-62-6	0.5	0.0697	ppbV	40-160			25	25			
p/m-Xylene	179601-23-1	0.4	0.091	ppbV	70-130			25	25			
o-Xylene	95-47-6	0.2	0.0453	ppbV	70-130			25	25			
Xylene (Total)	1330-20-7	0.2	0.0453	ppbV				25	25			
Heptane	142-82-5	0.2	0.047	ppbV	70-130			25	25			
n-Heptane	142-82-5	0.2	0.047	ppbV	70-130			25	25			
n-Hexane	110-54-3	0.2	0.0364	ppbV	70-130			25	25			
Propylene	115-07-1	0.5	0.0599	ppbV	70-130			25	25			
Styrene	100-42-5	0.2	0.0434	ppbV	70-130			25	25			
Tetrachloroethene	127-18-4	0.2	0.0655	ppbV	70-130			25	25			
Thiophene	110-02-1	0.2	0.0389	ppbV	70-130			25	25			
Tetrahydrofuran	109-99-9	0.5	0.0568	ppbV	70-130			25	25			
Toluene	108-88-3	0.2	0.052	ppbV	70-130			25	25			
trans-1,2-Dichloroethene	156-60-5	0.2	0.0643	ppbV	70-130			25	25			
1,2-Dichloroethene (total)	540-59-0	0.2	0.0643	ppbV				25	25			
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0436	ppbV	70-130			25	25			
1,3-Dichloropropene, Total	542-75-6	0.2	0.0409	ppbV				25	25			
Trichloroethene	79-01-6	0.2	0.0505	ppbV	70-130			25	25			
Trichlorofluoromethane	75-69-4	0.2	0.0686	ppbV	70-130			25	25			
Vinyl acetate	108-05-4	1	0.0479	ppbV	70-130			25	25			
Vinyl bromide	593-60-2	0.2	0.0717	ppbV	70-130			25	25			
Vinyl chloride	75-01-4	0.2	0.0627	ppbV	70-130			25	25			
Naphthalene	91-20-3	0.2	0.0885	ppbV	70-130			25	25			
Total HC As Hexane	NONE	10	0.0364	ppbV	70-130			25	25			
Total VOCs As Toluene	NONE	10	0.052	ppbV	70-130			25	25			
Propane	74-98-6	0.5	0.132	ppbV	70-130			25	25			
Acrylonitrile	107-13-1	0.5	0.0555	ppbV	70-130			25	25			
Acrolein	107-02-8	0.5	0.0596	ppbV	60-113			25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0561	ppbV	70-130			25	25			
Isopropylbenzene	98-82-8	0.2	0.0491	ppbV	70-130			25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,2,3-Trichloropropane	96-18-4	0.2	0.061	ppbV	70-130			25	25			
Acetonitrile	75-05-8	0.2	0.082	ppbV	70-130			25	25			
Bromobenzene	108-86-1	0.2	0.0613	ppbV	70-130			25	25			
Chlorodifluoromethane	75-45-6	0.2	0.0584	ppbV	70-130			25	25			
Dichlorofluoromethane	75-43-4	0.2	0.0807	ppbV	70-130			25	25			
Dibromomethane	74-95-3	0.2	0.0563	ppbV	70-130			25	25			
Pentane	109-66-0	0.2	0.0659	ppbV	70-130			25	25			
Octane	111-65-9	0.2	0.0445	ppbV	70-130			25	25			
Tertiary-Amyl Methyl Ether	994-05-8	0.2	0.0476	ppbV	70-130			25	25			
o-Chlorotoluene	95-49-8	0.2	0.0486	ppbV	70-130			25	25			
p-Chlorotoluene	106-43-4	0.2	0.056	ppbV	70-130			25	25			
2,2-Dichloropropane	594-20-7	0.2	0.0458	ppbV	70-130			25	25			
1,1-Dichloropropene	563-58-6	0.2	0.0457	ppbV	70-130			25	25			
Isopropyl Ether	108-20-3	0.2	0.0621	ppbV	70-130			25	25			
Ethyl-Tert-Butyl-Ether	637-92-3	0.2	0.0422	ppbV	70-130			25	25			
1,2,3-Trichlorobenzene	87-61-6	0.2	0.0715	ppbV	70-130			25	25			
Ethyl ether	60-29-7	0.2	0.0737	ppbV	70-130			25	25			
n-Butylbenzene	104-51-8	0.2	0.044	ppbV	70-130			25	25			
sec-Butylbenzene	135-98-8	0.2	0.0429	ppbV	70-130			25	25			
tert-Butylbenzene	98-06-6	0.2	0.042	ppbV	70-130			25	25			
1,2-Dibromo-3-chloropropane	96-12-8	0.2	0.0495	ppbV	70-130			25	25			
p-Isopropyltoluene	99-87-6	0.2	0.052	ppbV	70-130			25	25			
n-Propylbenzene	103-65-1	0.2	0.0419	ppbV	70-130			25	25			
1,3-Dichloropropane	142-28-9	0.2	0.106	ppbV	70-130			25	25			
Methanol	67-56-1	5	1.84	ppbV	70-130			25	25			
Acetaldehyde	75-07-0	2.5	0.444	ppbV	70-130			25	25			
Butane	106-97-8	0.2	0.0646	ppbV	70-130			25	25			
Nonane (C9)	111-84-2	0.2	0.0463	ppbV	70-130			25	25			
Decane (C10)	124-18-5	0.2	0.0404	ppbV	70-130			25	25			
Undecane	1120-21-4	0.2	0.0427	ppbV	70-130			25	25			
Indane	496-11-7	0.2	0.0507	ppbV	70-130			25	25			
Indene	95-13-6	0.2	0.0433	ppbV	70-130			25	25			
1-Methylnaphthalene	90-12-0	1	0.466	ppbV	70-130			25	25			
Dodecane (C12)	112-40-3	0.2	0.0658	ppbV	70-130			25	25			
Butyl Acetate	123-86-4	0.5	0.126	ppbV	70-130			25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.0466	ppbV	70-130			25	25			
2-Methylnaphthalene	91-57-6	1	0.393	ppbV	70-130			25	25			
1,2-Dichloroethane-d4	17060-07-0									70-130		
Toluene-d8	2037-26-5									70-130		
Bromofluorobenzene	460-00-4									70-130		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-01
 Client ID : VE-1
 Sample Location : YONKERS, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1531792
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:09
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 23:43
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.509	0.200	--	2.52	0.989	--	
74-87-3	Chloromethane	0.665	0.200	--	1.37	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	212	5.00	--	399	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	50.3	1.00	--	119	2.38	--	
75-69-4	Trichlorofluoromethane	0.244	0.200	--	1.37	1.12	--	
67-63-0	Isopropanol	58.9	0.500	--	145	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	6.94	0.500	--	21.0	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	2.12	0.500	--	6.25	1.47	--	
156-59-2	cis-1,2-Dichloroethene	0.373	0.200	--	1.48	0.793	--	
141-78-6	Ethyl Acetate	0.659	0.500	--	2.37	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	1.44	0.500	--	4.25	1.47	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-01
 Client ID : VE-1
 Sample Location : YONKERS, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1531792
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:09
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 23:43
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	1.02	0.200	--	4.13	0.809	--	
110-54-3	n-Hexane	0.224	0.200	--	0.789	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	2.12	0.200	--	6.77	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.221	0.200	--	0.906	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	2.54	0.200	--	9.57	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.296	0.200	--	1.29	0.869	--	
179601-23-1	p/m-Xylene	1.53	0.400	--	6.65	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.321	0.200	--	1.37	0.852	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-01
 Client ID : VE-1
 Sample Location : YONKERS, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1531792
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:09
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 23:43
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.398	0.200	--	1.73	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.213	0.200	--	1.05	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-02
 Client ID : VE-2-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1531788
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:13
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 21:06
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.521	0.200	--	2.58	0.989	--	
74-87-3	Chloromethane	0.593	0.200	--	1.22	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	308	5.00	--	580	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	10.9	1.00	--	25.9	2.38	--	
75-69-4	Trichlorofluoromethane	0.315	0.200	--	1.77	1.12	--	
67-63-0	Isopropanol	12.0	0.500	--	29.5	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.57	0.500	--	4.63	1.47	--	
141-78-6	Ethyl Acetate	1.31	0.500	--	4.72	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	0.539	0.500	--	1.59	1.47	--	
107-06-2	1,2-Dichloroethane	0.239	0.200	--	0.967	0.809	--	
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-02
 Client ID : VE-2-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1531788
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:13
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 21:06
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.208	0.200	--	0.716	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	5.31	0.200	--	20.0	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.529	0.200	--	2.30	0.869	--	
179601-23-1	p/m-Xylene	1.37	0.400	--	5.95	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	1.97	0.200	--	8.39	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.832	0.200	--	3.61	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.719	0.200	--	3.53	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
Project Name : FORMER CLEAN ZONE DRY CLEANERS
Lab ID : L2213657-02
Client ID : VE-2-IA
Sample Location : YONKERS, NY
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R1531788
Sample Amount : 250 ml

Lab Number : L2213657
Project Number : 2546.0007Y002
Date Collected : 03/16/22 12:13
Date Received : 03/16/22
Date Analyzed : 03/20/22 21:06
Dilution Factor : 1
Analyst : RY
Instrument ID : AIRLAB15
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-03
 Client ID : DUP-031622
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1531789
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:14
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 21:45
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.495	0.200	--	2.45	0.989	--	
74-87-3	Chloromethane	0.591	0.200	--	1.22	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	306	5.00	--	577	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	10.8	1.00	--	25.7	2.38	--	
75-69-4	Trichlorofluoromethane	0.313	0.200	--	1.76	1.12	--	
67-63-0	Isopropanol	12.5	0.500	--	30.7	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.69	0.500	--	4.98	1.47	--	
141-78-6	Ethyl Acetate	1.41	0.500	--	5.08	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	0.253	0.200	--	1.02	0.809	--	
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-03
 Client ID : DUP-031622
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1531789
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:14
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 21:45
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.210	0.200	--	0.723	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	5.44	0.200	--	20.5	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.543	0.200	--	2.36	0.869	--	
179601-23-1	p/m-Xylene	1.40	0.400	--	6.08	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	1.99	0.200	--	8.47	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.835	0.200	--	3.63	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.741	0.200	--	3.64	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-03
 Client ID : DUP-031622
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1531789
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:14
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 21:45
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-04D
 Client ID : VE-2
 Sample Location : YONKERS, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1531793
 Sample Amount : 190 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:28
 Date Received : 03/16/22
 Date Analyzed : 03/21/22 00:22
 Dilution Factor : 1.316
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.499	0.263	--	2.47	1.30	--	
74-87-3	Chloromethane	1.03	0.263	--	2.13	0.543	--	
76-14-2	Freon-114	ND	0.263	--	ND	1.84	--	U
75-01-4	Vinyl chloride	ND	0.263	--	ND	0.672	--	U
106-99-0	1,3-Butadiene	ND	0.263	--	ND	0.582	--	U
74-83-9	Bromomethane	ND	0.263	--	ND	1.02	--	U
75-00-3	Chloroethane	ND	0.263	--	ND	0.694	--	U
64-17-5	Ethanol	64.3	6.58	--	121	12.4	--	
593-60-2	Vinyl bromide	ND	0.263	--	ND	1.15	--	U
67-64-1	Acetone	39.8	1.32	--	94.5	3.14	--	
75-69-4	Trichlorofluoromethane	ND	0.263	--	ND	1.48	--	U
67-63-0	Isopropanol	20.4	0.658	--	50.1	1.62	--	
75-35-4	1,1-Dichloroethene	ND	0.263	--	ND	1.04	--	U
75-65-0	Tertiary butyl Alcohol	2.26	0.658	--	6.85	1.99	--	
75-09-2	Methylene chloride	0.663	0.658	--	2.30	2.29	--	
107-05-1	3-Chloropropene	ND	0.263	--	ND	0.823	--	U
75-15-0	Carbon disulfide	ND	0.263	--	ND	0.819	--	U
76-13-1	Freon-113	ND	0.263	--	ND	2.02	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.263	--	ND	1.04	--	U
75-34-3	1,1-Dichloroethane	ND	0.263	--	ND	1.06	--	U
1634-04-4	Methyl tert butyl ether	ND	0.263	--	ND	0.948	--	U
78-93-3	2-Butanone	1.00	0.658	--	2.95	1.94	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.263	--	ND	1.04	--	U
141-78-6	Ethyl Acetate	ND	0.658	--	ND	2.37	--	U
67-66-3	Chloroform	ND	0.263	--	ND	1.28	--	U
109-99-9	Tetrahydrofuran	1.46	0.658	--	4.31	1.94	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-04D
 Client ID : VE-2
 Sample Location : YONKERS, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1531793
 Sample Amount : 190 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:28
 Date Received : 03/16/22
 Date Analyzed : 03/21/22 00:22
 Dilution Factor : 1.316
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	1.46	0.263	--	5.91	1.06	--	
110-54-3	n-Hexane	0.396	0.263	--	1.40	0.927	--	
71-55-6	1,1,1-Trichloroethane	ND	0.263	--	ND	1.43	--	U
71-43-2	Benzene	1.64	0.263	--	5.24	0.840	--	
56-23-5	Carbon tetrachloride	ND	0.263	--	ND	1.65	--	U
110-82-7	Cyclohexane	ND	0.263	--	ND	0.905	--	U
78-87-5	1,2-Dichloropropane	ND	0.263	--	ND	1.22	--	U
75-27-4	Bromodichloromethane	ND	0.263	--	ND	1.76	--	U
123-91-1	1,4-Dioxane	ND	0.263	--	ND	0.948	--	U
79-01-6	Trichloroethene	ND	0.263	--	ND	1.41	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.263	--	ND	1.23	--	U
142-82-5	Heptane	1.07	0.263	--	4.39	1.08	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.263	--	ND	1.19	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.658	--	ND	2.70	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.263	--	ND	1.19	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.263	--	ND	1.43	--	U
108-88-3	Toluene	3.87	0.263	--	14.6	0.991	--	
591-78-6	2-Hexanone	0.301	0.263	--	1.23	1.08	--	
124-48-1	Dibromochloromethane	ND	0.263	--	ND	2.24	--	U
106-93-4	1,2-Dibromoethane	ND	0.263	--	ND	2.02	--	U
127-18-4	Tetrachloroethene	ND	0.263	--	ND	1.78	--	U
108-90-7	Chlorobenzene	ND	0.263	--	ND	1.21	--	U
100-41-4	Ethylbenzene	ND	0.263	--	ND	1.14	--	U
179601-23-1	p/m-Xylene	0.976	0.526	--	4.24	2.28	--	
75-25-2	Bromoform	ND	0.263	--	ND	2.72	--	U
100-42-5	Styrene	0.404	0.263	--	1.72	1.12	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-04D
 Client ID : VE-2
 Sample Location : YONKERS, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1531793
 Sample Amount : 190 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:28
 Date Received : 03/16/22
 Date Analyzed : 03/21/22 00:22
 Dilution Factor : 1.316
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.263	--	ND	1.81	--	U
95-47-6	o-Xylene	0.445	0.263	--	1.93	1.14	--	
622-96-8	4-Ethyltoluene	ND	0.263	--	ND	1.29	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.263	--	ND	1.29	--	U
95-63-6	1,2,4-Trimethylbenzene	0.393	0.263	--	1.93	1.29	--	
100-44-7	Benzyl chloride	ND	0.263	--	ND	1.36	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.263	--	ND	1.58	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.263	--	ND	1.58	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.263	--	ND	1.58	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.263	--	ND	1.95	--	U
87-68-3	Hexachlorobutadiene	ND	0.263	--	ND	2.81	--	U

Results Summary Form 1 Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-05
 Client ID : VE-1-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1531791
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 13:01
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 23:04
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.462	0.200	--	2.28	0.989	--	
74-87-3	Chloromethane	0.559	0.200	--	1.15	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	1180	5.00	--	2220	9.42	--	E
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	4.90	1.00	--	11.6	2.38	--	
75-69-4	Trichlorofluoromethane	0.267	0.200	--	1.50	1.12	--	
67-63-0	Isopropanol	37.2	0.500	--	91.4	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	0.704	0.500	--	2.54	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-05
 Client ID : VE-1-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1531791
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 13:01
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 23:04
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.386	0.200	--	1.45	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC Project Name : FORMER CLEAN ZONE DRY CLEANERS Lab ID : L2213657-05 Client ID : VE-1-IA Sample Location : YONKERS, NY Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R1531791 Sample Amount : 250 ml	Lab Number : L2213657 Project Number : 2546.0007Y002 Date Collected : 03/16/22 13:01 Date Received : 03/16/22 Date Analyzed : 03/20/22 23:04 Dilution Factor : 1 Analyst : RY Instrument ID : AIRLAB15 GC Column : RTX-1
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CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab ID	: L2213657-05D	Date Collected	: 03/16/22 13:01
Client ID	: VE-1-IA	Date Received	: 03/16/22
Sample Location	: YONKERS, NY	Date Analyzed	: 03/21/22 09:06
Sample Matrix	: AIR	Dilution Factor	: 5
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R1531799	Instrument ID	: AIRLAB15
Sample Amount	: 50.0 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
64-17-5	Ethanol	1600	25.0	--	3010	47.1	--	

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : WG1617728-4
 Client ID : WG1617728-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1531780
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/20/22 15:20
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
115-07-1	Propylene	ND	0.500	--	ND	0.861	--	U
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
108-05-4	Vinyl acetate	ND	1.00	--	ND	3.52	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : WG1617728-4
 Client ID : WG1617728-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1531780
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/20/22 15:20
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : WG1617728-4
 Client ID : WG1617728-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1531780
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/20/22 15:20
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : WG1617728-5
 Client ID : DUP-031622DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1531790
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:14
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 22:25
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.495	0.200	--	2.45	0.989	--	
74-87-3	Chloromethane	0.564	0.200	--	1.16	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	307	5.00	--	578	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	9.91	1.00	--	23.5	2.38	--	
75-69-4	Trichlorofluoromethane	0.316	0.200	--	1.78	1.12	--	
67-63-0	Isopropanol	12.5	0.500	--	30.7	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	0.570	0.500	--	1.98	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.73	0.500	--	5.10	1.47	--	
141-78-6	Ethyl Acetate	1.45	0.500	--	5.23	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	0.259	0.200	--	1.05	0.809	--	
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : WG1617728-5
 Client ID : DUP-031622DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1531790
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:14
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 22:25
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.207	0.200	--	0.713	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	5.44	0.200	--	20.5	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.558	0.200	--	2.42	0.869	--	
179601-23-1	p/m-Xylene	1.43	0.400	--	6.21	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	2.04	0.200	--	8.69	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.839	0.200	--	3.64	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.766	0.200	--	3.77	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : WG1617728-5
 Client ID : DUP-031622DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1531790
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:14
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 22:25
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531788.D
 Acq On : 20 Mar 2022 9:06 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-02,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:41:00 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.58	49	382360	10.000	ppbV	-0.03
Standard Area = 382239			Recovery =	100.03%		
43) 1,4-difluorobenzene	11.86	114	837180	10.000	ppbV	-0.03
Standard Area = 859136			Recovery =	97.44%		
67) chlorobenzene-D5	16.57	54	198398	10.000	ppbV	-0.02
Standard Area = 200634			Recovery =	98.89%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.96	85	14733	0.521	ppbV	95
6) chloromethane	4.14	50	8364	0.593	ppbV	100
7) Freon-114	4.28		0	N.D.		
10) 1,3-butadiene	4.57		0	N.D.		
13) bromomethane	4.89		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	5.29	31	3376396	307.957	ppbV	97
17) vinyl bromide	0.00		0	N.D.		
19) acetone	5.88	43	237879M6	10.889	ppbV	
21) trichlorofluoromethane	6.07	101	8546	0.315	ppbV	96
22) isopropyl alcohol	6.19	45	284056	12.032	ppbV	99
27) tertiary butyl alcohol	6.95	59	5967	0.195	ppbV #	75
28) methylene chloride	7.02	49	8306	0.464	ppbV	98
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	7.31		0	N.D.		
31) Freon 113	7.36	101	1847	0.068	ppbV #	90
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	0.00		0	N.D.		
36) 2-butanone	8.88	43	61062	1.566	ppbV	98
38) Ethyl Acetate	9.70	61	9274	1.312	ppbV	93
39) chloroform	9.75	83	3814	0.118	ppbV	98
40) Tetrahydrofuran	10.22	42	13055	0.539	ppbV	99
42) 1,2-dichloroethane	10.60	62	5556	0.239	ppbV	97
44) hexane	9.66	57	4521	0.128	ppbV #	69
50) benzene	11.42	78	8741	0.149	ppbV	95
53) cyclohexane	11.74	56	7864	0.208	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531788.D
 Acq On : 20 Mar 2022 9:06 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-02,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:41:00 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
56) 1,2-dichloropropane	12.38	63	1289	0.059	ppbV		96
57) bromodichloromethane	0.00		0	N.D.			
58) 1,4-dioxane	0.00		0	N.D.			
60) 2,2,4-trimethylpentane	12.71		0	N.D.			
62) heptane	13.03	43	2542	0.065	ppbV		92
63) cis-1,3-dichloropropene	0.00		0	N.D.			
64) 4-methyl-2-pentanone	13.73		0	N.D.			
65) trans-1,3-dichloropropene	0.00		0	N.D.			
66) 1,1,2-trichloroethane	0.00		0	N.D.			
68) toluene	14.81	91	392608	5.314	ppbV		99
72) 2-hexanone	0.00		0	N.D.	d		
74) dibromochloromethane	0.00		0	N.D.			
75) 1,2-dibromoethane	0.00		0	N.D.			
80) chlorobenzene	16.62		0	N.D.			
81) ethylbenzene	16.96	91	46322	0.529	ppbV		95
83) m+p-xylene	17.11	91	97659	1.374	ppbV		93
84) bromoform	0.00		0	N.D.			
85) styrene	17.43	104	99391	1.972	ppbV		99
86) 1,1,2,2-tetrachloroethane	0.00		0	N.D.	d		
87) o-xylene	17.52	91	58752	0.832	ppbV		95
96) 4-ethyl toluene	18.57		0	N.D.			
97) 1,3,5-trimethylbenzene	18.63	105	7589	0.100	ppbV #		89
99) 1,2,4-trimethylbenzene	18.97	105	52552	0.719	ppbV #		49
101) Benzyl Chloride	0.00		0	N.D.	d		
102) 1,3-dichlorobenzene	19.15		0	N.D.			
103) 1,4-dichlorobenzene	19.15		0	N.D.			
107) 1,2-dichlorobenzene	19.42		0	N.D.			
115) 1,2,4-trichlorobenzene	0.00		0	N.D.			
119) hexachlorobutadiene	0.00		0	N.D.			

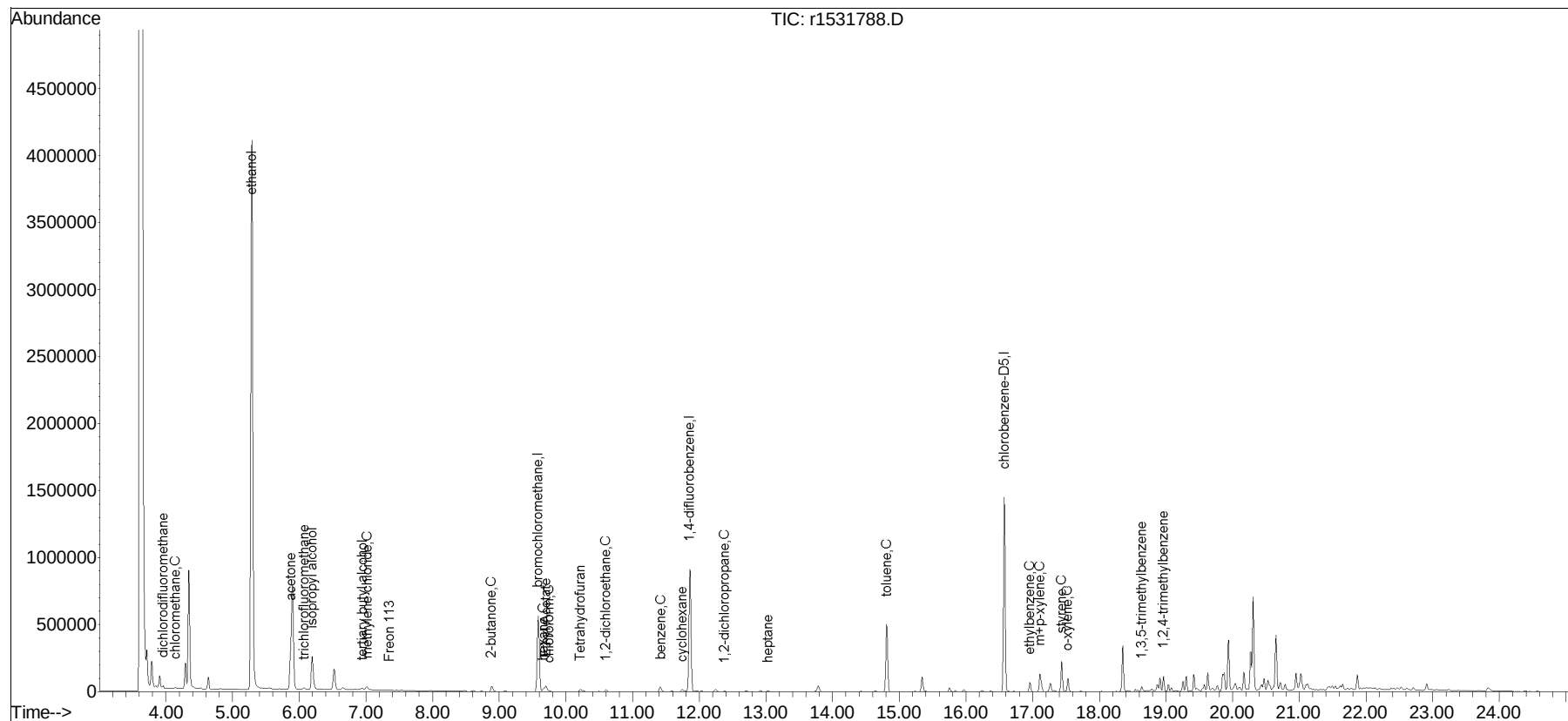
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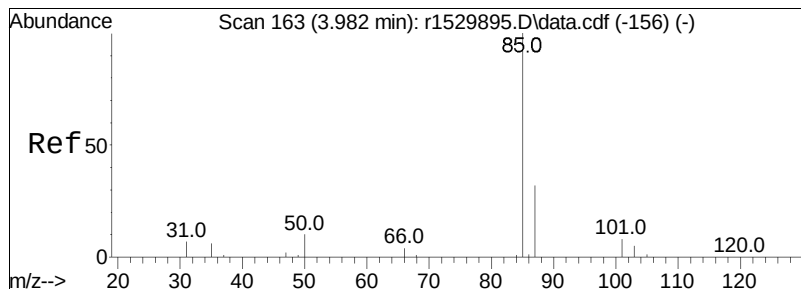
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531788.D
 Acq On : 20 Mar 2022 9:06 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-02,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:41:00 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

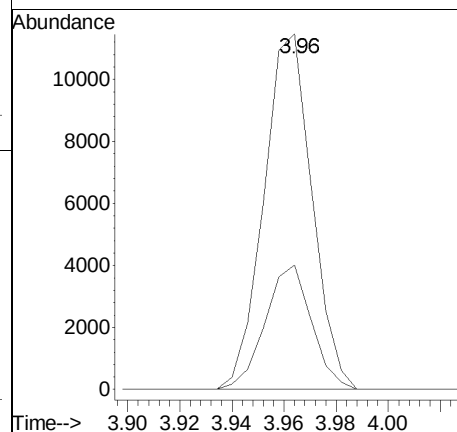
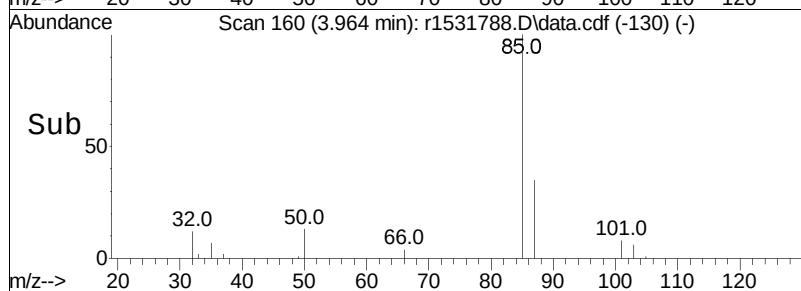
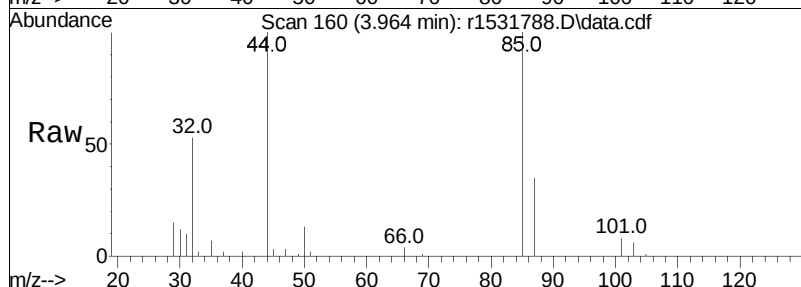
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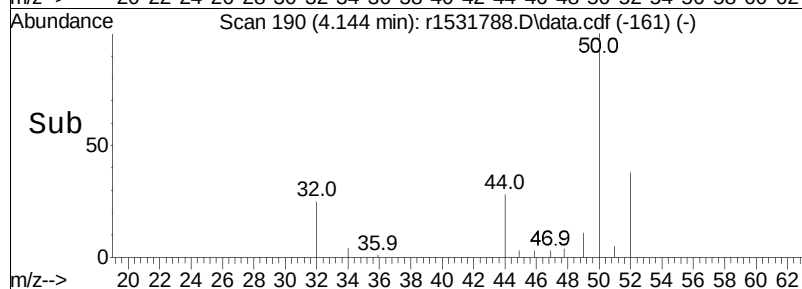
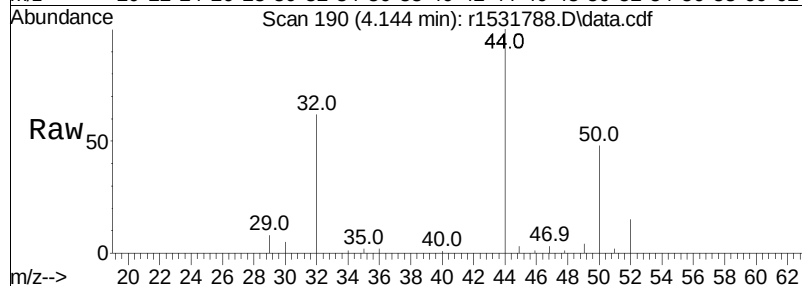
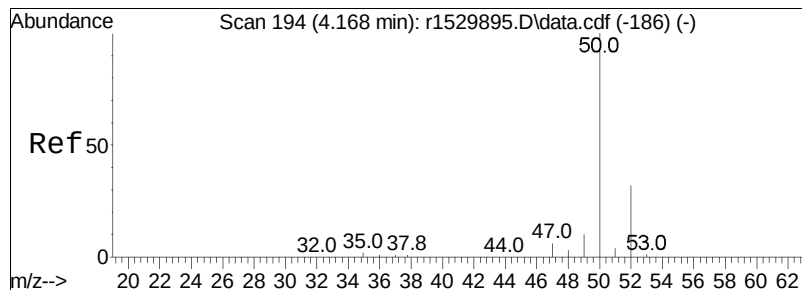




#5
 dichlorodifluoromethane
 Concen: 0.52 ppbV
 RT: 3.96 min Scan# 160
 Delta R.T. -0.018 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

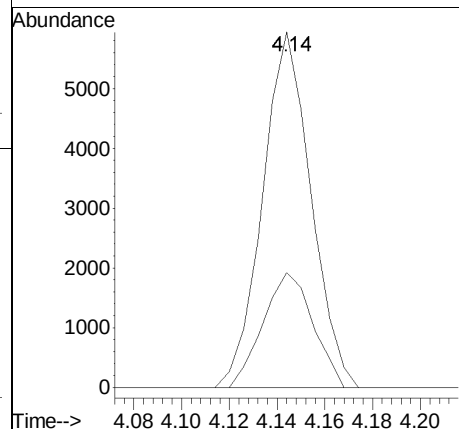
Tgt Ion: 85 Resp: 14733
 Ion Ratio Lower Upper
 85 100
 87 35.0 25.6 38.4

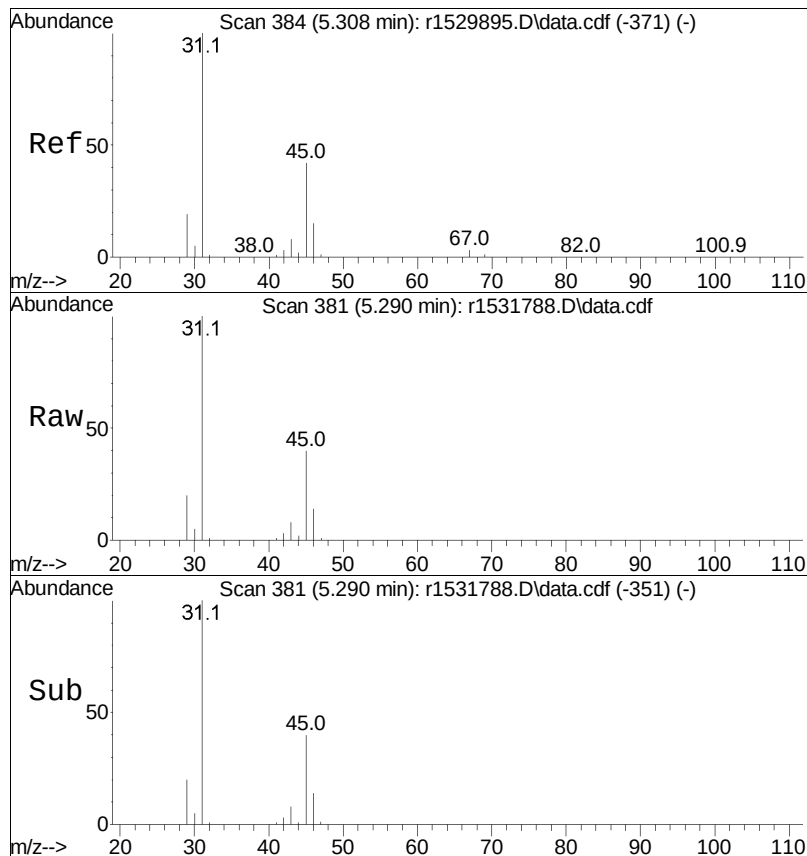




#6
 chloromethane
 Concen: 0.59 ppbV
 RT: 4.14 min Scan# 190
 Delta R.T. -0.024 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

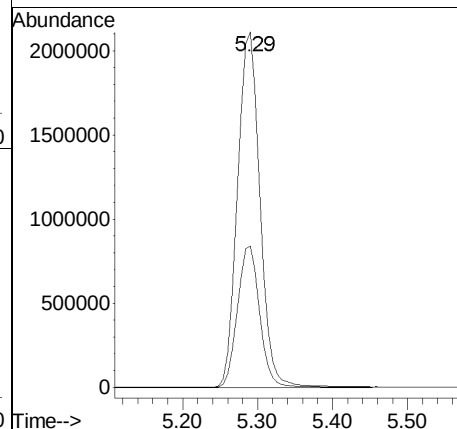
Tgt	Ion	Resp	Lower	Upper
50	100	8364		
52	32.4	25.9	38.9	

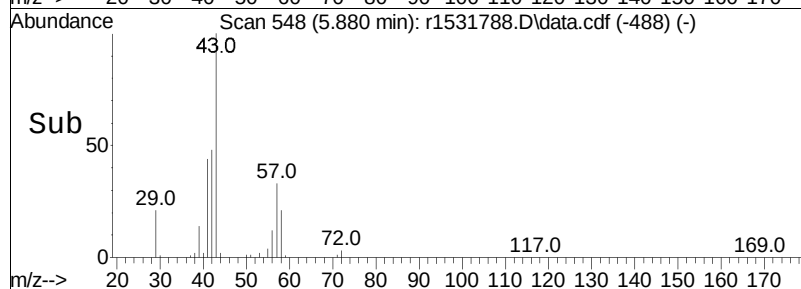
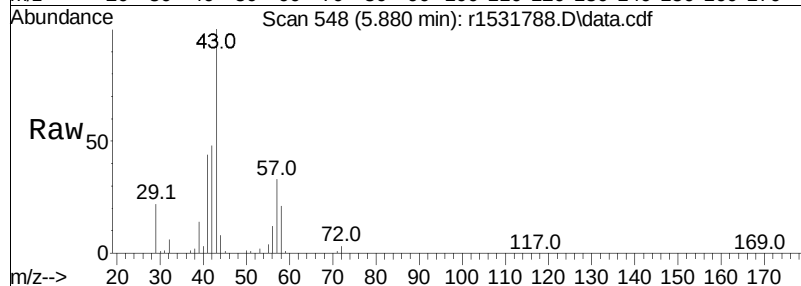
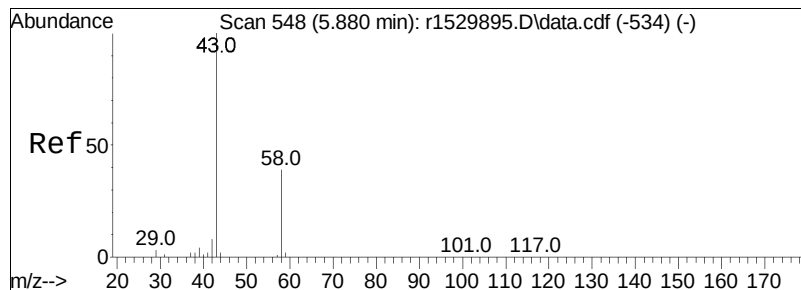




#15
 ethanol
 Concen: 307.96 ppbV
 RT: 5.29 min Scan# 381
 Delta R.T. -0.018 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

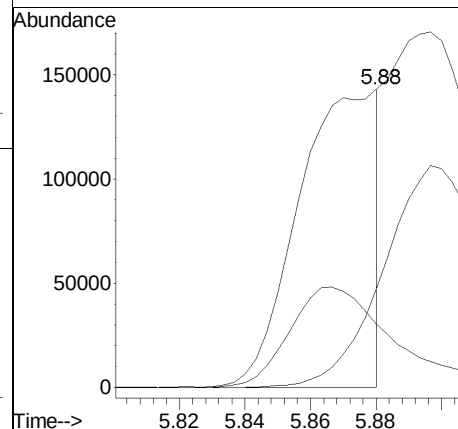
Tgt	Ion	Resp	Lower	Upper
31	100	3376396		
45	39.8	33.4	50.2	

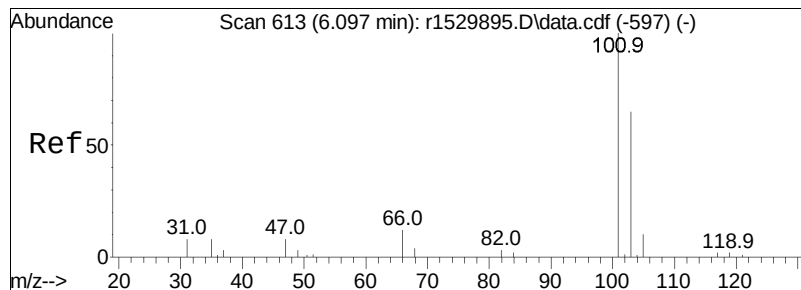




#19
acetone
Concen: 10.89 ppbV m
RT: 5.88 min Scan# 548
Delta R.T. 0.000 min
Lab File: r1531788.D
Acq: 20 Mar 2022 9:06 PM

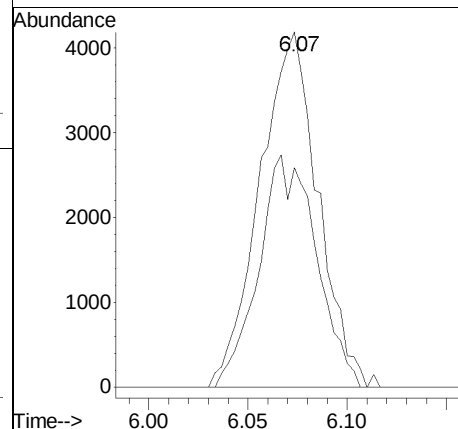
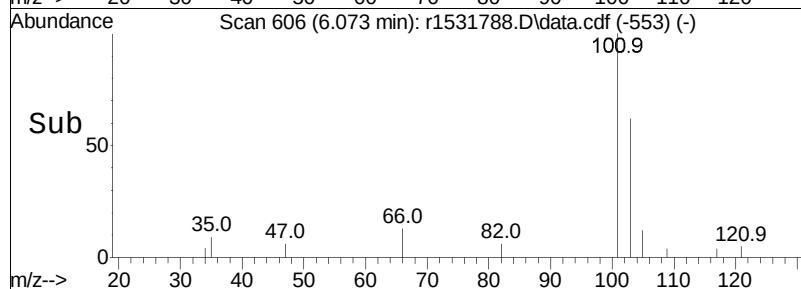
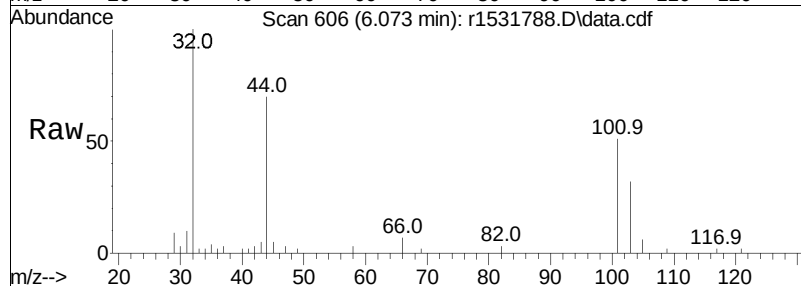
Tgt Ion:	43	Resp:	237879
Ion Ratio	Lower	Upper	
43	100		
58	21.3	31.6	47.4#
57	32.8	0.8	1.2#

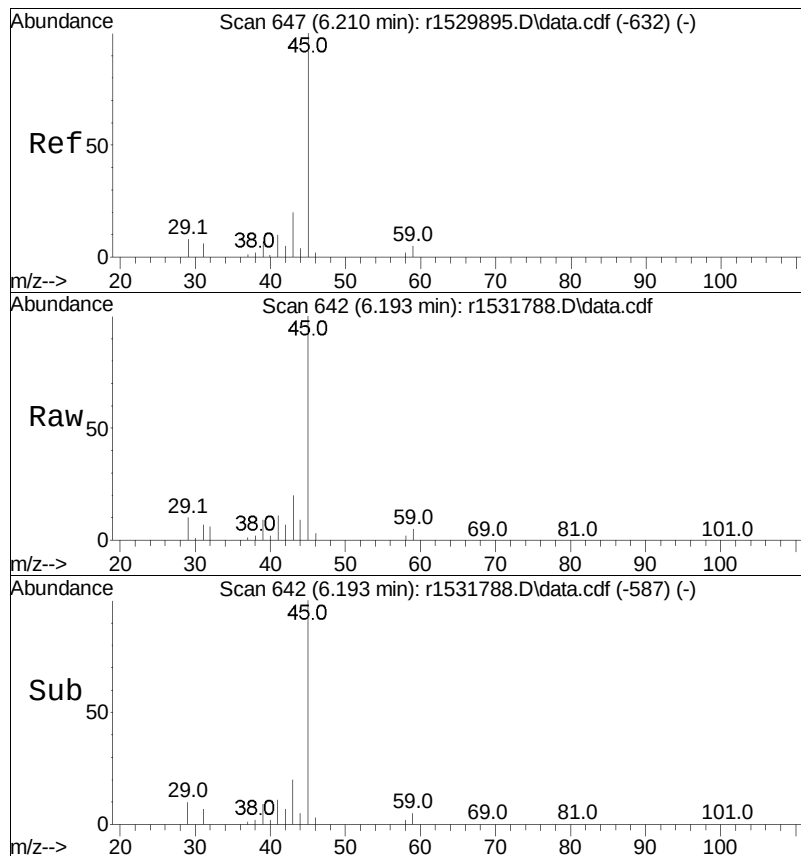




#21
trichlorofluoromethane
Concen: 0.32 ppbV
RT: 6.07 min Scan# 606
Delta R.T. -0.023 min
Lab File: r1531788.D
Acq: 20 Mar 2022 9:06 PM

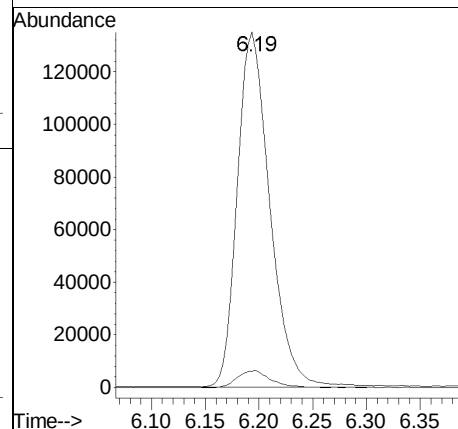
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	61.8	52.0	78.0	

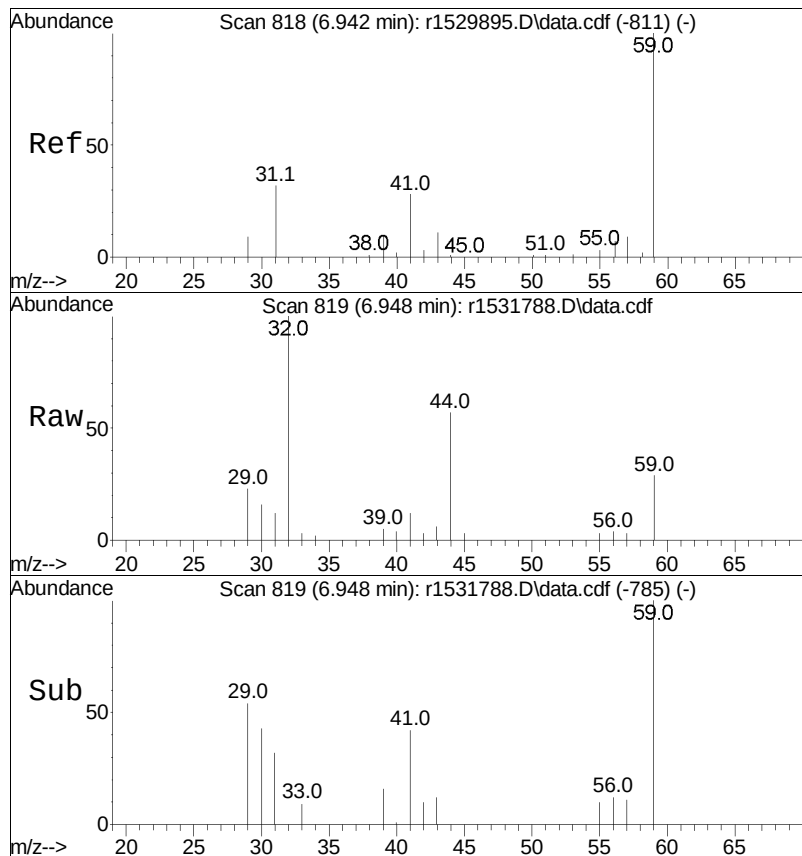




#22
 isopropyl alcohol
 Concen: 12.03 ppbV
 RT: 6.19 min Scan# 642
 Delta R.T. -0.017 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

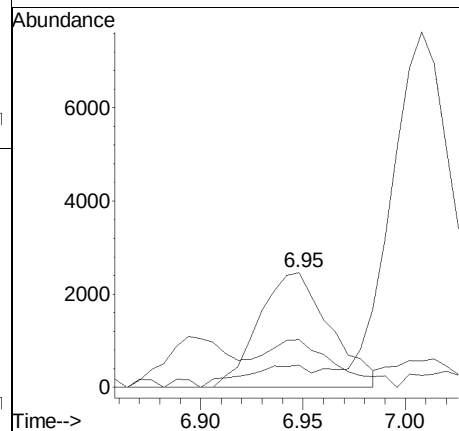
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.6	3.8	5.8

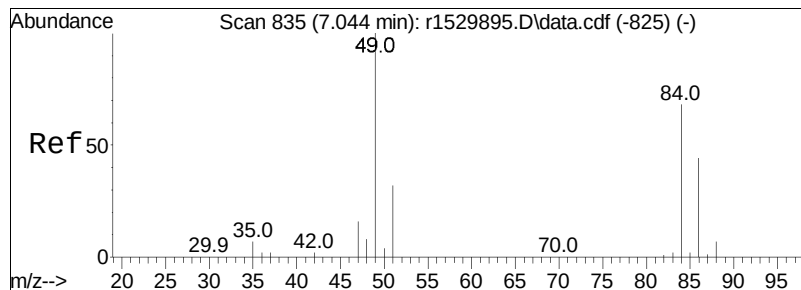




#27
 tertiary butyl alcohol
 Concen: 0.20 ppbV
 RT: 6.95 min Scan# 819
 Delta R.T. 0.006 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

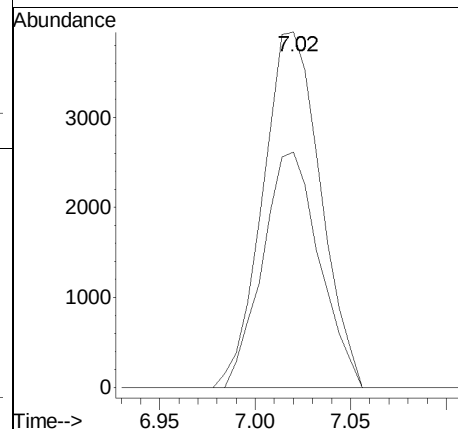
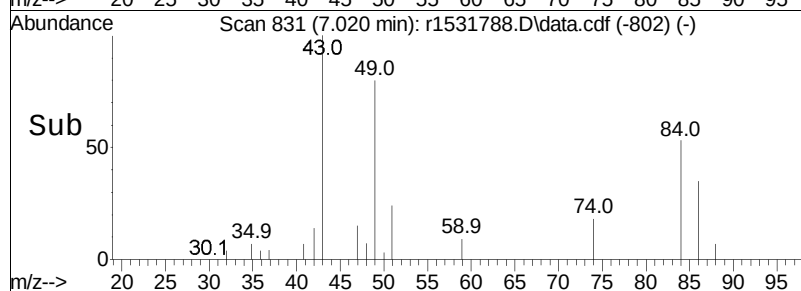
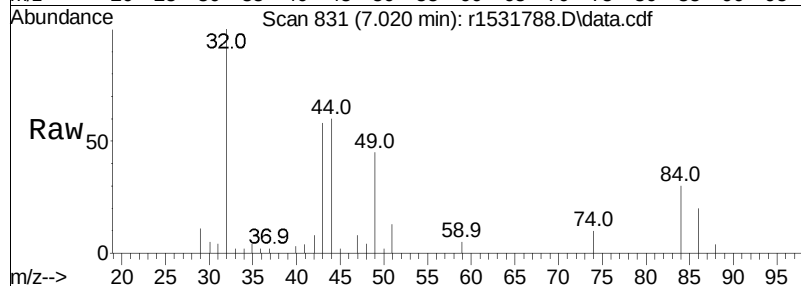
Tgt Ion:	59	Resp:	5967
Ion Ratio	Lower	Upper	
59	100		
41	41.6	22.2	33.4#
43	19.4	8.9	13.3#

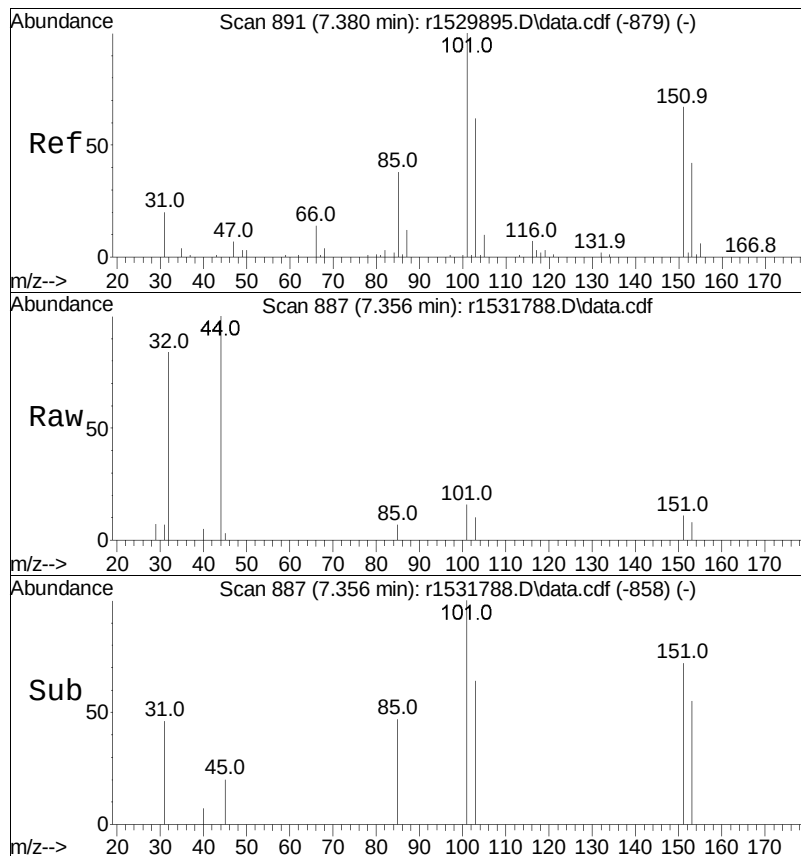




#28
 methylene chloride
 Concen: 0.46 ppbV
 RT: 7.02 min Scan# 831
 Delta R.T. -0.024 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

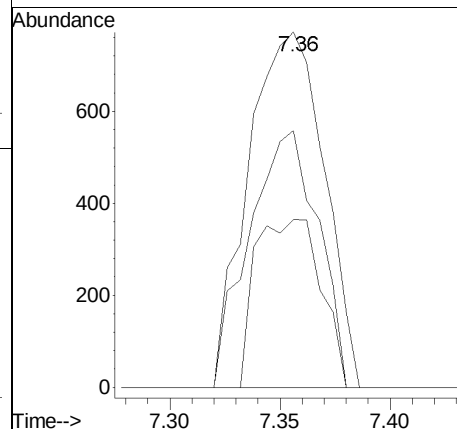
Tgt Ion	Ratio	Lower	Upper
49	100		
84	66.2	54.5	81.7

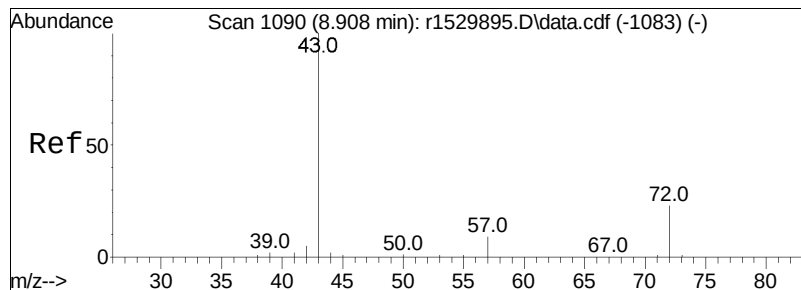




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 7.36 min Scan# 887
 Delta R.T. -0.024 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

Tgt Ion:	101	Resp:	1847
Ion Ratio	Lower	Upper	
101	100		
85	47.3	30.6	46.0#
151	72.3	53.5	80.3





#36

2-butanone

Concen: 1.57 ppbV

RT: 8.88 min Scan# 1087

Delta R.T. -0.025 min

Lab File: r1531788.D

Acq: 20 Mar 2022 9:06 PM

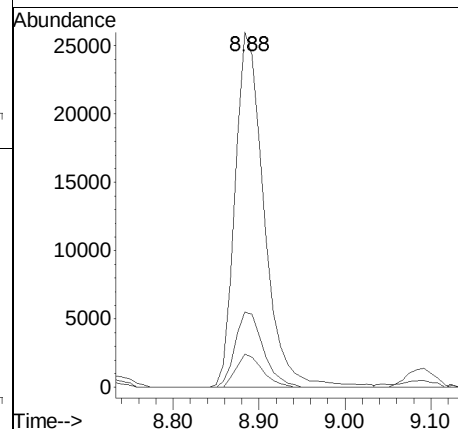
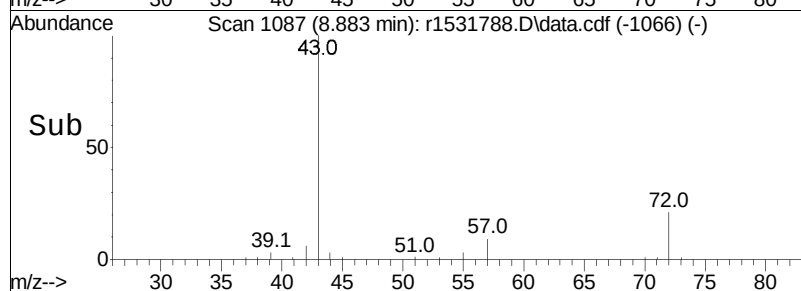
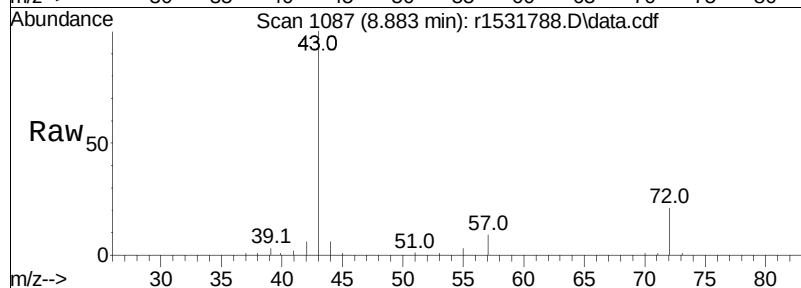
Tgt Ion: 43 Resp: 61062

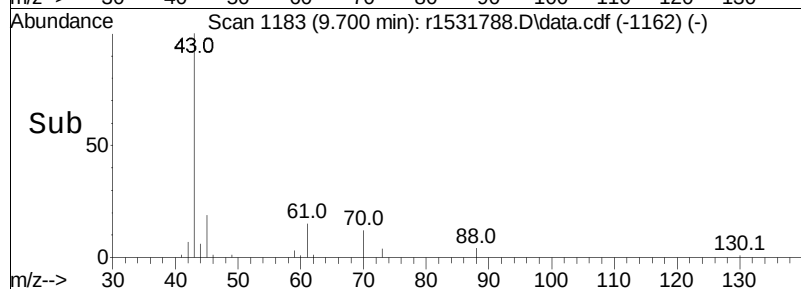
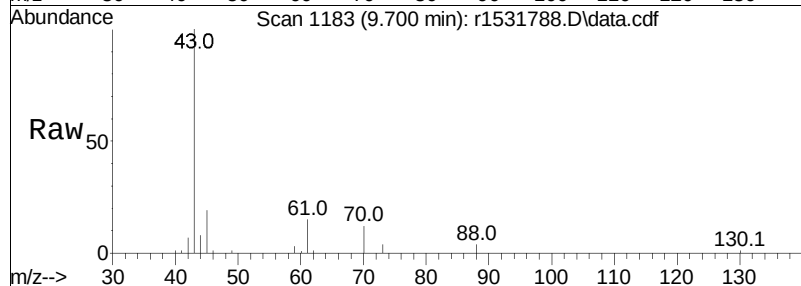
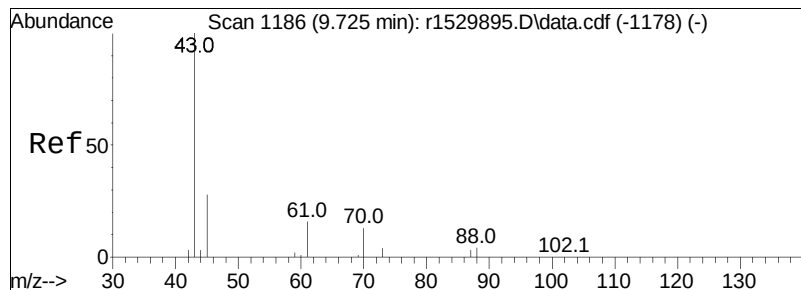
Ion Ratio Lower Upper

43 100

72 21.2 18.0 27.0

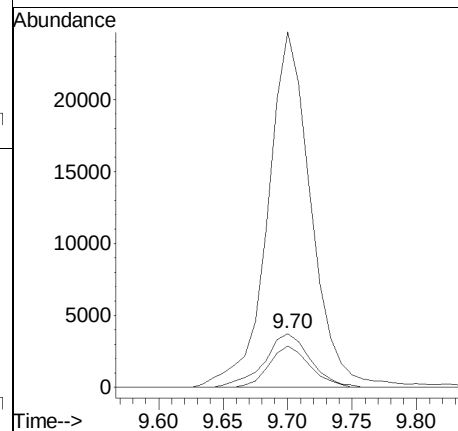
57 9.4 7.0 10.4

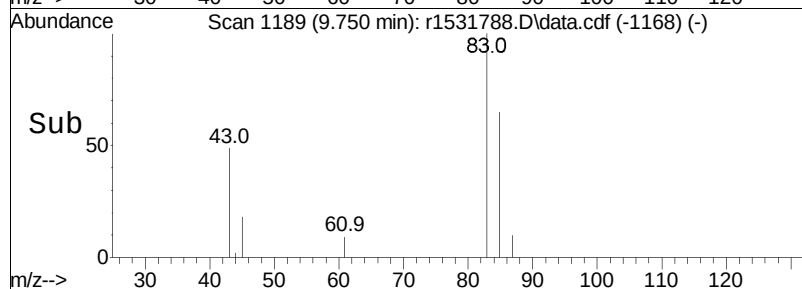
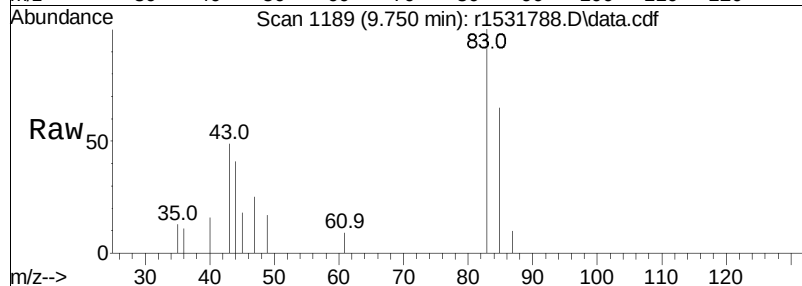
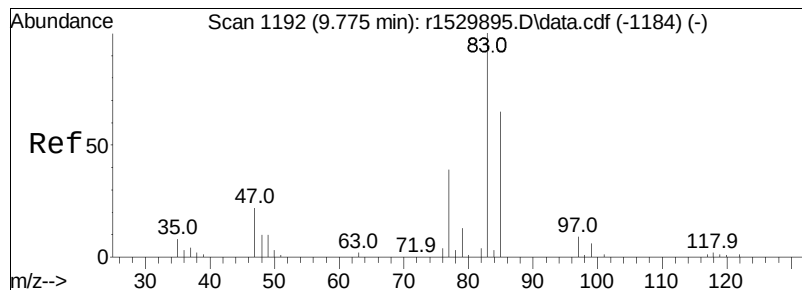




#38
Ethyl Acetate
Concen: 1.31 ppbV
RT: 9.70 min Scan# 1183
Delta R.T. -0.025 min
Lab File: r1531788.D
Acq: 20 Mar 2022 9:06 PM

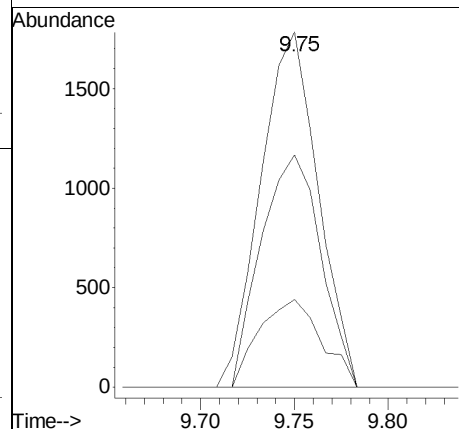
Tgt	Ion	Resp	Lower	Upper
61	100	9274		
70	77.4		62.7	94.1
43	662.4		551.8	827.8

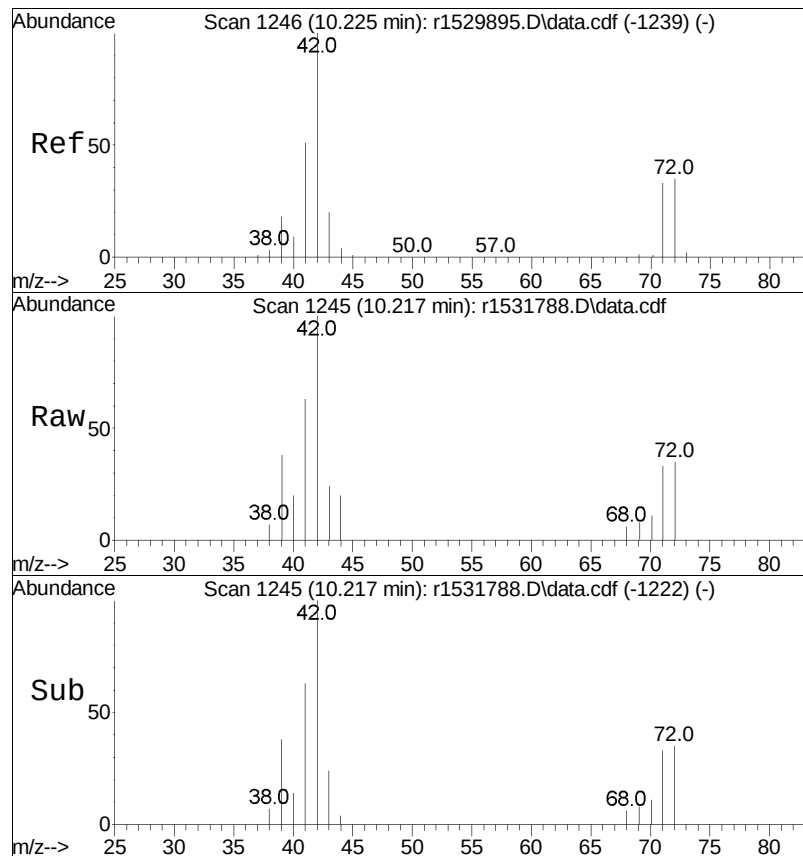




#39
chloroform
Concen: 0.12 ppbV
RT: 9.75 min Scan# 1189
Delta R.T. -0.025 min
Lab File: r1531788.D
Acq: 20 Mar 2022 9:06 PM

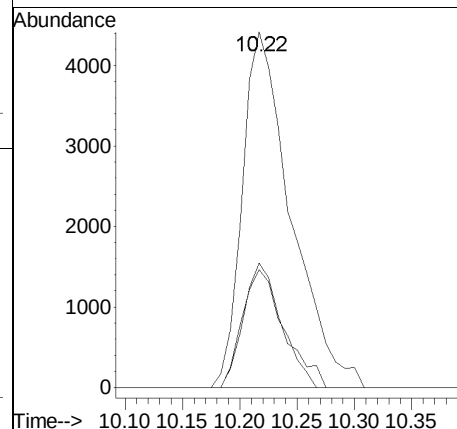
Tgt	Ion	Ratio	Lower	Upper
83	100			
85	65.4	51.8	77.8	
47	24.7	17.9	26.9	

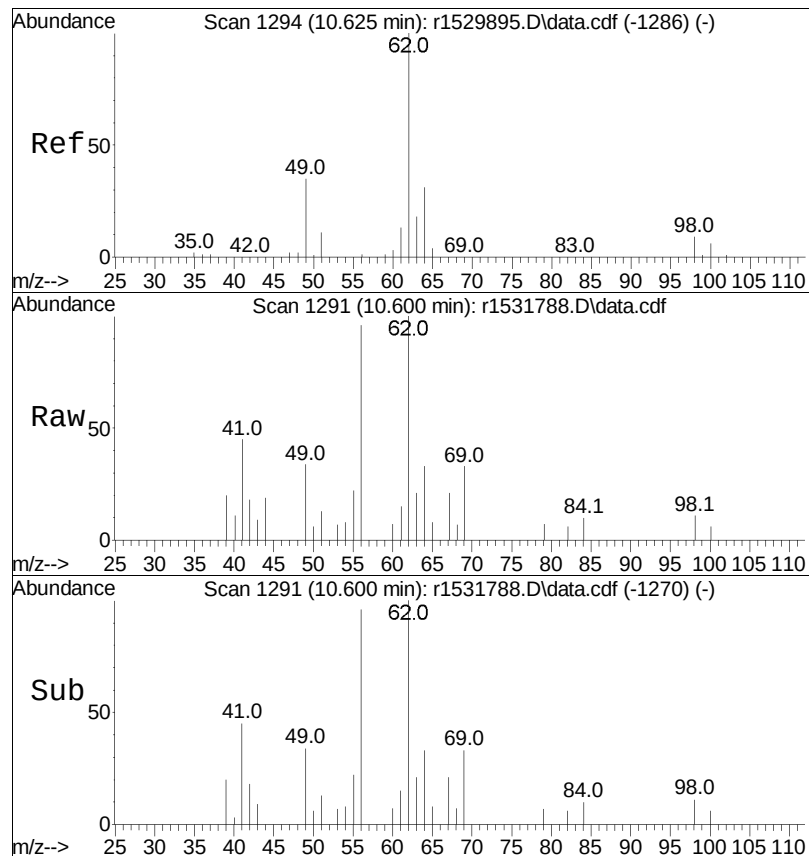




#40
Tetrahydrofuran
Concen: 0.54 ppbV
RT: 10.22 min Scan# 1245
Delta R.T. -0.008 min
Lab File: r1531788.D
Acq: 20 Mar 2022 9:06 PM

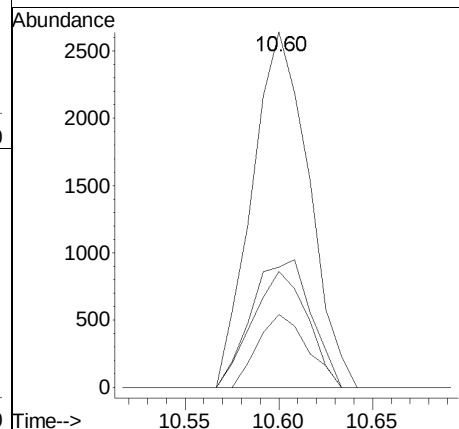
Tgt Ion	Ratio	Lower	Upper
42	100		
71	33.1	26.8	40.2
72	35.0	27.7	41.5

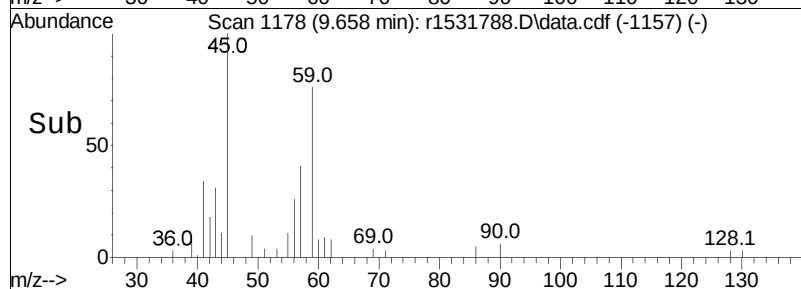
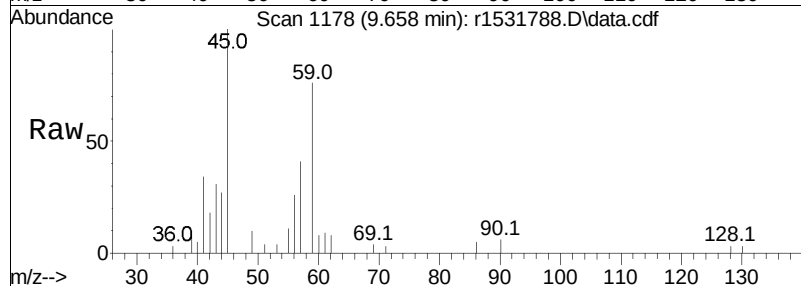
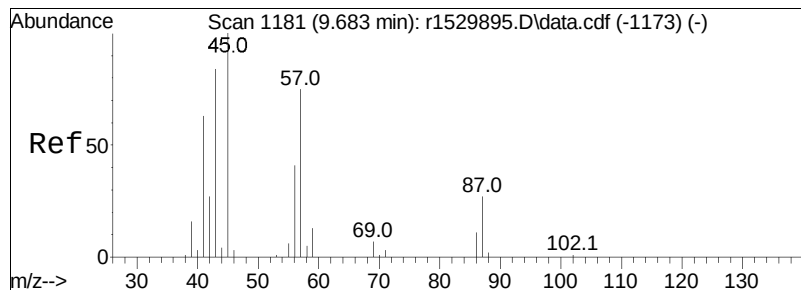




#42
 1,2-dichloroethane
 Concen: 0.24 ppbV
 RT: 10.60 min Scan# 1291
 Delta R.T. -0.025 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

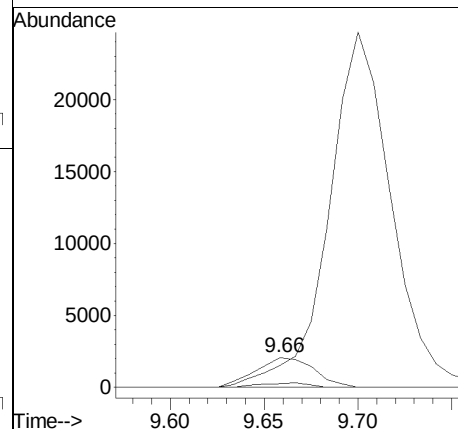
Tgt Ion:	62	Resp:	5556
Ion Ratio	Lower	Upper	
62	100		
64	32.6	25.0	37.4
49	33.9	27.8	41.8
63	20.5	14.4	21.6

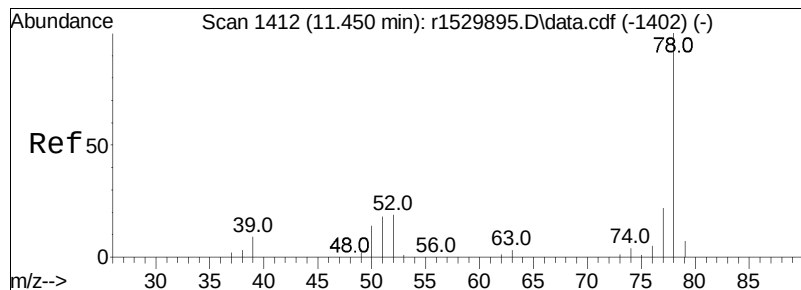




#44
hexane
Concen: 0.13 ppbV
RT: 9.66 min Scan# 1178
Delta R.T. -0.025 min
Lab File: r1531788.D
Acq: 20 Mar 2022 9:06 PM

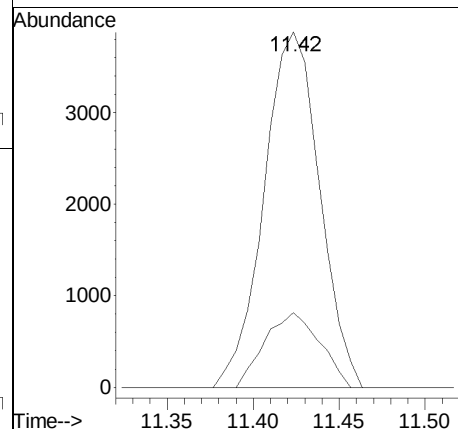
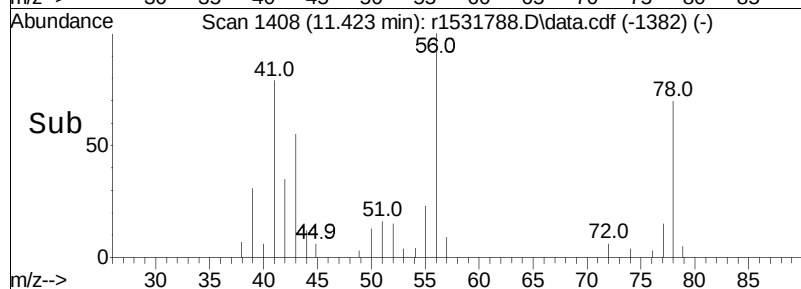
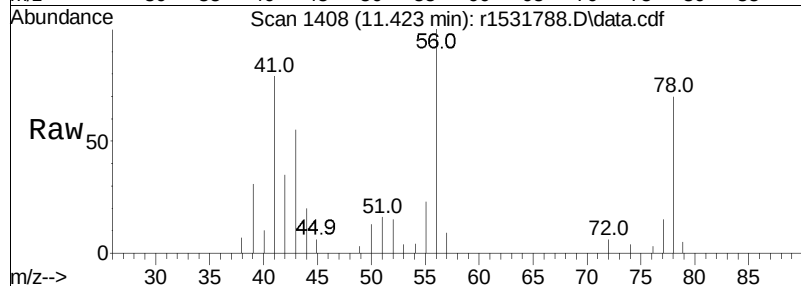
Tgt	Ion	Resp	Lower	Upper
57	100	4521		
43	74.0		88.8	133.2#
86	12.5		11.4	17.0

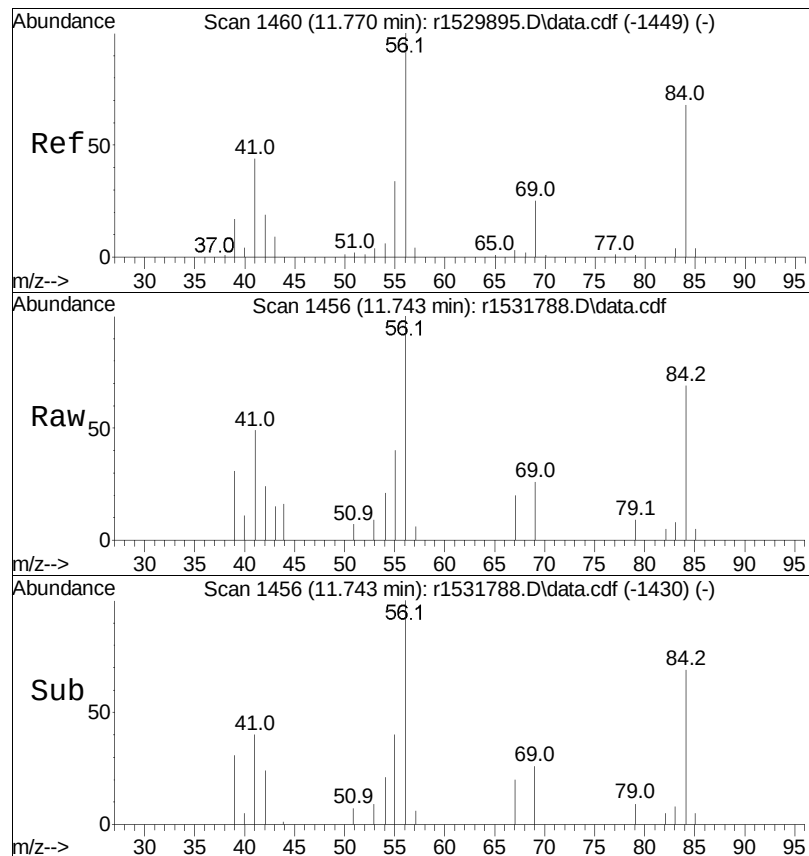




#50
benzene
Concen: 0.15 ppbV
RT: 11.42 min Scan# 1408
Delta R.T. -0.027 min
Lab File: r1531788.D
Acq: 20 Mar 2022 9:06 PM

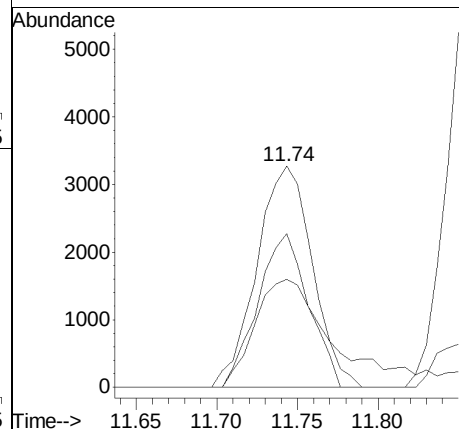
Tgt	Ion	Ratio	Lower	Upper
78	100			
52	21.1	15.2	22.8	

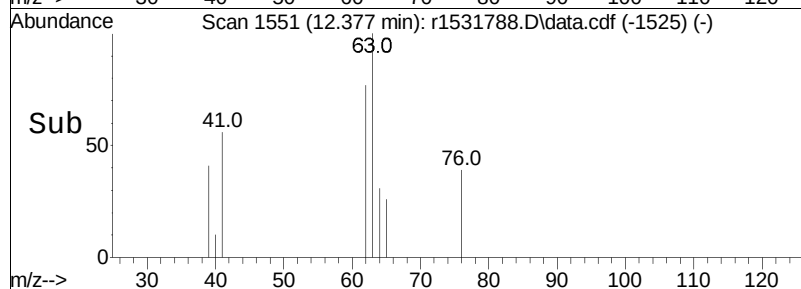
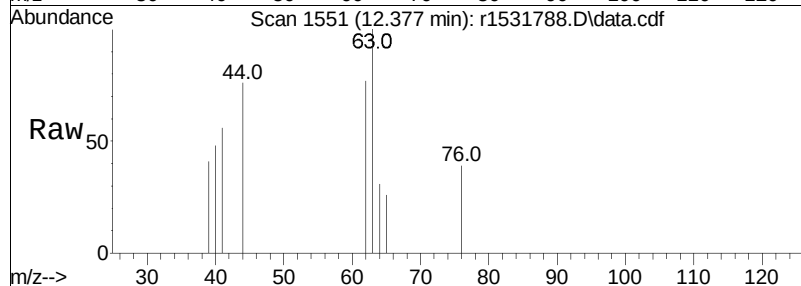
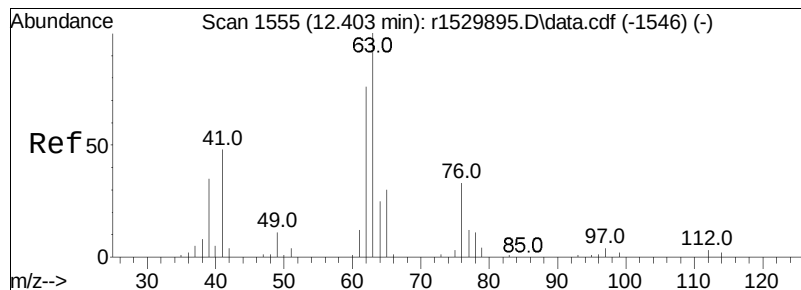




#53
cyclohexane
Concen: 0.21 ppbV
RT: 11.74 min Scan# 1456
Delta R.T. -0.027 min
Lab File: r1531788.D
Acq: 20 Mar 2022 9:06 PM

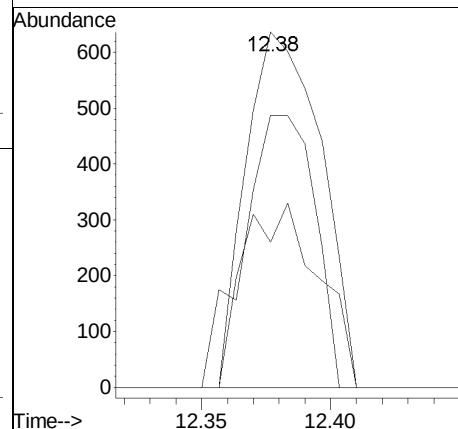
Tgt Ion	Ratio	Lower	Upper
56	100		
84	69.5	54.8	82.2
41	48.8	35.5	53.3

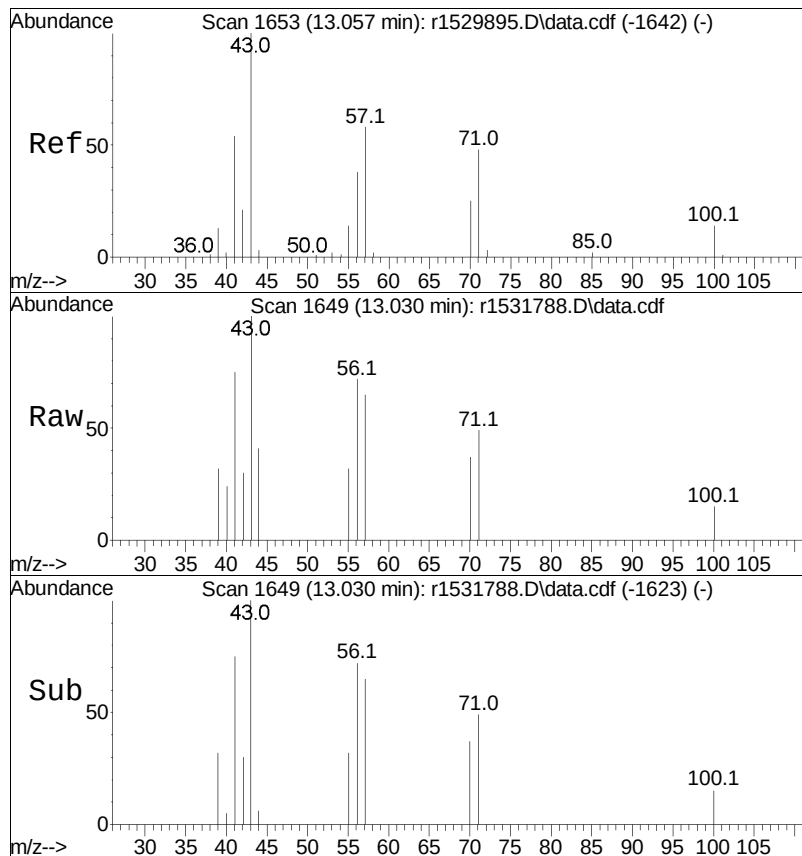




#56
 1,2-dichloropropane
 Concen: 0.06 ppbV
 RT: 12.38 min Scan# 1551
 Delta R.T. -0.027 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

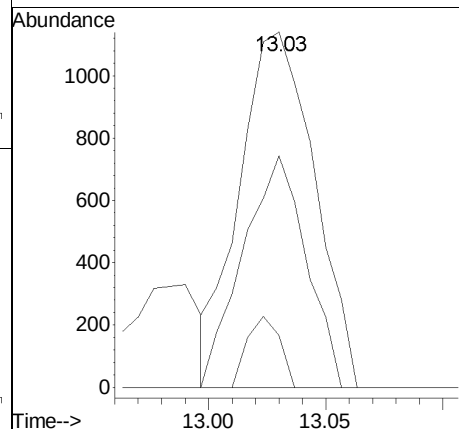
Tgt	Ion	Ratio	Lower	Upper
63	100			
62	76.6	60.6	91.0	
39	40.9	27.8	41.6	

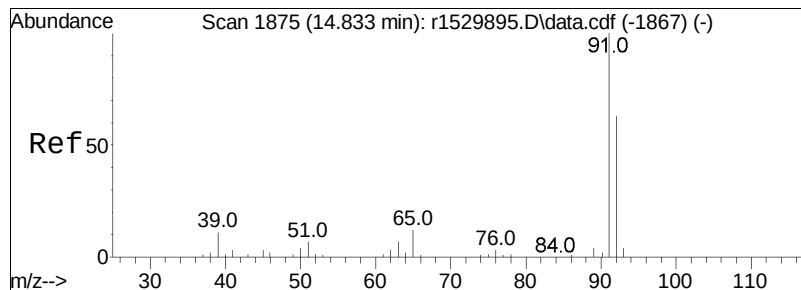




#62
 heptane
 Concen: 0.07 ppbV
 RT: 13.03 min Scan# 1649
 Delta R.T. -0.027 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

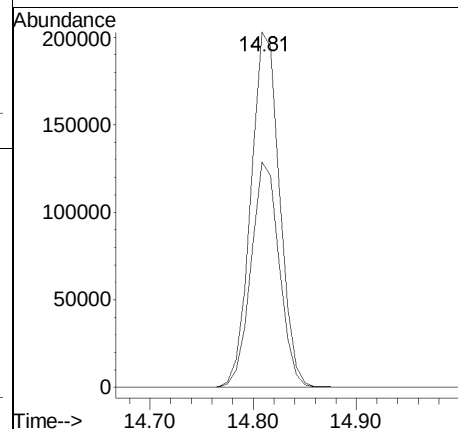
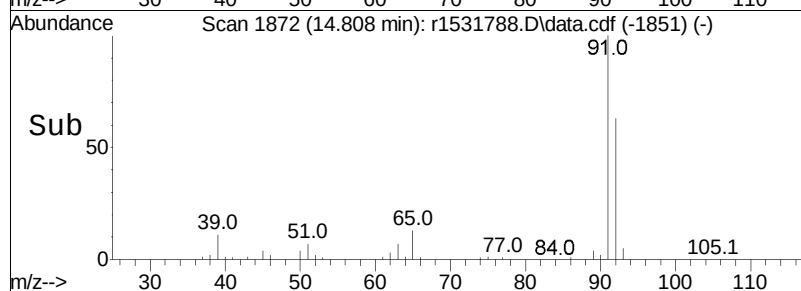
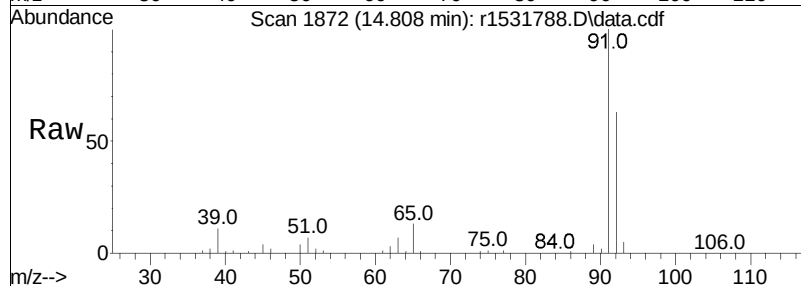
Tgt Ion:	43	Resp:	2542
Ion Ratio	Lower	Upper	
43	100		
57	65.2	46.5	69.7
100	14.6	11.6	17.4

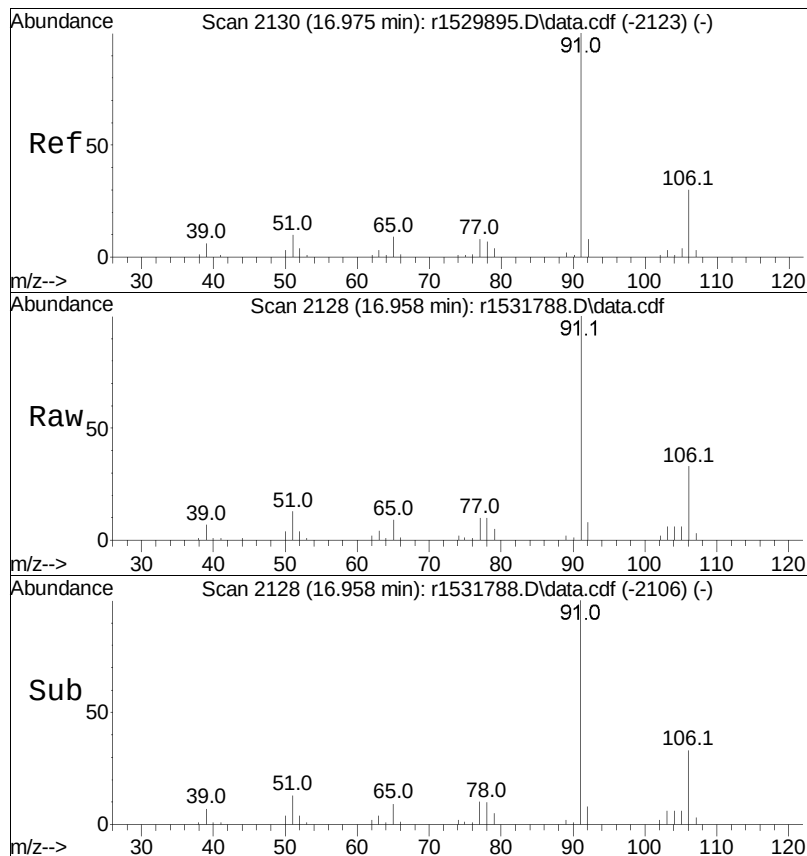




#68
toluene
Concen: 5.31 ppbV
RT: 14.81 min Scan# 1872
Delta R.T. -0.025 min
Lab File: r1531788.D
Acq: 20 Mar 2022 9:06 PM

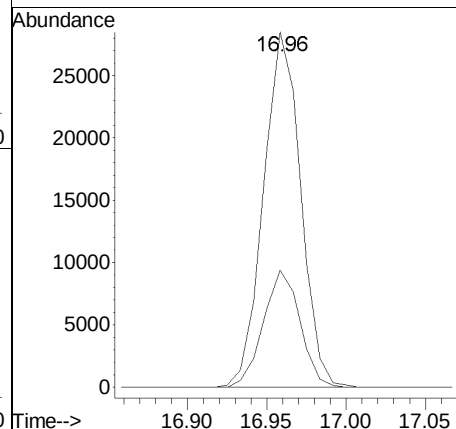
Tgt	Ion	Resp	Lower	Upper
91	100	392608		
92	63.5	50.3	75.5	

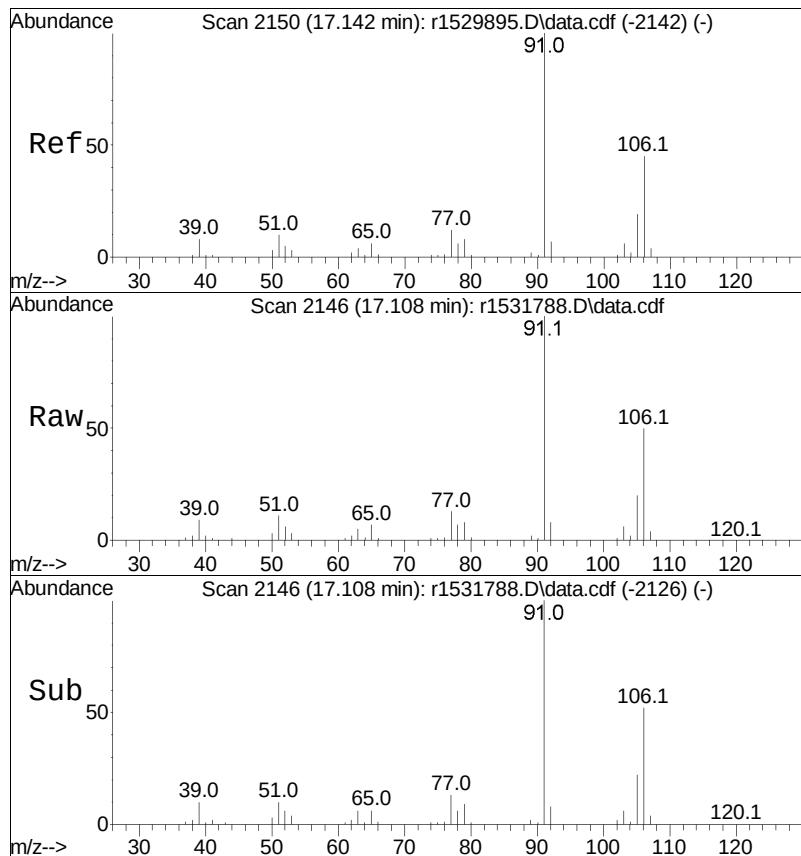




#81
ethylbenzene
Concen: 0.53 ppbV
RT: 16.96 min Scan# 2128
Delta R.T. -0.017 min
Lab File: r1531788.D
Acq: 20 Mar 2022 9:06 PM

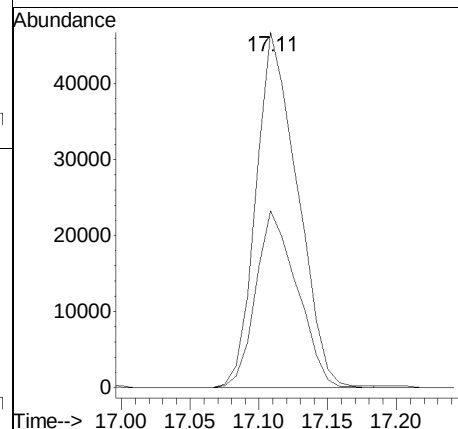
Tgt	Ion	Resp	Lower	Upper
91	100	46322		
106	33.0	24.1	36.1	

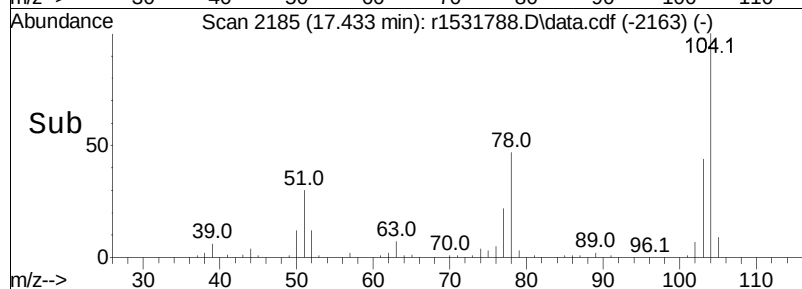
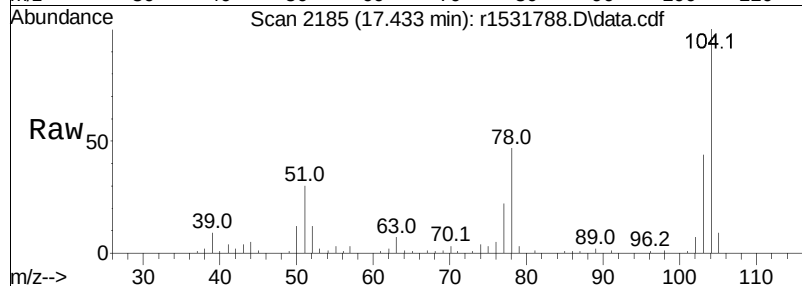
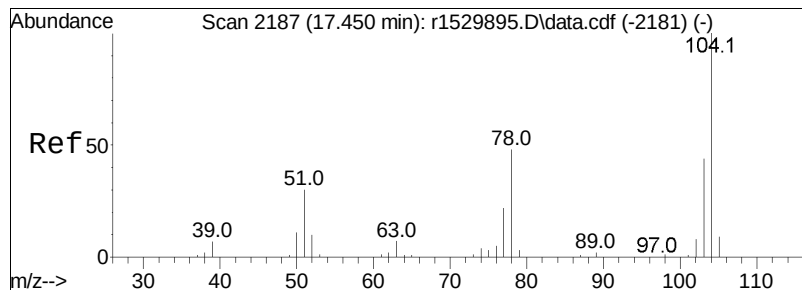




#83
 m+p-xylene
 Concen: 1.37 ppbV
 RT: 17.11 min Scan# 2146
 Delta R.T. -0.033 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

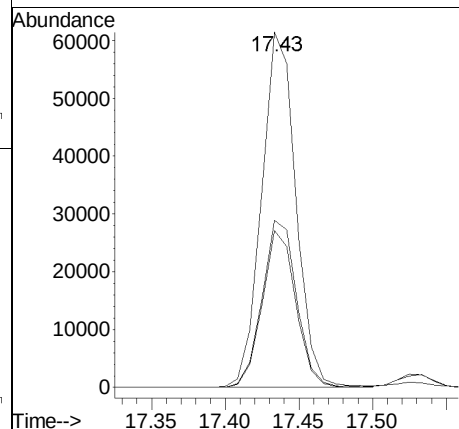
Tgt Ion:	91	Resp:	97659
Ion Ratio	Lower	Upper	
91	100		
106	49.7	36.2	54.2

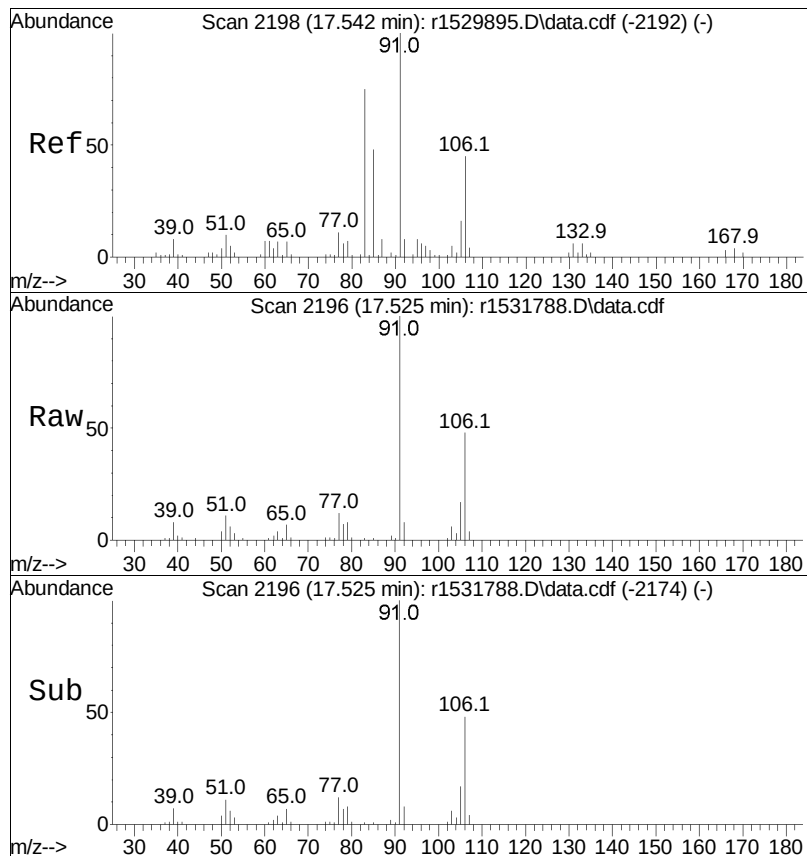




#85
styrene
Concen: 1.97 ppbV
RT: 17.43 min Scan# 2185
Delta R.T. -0.017 min
Lab File: r1531788.D
Acq: 20 Mar 2022 9:06 PM

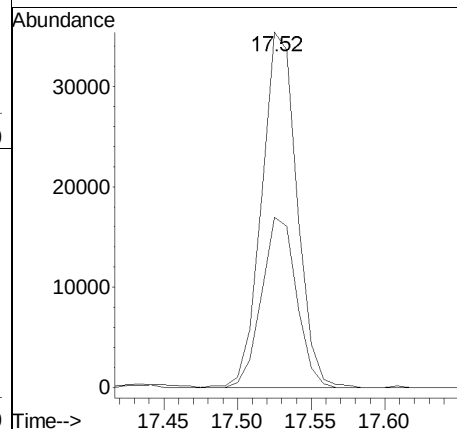
Tgt Ion	Ratio	Lower	Upper
104	100		
103	44.2	35.0	52.6
78	47.0	38.3	57.5

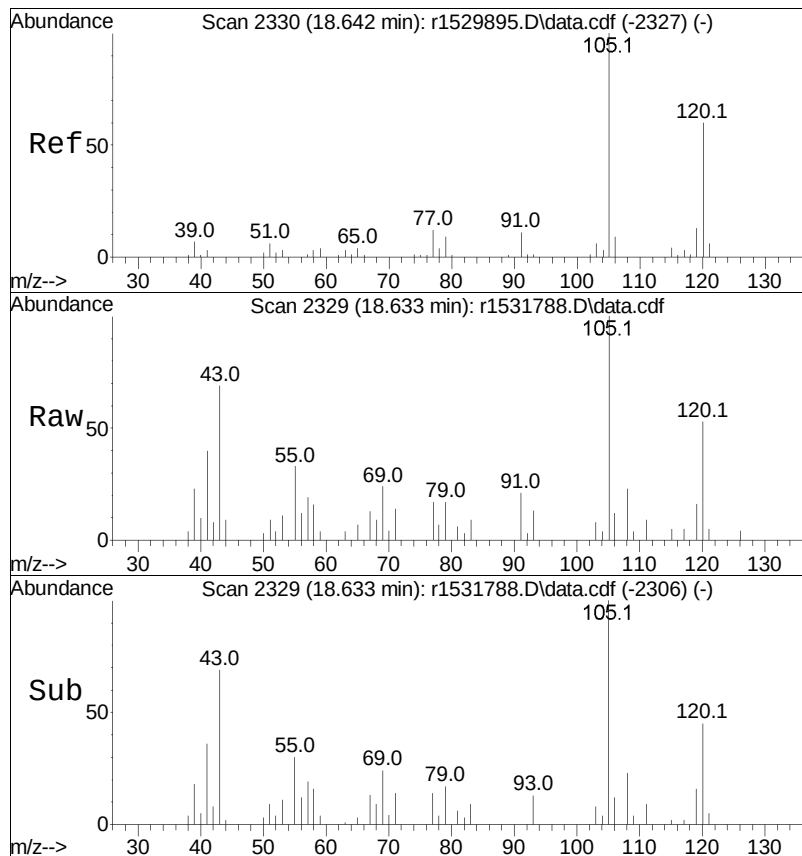




#87
 o-xylene
 Concen: 0.83 ppbV
 RT: 17.52 min Scan# 2196
 Delta R.T. -0.017 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

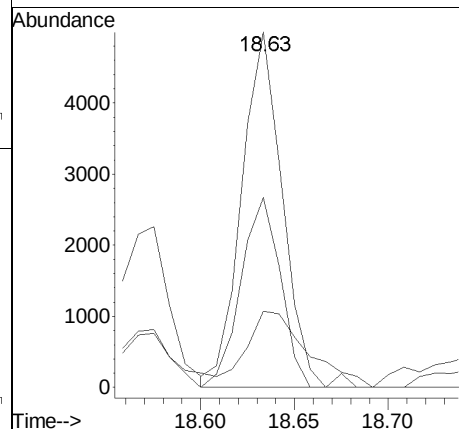
Tgt	Ion	Resp	Lower	Upper
91	100	58752		
106	47.9	35.8	53.8	

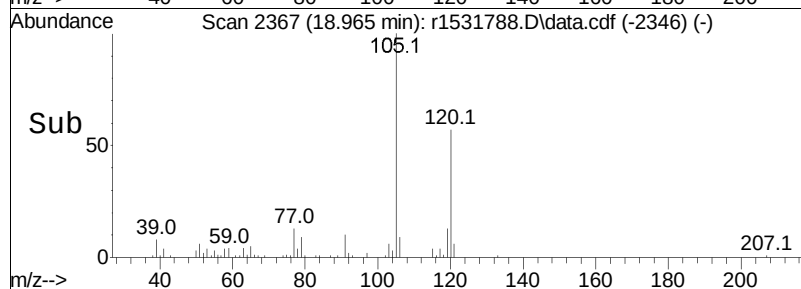
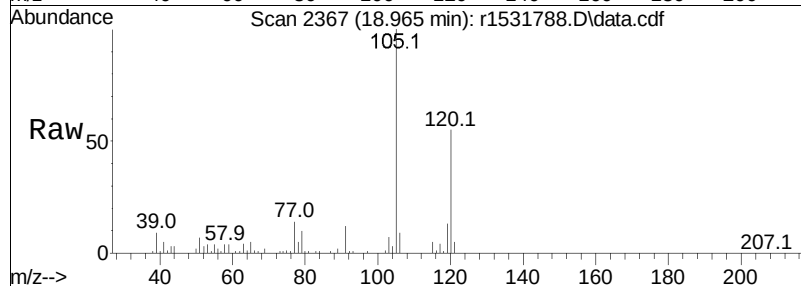
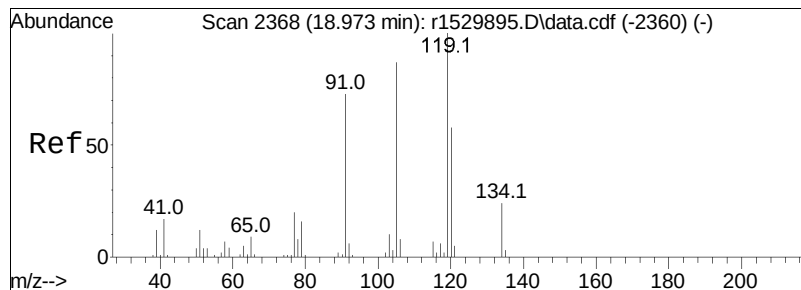




#97
 1,3,5-trimethylbenzene
 Concen: 0.10 ppbV
 RT: 18.63 min Scan# 2329
 Delta R.T. -0.008 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

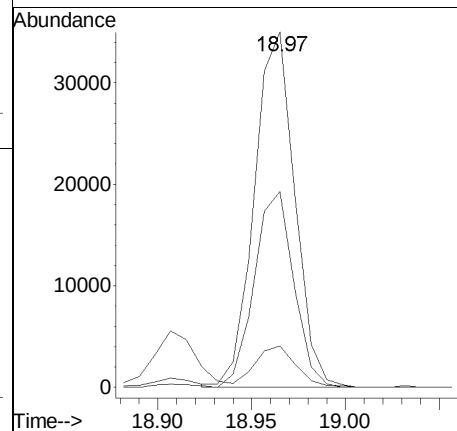
Tgt Ion:	105	Resp:	7589
Ion Ratio	Lower	Upper	
105	100		
120	53.4	47.7	71.5
91	21.4	8.5	12.7#





#99
 1,2,4-trimethylbenzene
 Concen: 0.72 ppbV
 RT: 18.97 min Scan# 2367
 Delta R.T. -0.008 min
 Lab File: r1531788.D
 Acq: 20 Mar 2022 9:06 PM

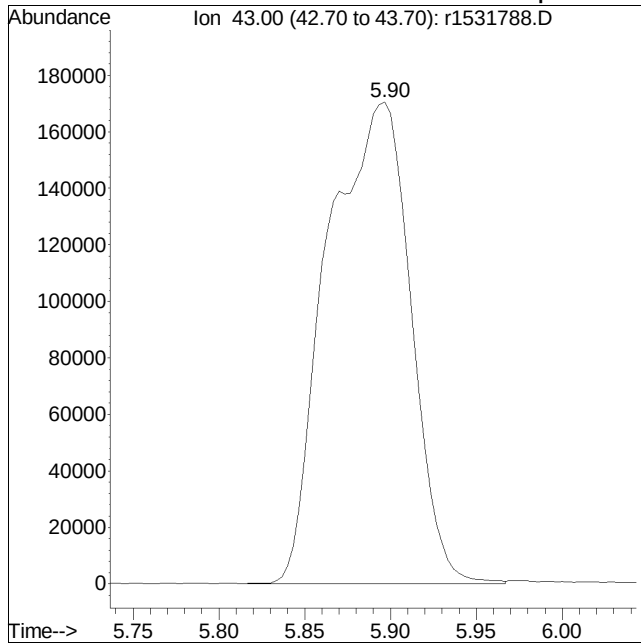
Tgt Ion	Ratio	Lower	Upper
105	100		
120	55.1	52.7	79.1
91	11.7	67.2	100.8#



Manual Integration/Negative Proof Report

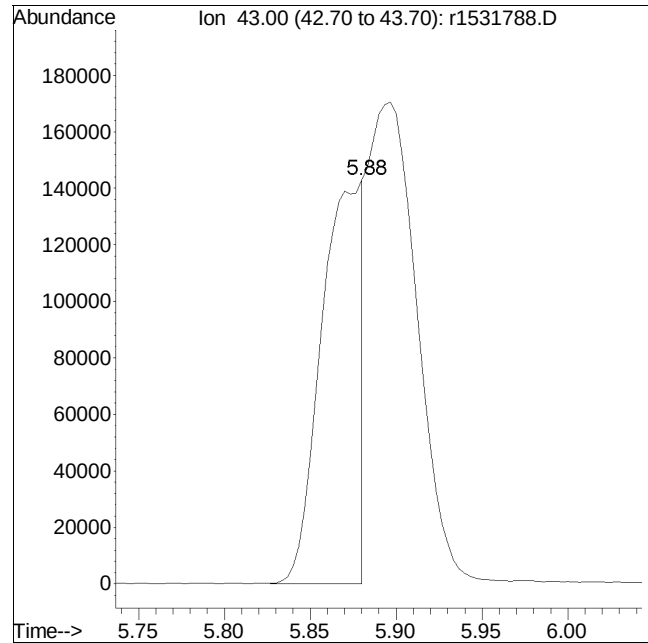
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_211222.M
Data File : r1531788.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:9: 6 Instrument :
Sample : L2213657-02,3,250,250 Quant Date : 3/21/2022 8:47 am

Compound #19: acetone



Original Peak Response = 574073

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

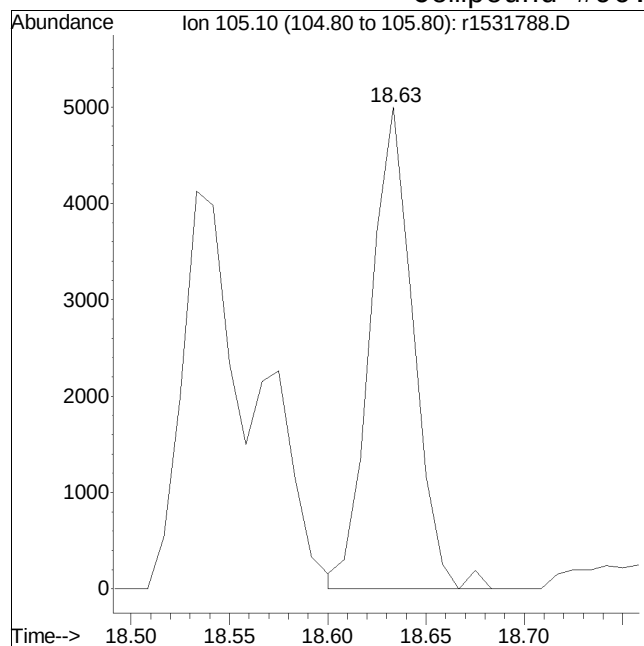


Manual Peak Response = 237879 M6

Manual Integration/Negative Proof Report

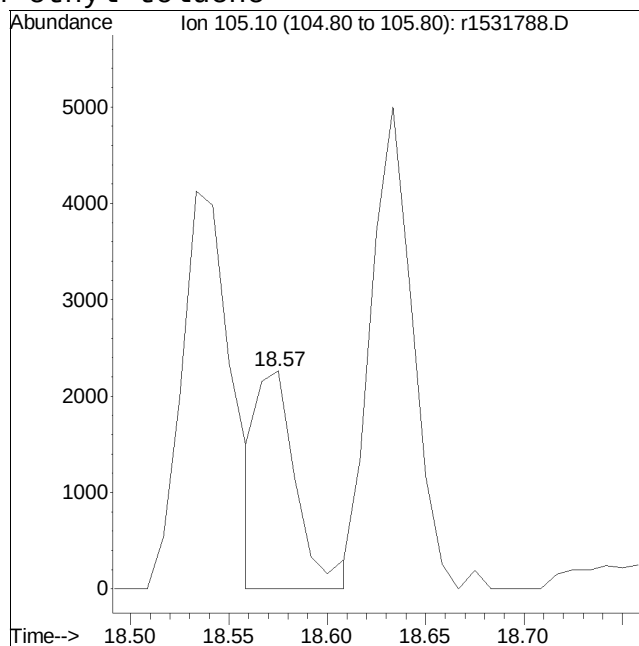
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_211222.M
Data File : r1531788.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:9: 6 Instrument :
Sample : L2213657-02,3,250,250 Quant Date : 3/21/2022 8:47 am

Compound #96: 4-ethyl toluene



Original Peak Response = 7589

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Manual Peak Response = 3184 M3

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531789.D
 Acq On : 20 Mar 2022 9:45 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-03,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:42:53 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.58	49	385217	10.000	ppbV	-0.03
Standard Area = 382239			Recovery =	100.78%		
43) 1,4-difluorobenzene	11.86	114	838965	10.000	ppbV	-0.03
Standard Area = 859136			Recovery =	97.65%		
67) chlorobenzene-D5	16.57	54	202451	10.000	ppbV	-0.02
Standard Area = 200634			Recovery =	100.91%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.96	85	14105	0.495	ppbV	99
6) chloromethane	4.14	50	8387	0.591	ppbV	95
7) Freon-114	4.27		0	N.D.		
10) 1,3-butadiene	4.56		0	N.D.		
13) bromomethane	4.89		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	5.28	31	3379223	305.929	ppbV	99
17) vinyl bromide	5.41		0	N.D.		
19) acetone	5.88	43	238253M6	10.825	ppbV	
21) trichlorofluoromethane	6.07	101	8561	0.313	ppbV	97
22) isopropyl alcohol	6.19	45	296929	12.484	ppbV	100
27) tertiary butyl alcohol	6.94	59	5703	0.185	ppbV #	75
28) methylene chloride	7.02	49	8856	0.491	ppbV	100
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	7.31		0	N.D.		
31) Freon 113	7.35	101	1924	0.070	ppbV #	92
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	8.47		0	N.D.		
36) 2-butanone	8.88	43	66356	1.689	ppbV	99
38) Ethyl Acetate	9.70	61	10057	1.412	ppbV	85
39) chloroform	9.74	83	4309	0.132	ppbV	94
40) Tetrahydrofuran	10.22	42	9494	0.389	ppbV	97
42) 1,2-dichloroethane	10.60	62	5933	0.253	ppbV #	92
44) hexane	9.66	57	5055	0.143	ppbV #	78
50) benzene	11.42	78	8973	0.152	ppbV	94
53) cyclohexane	11.74	56	7942	0.210	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531789.D
 Acq On : 20 Mar 2022 9:45 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-03,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:42:53 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
56) 1,2-dichloropropane	12.38	63	1405	0.064	ppbV		95
57) bromodichloromethane	0.00		0	N.D.			
58) 1,4-dioxane	0.00		0	N.D.			
60) 2,2,4-trimethylpentane	12.71		0	N.D.			
62) heptane	13.02	43	2903	0.075	ppbV		99
63) cis-1,3-dichloropropene	0.00		0	N.D.			
64) 4-methyl-2-pentanone	13.73		0	N.D.			
65) trans-1,3-dichloropropene	0.00		0	N.D.			
66) 1,1,2-trichloroethane	0.00		0	N.D.			
68) toluene	14.81	91	410047	5.439	ppbV		99
72) 2-hexanone	15.08		0	N.D.			
74) dibromochloromethane	0.00		0	N.D.			
75) 1,2-dibromoethane	0.00		0	N.D.			
80) chlorobenzene	16.62		0	N.D.			
81) ethylbenzene	16.96	91	48459	0.543	ppbV		96
83) m+p-xylene	17.11	91	101778	1.403	ppbV		97
84) bromoform	0.00		0	N.D.			
85) styrene	17.43	104	102171	1.987	ppbV		99
86) 1,1,2,2-tetrachloroethane	0.00		0	N.D.	d		
87) o-xylene	17.52	91	60155	0.835	ppbV		96
96) 4-ethyl toluene	18.57		0	N.D.			
97) 1,3,5-trimethylbenzene	18.63	105	7335	0.095	ppbV #		94
99) 1,2,4-trimethylbenzene	18.97	105	55198	0.741	ppbV #		48
101) Benzyl Chloride	0.00		0	N.D.	d		
102) 1,3-dichlorobenzene	19.15		0	N.D.			
103) 1,4-dichlorobenzene	19.15		0	N.D.			
107) 1,2-dichlorobenzene	19.42		0	N.D.			
115) 1,2,4-trichlorobenzene	0.00		0	N.D.			
119) hexachlorobutadiene	0.00		0	N.D.			

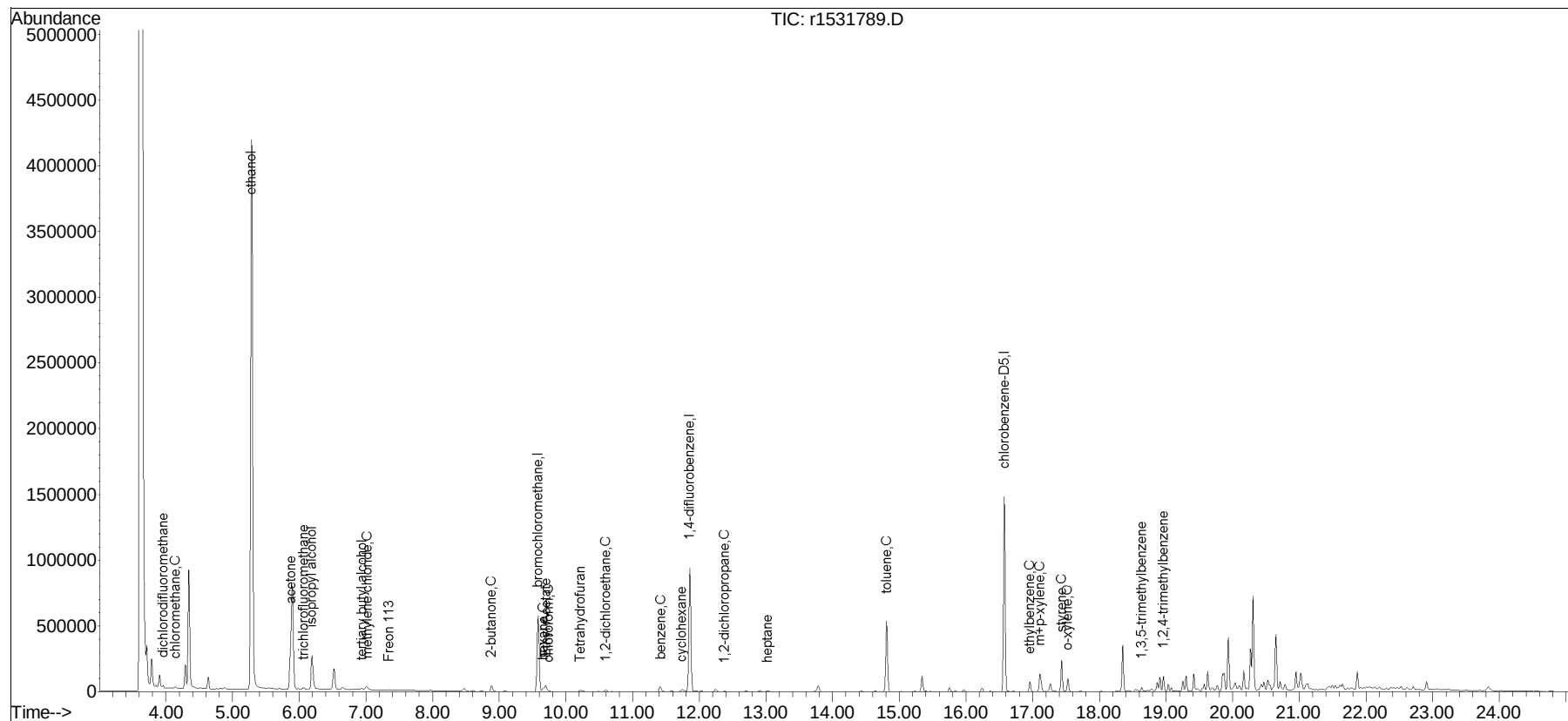
(#) = qualifier out of range (m) = manual integration (+) = signals summed

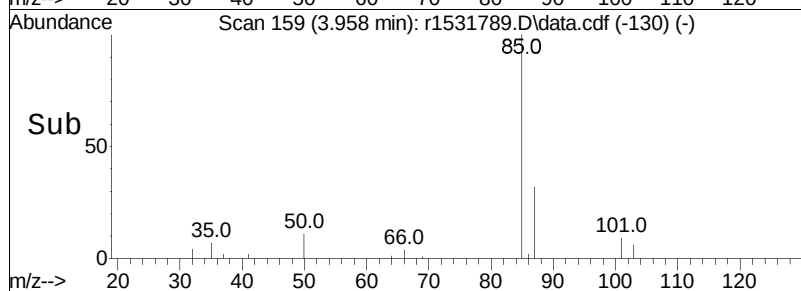
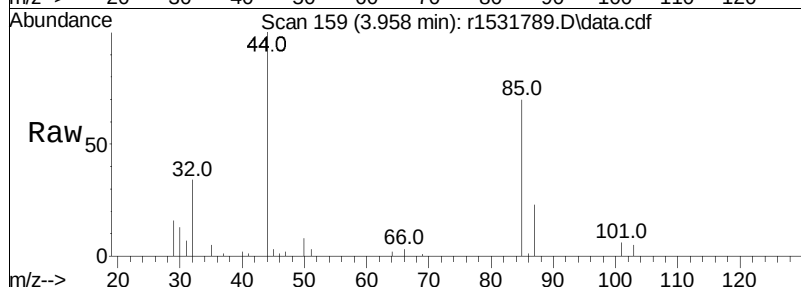
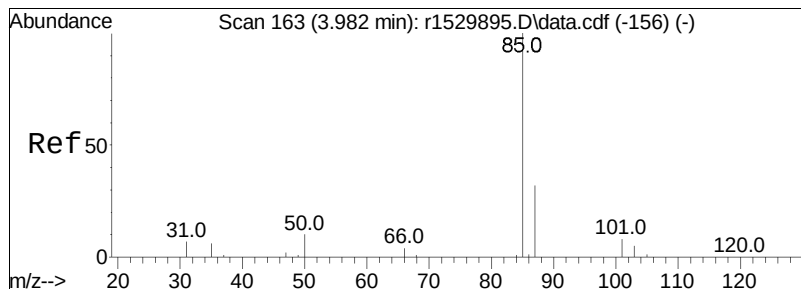
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531789.D
 Acq On : 20 Mar 2022 9:45 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-03,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:42:53 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

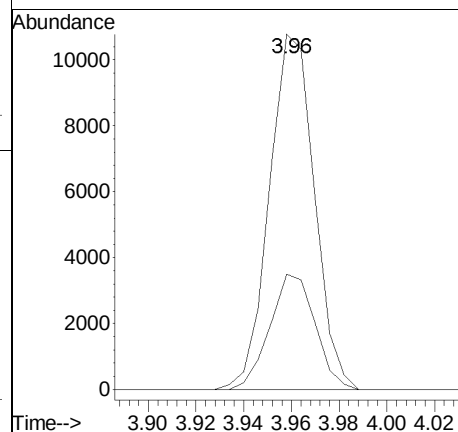
Sub List : T015-NY-7-SIM - .\Airlab15\2022\03\0320T\r1531778.D

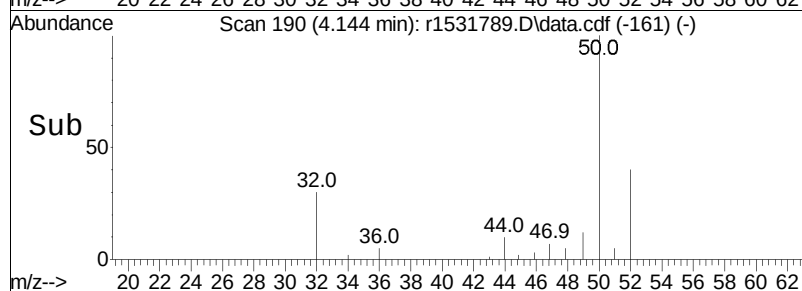
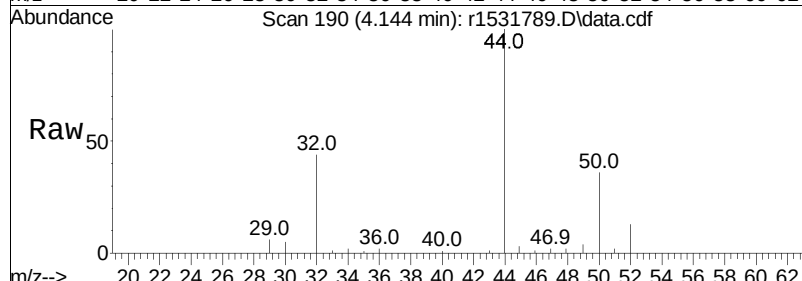
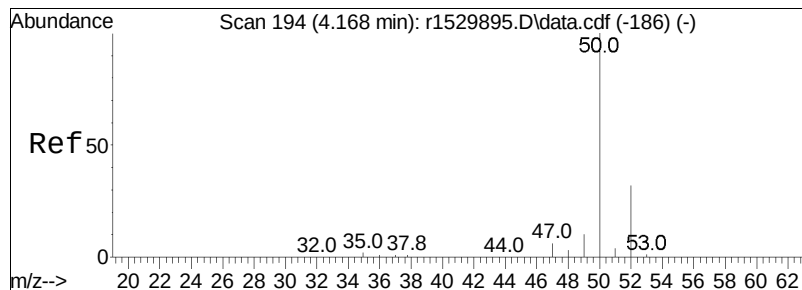




#5
 dichlorodifluoromethane
 Concen: 0.50 ppbV
 RT: 3.96 min Scan# 159
 Delta R.T. -0.024 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

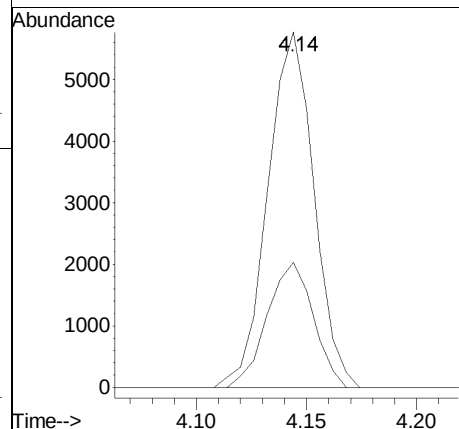
Tgt Ion	85	87	Ratio	100	Resp	Lower	Upper
85	100				14105		
87	32.4				25.6		38.4

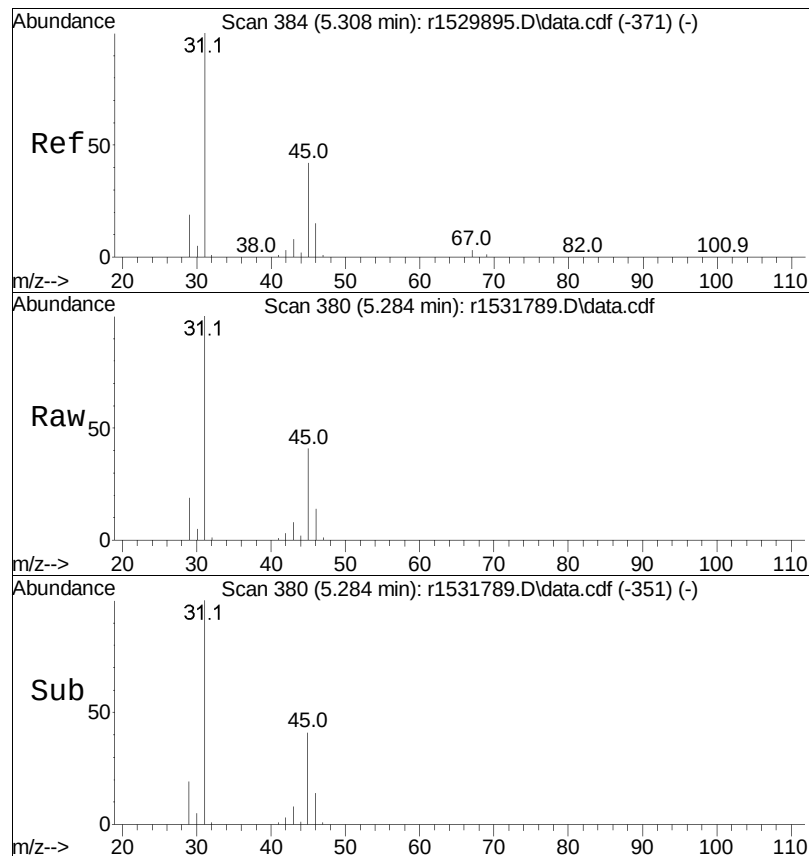




#6
 chloromethane
 Concen: 0.59 ppbV
 RT: 4.14 min Scan# 190
 Delta R.T. -0.024 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

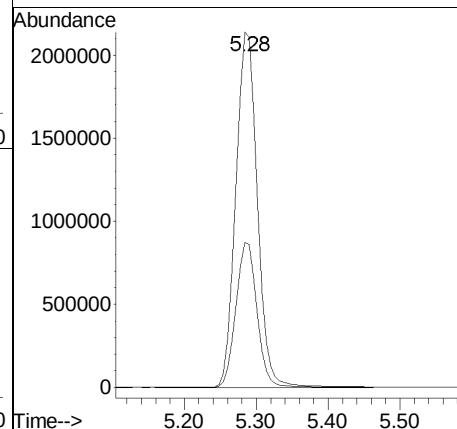
Tgt	Ion	Ratio	Lower	Upper
50	100			
52	35.2	25.9	38.9	

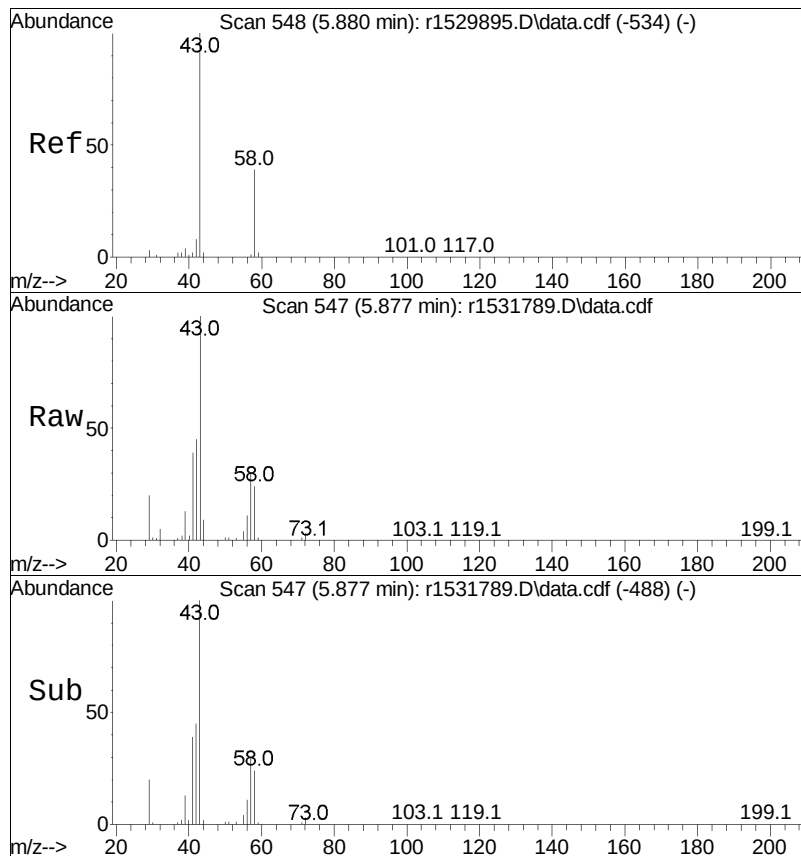




#15
ethanol
Concen: 305.93 ppbV
RT: 5.28 min Scan# 380
Delta R.T. -0.024 min
Lab File: r1531789.D
Acq: 20 Mar 2022 9:45 PM

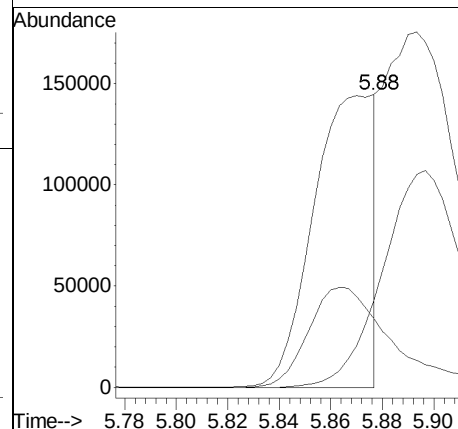
Tgt	Ion	Resp	Lower	Upper
31	100	3379223		
45	40.9	33.4	50.2	

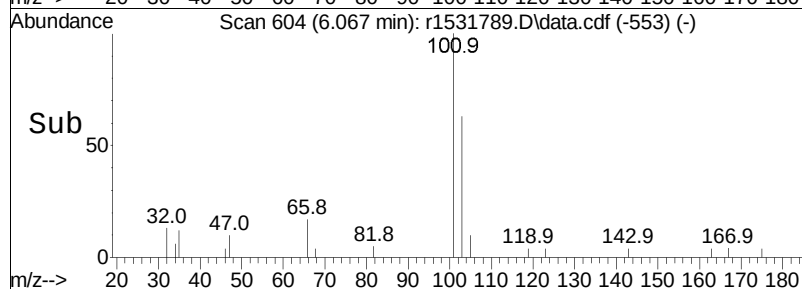
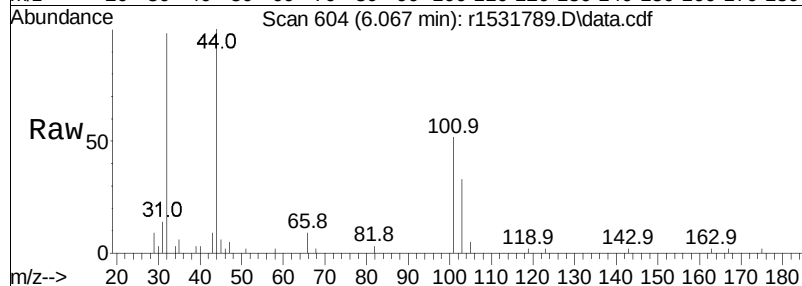
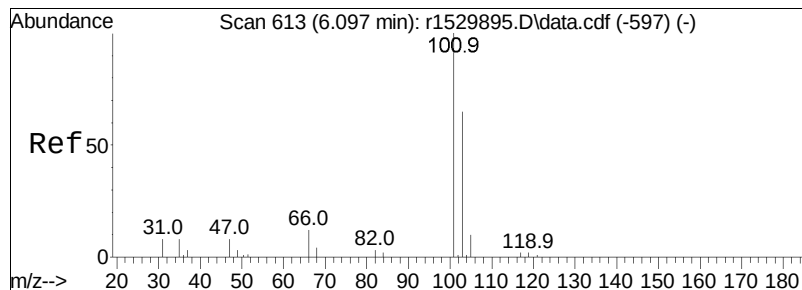




#19
 acetone
 Concen: 10.83 ppbV m
 RT: 5.88 min Scan# 547
 Delta R.T. -0.003 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

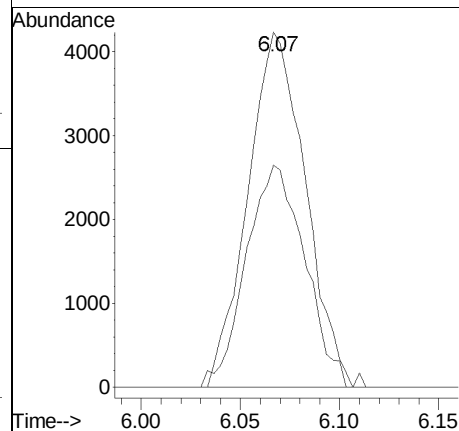
Tgt Ion:	43	Resp:	238253
Ion Ratio	Lower	Upper	
43	100		
58	23.5	31.6	47.4#
57	29.7	0.8	1.2#

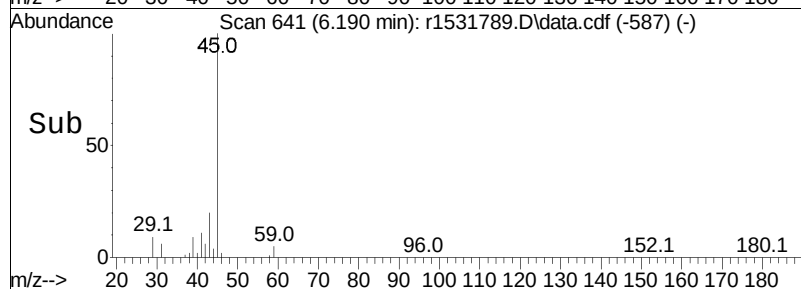
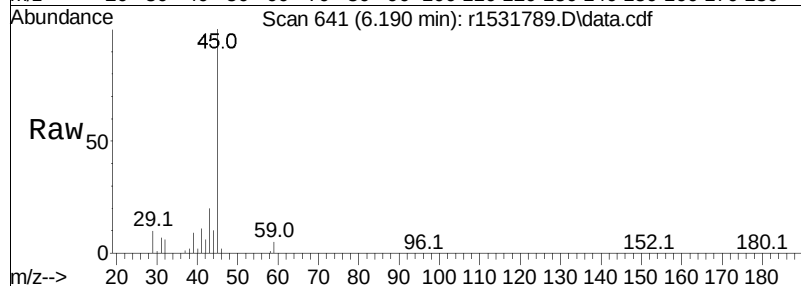
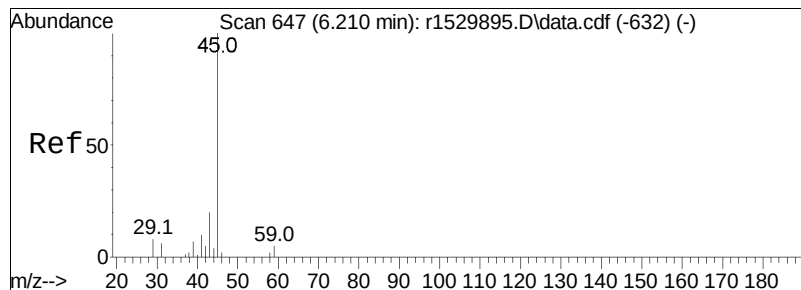




#21
trichlorofluoromethane
Concen: 0.31 ppbV
RT: 6.07 min Scan# 604
Delta R.T. -0.030 min
Lab File: r1531789.D
Acq: 20 Mar 2022 9:45 PM

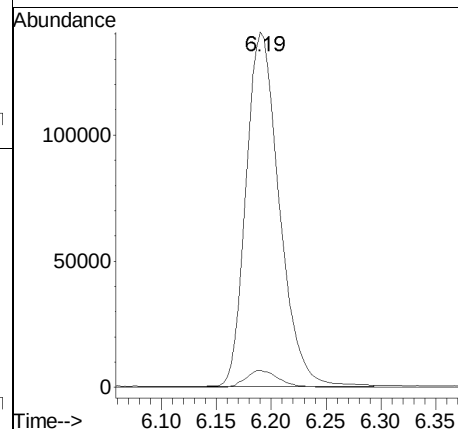
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	62.6	52.0	78.0	

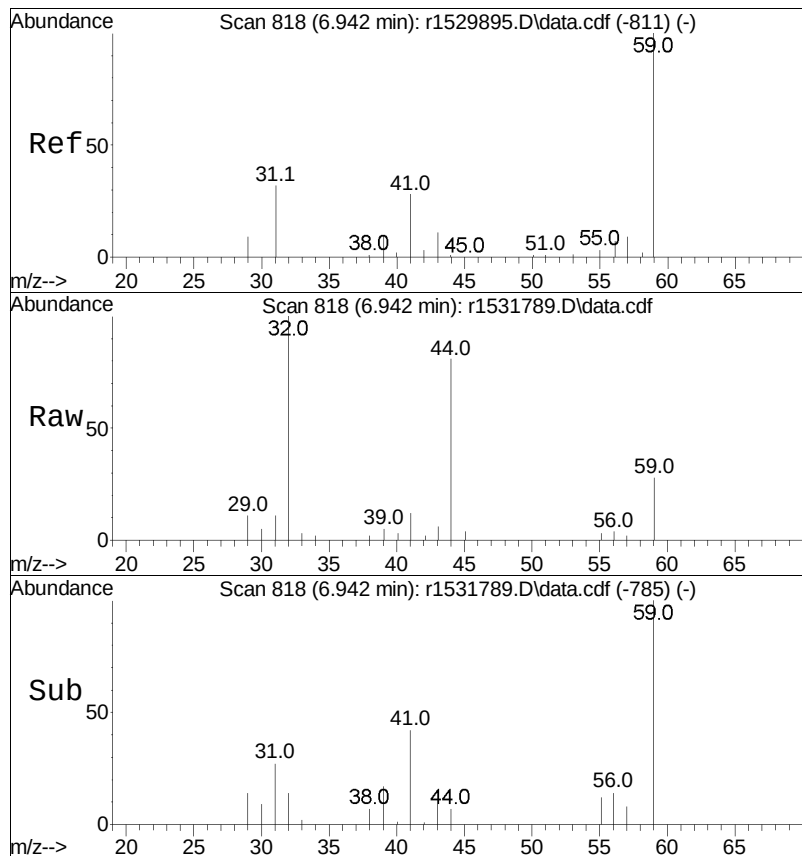




#22
isopropyl alcohol
Concen: 12.48 ppbV
RT: 6.19 min Scan# 641
Delta R.T. -0.020 min
Lab File: r1531789.D
Acq: 20 Mar 2022 9:45 PM

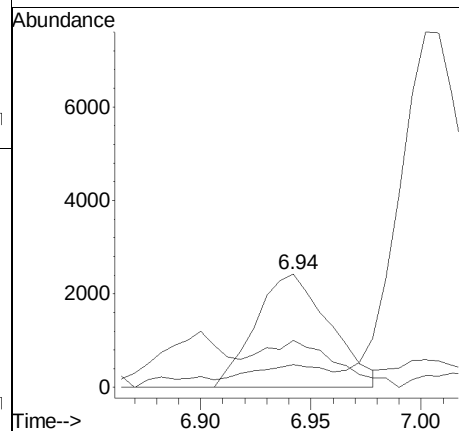
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.8	3.8	5.8

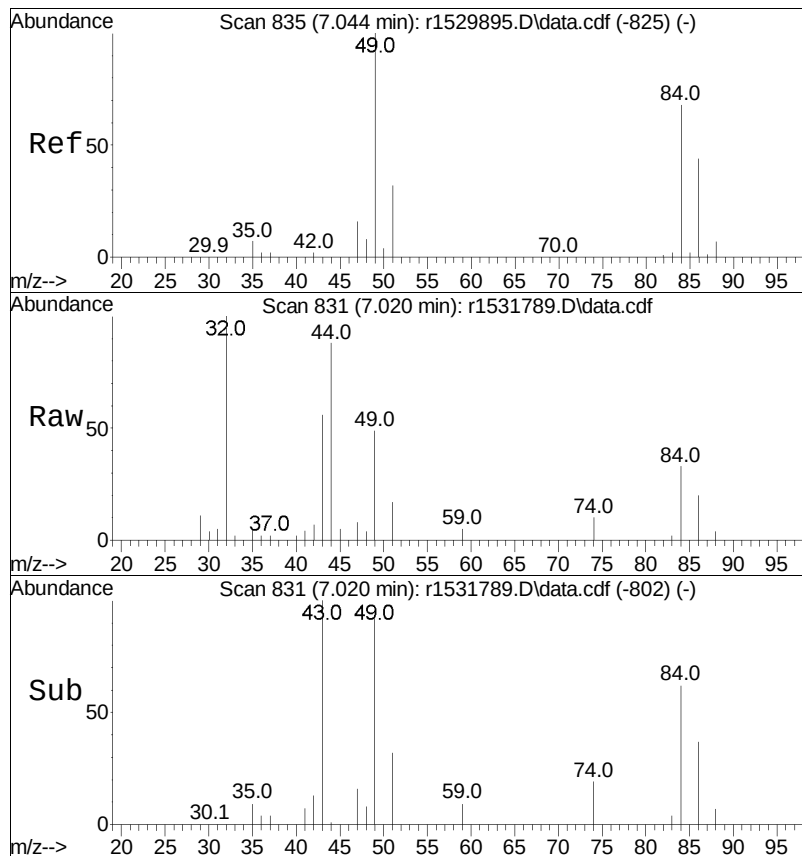




#27
 tertiary butyl alcohol
 Concen: 0.19 ppbV
 RT: 6.94 min Scan# 818
 Delta R.T. 0.000 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

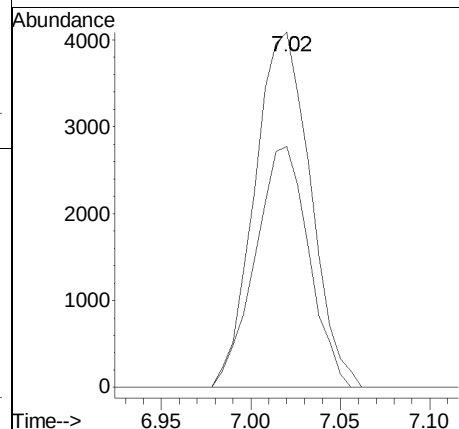
Tgt Ion:	59	Resp:	5703
Ion Ratio	Lower	Upper	
59	100		
41	41.5	22.2	33.4#
43	20.1	8.9	13.3#

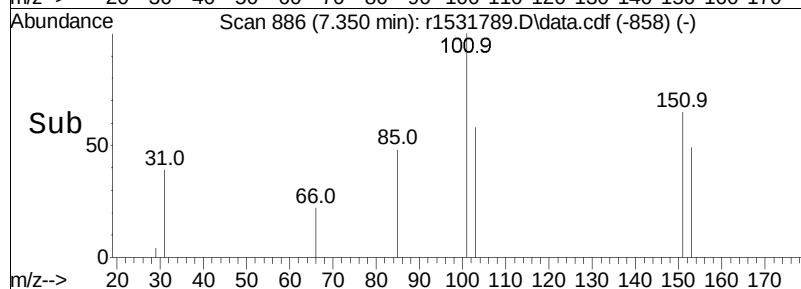
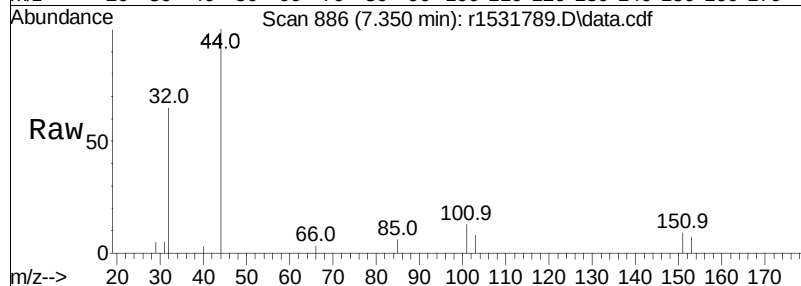
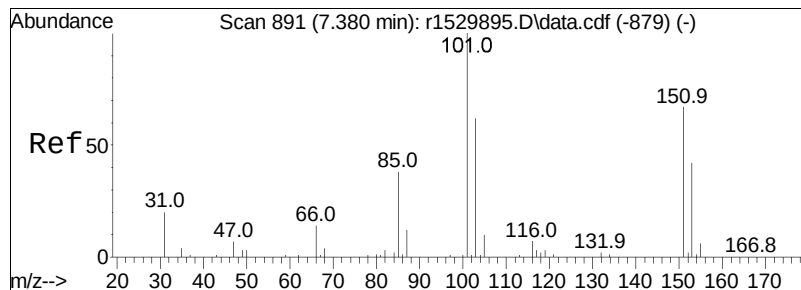




#28
 methylene chloride
 Concen: 0.49 ppbV
 RT: 7.02 min Scan# 831
 Delta R.T. -0.024 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

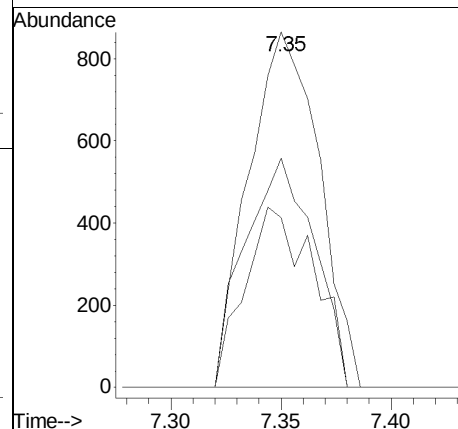
Tgt Ion:	49	84	Ratio	100	67.8	Resp:	8856	Lower	Upper
								54.5	81.7

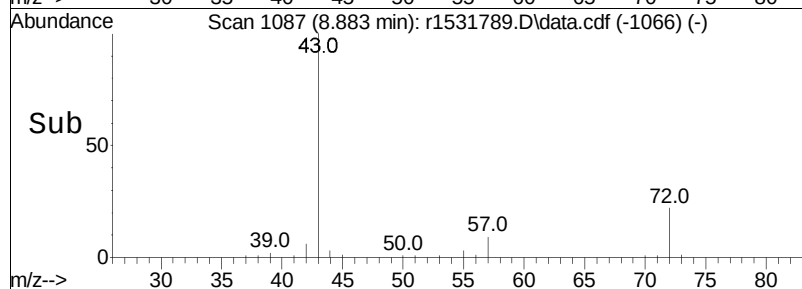
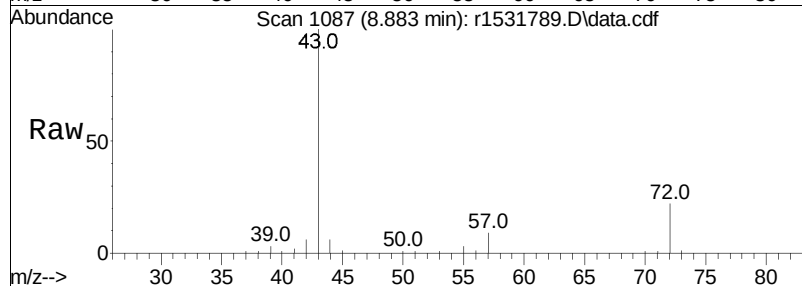
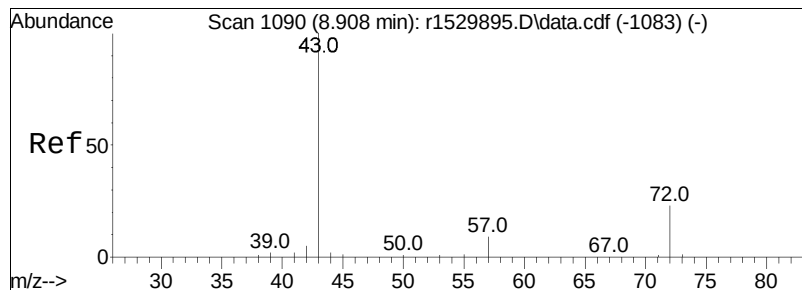




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 7.35 min Scan# 886
 Delta R.T. -0.030 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

Tgt Ion	Ratio	Lower	Upper
101	100		
85	47.7	30.6	46.0#
151	64.5	53.5	80.3





#36

2-butanone

Concen: 1.69 ppbV

RT: 8.88 min Scan# 1087

Delta R.T. -0.025 min

Lab File: r1531789.D

Acq: 20 Mar 2022 9:45 PM

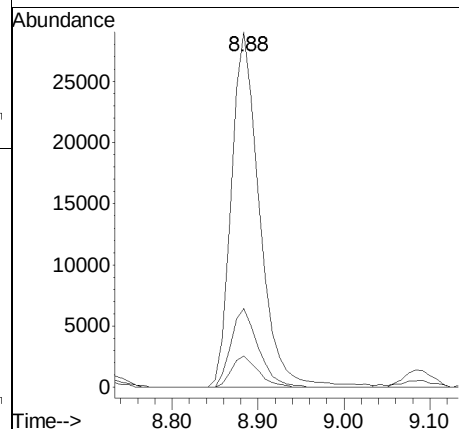
Tgt Ion: 43 Resp: 66356

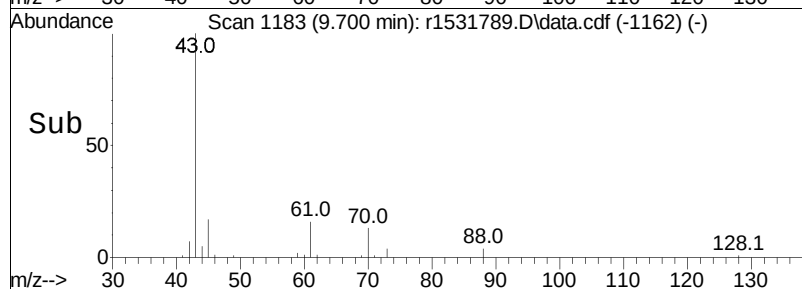
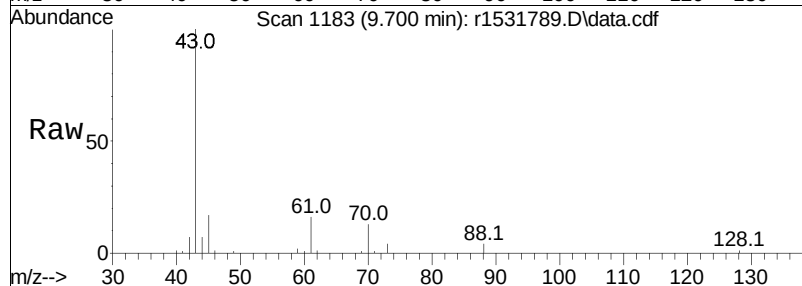
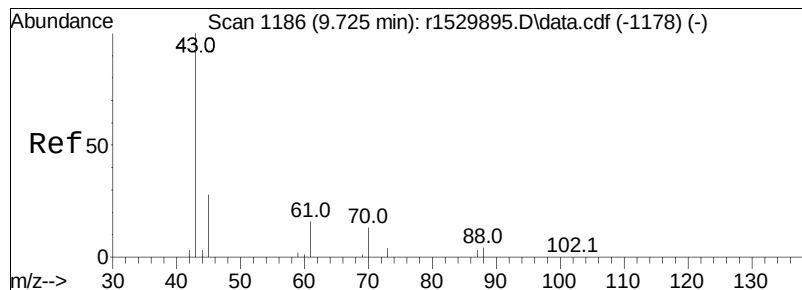
Ion Ratio Lower Upper

43 100

72 22.2 18.0 27.0

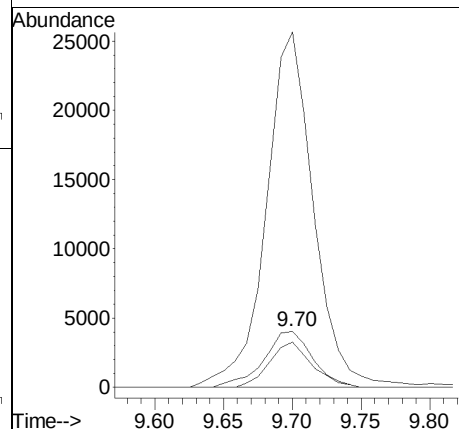
57 8.8 7.0 10.4

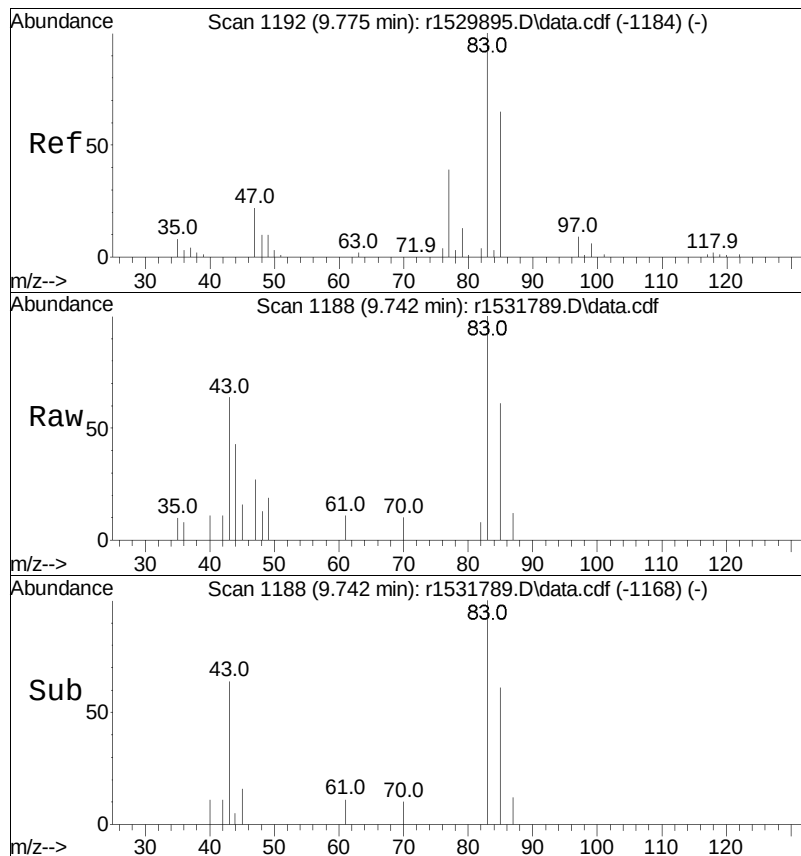




#38
Ethyl Acetate
Concen: 1.41 ppbV
RT: 9.70 min Scan# 1183
Delta R.T. -0.025 min
Lab File: r1531789.D
Acq: 20 Mar 2022 9:45 PM

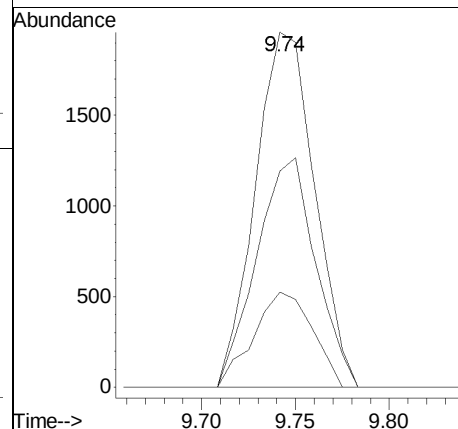
Tgt Ion:	61	Resp:	10057
Ion Ratio	Lower	Upper	
61	100		
70	80.9	62.7	94.1
43	634.5	551.8	827.8

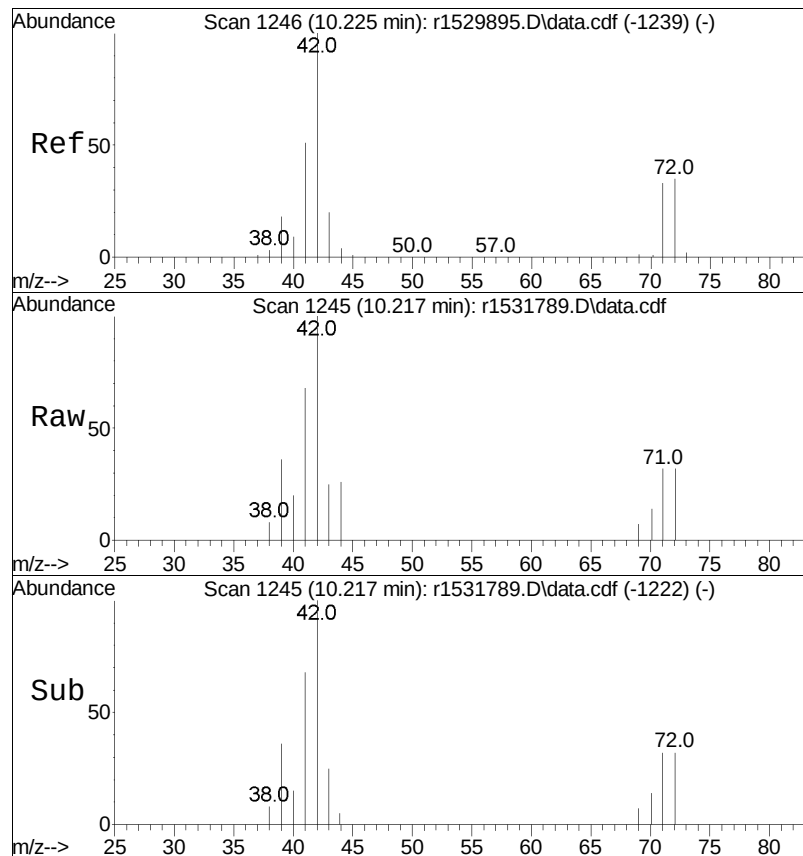




#39
chloroform
Concen: 0.13 ppbV
RT: 9.74 min Scan# 1188
Delta R.T. -0.033 min
Lab File: r1531789.D
Acq: 20 Mar 2022 9:45 PM

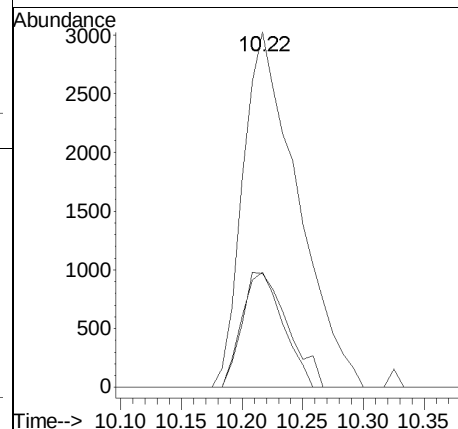
Tgt	Ion: 83	Resp:	4309
Ion	Ratio	Lower	Upper
83	100		
85	60.9	51.8	77.8
47	26.8	17.9	26.9

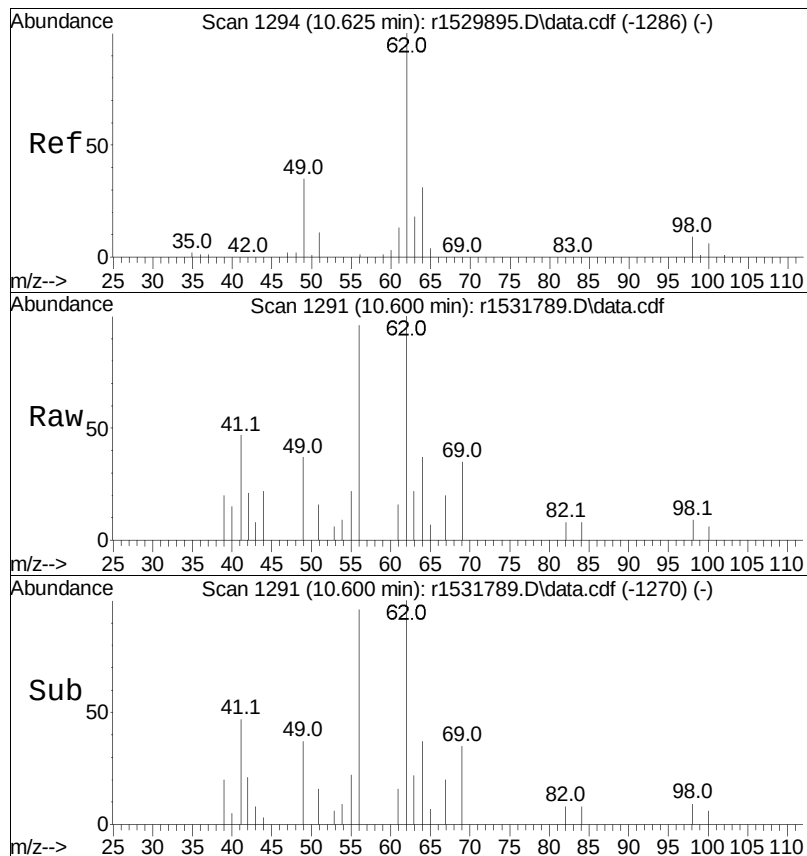




#40
 Tetrahydrofuran
 Concen: 0.39 ppbV
 RT: 10.22 min Scan# 1245
 Delta R.T. -0.008 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

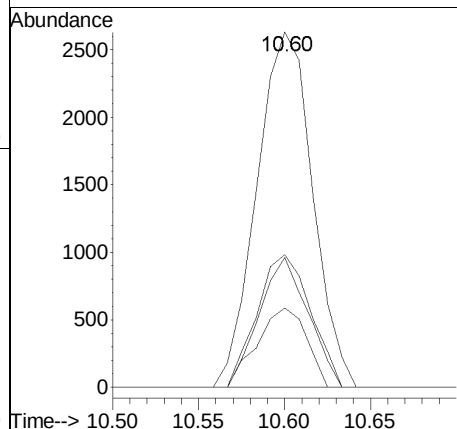
Tgt Ion	Ratio	Lower	Upper
42	100		
71	32.5	26.8	40.2
72	32.0	27.7	41.5

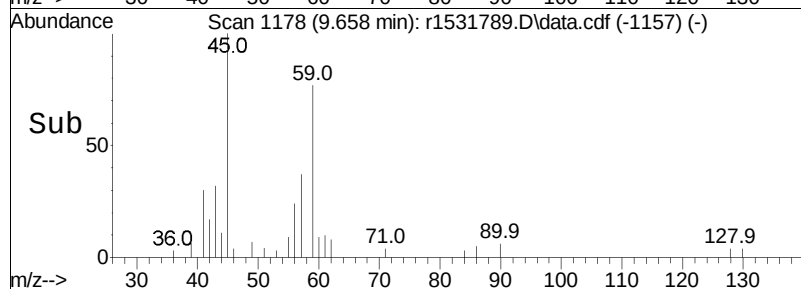
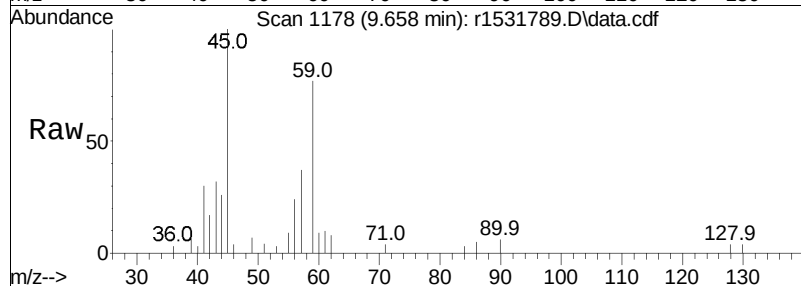
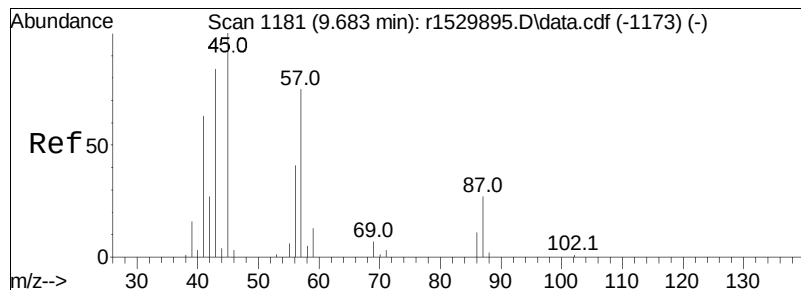




#42
 1,2-dichloroethane
 Concen: 0.25 ppbV
 RT: 10.60 min Scan# 1291
 Delta R.T. -0.025 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

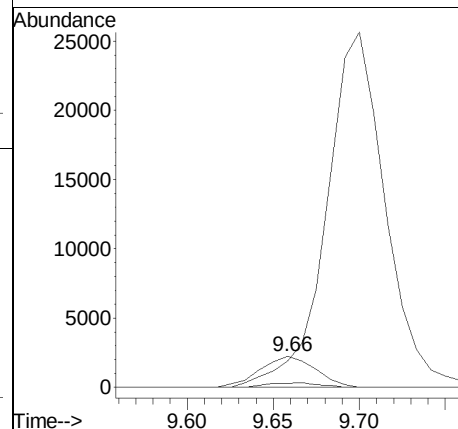
Tgt Ion:	62	Resp:	5933
Ion Ratio	Lower	Upper	
62	100		
64	36.6	25.0	37.4
49	37.3	27.8	41.8
63	22.4	14.4	21.6#

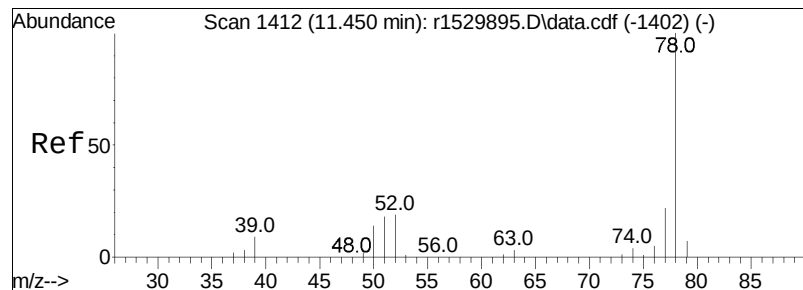




#44
hexane
Concen: 0.14 ppbV
RT: 9.66 min Scan# 1178
Delta R.T. -0.025 min
Lab File: r1531789.D
Acq: 20 Mar 2022 9:45 PM

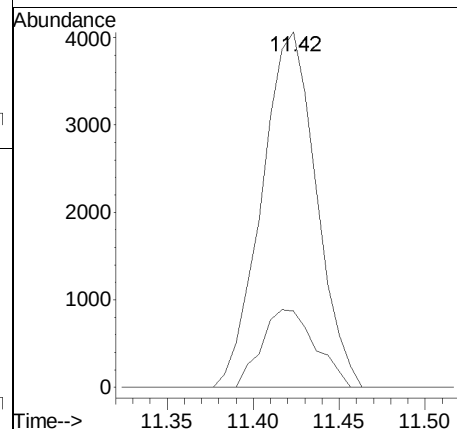
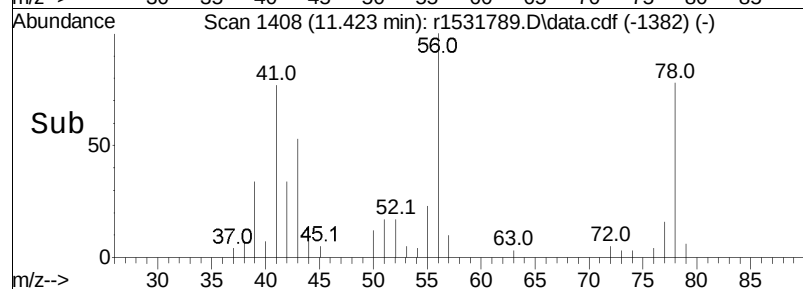
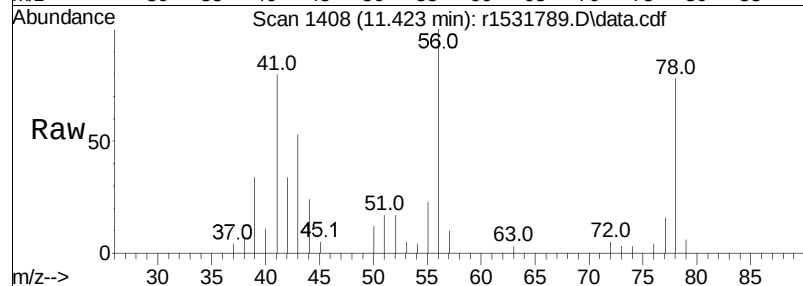
Tgt Ion	Ratio	Lower	Upper
57	100		
43	84.9	88.8	133.2#
86	13.0	11.4	17.0

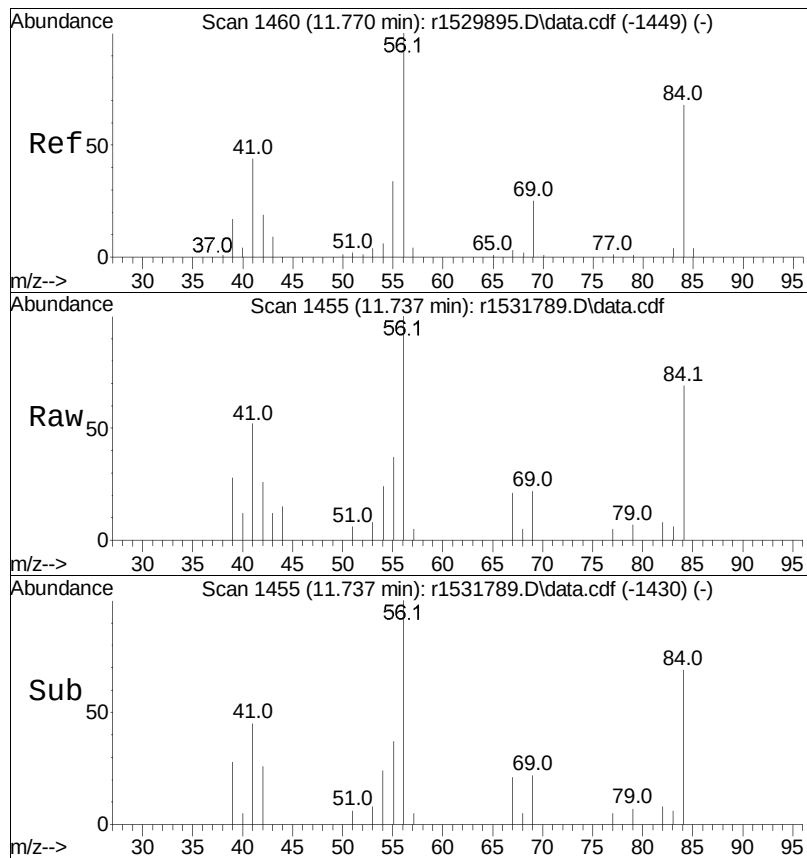




#50
benzene
Concen: 0.15 ppbV
RT: 11.42 min Scan# 1408
Delta R.T. -0.027 min
Lab File: r1531789.D
Acq: 20 Mar 2022 9:45 PM

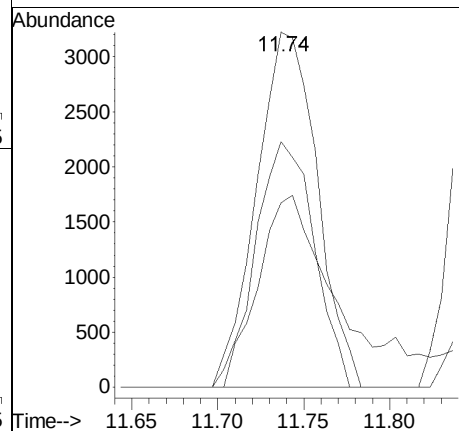
Tgt Ion	Ratio	Lower	Upper
78	100		
52	21.5	15.2	22.8

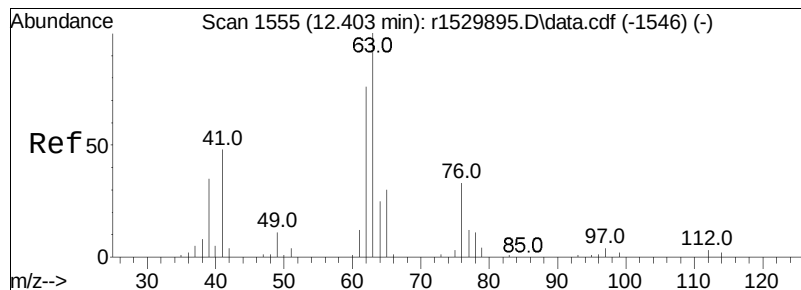




#53
cyclohexane
Concen: 0.21 ppbV
RT: 11.74 min Scan# 1455
Delta R.T. -0.033 min
Lab File: r1531789.D
Acq: 20 Mar 2022 9:45 PM

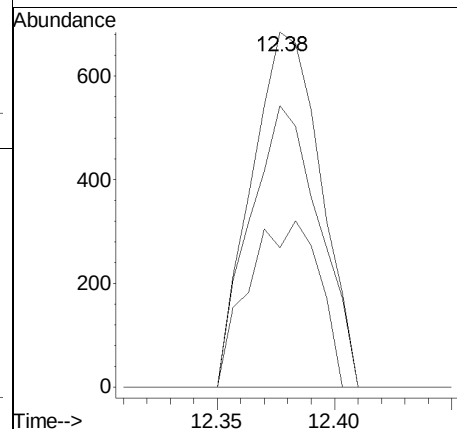
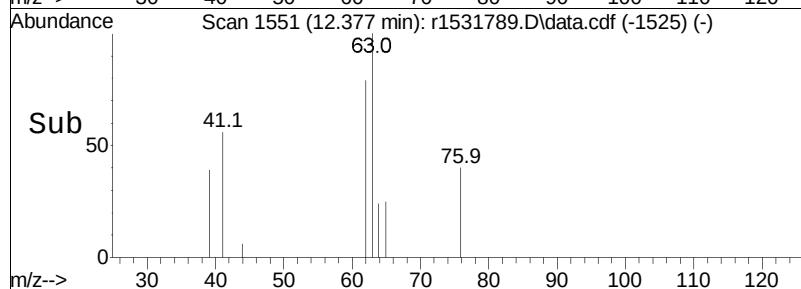
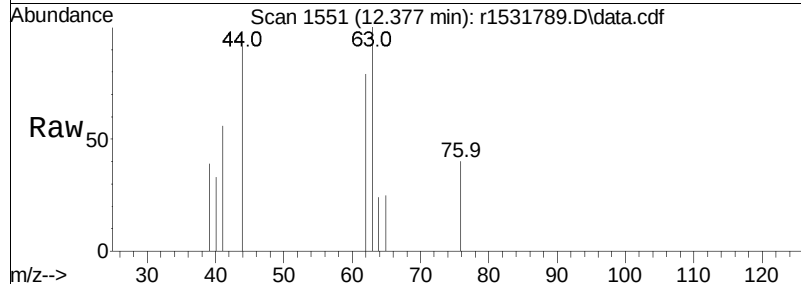
Tgt Ion	Ratio	Lower	Upper
56	100		
84	69.2	54.8	82.2
41	51.9	35.5	53.3

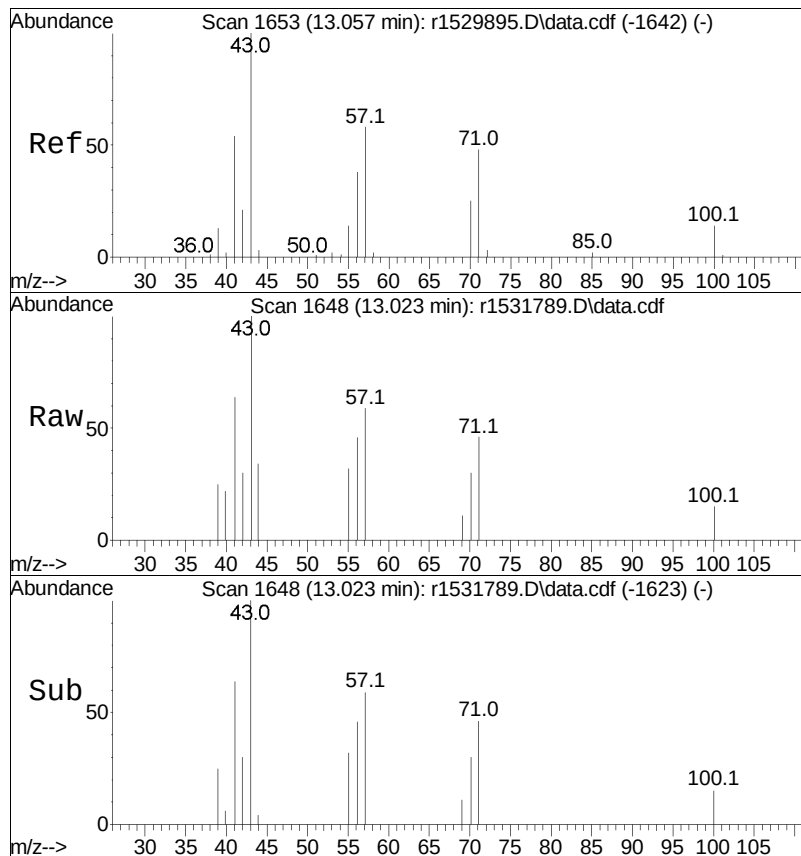




#56
 1,2-dichloropropane
 Concen: 0.06 ppbV
 RT: 12.38 min Scan# 1551
 Delta R.T. -0.027 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

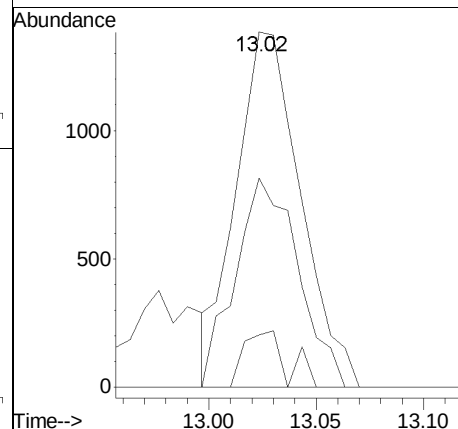
Tgt	Ion	Ratio	Lower	Upper
63	100			
62	79.3	60.6	91.0	
39	39.3	27.8	41.6	

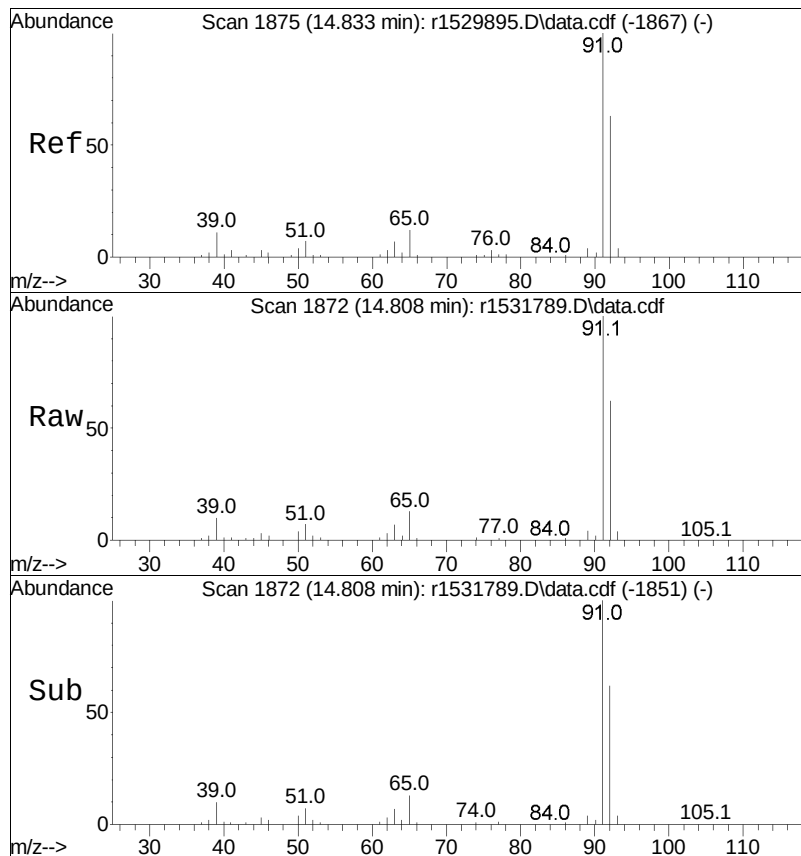




#62
 heptane
 Concen: 0.07 ppbV
 RT: 13.02 min Scan# 1648
 Delta R.T. -0.033 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

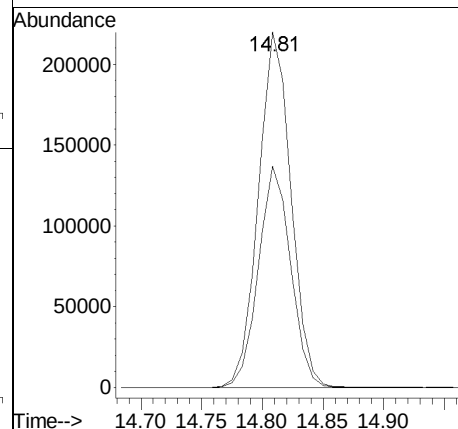
Tgt Ion: 43	Resp: 2903
Ion Ratio	Lower Upper
43 100	
57 58.9	46.5 69.7
100 14.7	11.6 17.4

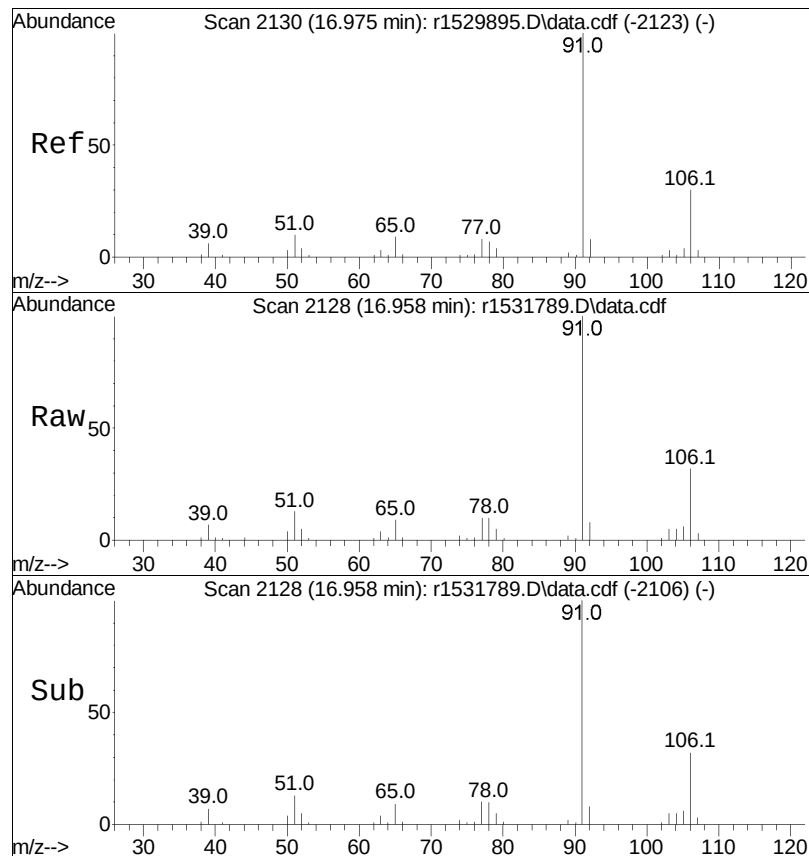




#68
 toluene
 Concen: 5.44 ppbV
 RT: 14.81 min Scan# 1872
 Delta R.T. -0.025 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

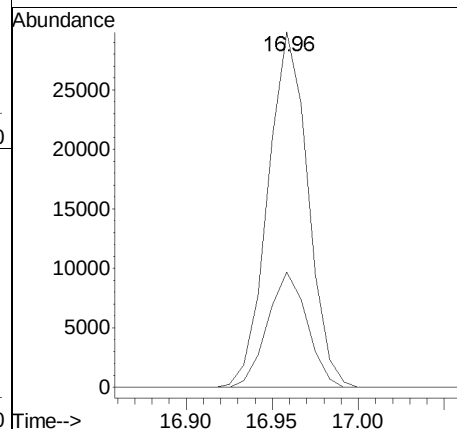
Tgt	Ion	Ratio	Lower	Upper
91	100			
92	62.2	50.3	75.5	

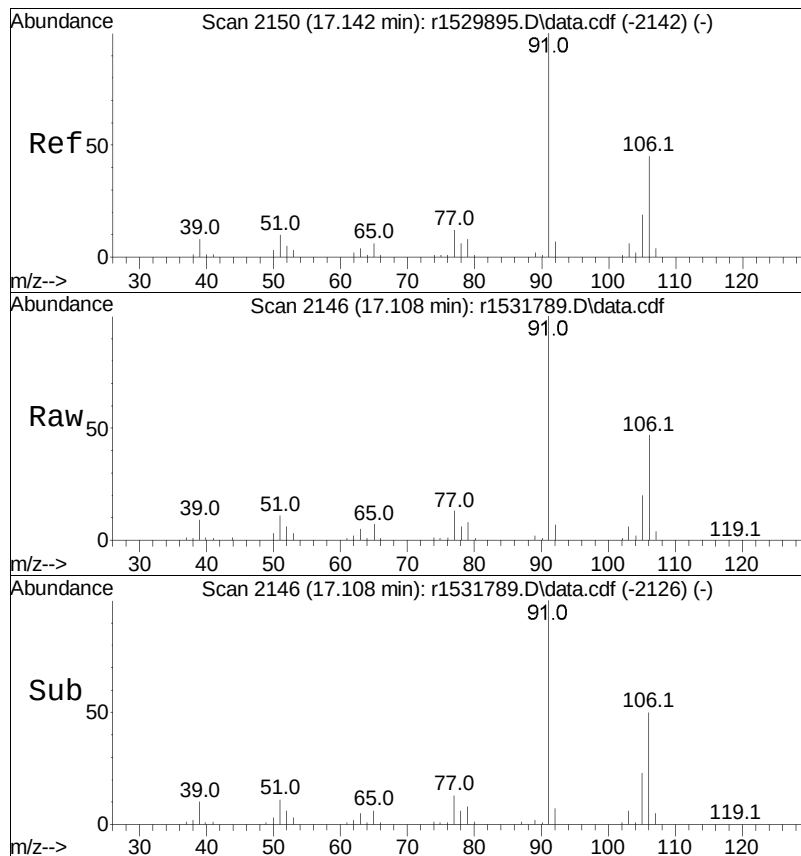




#81
ethylbenzene
Concen: 0.54 ppbV
RT: 16.96 min Scan# 2128
Delta R.T. -0.017 min
Lab File: r1531789.D
Acq: 20 Mar 2022 9:45 PM

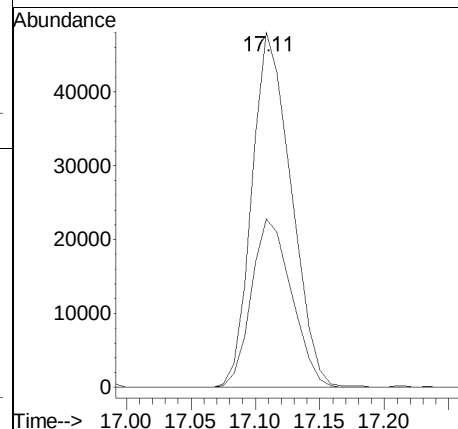
Tgt	Ion	Resp	Lower	Upper
91	100	48459		
106	32.5	24.1	36.1	

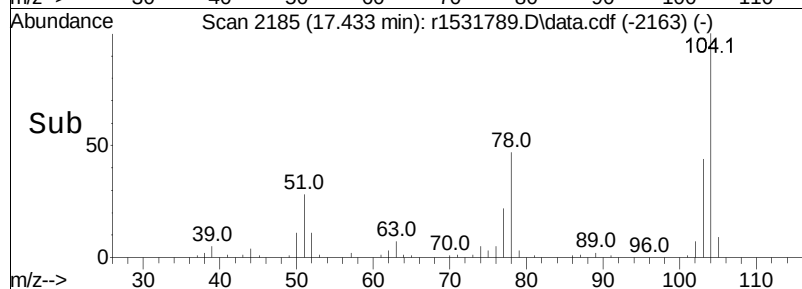
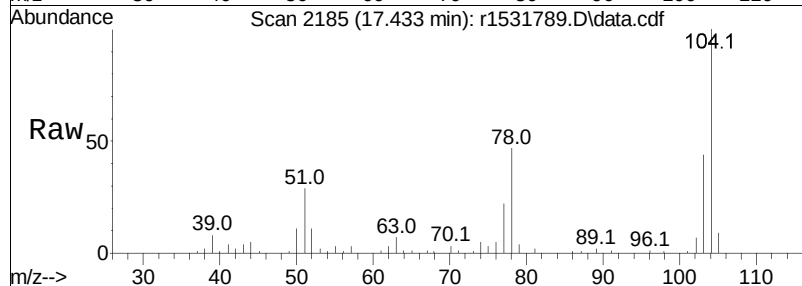
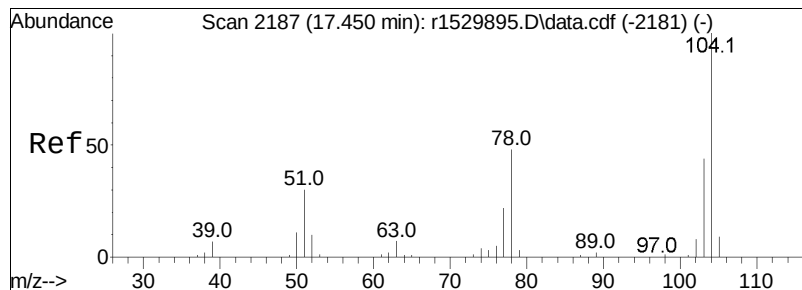




#83
 m+p-xylene
 Concen: 1.40 ppbV
 RT: 17.11 min Scan# 2146
 Delta R.T. -0.033 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

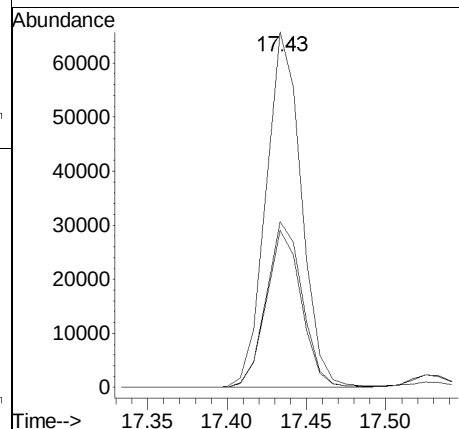
Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.4	36.2	54.2

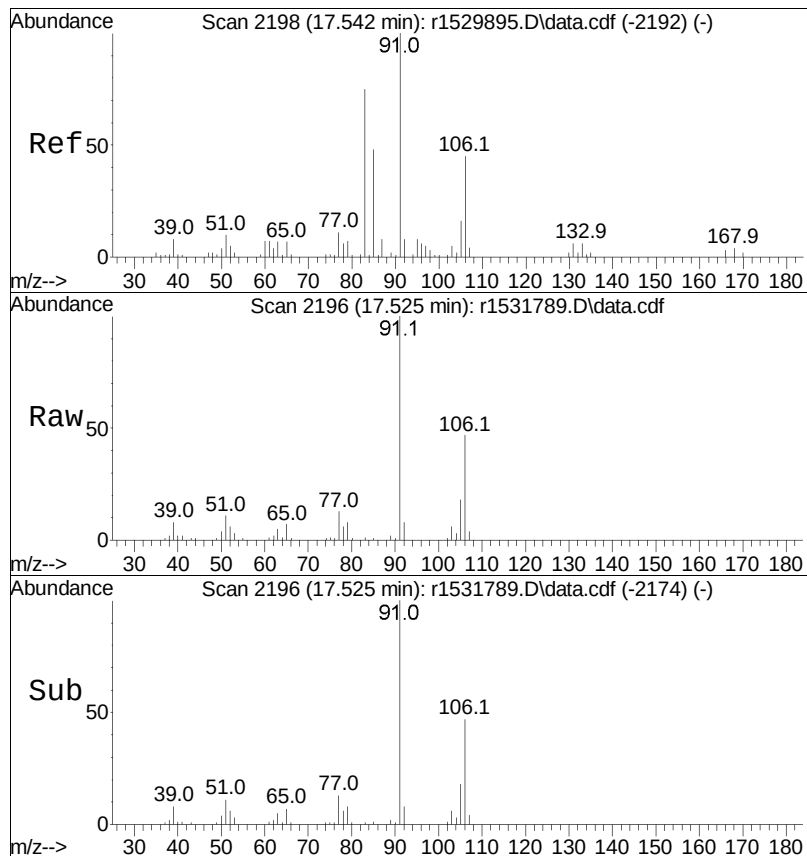




#85
styrene
Concen: 1.99 ppbV
RT: 17.43 min Scan# 2185
Delta R.T. -0.017 min
Lab File: r1531789.D
Acq: 20 Mar 2022 9:45 PM

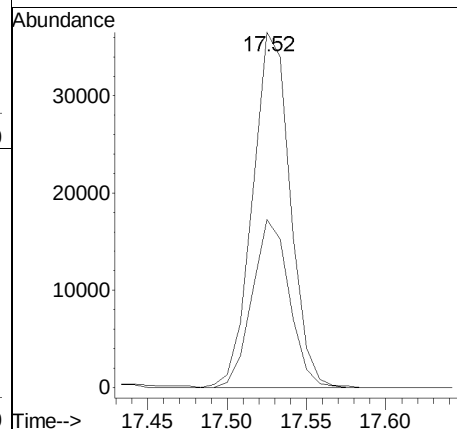
Tgt Ion	Ratio	Lower	Upper
104	100		
103	44.2	35.0	52.6
78	46.7	38.3	57.5

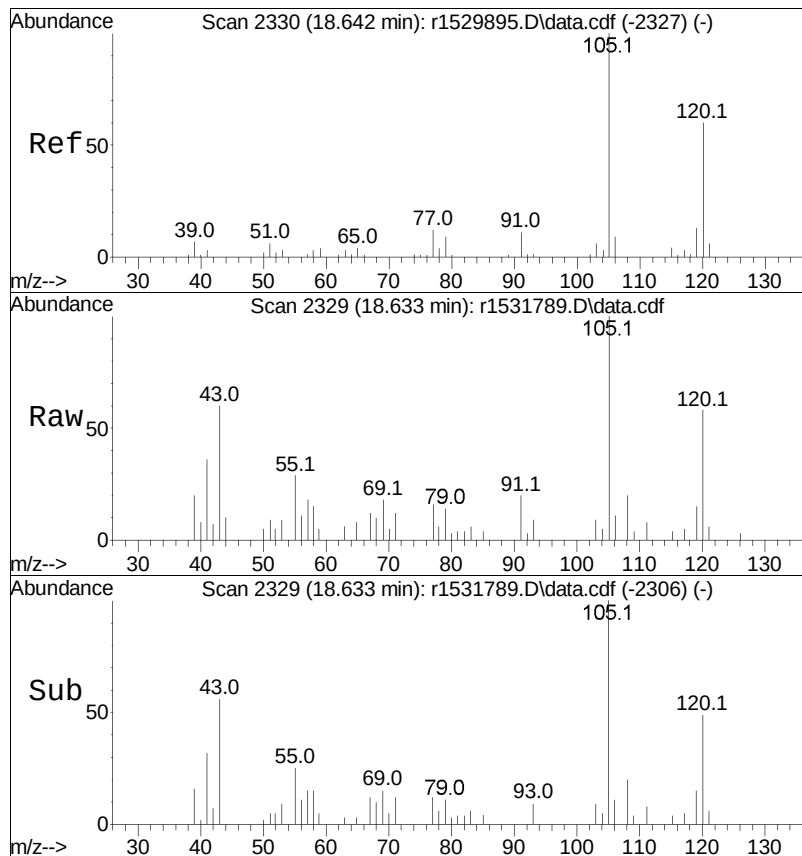




#87
 o-xylene
 Concen: 0.84 ppbV
 RT: 17.52 min Scan# 2196
 Delta R.T. -0.017 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

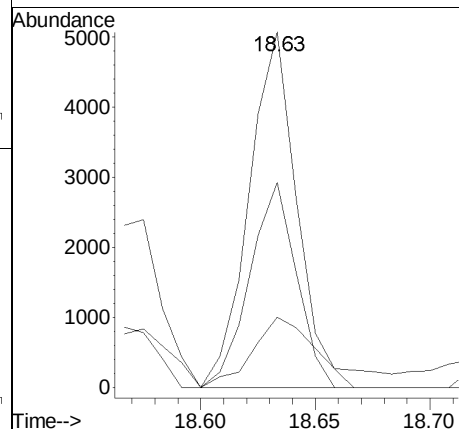
Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.2	35.8	53.8

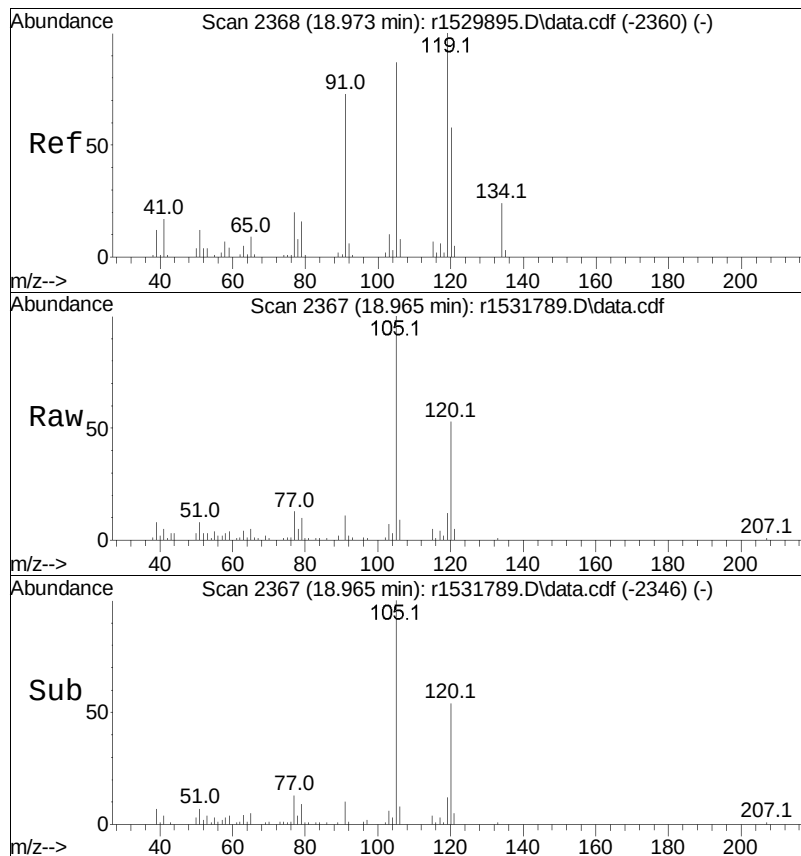




#97
 1,3,5-trimethylbenzene
 Concen: 0.09 ppbV
 RT: 18.63 min Scan# 2329
 Delta R.T. -0.008 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

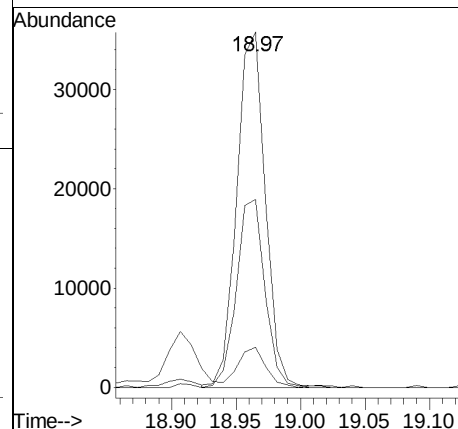
Tgt Ion:	105	Resp:	7335
Ion Ratio	Lower	Upper	
105	100		
120	57.7	47.7	71.5
91	19.8	8.5	12.7#





#99
 1,2,4-trimethylbenzene
 Concen: 0.74 ppbV
 RT: 18.97 min Scan# 2367
 Delta R.T. -0.008 min
 Lab File: r1531789.D
 Acq: 20 Mar 2022 9:45 PM

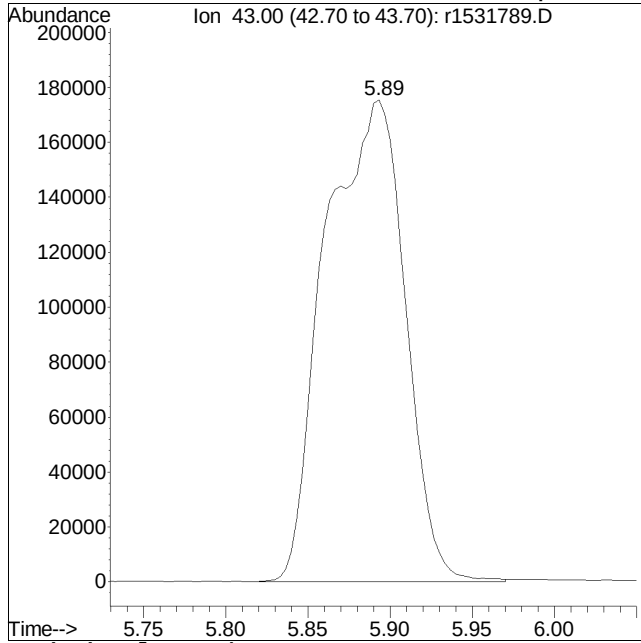
Tgt	Ion	Ratio	Lower	Upper
105	100			
120	52.9	52.7	79.1	
91	11.3	67.2	100.8	



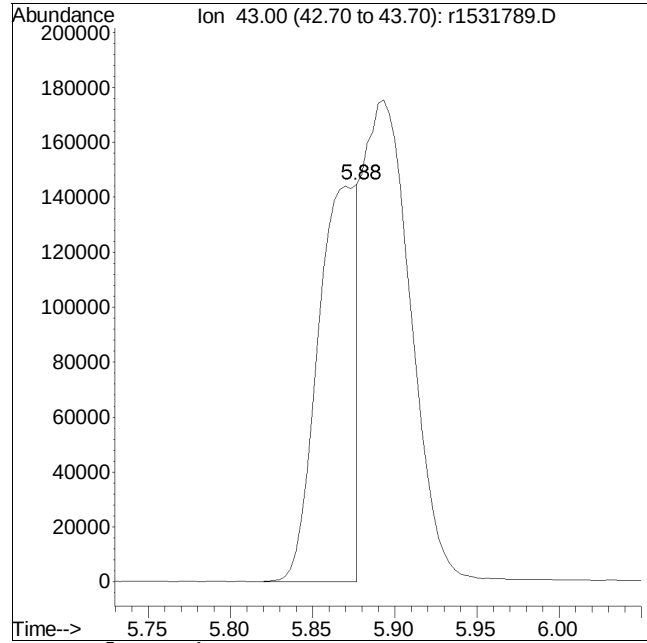
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_211222.M
Data File : r1531789.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:9: 5 Instrument :
Sample : L2213657-03,3,250,250 Quant Date : 3/21/2022 8:49 am

Compound #19: acetone



Original Peak Response = 591290



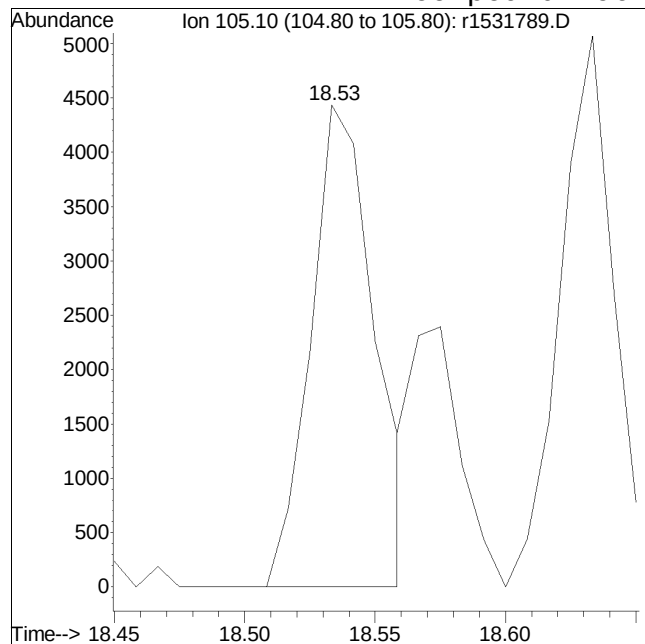
Manual Peak Response = 238253 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

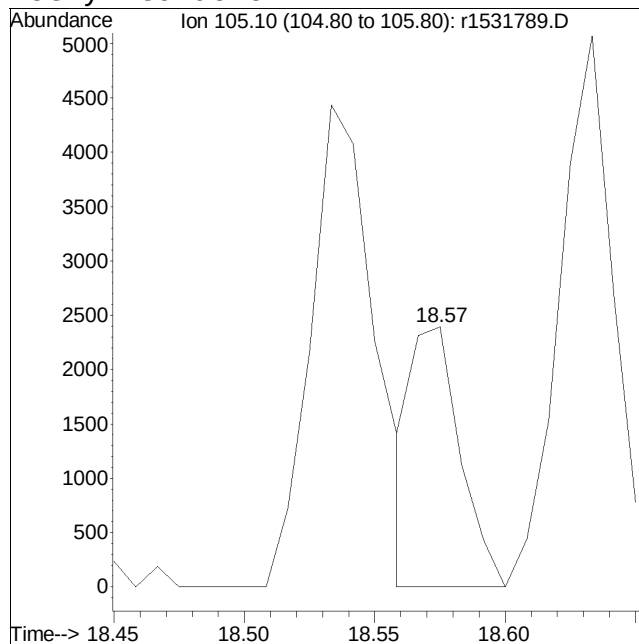
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_211222.M
 Data File : r1531789.D Operator : AIRLAB15:RY
 Date Inj'd : 3/20/2020 0:9: 5 Instrument :
 Sample : L2213657-03,3,250,250 Quant Date : 3/21/2022 8:49 am

Compound #96: 4-ethyl toluene



Original Peak Response = 7538



Manual Peak Response = 3131 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531791.D
 Acq On : 20 Mar 2022 11:04 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-05,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:46:55 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.58	49	384366	10.000	ppbV	-0.03
Standard Area = 382239			Recovery =	100.56%		
43) 1,4-difluorobenzene	11.86	114	836960	10.000	ppbV	-0.03
Standard Area = 859136			Recovery =	97.42%		
67) chlorobenzene-D5	16.57	54	200139	10.000	ppbV	-0.02
Standard Area = 200634			Recovery =	99.75%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.96	85	13142	0.462	ppbV	100
6) chloromethane	4.14	50	7918	0.559	ppbV	94
7) Freon-114	4.27		0	N.D.		
10) 1,3-butadiene	4.57		0	N.D.		
13) bromomethane	4.88		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	5.31	31	12996032	1179.166	ppbV #	84
17) vinyl bromide	0.00		0	N.D.	d	
19) acetone	5.87	43	107681M6	4.903	ppbV	
21) trichlorofluoromethane	6.07	101	7278	0.267	ppbV	95
22) isopropyl alcohol	6.19	45	883263	37.219	ppbV	99
27) tertiary butyl alcohol	6.94	59	1882	0.061	ppbV #	65
28) methylene chloride	7.01	49	7267	0.404	ppbV	96
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	7.31		0	N.D.		
31) Freon 113	7.34	101	1873	0.068	ppbV #	81
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	0.00		0	N.D.	d	
36) 2-butanone	8.88	43	12907	0.329	ppbV	98
38) Ethyl Acetate	9.70	61	5003	0.704	ppbV	89
39) chloroform	9.74	83	3130	0.096	ppbV #	90
40) Tetrahydrofuran	10.23	42	5738M6	0.235	ppbV	
42) 1,2-dichloroethane	10.60		0	N.D.		
44) hexane	9.66	57	3638	0.103	ppbV #	72
50) benzene	11.42	78	8580	0.146	ppbV	97
53) cyclohexane	11.74		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531791.D
 Acq On : 20 Mar 2022 11:04 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-05,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:46:55 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1,2-dichloropropane	0.00		0		N.D.	
57) bromodichloromethane	12.71		0		N.D.	
58) 1,4-dioxane	0.00		0		N.D.	
60) 2,2,4-trimethylpentane	12.71	57	12286	0.105	ppbV #	89
62) heptane	13.02	43	2041	0.053	ppbV	93
63) cis-1,3-dichloropropene	0.00		0		N.D.	
64) 4-methyl-2-pentanone	13.79		0		N.D.	
65) trans-1,3-dichloropropene	0.00		0		N.D.	
66) 1,1,2-trichloroethane	0.00		0		N.D.	
68) toluene	14.81	91	28799	0.386	ppbV	99
72) 2-hexanone	15.07		0		N.D.	
74) dibromochloromethane	0.00		0		N.D.	
75) 1,2-dibromoethane	0.00		0		N.D.	
80) chlorobenzene	0.00		0		N.D.	
81) ethylbenzene	16.96		0		N.D.	
83) m+p-xylene	17.11	91	9290	0.130	ppbV	92
84) bromoform	0.00		0		N.D.	
85) styrene	17.43		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.00		0		N.D.	
87) o-xylene	17.52	91	4289	0.060	ppbV	96
96) 4-ethyl toluene	0.00		0		N.D.	
97) 1,3,5-trimethylbenzene	18.63		0		N.D.	
99) 1,2,4-trimethylbenzene	18.97	105	5022	0.068	ppbV #	47
101) Benzyl Chloride	19.08		0		N.D.	
102) 1,3-dichlorobenzene	19.15		0		N.D.	
103) 1,4-dichlorobenzene	19.15		0		N.D.	
107) 1,2-dichlorobenzene	0.00		0		N.D.	
115) 1,2,4-trichlorobenzene	0.00		0		N.D.	
119) hexachlorobutadiene	0.00		0		N.D.	

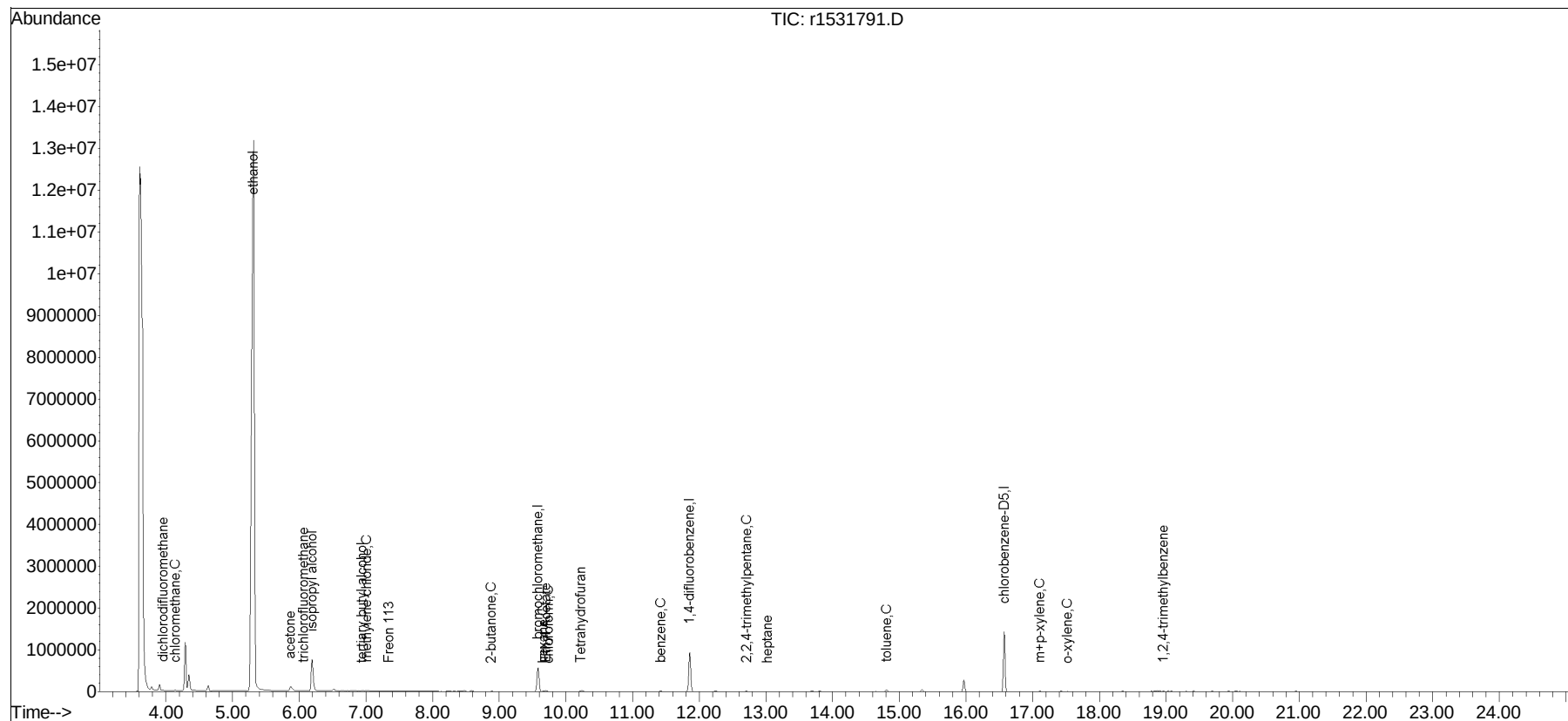
(#) = qualifier out of range (m) = manual integration (+) = signals summed

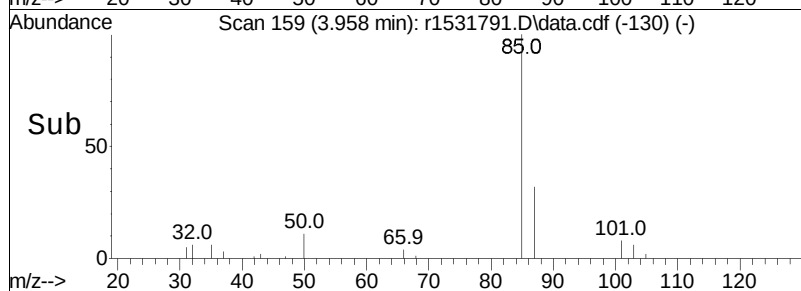
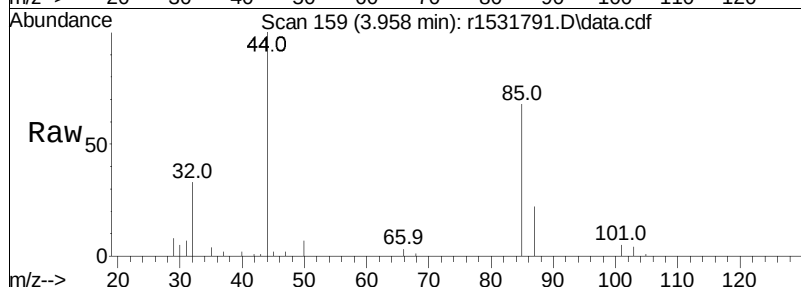
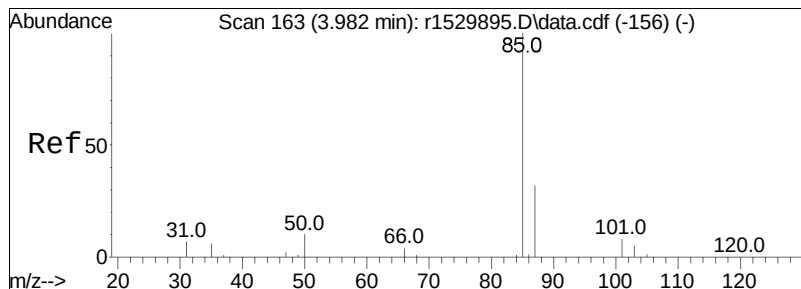
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531791.D
 Acq On : 20 Mar 2022 11:04 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-05,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:46:55 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

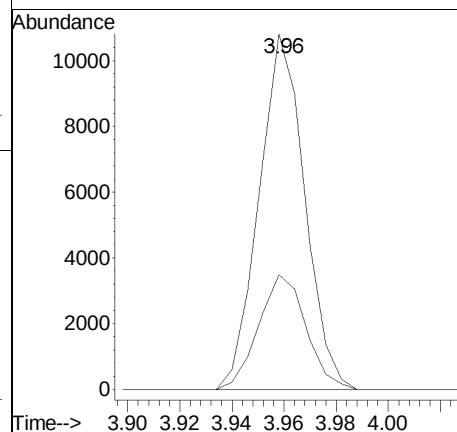
Sub List : T015-NY-7-SIM - .\Airlab15\2022\03\0320T\r1531778.D

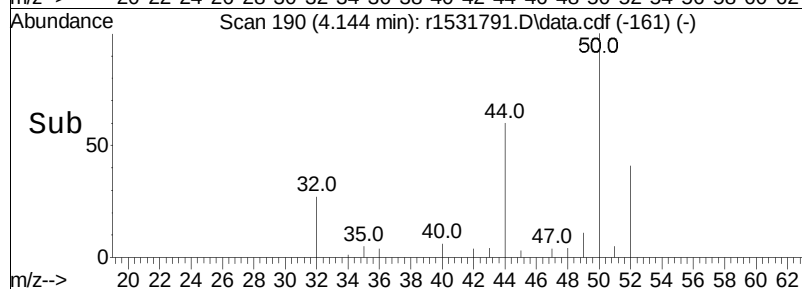
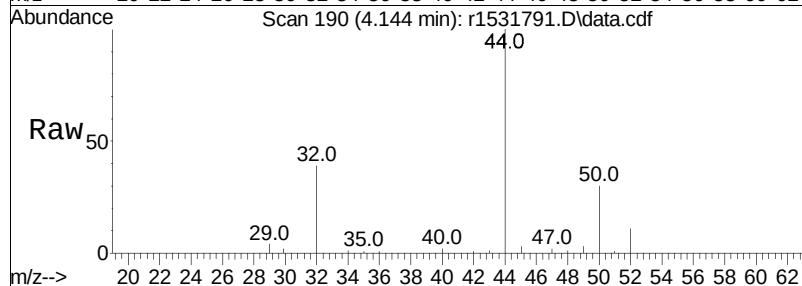
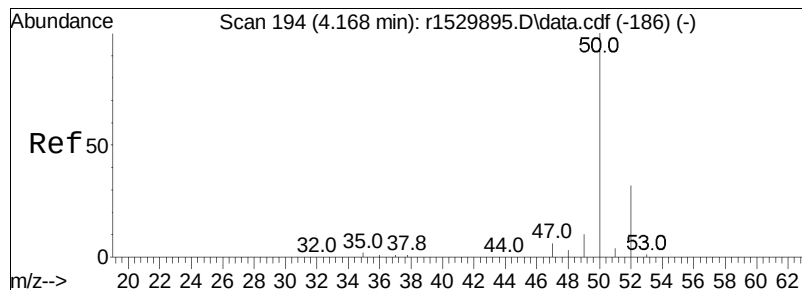




#5
 dichlorodifluoromethane
 Concen: 0.46 ppbV
 RT: 3.96 min Scan# 159
 Delta R.T. -0.024 min
 Lab File: r1531791.D
 Acq: 20 Mar 2022 11:04 PM

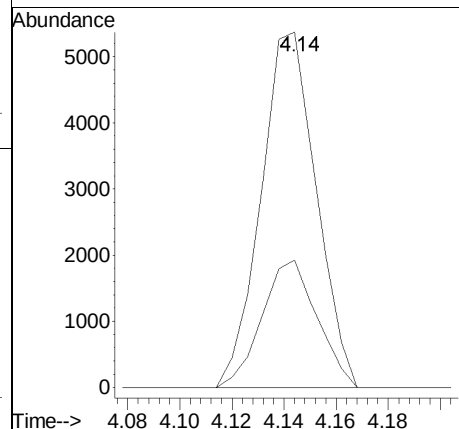
Tgt Ion: 85 Resp: 13142
 Ion Ratio Lower Upper
 85 100
 87 32.3 25.6 38.4

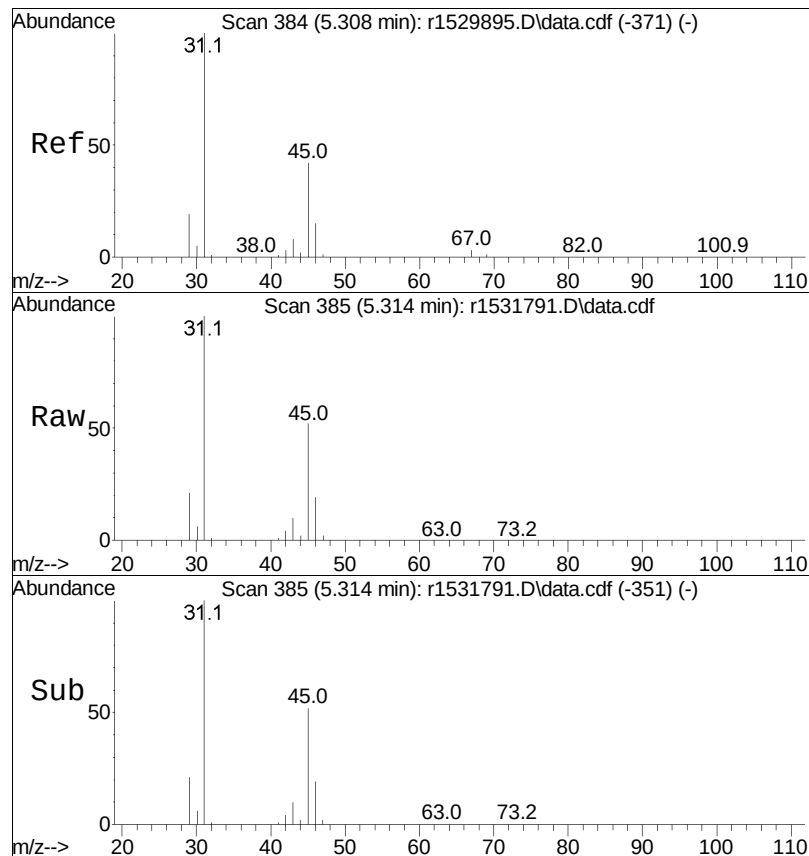




#6
 chloromethane
 Concen: 0.56 ppbV
 RT: 4.14 min Scan# 190
 Delta R.T. -0.024 min
 Lab File: r1531791.D
 Acq: 20 Mar 2022 11:04 PM

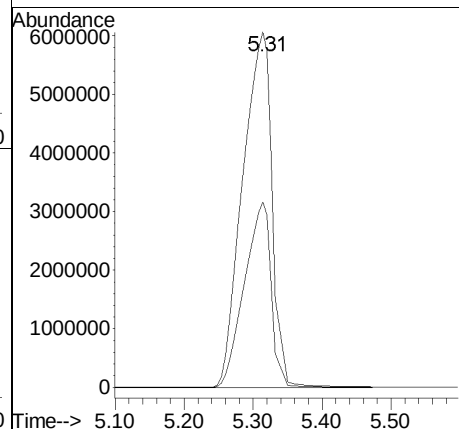
Tgt	Ion	Ratio	Lower	Upper
50	100			
52	35.9	25.9	38.9	

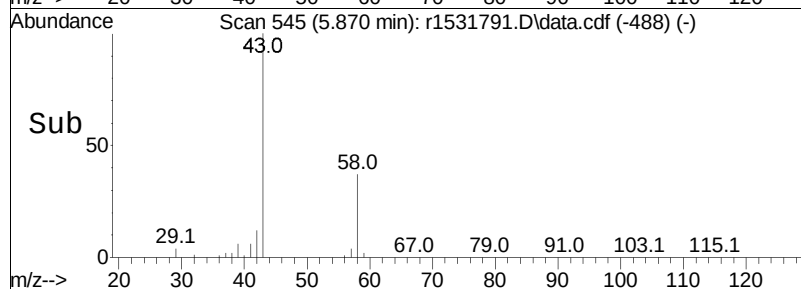
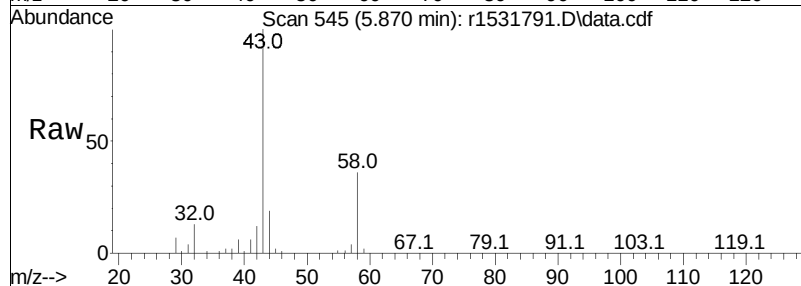
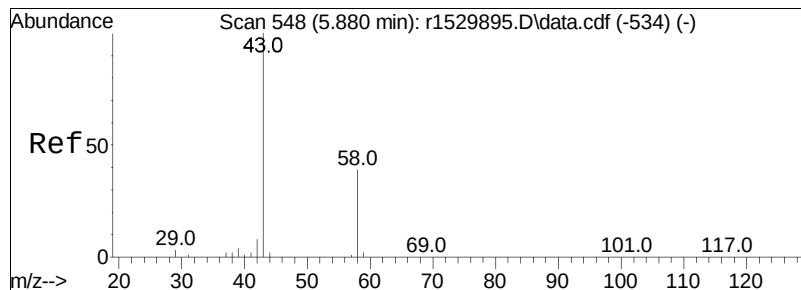




#15
ethanol
Concen: 1179.17 ppbV
RT: 5.31 min Scan# 385
Delta R.T. 0.006 min
Lab File: r1531791.D
Acq: 20 Mar 2022 11:04 PM

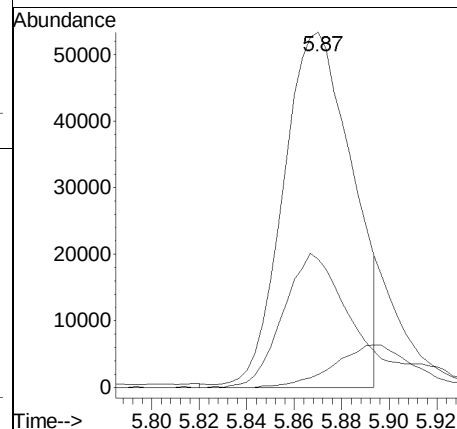
Tgt Ion: 31 Resp:12996032
Ion Ratio Lower Upper
31 100
45 52.2 33.4 50.2#

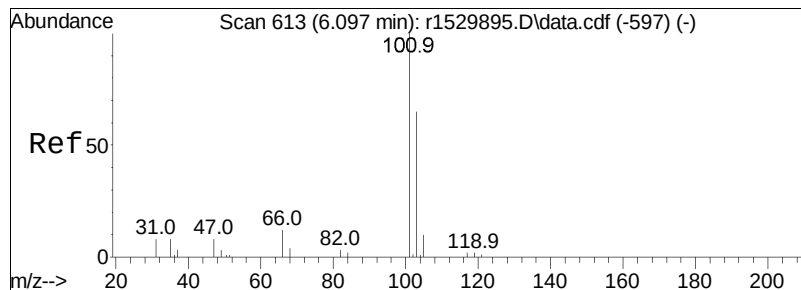




#19
acetone
Concen: 4.90 ppbV m
RT: 5.87 min Scan# 545
Delta R.T. -0.010 min
Lab File: r1531791.D
Acq: 20 Mar 2022 11:04 PM

Tgt Ion:	43	58	57	Ratio	Lower	Upper
Resp:	107681					
Ion Ratio	100	36.1	3.6			
					31.6	47.4
					0.8	1.2#





#21

trichlorofluoromethane

Concen: 0.27 ppbV

RT: 6.07 min Scan# 604

Delta R.T. -0.030 min

Lab File: r1531791.D

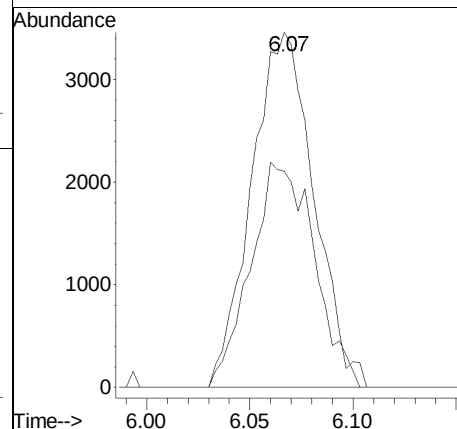
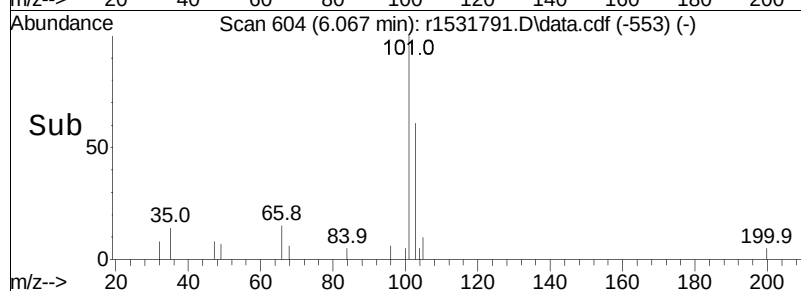
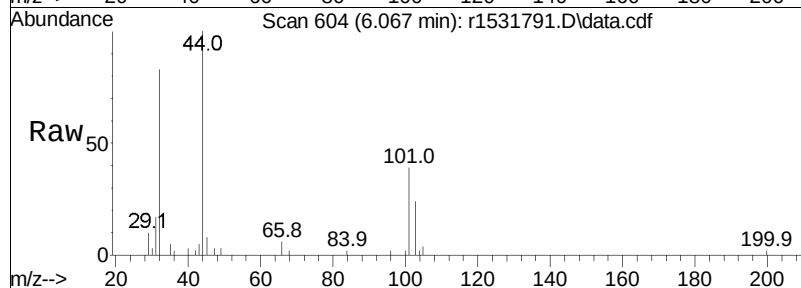
Acq: 20 Mar 2022 11:04 PM

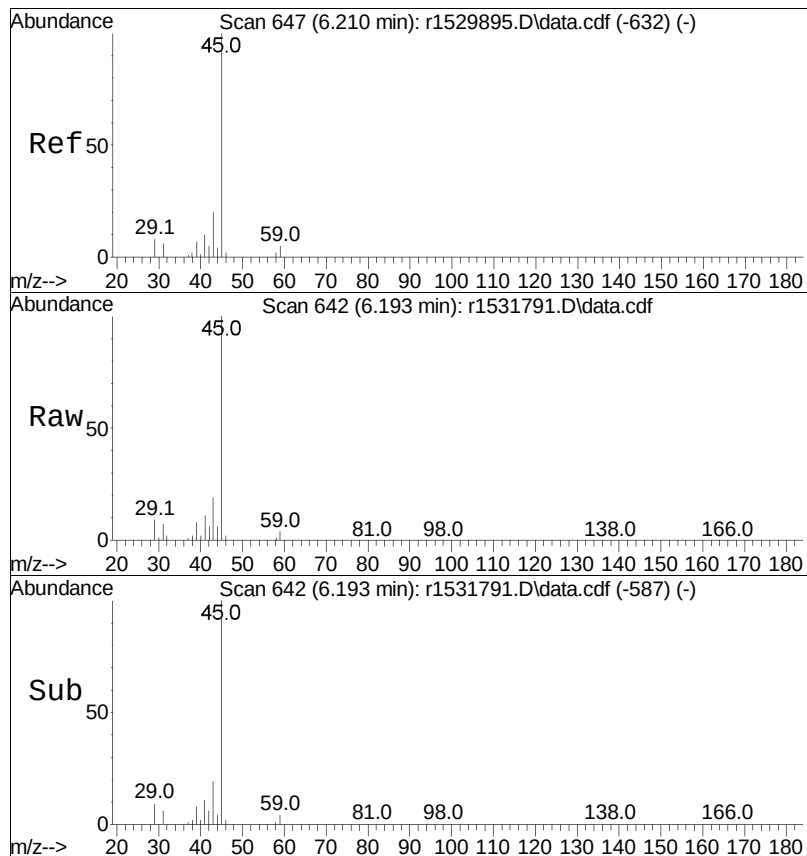
Tgt Ion:101 Resp: 7278

Ion Ratio Lower Upper

101 100

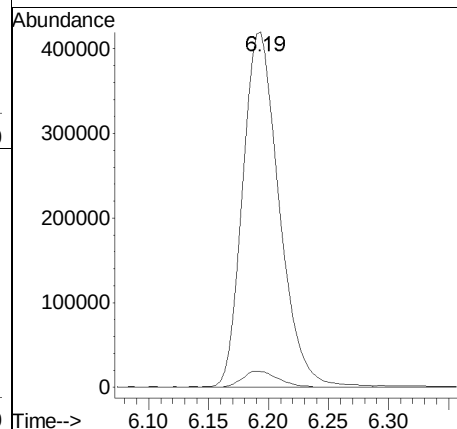
103 60.8 52.0 78.0

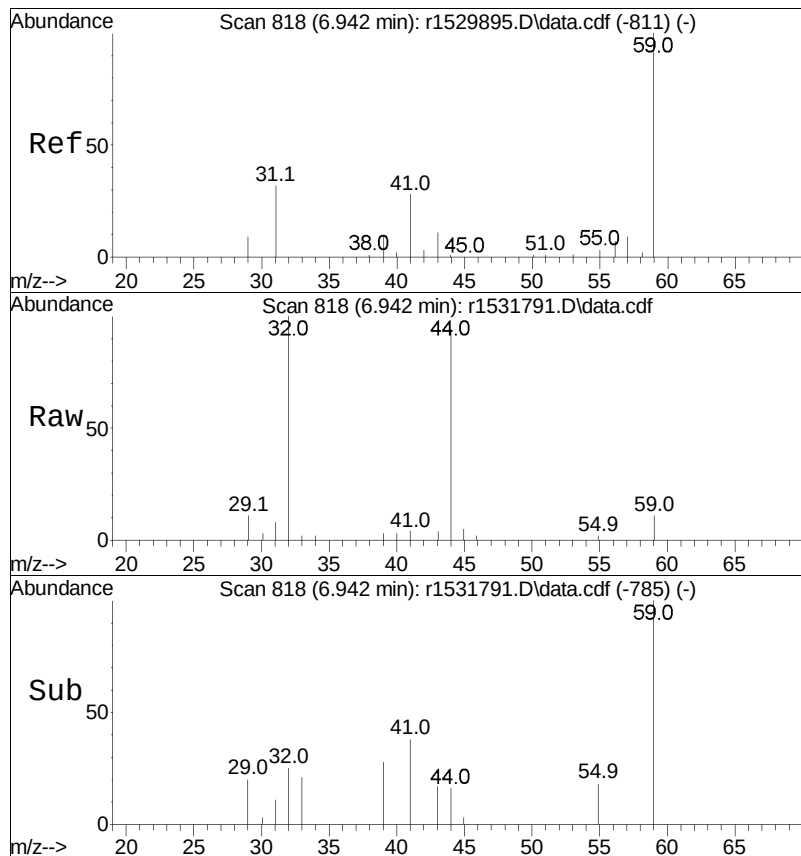




#22
 isopropyl alcohol
 Concen: 37.22 ppbV
 RT: 6.19 min Scan# 642
 Delta R.T. -0.017 min
 Lab File: r1531791.D
 Acq: 20 Mar 2022 11:04 PM

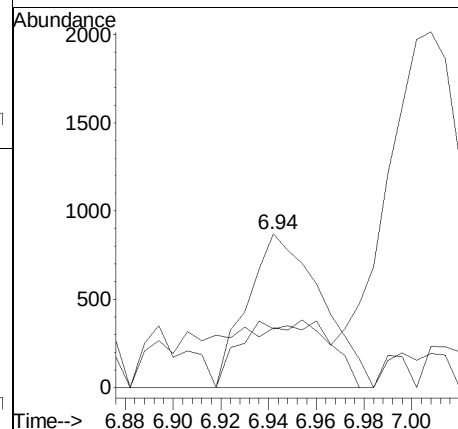
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.5	3.8	5.8

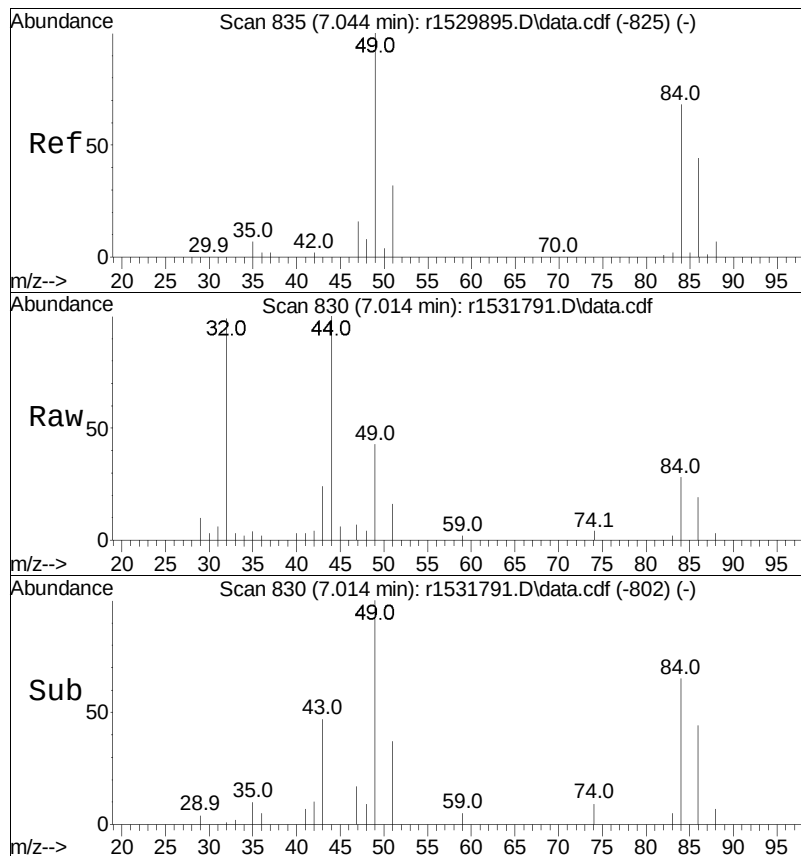




#27
 tertiary butyl alcohol
 Concen: 0.06 ppbV
 RT: 6.94 min Scan# 818
 Delta R.T. 0.000 min
 Lab File: r1531791.D
 Acq: 20 Mar 2022 11:04 PM

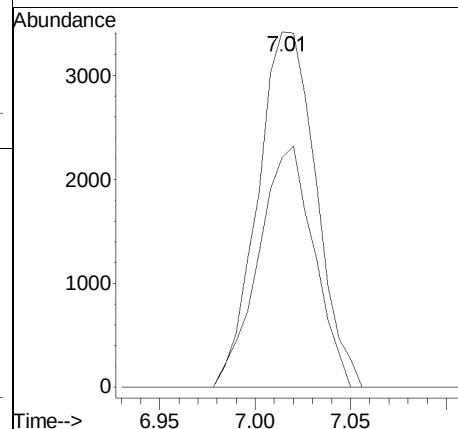
Tgt Ion:	59	Resp:	1882
Ion Ratio	Lower	Upper	
59	100		
41	38.1	22.2	33.4#
43	38.8	8.9	13.3#

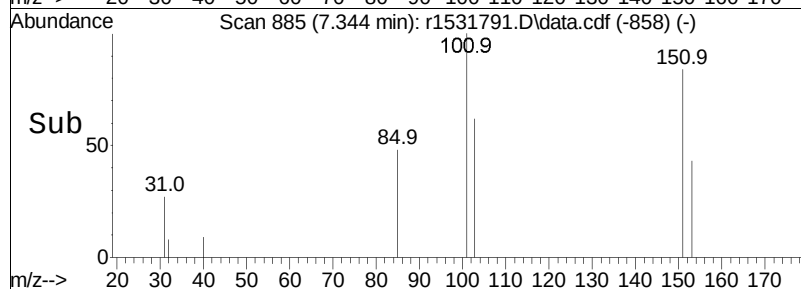
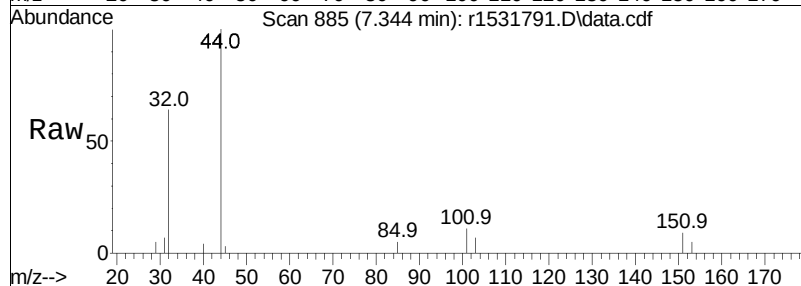
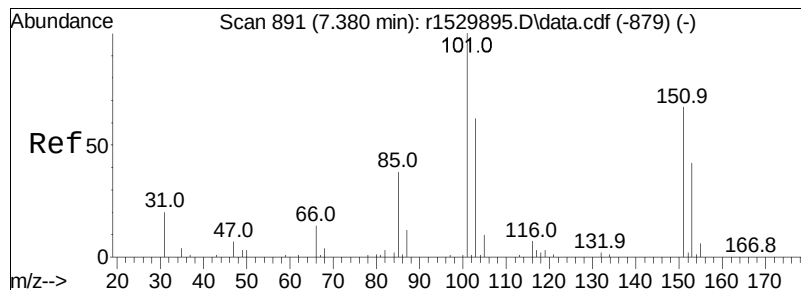




#28
 methylene chloride
 Concen: 0.40 ppbV
 RT: 7.01 min Scan# 830
 Delta R.T. -0.030 min
 Lab File: r1531791.D
 Acq: 20 Mar 2022 11:04 PM

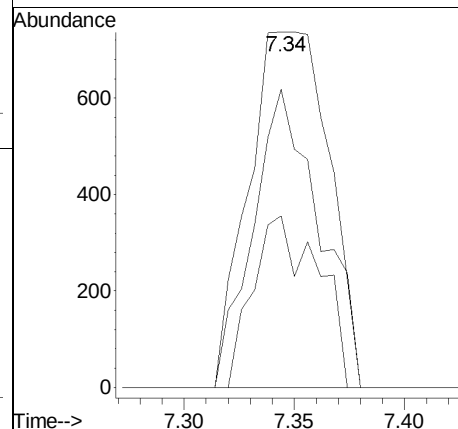
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	7267				
Ion Ratio	100	64.6			
			54.5		81.7

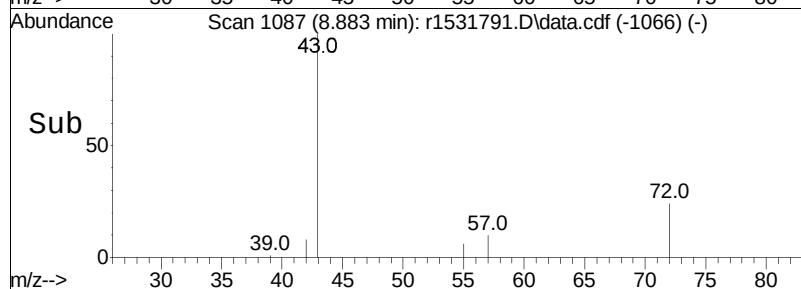
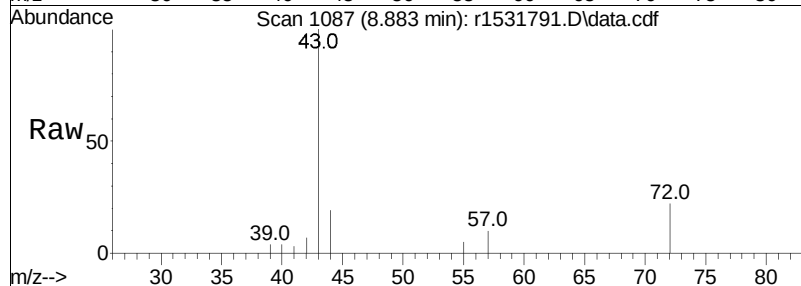
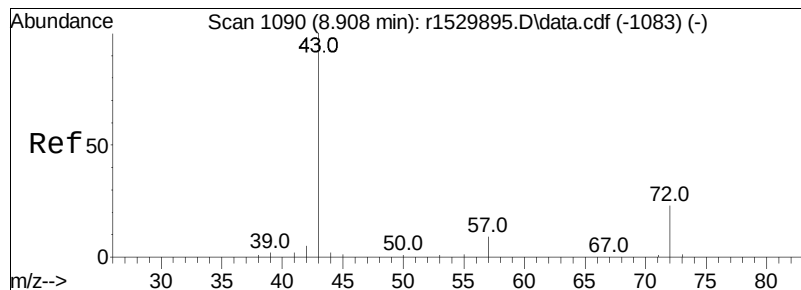




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 7.34 min Scan# 885
 Delta R.T. -0.036 min
 Lab File: r1531791.D
 Acq: 20 Mar 2022 11:04 PM

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	1873		
85	48.3		30.6	46.0#
151	83.9		53.5	80.3#





#36

2-butanone

Concen: 0.33 ppbV

RT: 8.88 min Scan# 1087

Delta R.T. -0.025 min

Lab File: r1531791.D

Acq: 20 Mar 2022 11:04 PM

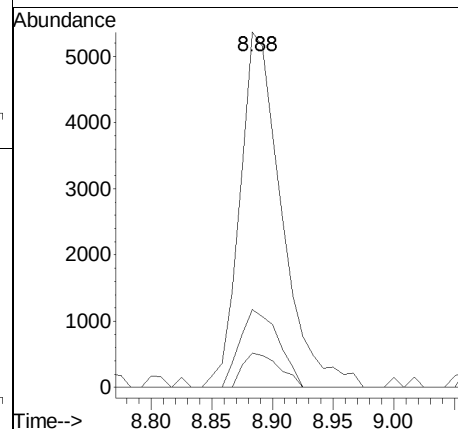
Tgt Ion: 43 Resp: 12907

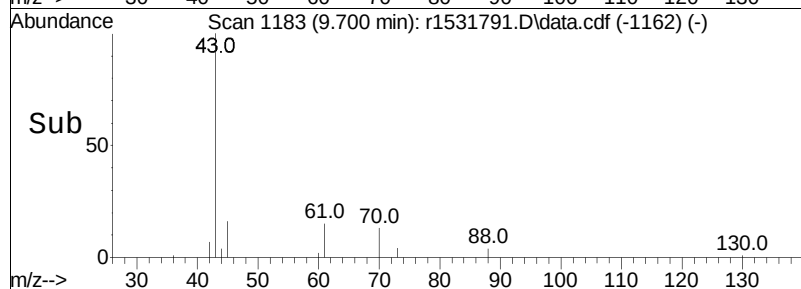
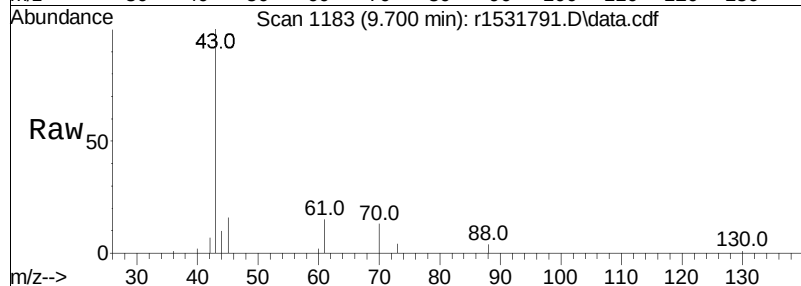
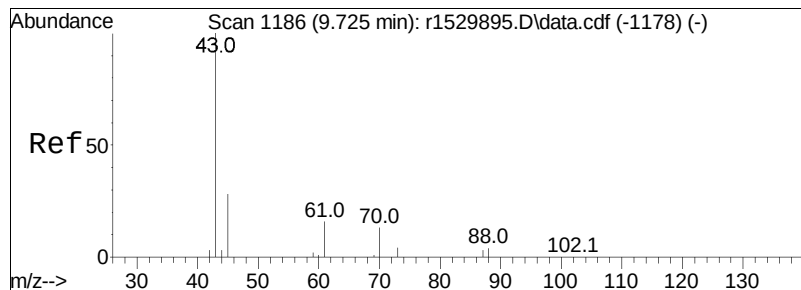
Ion Ratio Lower Upper

43 100

72 21.9 18.0 27.0

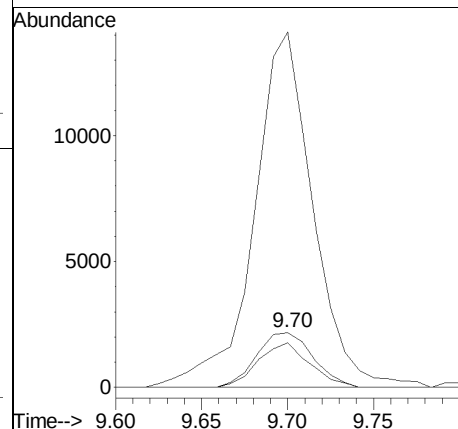
57 9.7 7.0 10.4

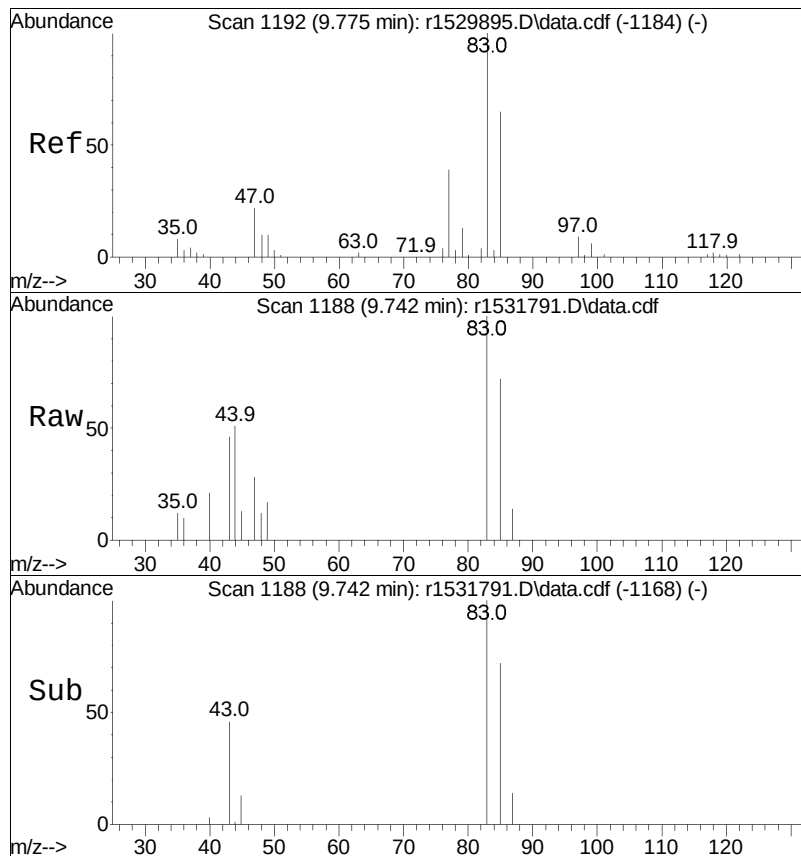




#38
Ethyl Acetate
Concen: 0.70 ppbV
RT: 9.70 min Scan# 1183
Delta R.T. -0.025 min
Lab File: r1531791.D
Acq: 20 Mar 2022 11:04 PM

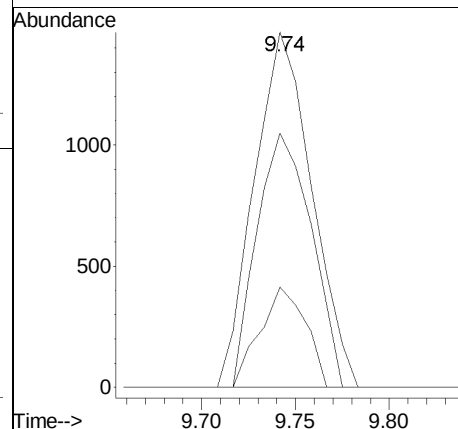
Tgt	Ion	Ratio	Lower	Upper
61	100			
70	81.8	62.7	94.1	
43	650.1	551.8	827.8	

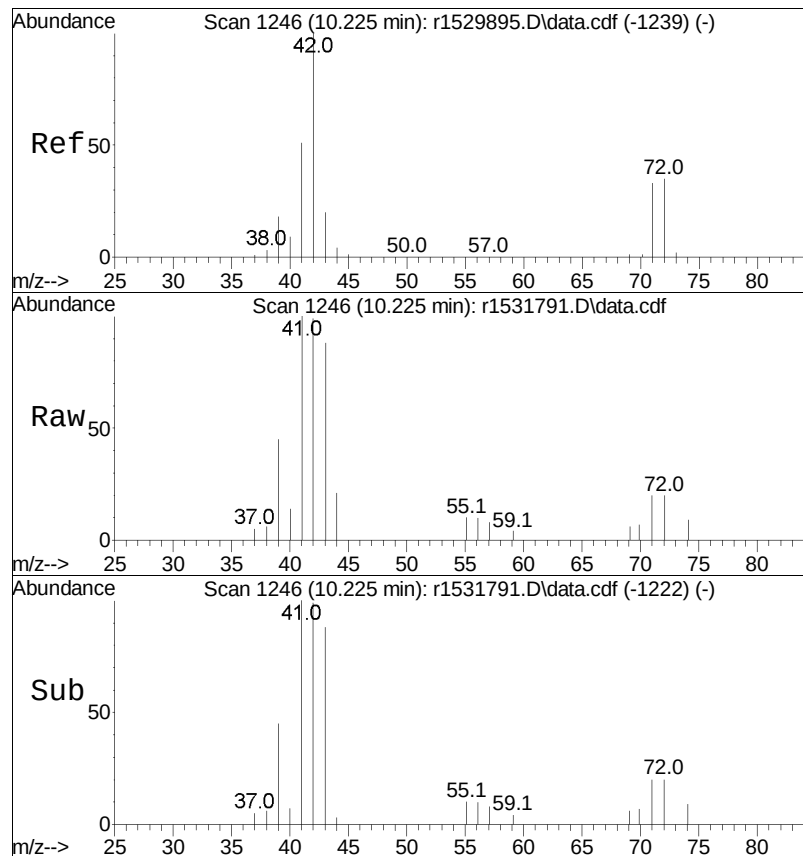




#39
chloroform
Concen: 0.10 ppbV
RT: 9.74 min Scan# 1188
Delta R.T. -0.033 min
Lab File: r1531791.D
Acq: 20 Mar 2022 11:04 PM

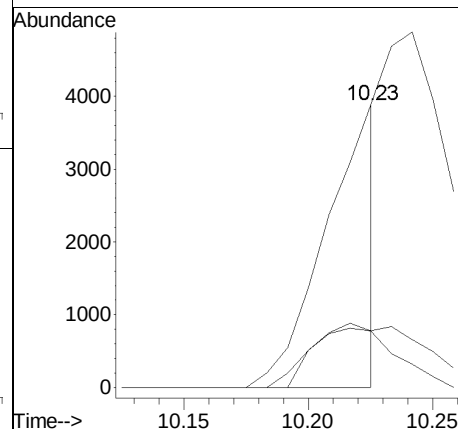
Tgt	Ion	Ratio	Lower	Upper
83	100			
85	71.6	51.8	77.8	
47	28.2	17.9	26.9	

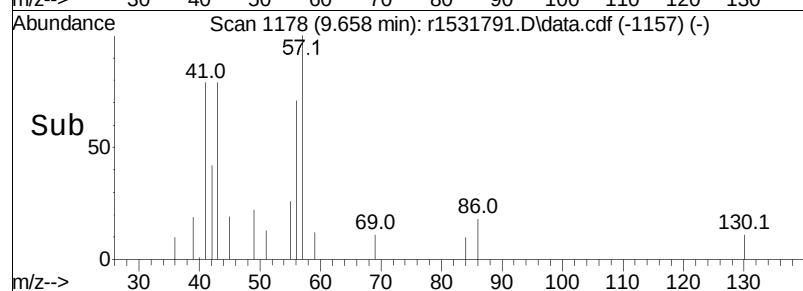
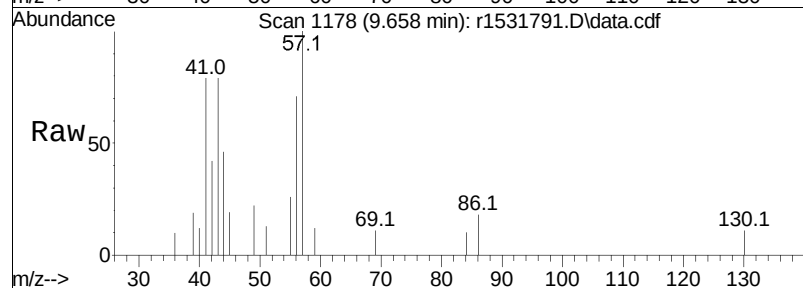
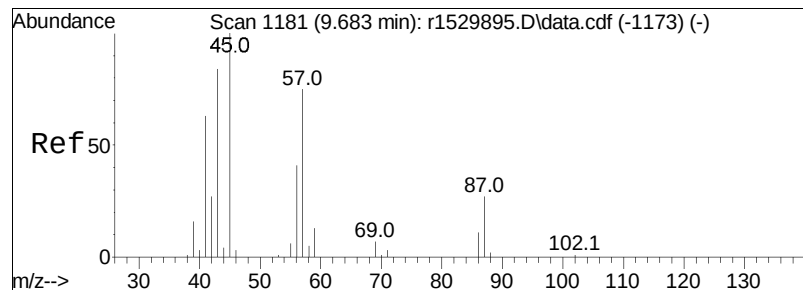




#40
Tetrahydrofuran
Concen: 0.24 ppbV m
RT: 10.23 min Scan# 1246
Delta R.T. 0.000 min
Lab File: r1531791.D
Acq: 20 Mar 2022 11:04 PM

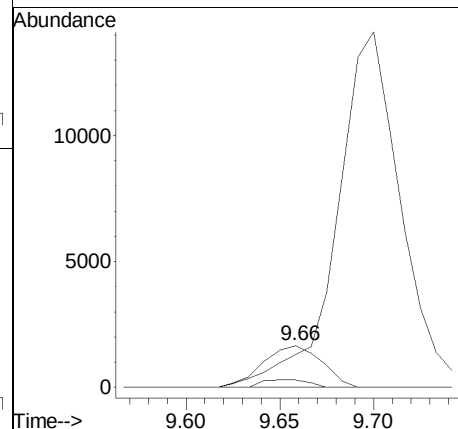
Tgt Ion:	42	Resp:	5738
Ion Ratio	Lower	Upper	
42	100		
71	20.0	26.8	40.2#
72	20.0	27.7	41.5#

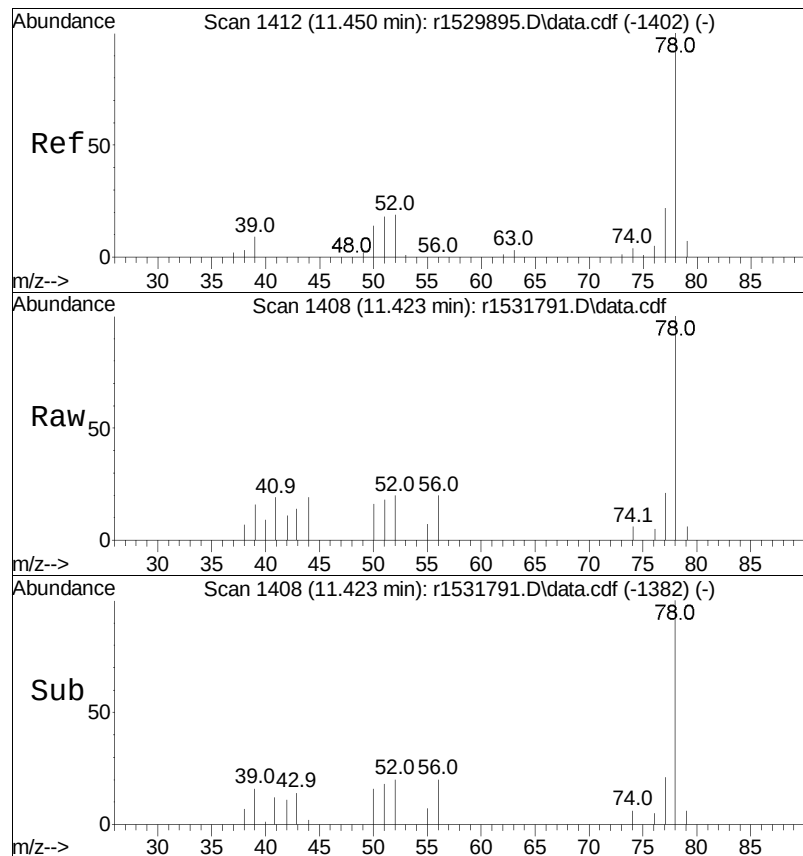




#44
hexane
Concen: 0.10 ppbV
RT: 9.66 min Scan# 1178
Delta R.T. -0.025 min
Lab File: r1531791.D
Acq: 20 Mar 2022 11:04 PM

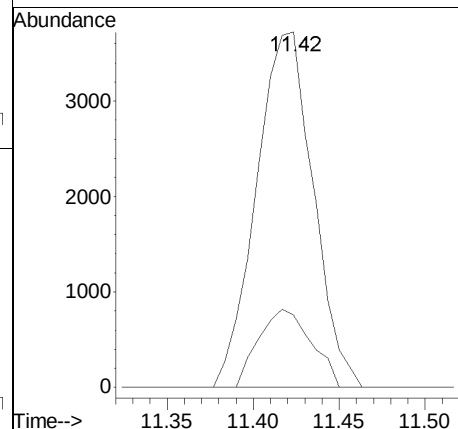
Tgt	Ion	Resp	Lower	Upper
57	100	3638		
43	78.6		88.8	133.2#
86	17.8		11.4	17.0#

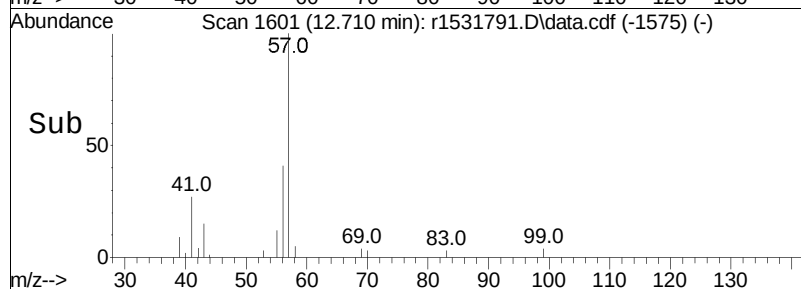
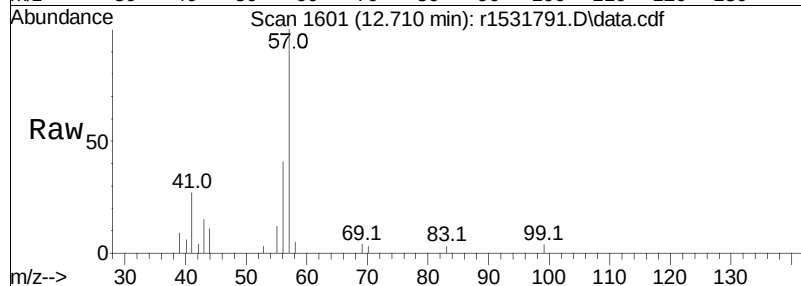
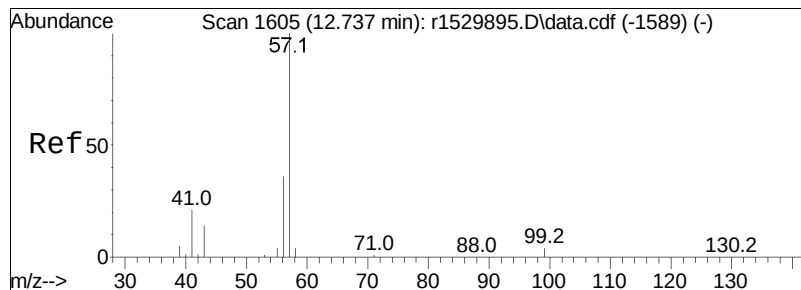




#50
benzene
Concen: 0.15 ppbV
RT: 11.42 min Scan# 1408
Delta R.T. -0.027 min
Lab File: r1531791.D
Acq: 20 Mar 2022 11:04 PM

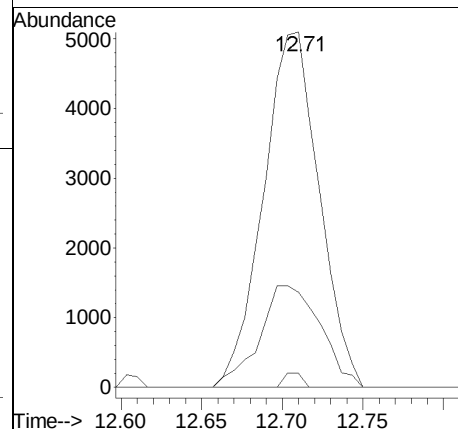
Tgt Ion	Ratio	Lower	Upper
78	100		
52	20.4	15.2	22.8

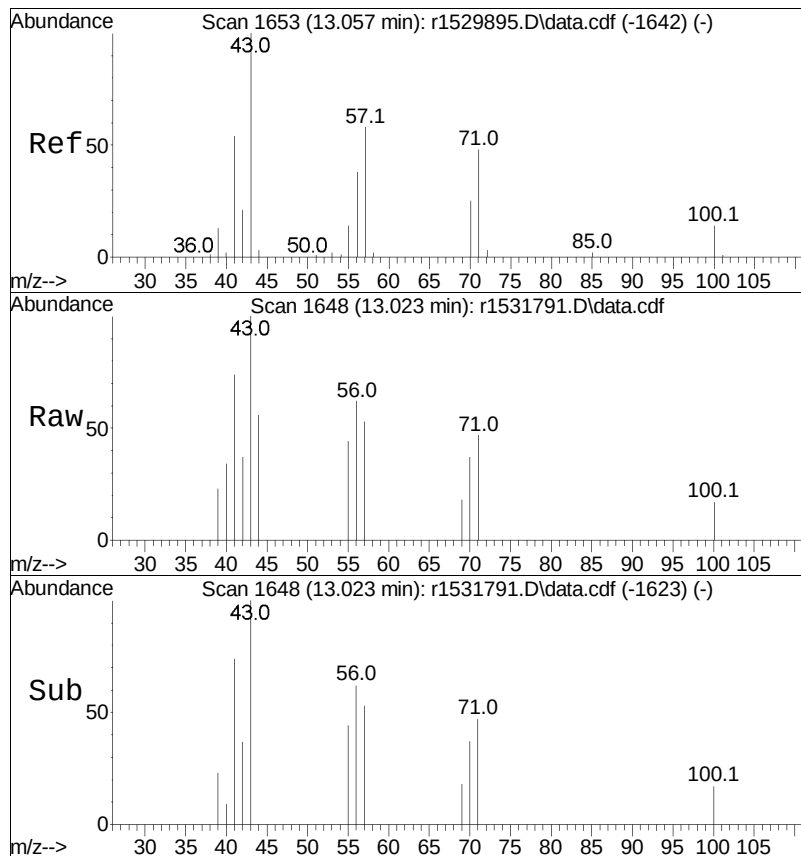




#60
 2,2,4-trimethylpentane
 Concen: 0.10 ppbV
 RT: 12.71 min Scan# 1601
 Delta R.T. -0.027 min
 Lab File: r1531791.D
 Acq: 20 Mar 2022 11:04 PM

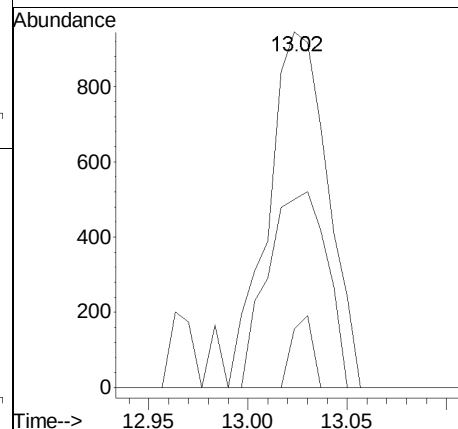
Tgt Ion	Ratio	Lower	Upper
57	100		
99	4.0	3.1	4.7
41	26.8	16.6	24.8

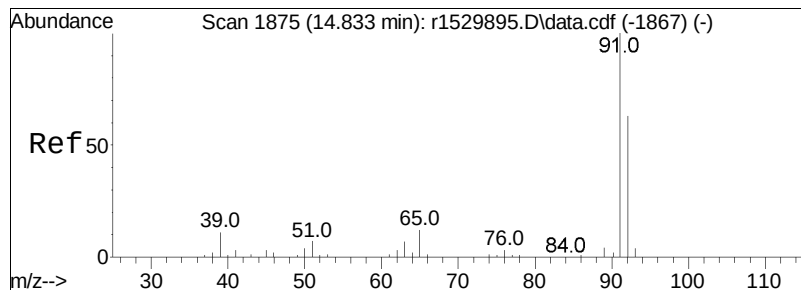




#62
 heptane
 Concen: 0.05 ppbV
 RT: 13.02 min Scan# 1648
 Delta R.T. -0.033 min
 Lab File: r1531791.D
 Acq: 20 Mar 2022 11:04 PM

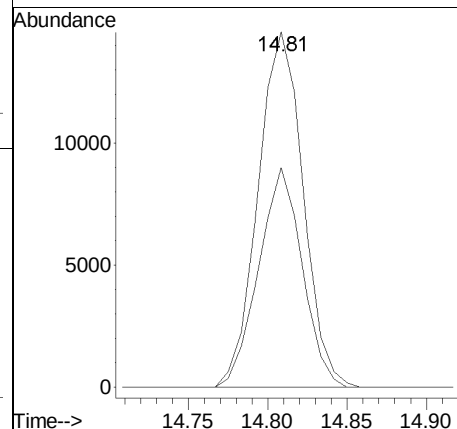
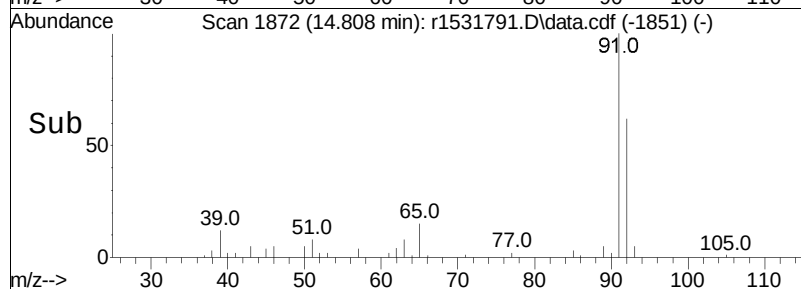
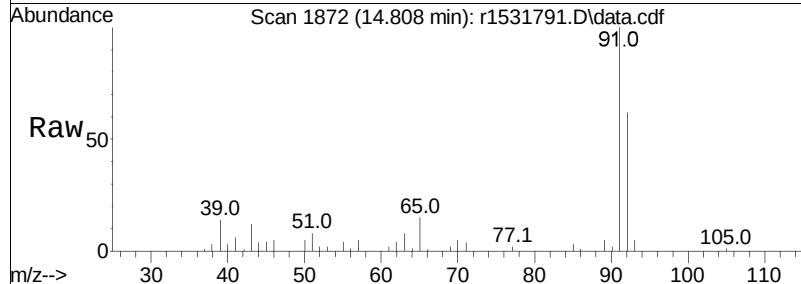
Tgt	Ion: 43	Resp:	2041
Ion	Ratio	Lower	Upper
43	100		
57	52.9	46.5	69.7
100	16.5	11.6	17.4

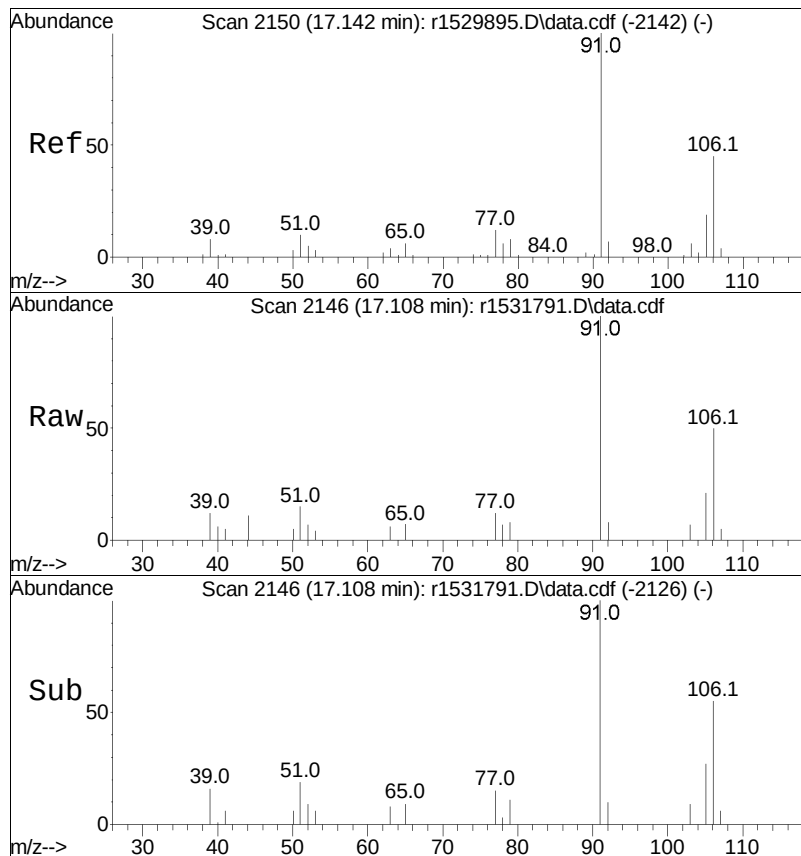




#68
toluene
Concen: 0.39 ppbV
RT: 14.81 min Scan# 1872
Delta R.T. -0.025 min
Lab File: r1531791.D
Acq: 20 Mar 2022 11:04 PM

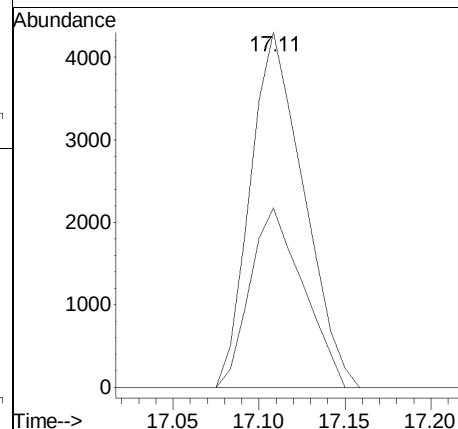
Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.9	50.3	75.5

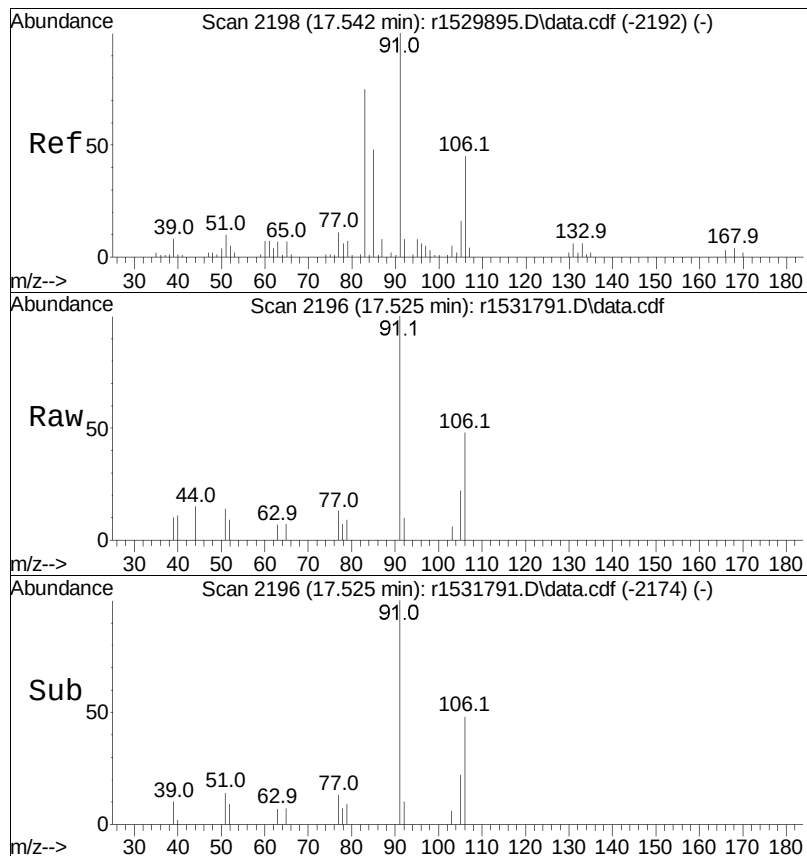




#83
 m+p-xylene
 Concen: 0.13 ppbV
 RT: 17.11 min Scan# 2146
 Delta R.T. -0.033 min
 Lab File: r1531791.D
 Acq: 20 Mar 2022 11:04 PM

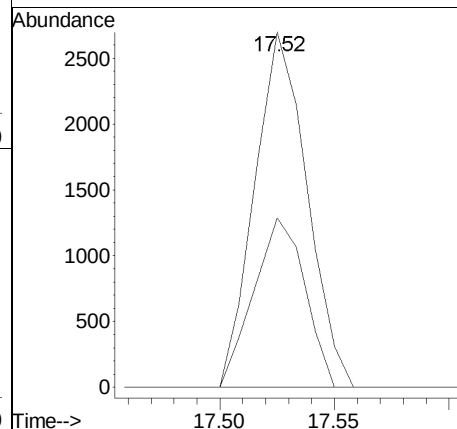
Tgt	Ion	Resp	Lower	Upper
91	100	9290		
106	50.5	36.2	54.2	

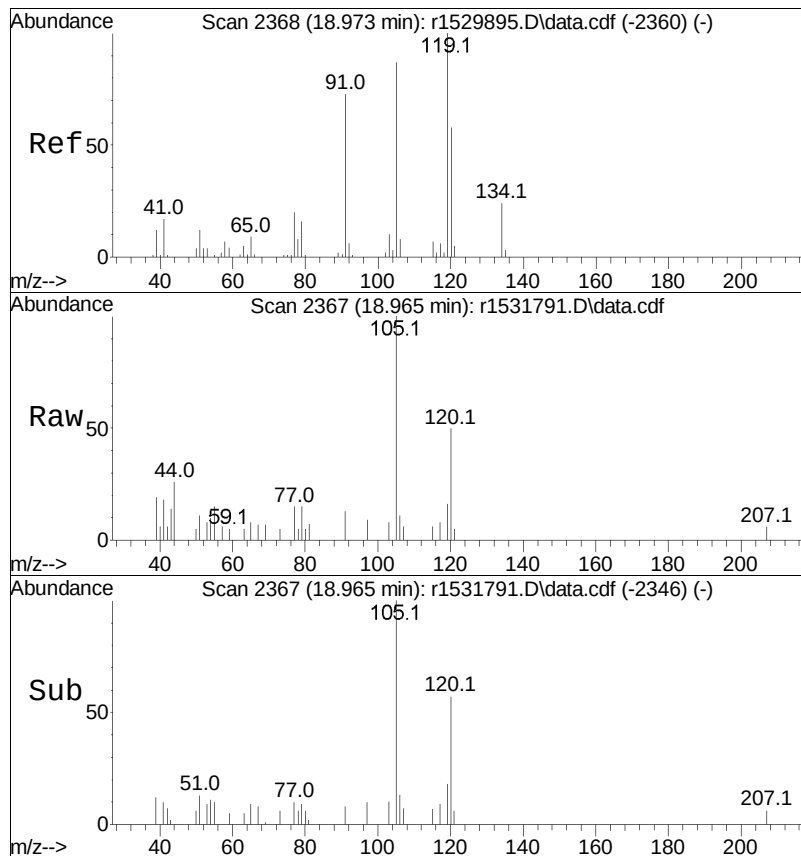




#87
 o-xylene
 Concen: 0.06 ppbV
 RT: 17.52 min Scan# 2196
 Delta R.T. -0.017 min
 Lab File: r1531791.D
 Acq: 20 Mar 2022 11:04 PM

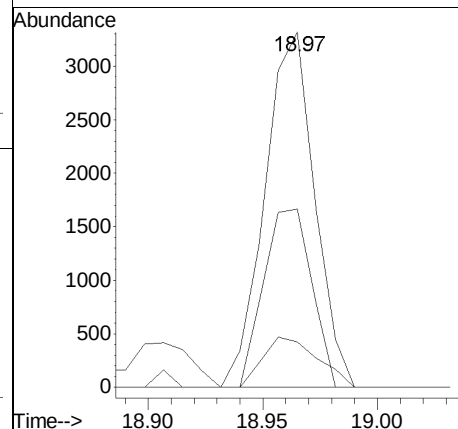
Tgt Ion:	91	Resp:	4289
Ion Ratio	Lower	Upper	
91	100		
106	47.7	35.8	53.8





#99
 1,2,4-trimethylbenzene
 Concen: 0.07 ppbV
 RT: 18.97 min Scan# 2367
 Delta R.T. -0.008 min
 Lab File: r1531791.D
 Acq: 20 Mar 2022 11:04 PM

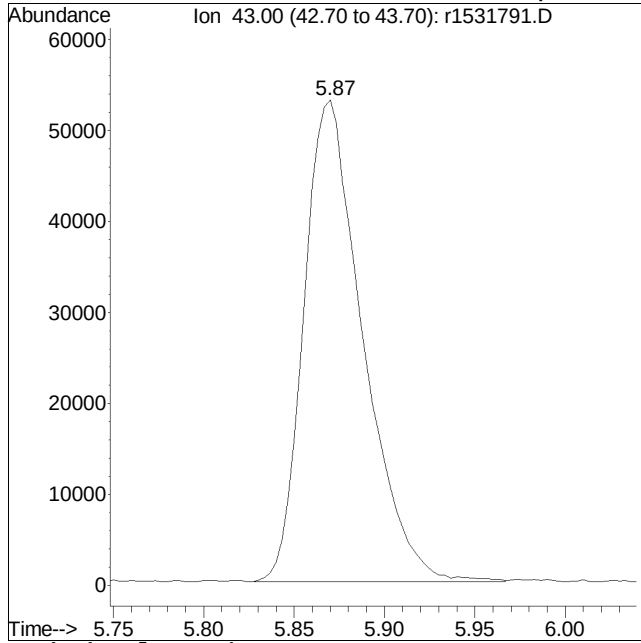
Tgt	Ion	Ratio	Resp	Lower	Upper
105	100		5022		
120	50.2	52.7	79.1#		
91	12.8	67.2	100.8#		



Manual Integration/Negative Proof Report

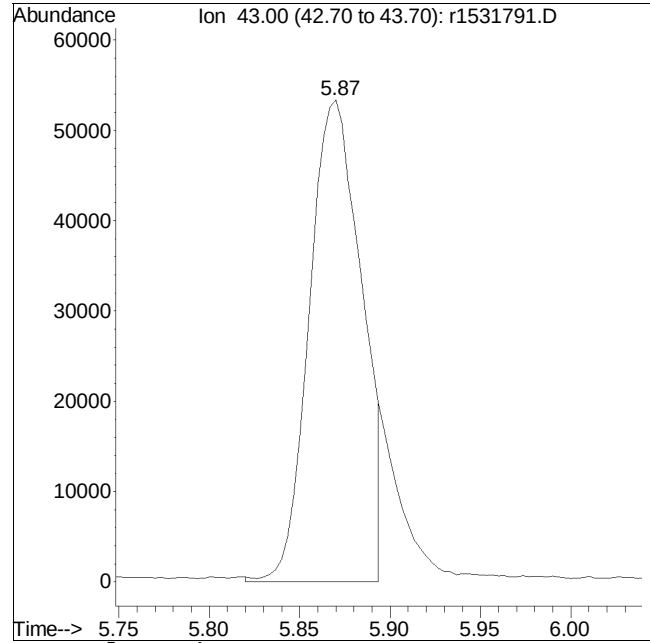
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_211222.M
Data File : r1531791.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:1: 4 Instrument :
Sample : L2213657-05,3,250,250 Quant Date : 3/21/2022 8:50 am

Compound #19: acetone



Original Peak Response = 120461

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

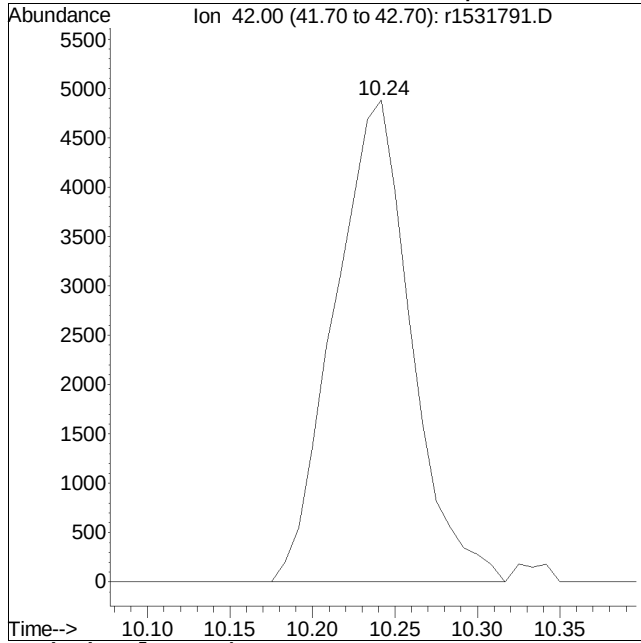


Manual Peak Response = 107681 M6

Manual Integration/Negative Proof Report

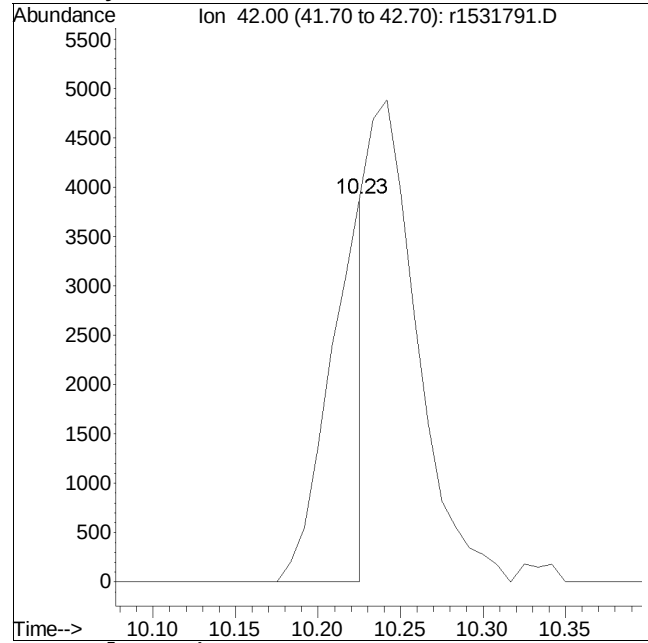
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_211222.M
Data File : r1531791.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:1: 4 Instrument :
Sample : L2213657-05,3,250,250 Quant Date : 3/21/2022 8:50 am

Compound #40: Tetrahydrofuran



Original Peak Response = 15743

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 5738 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531792.D
 Acq On : 20 Mar 2022 11:43 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-01,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:49:04 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.58	49	396045	10.000	ppbV	-0.03
Standard Area = 382239			Recovery = 103.61%			
43) 1,4-difluorobenzene	11.86	114	858084	10.000	ppbV	-0.03
Standard Area = 859136			Recovery = 99.88%			
67) chlorobenzene-D5	16.57	54	209413	10.000	ppbV	-0.02
Standard Area = 200634			Recovery = 104.38%			

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.96	85	14899	0.509	ppbV	98
6) chloromethane	4.14	50	9704	0.665	ppbV	97
7) Freon-114	4.27		0	N.D.		
9) vinyl chloride	4.40	62	2716	0.142	ppbV	90
10) 1,3-butadiene	4.57		0	N.D.		
13) bromomethane	0.00		0	N.D.		
14) chloroethane	0.00		0	N.D.	d	
15) ethanol	5.28	31	2411493	212.349	ppbV	96
17) vinyl bromide	0.00		0	N.D.	d	
19) acetone	5.86	43	1139120	50.343	ppbV	100
21) trichlorofluoromethane	6.07	101	6868	0.244	ppbV	89
22) isopropyl alcohol	6.19	45	1441440	58.948	ppbV	99
26) 1,1-dichloroethene	6.85		0	N.D.		
27) tertiary butyl alcohol	6.92	59	219440	6.938	ppbV #	90
28) methylene chloride	7.02	49	8070	0.435	ppbV	94
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	7.31	76	7627	0.198	ppbV #	1
31) Freon 113	7.34	101	2018	0.071	ppbV	92
32) trans-1,2-dichloroethene	8.15		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.	d	
34) MTBE	0.00		0	N.D.	d	
36) 2-butanone	8.88	43	85687	2.121	ppbV	100
37) cis-1,2-dichloroethene	9.39	61	10509	0.373	ppbV	95
38) Ethyl Acetate	9.70	61	4826	0.659	ppbV	65
39) chloroform	9.75		0	N.D.		
40) Tetrahydrofuran	10.20	42	36217	1.442	ppbV	99
42) 1,2-dichloroethane	10.59	62	24653	1.023	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531792.D
 Acq On : 20 Mar 2022 11:43 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-01,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:49:04 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) hexane	9.66	57	8113	0.224	ppbV	#	65
48) 1,1,1-trichloroethane	0.00		0	N.D.			
50) benzene	11.42	78	127873	2.122	ppbV		99
52) carbon tetrachloride	11.59	117	1810	0.083	ppbV	#	92
53) cyclohexane	11.74	56	3882	0.100	ppbV	#	90
56) 1,2-dichloropropane	0.00		0	N.D.	d		
57) bromodichloromethane	0.00		0	N.D.	d		
58) 1,4-dioxane	0.00		0	N.D.			
59) trichloroethene	12.64		0	N.D.			
60) 2,2,4-trimethylpentane	12.70	57	17918M6	0.149	ppbV		
62) heptane	13.02	43	8780	0.221	ppbV		98
63) cis-1,3-dichloropropene	0.00		0	N.D.			
64) 4-methyl-2-pentanone	13.73	43	10532	0.235	ppbV	#	86
65) trans-1,3-dichloropropene	0.00		0	N.D.			
66) 1,1,2-trichloroethane	0.00		0	N.D.			
68) toluene	14.81	91	198194	2.541	ppbV		99
72) 2-hexanone	15.10	43	8244	0.187	ppbV	#	79
74) dibromochloromethane	0.00		0	N.D.			
75) 1,2-dibromoethane	0.00		0	N.D.			
78) tetrachloroethene	15.97	166	2318	0.086	ppbV		95
80) chlorobenzene	16.61		0	N.D.			
81) ethylbenzene	16.96	91	27349	0.296	ppbV		96
83) m+p-xylene	17.11	91	115132	1.534	ppbV		95
84) bromoform	0.00		0	N.D.			
85) styrene	17.43	104	17104	0.321	ppbV		99
86) 1,1,2,2-tetrachloroethane	0.00		0	N.D.	d		
87) o-xylene	17.52	91	29632	0.398	ppbV		97
96) 4-ethyl toluene	18.57		0	N.D.			
97) 1,3,5-trimethylbenzene	18.63		0	N.D.			
99) 1,2,4-trimethylbenzene	18.96	105	16454	0.213	ppbV	#	53
101) Benzyl Chloride	0.00		0	N.D.	d		
102) 1,3-dichlorobenzene	0.00		0	N.D.	d		
103) 1,4-dichlorobenzene	19.14	146	3945	0.076	ppbV		95
107) 1,2-dichlorobenzene	19.41		0	N.D.			
115) 1,2,4-trichlorobenzene	0.00		0	N.D.			
119) hexachlorobutadiene	0.00		0	N.D.			

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531792.D
 Acq On : 20 Mar 2022 11:43 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-01,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:49:04 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY - .

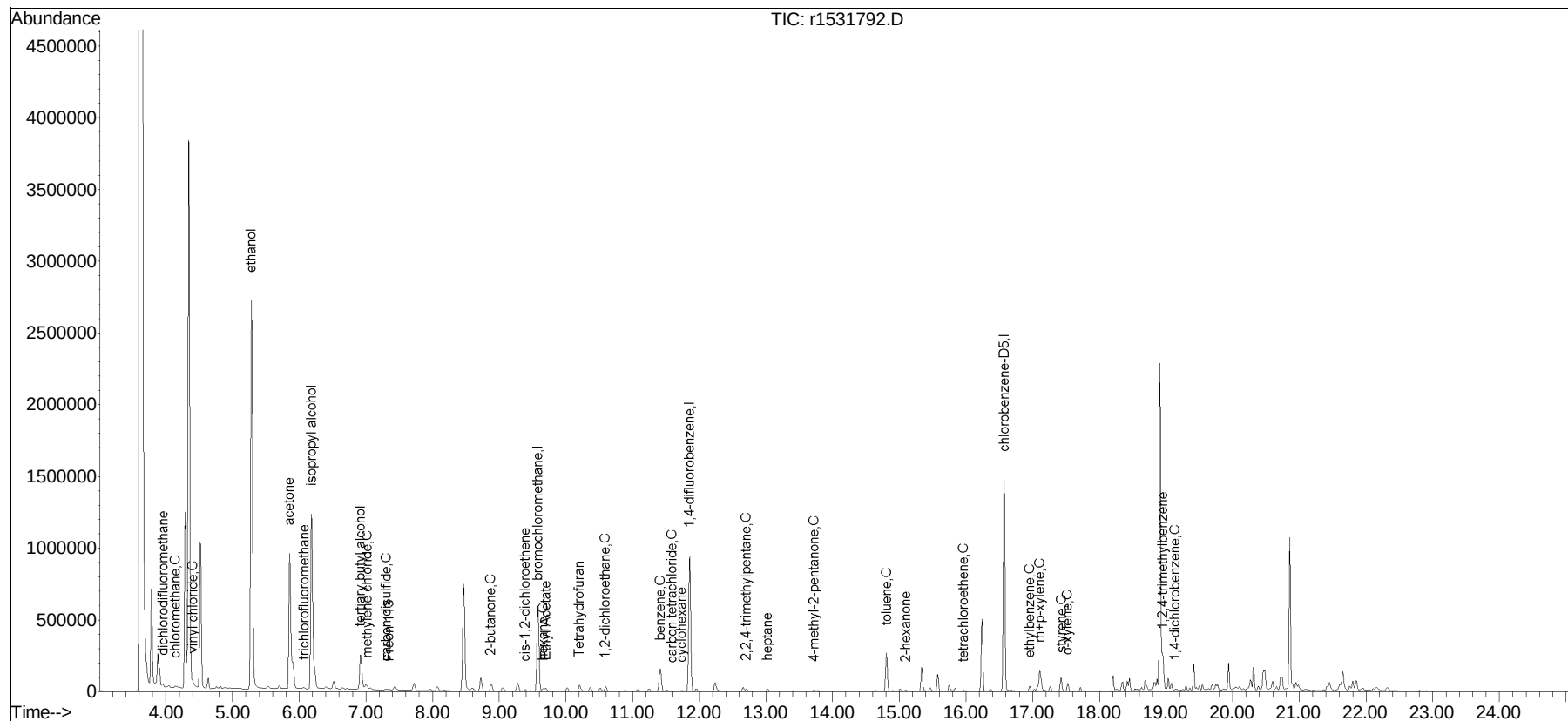
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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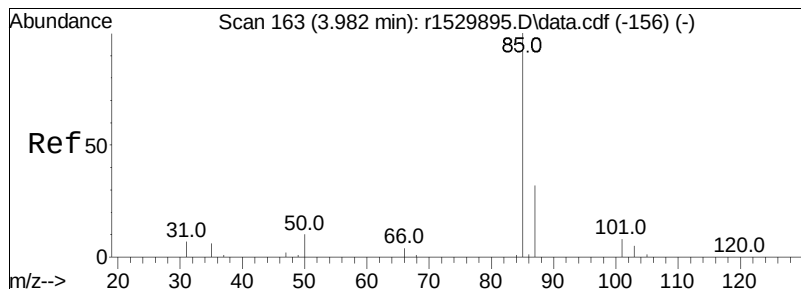
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AirLab15\2022\03\0320T\
 Data File : r1531792.D
 Acq On : 20 Mar 2022 11:43 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-01,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:49:04 2022
 Quant Method : 0:\Forensics\Data\AirLab15\2022\03\0320T\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

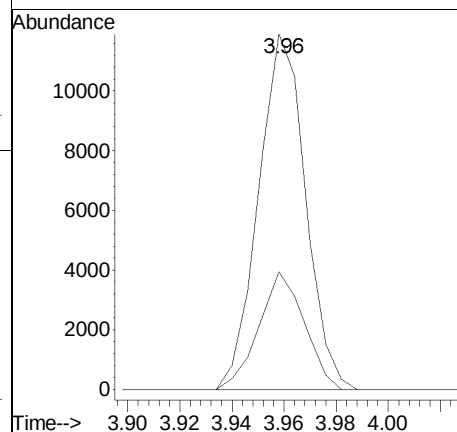
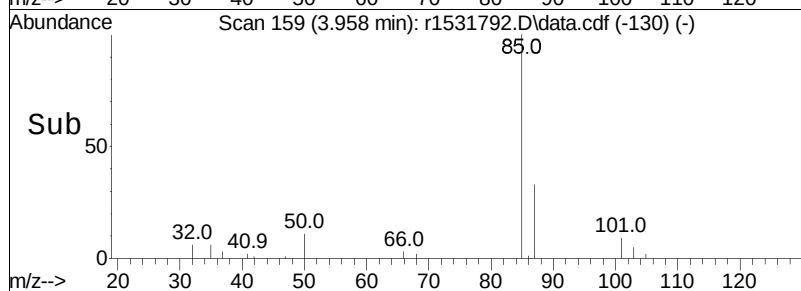
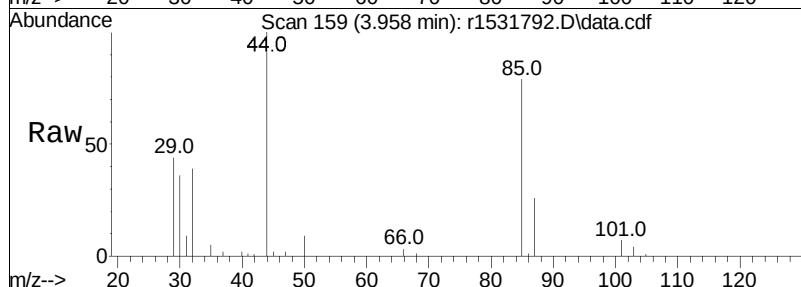
Sub List : T015-NY - .s\Data\AirLab15\2022\03\0320T\r1531778.D

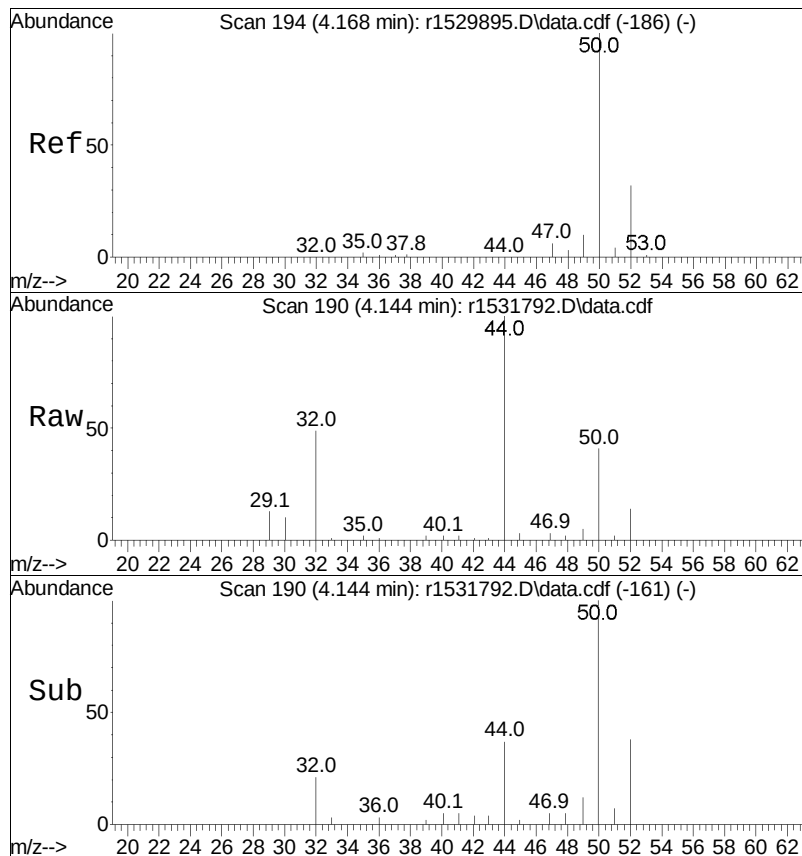




#5
dichlorodifluoromethane
Concen: 0.51 ppbV
RT: 3.96 min Scan# 159
Delta R.T. -0.024 min
Lab File: r1531792.D
Acq: 20 Mar 2022 11:43 PM

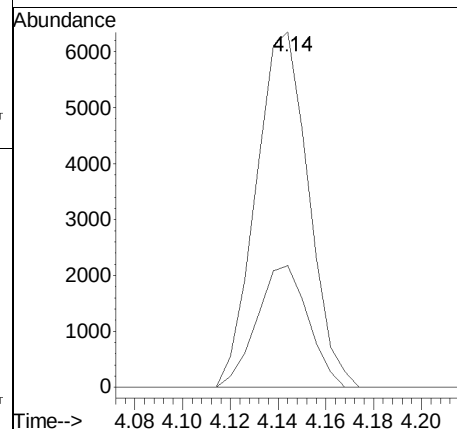
Tgt Ion: 85 Resp: 14899
Ion Ratio Lower Upper
85 100
87 33.1 25.6 38.4

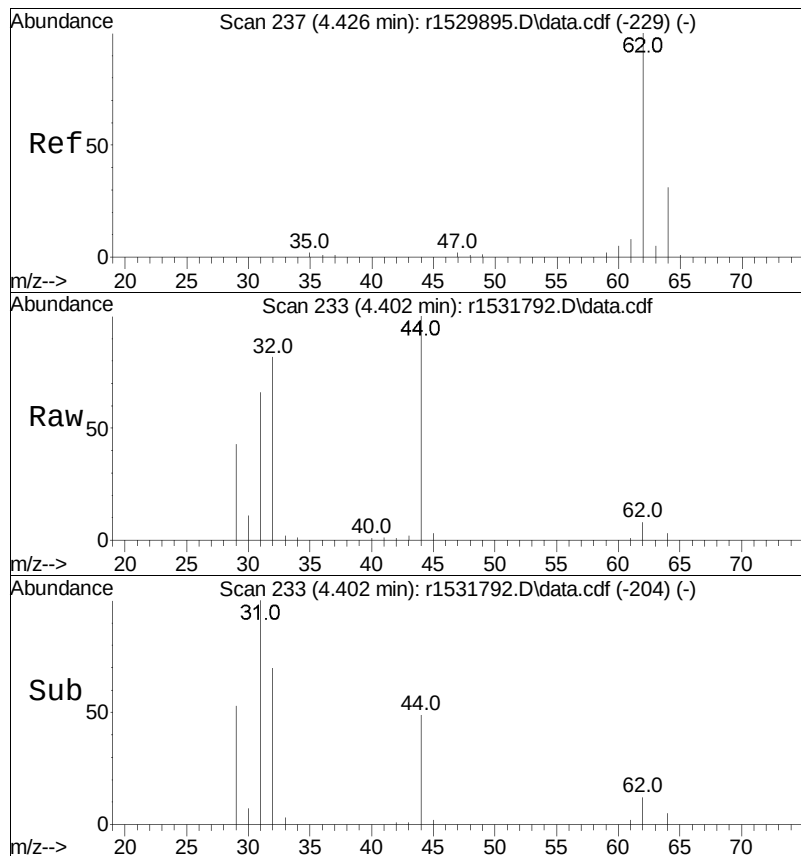




#6
 chloromethane
 Concen: 0.66 ppbV
 RT: 4.14 min Scan# 190
 Delta R.T. -0.024 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

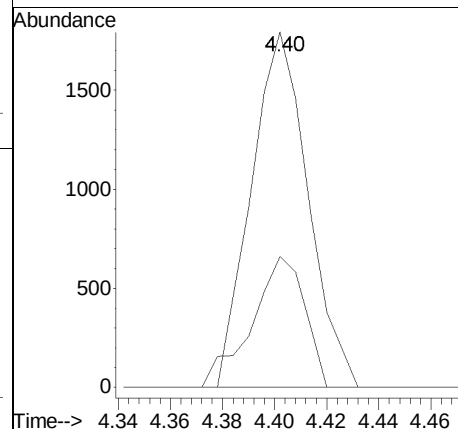
Tgt	Ion	Ratio	Lower	Upper
50	100			
52	34.3	25.9	38.9	

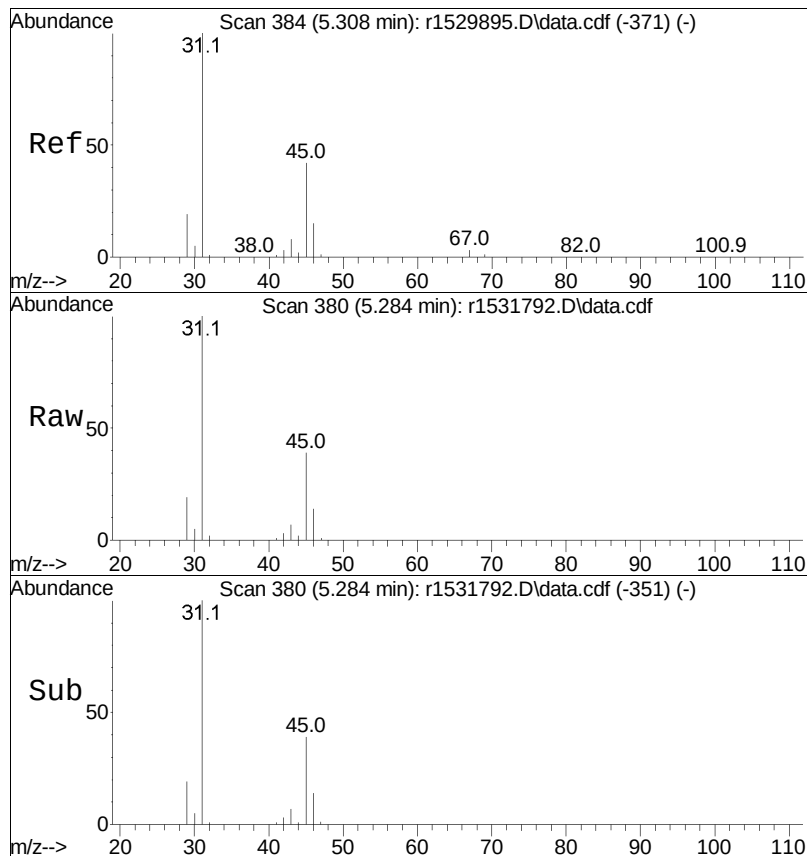




#9
 vinyl chloride
 Concen: 0.14 ppbV
 RT: 4.40 min Scan# 233
 Delta R.T. -0.024 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

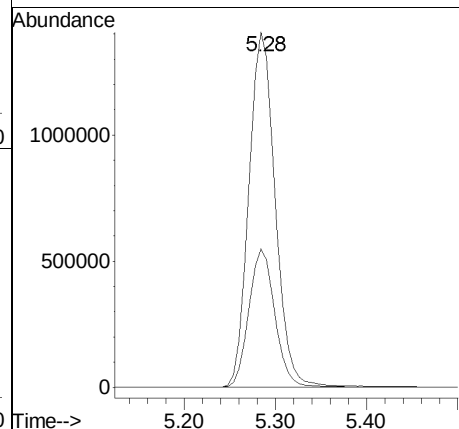
Tgt	Ion	Ratio	Lower	Upper
62	100			
64	36.8	25.1	37.7	

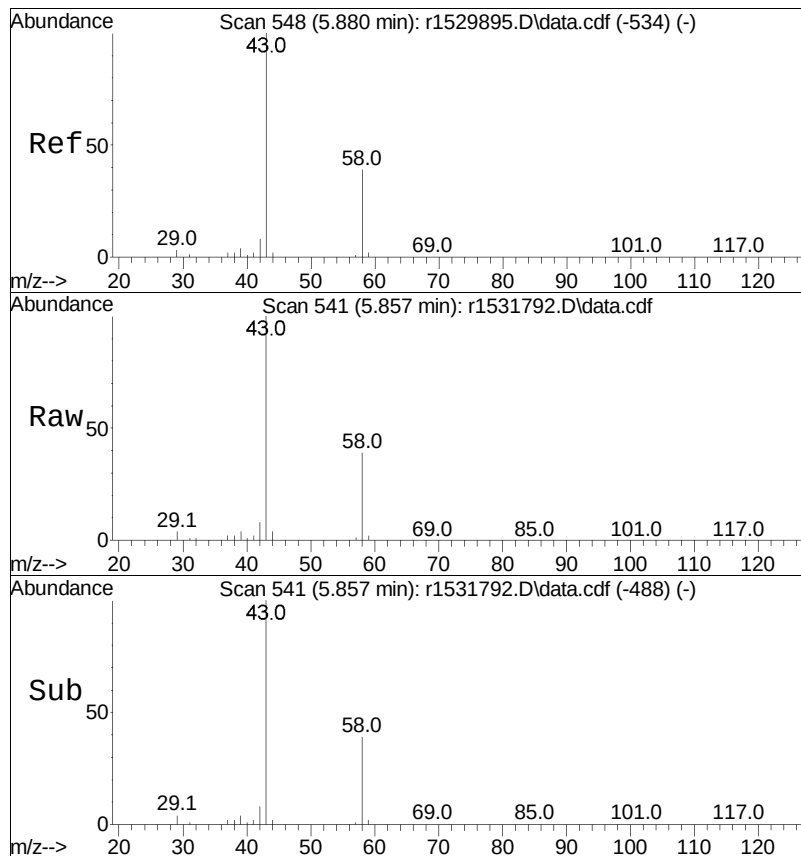




#15
ethanol
Concen: 212.35 ppbV
RT: 5.28 min Scan# 380
Delta R.T. -0.024 min
Lab File: r1531792.D
Acq: 20 Mar 2022 11:43 PM

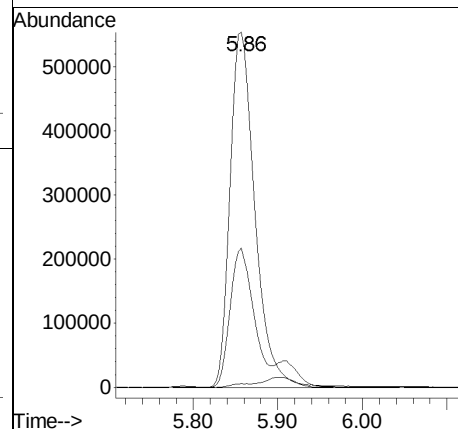
Tgt	Ion	Ratio	Lower	Upper
31	100			
45	39.0	33.4	50.2	

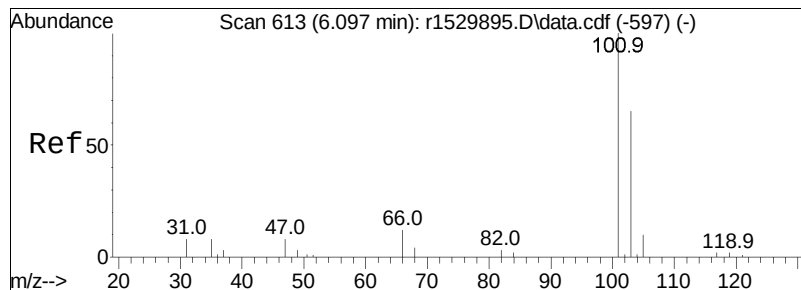




#19
 acetone
 Concen: 50.34 ppbV
 RT: 5.86 min Scan# 541
 Delta R.T. -0.023 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

Tgt Ion:	43	Resp:	1139120
Ion Ratio	Lower	Upper	
43	100		
58	39.2	31.6	47.4
57	1.1	0.8	1.2





#21

trichlorofluoromethane

Concen: 0.24 ppbV

RT: 6.07 min Scan# 606

Delta R.T. -0.023 min

Lab File: r1531792.D

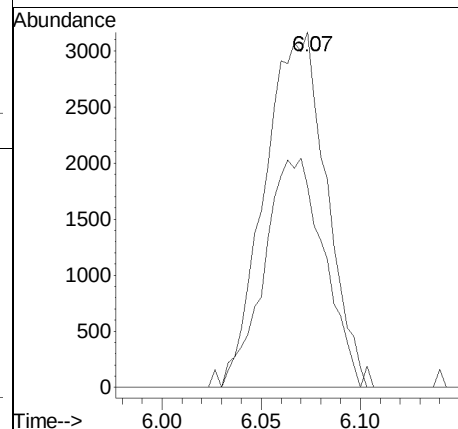
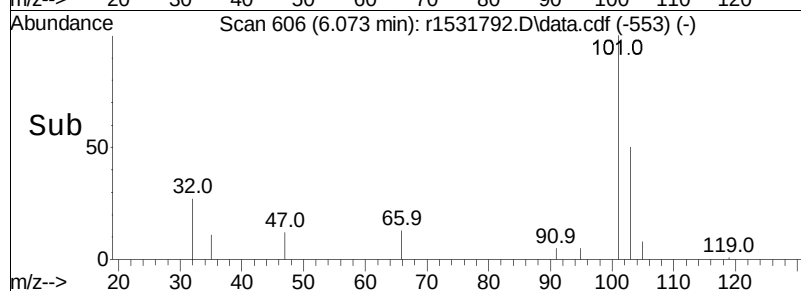
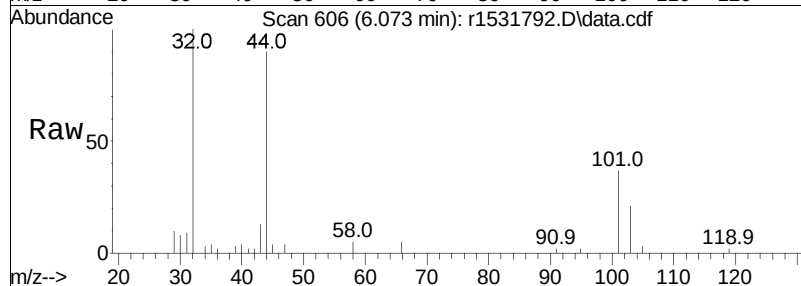
Acq: 20 Mar 2022 11:43 PM

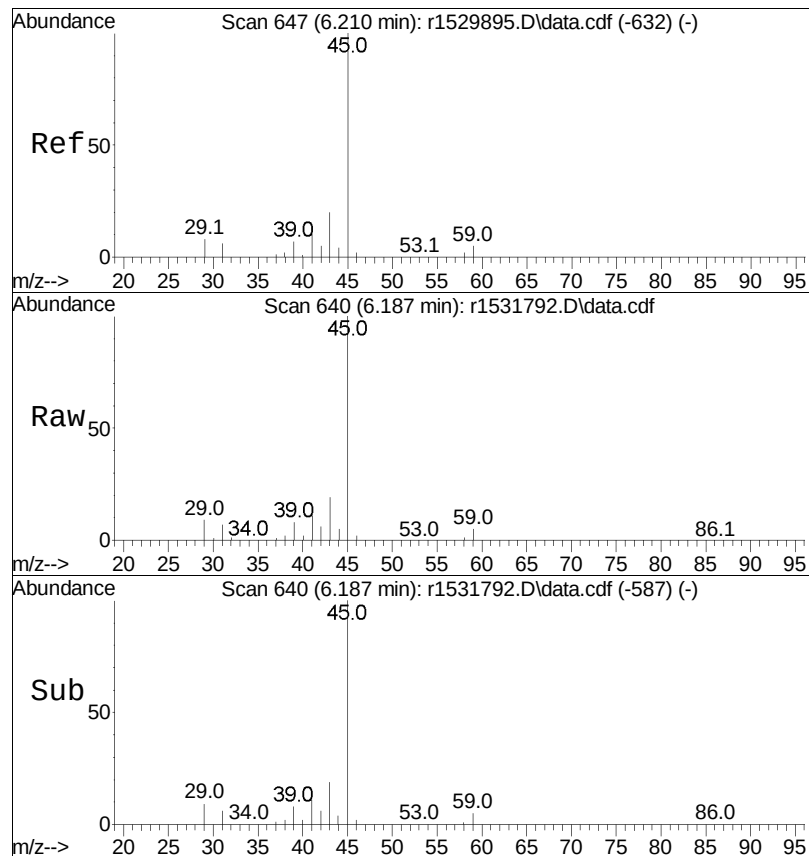
Tgt Ion:101 Resp: 6868

Ion Ratio Lower Upper

101 100

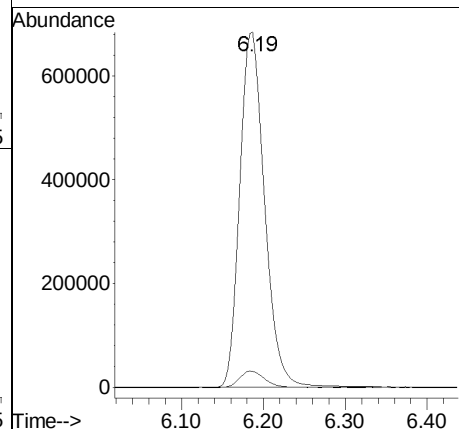
103 56.5 52.0 78.0

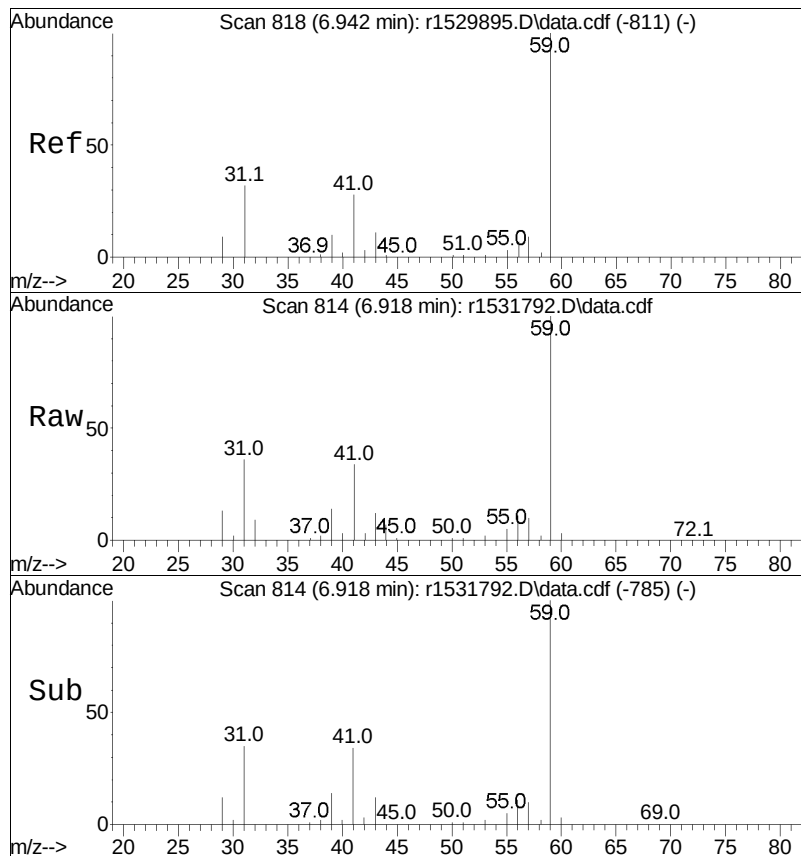




#22
 isopropyl alcohol
 Concen: 58.95 ppbV
 RT: 6.19 min Scan# 640
 Delta R.T. -0.023 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

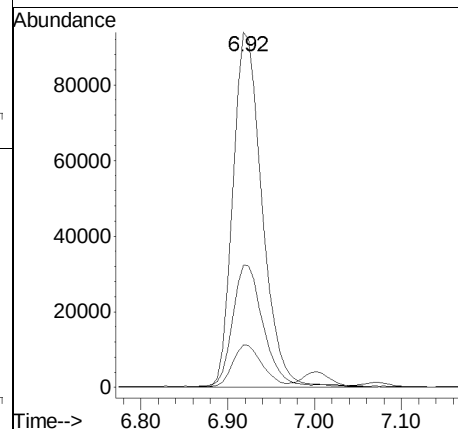
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.5	3.8	5.8

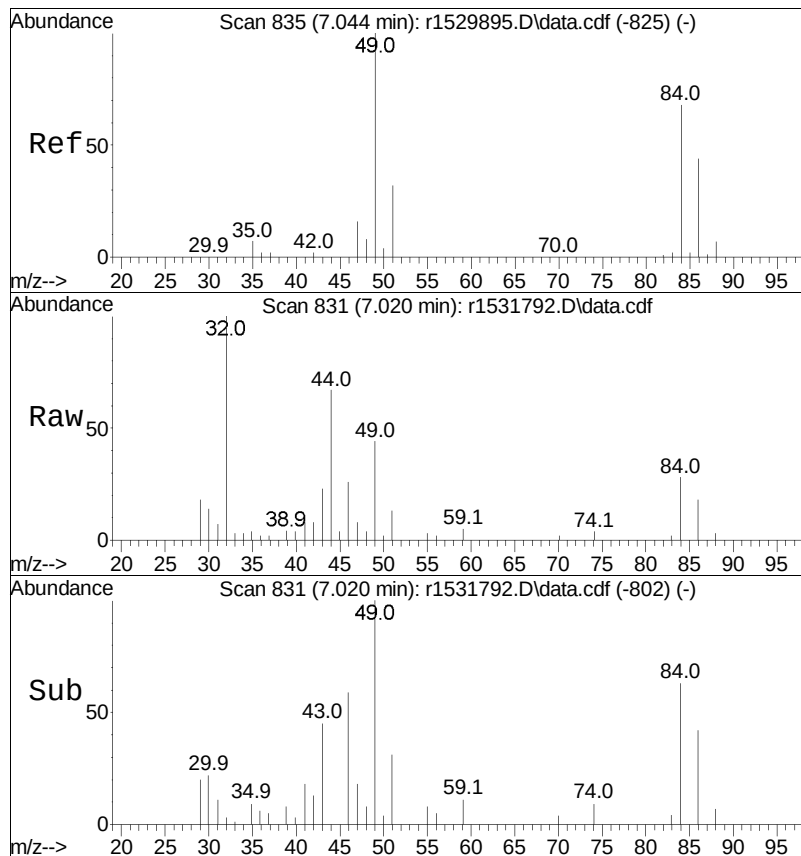




#27
 tertiary butyl alcohol
 Concen: 6.94 ppbV
 RT: 6.92 min Scan# 814
 Delta R.T. -0.024 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

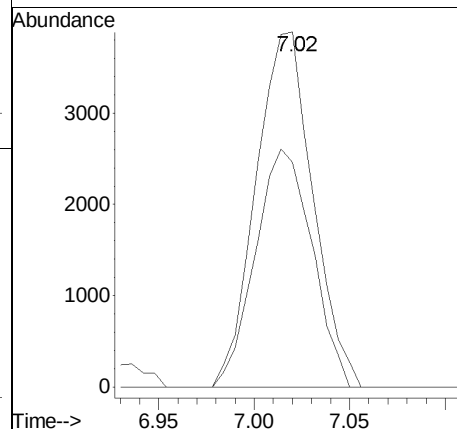
Tgt Ion:	59	Resp:	219440
Ion Ratio	Lower	Upper	
59	100		
41	34.5	22.2	33.4#
43	12.0	8.9	13.3

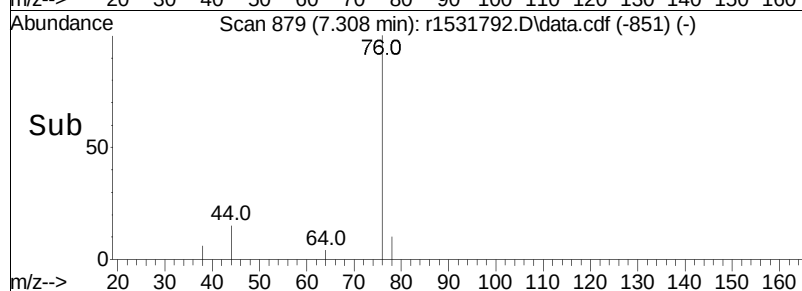
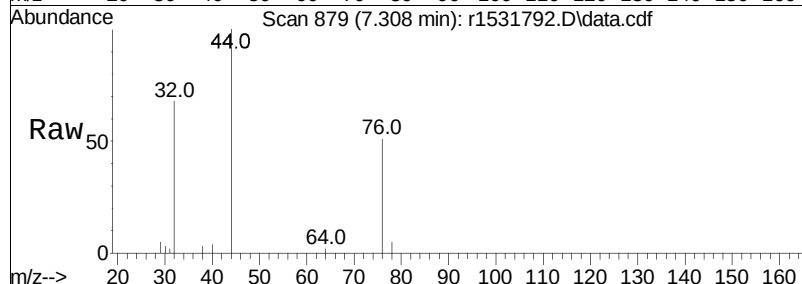
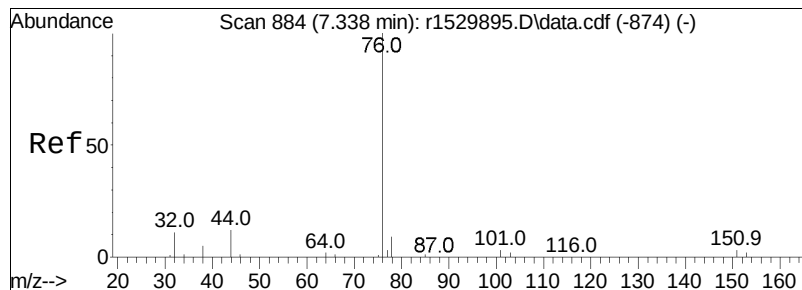




#28
 methylene chloride
 Concen: 0.43 ppbV
 RT: 7.02 min Scan# 831
 Delta R.T. -0.024 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

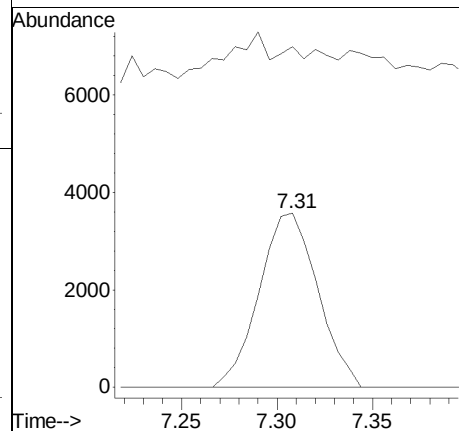
Tgt Ion:	49	84	Ratio	100	63.3	Resp:	8070	Lower	Upper
								54.5	81.7

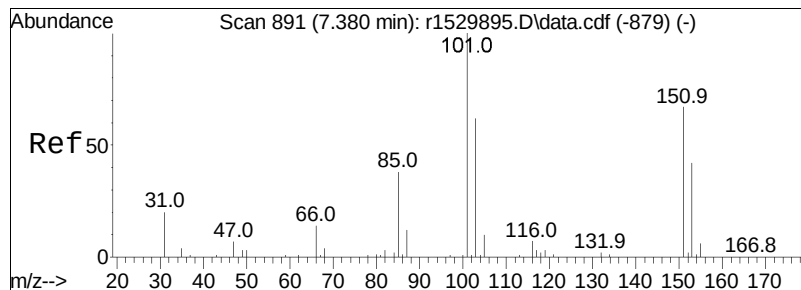




#30
carbon disulfide
Concen: 0.20 ppbV
RT: 7.31 min Scan# 879
Delta R.T. -0.030 min
Lab File: r1531792.D
Acq: 20 Mar 2022 11:43 PM

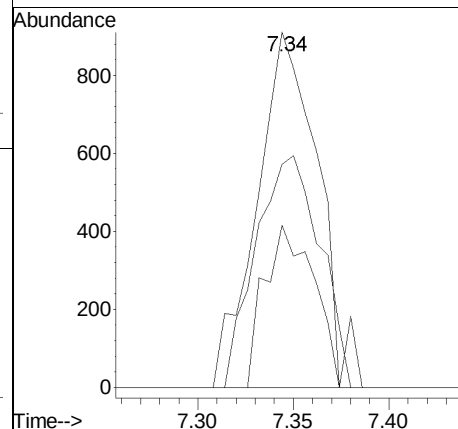
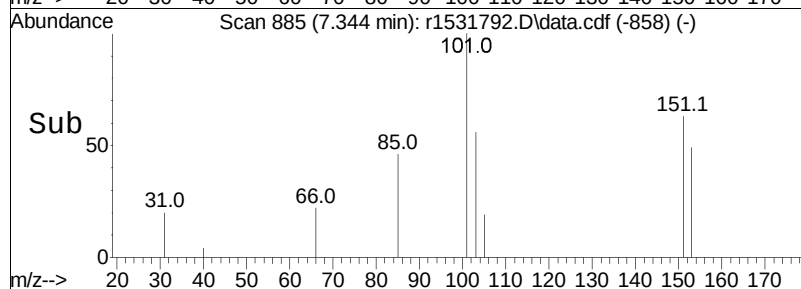
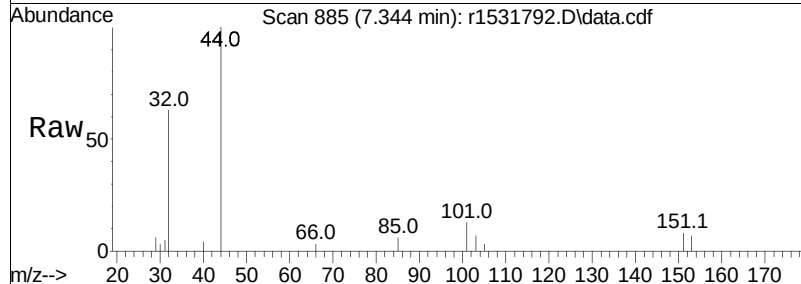
Tgt	Ion	Resp	Lower	Upper
76	100			
44	195.4	10.1	15.1	

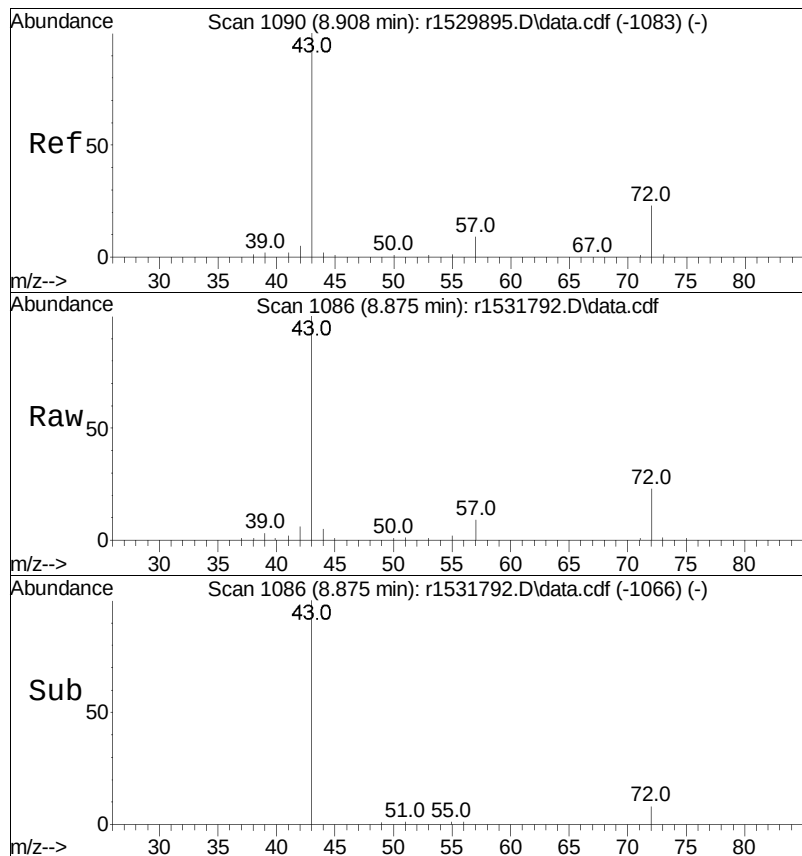




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 7.34 min Scan# 885
 Delta R.T. -0.036 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

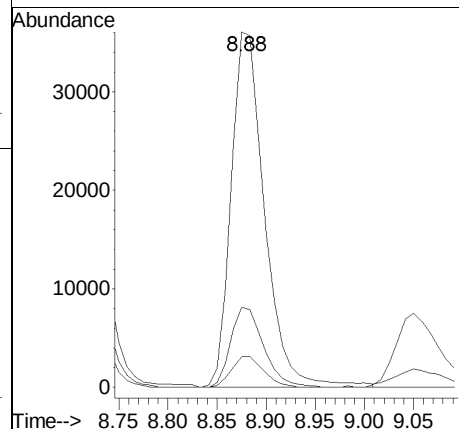
Tgt	Ion:101	Resp:	2018
Ion	Ratio	Lower	Upper
101	100		
85	45.7	30.6	46.0
151	62.8	53.5	80.3

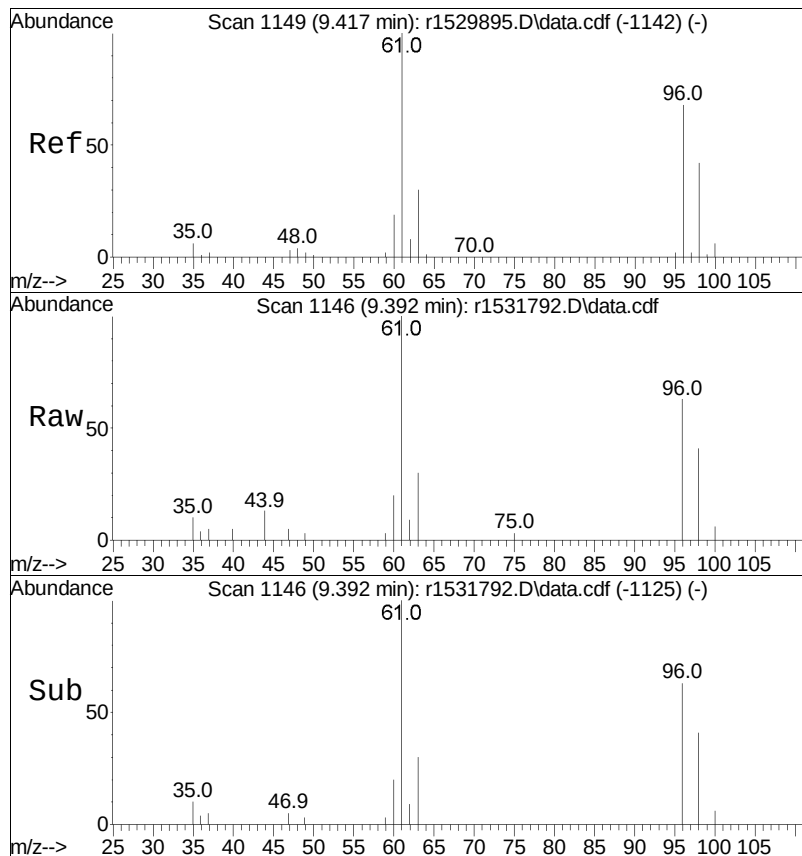




#36
 2-butanone
 Concen: 2.12 ppbV
 RT: 8.88 min Scan# 1086
 Delta R.T. -0.033 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

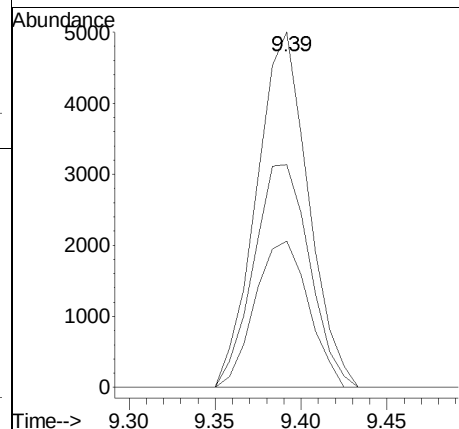
Tgt Ion:	43	Resp:	85687
Ion Ratio	Lower	Upper	
43	100		
72	22.6	18.0	27.0
57	8.6	7.0	10.4

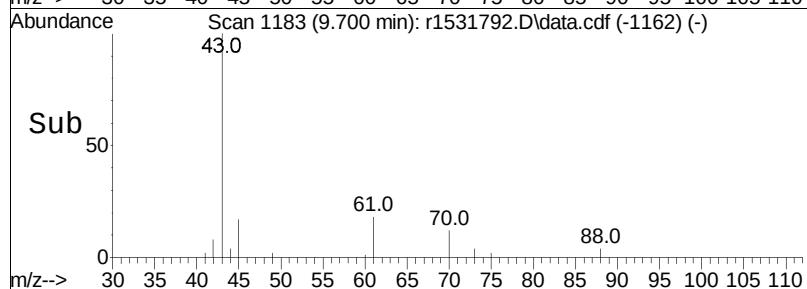
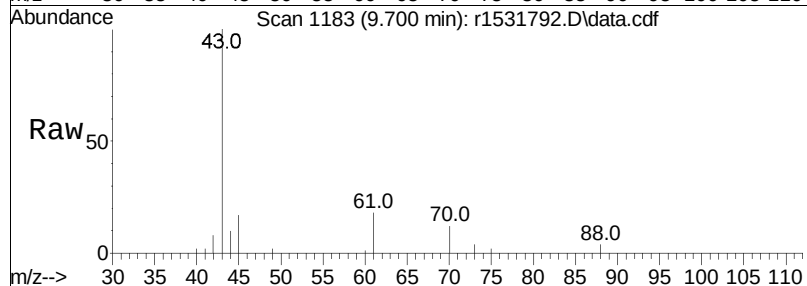
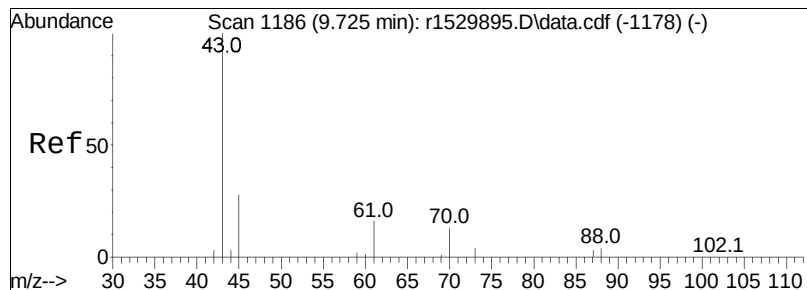




#37
 cis-1,2-dichloroethene
 Concen: 0.37 ppbV
 RT: 9.39 min Scan# 1146
 Delta R.T. -0.025 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

Tgt Ion:	61	Resp:	10509
Ion Ratio	Lower	Upper	
61	100		
96	62.7	54.2	81.2
98	41.2	33.9	50.9





#38

Ethyl Acetate

Concen: 0.66 ppbV

RT: 9.70 min Scan# 1183

Delta R.T. -0.025 min

Lab File: r1531792.D

Acq: 20 Mar 2022 11:43 PM

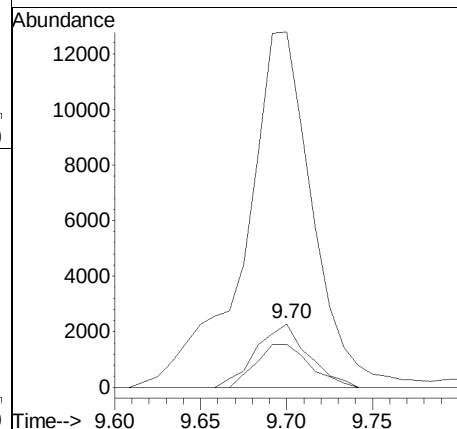
Tgt Ion: 61 Resp: 4826

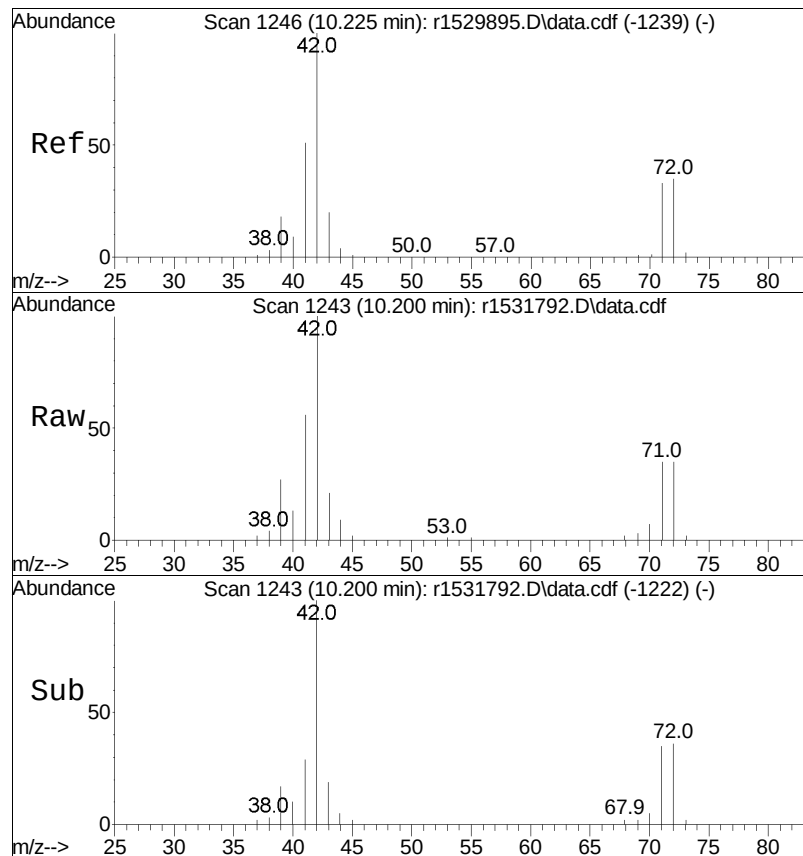
Ion Ratio Lower Upper

61 100

70 67.8 62.7 94.1

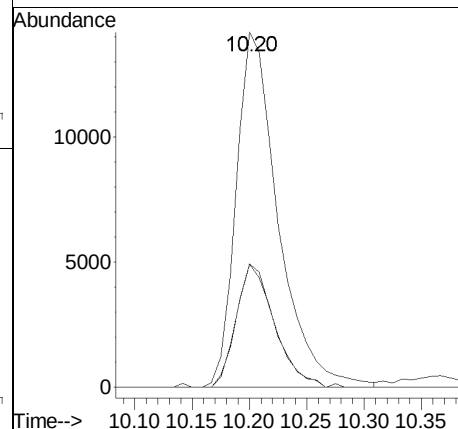
43 560.8 551.8 827.8

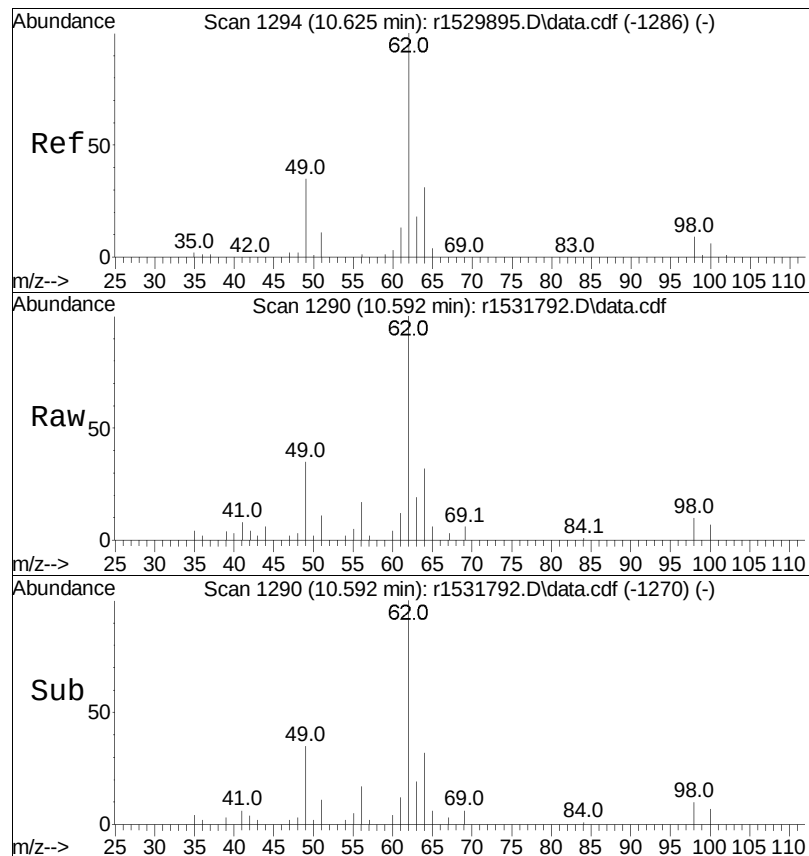




#40
 Tetrahydrofuran
 Concen: 1.44 ppbV
 RT: 10.20 min Scan# 1243
 Delta R.T. -0.025 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

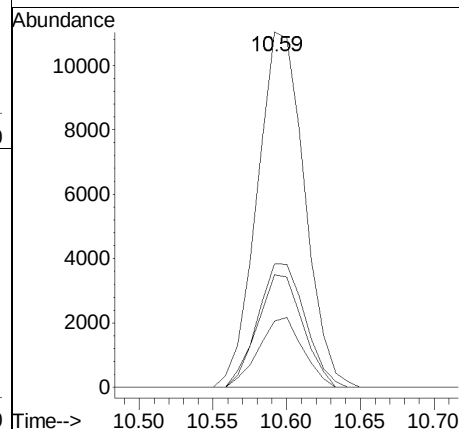
Tgt Ion	Ratio	Lower	Upper
42	100		
71	34.6	26.8	40.2
72	34.8	27.7	41.5

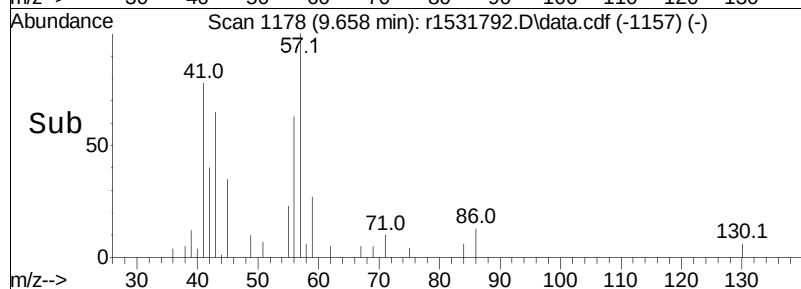
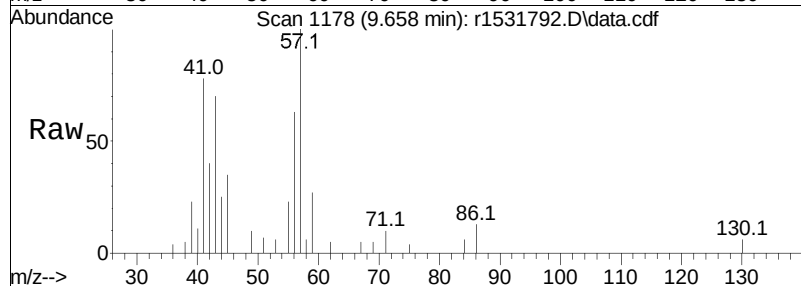
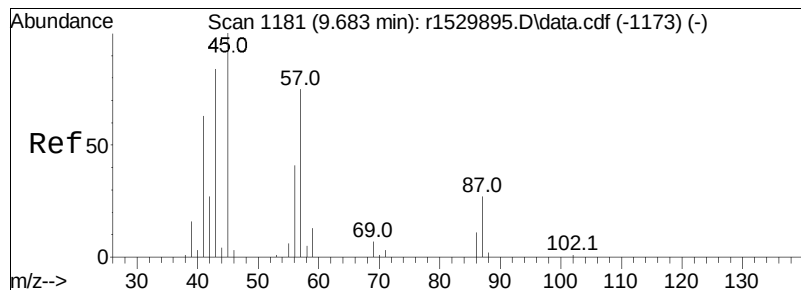




#42
 1,2-dichloroethane
 Concen: 1.02 ppbV
 RT: 10.59 min Scan# 1290
 Delta R.T. -0.033 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

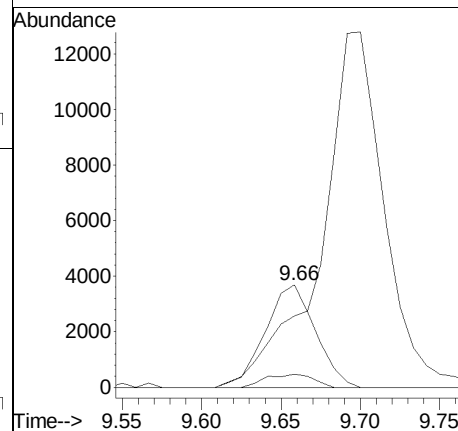
Tgt	Ion: 62	Resp:	24653
Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.0	37.4
49	34.7	27.8	41.8
63	18.7	14.4	21.6

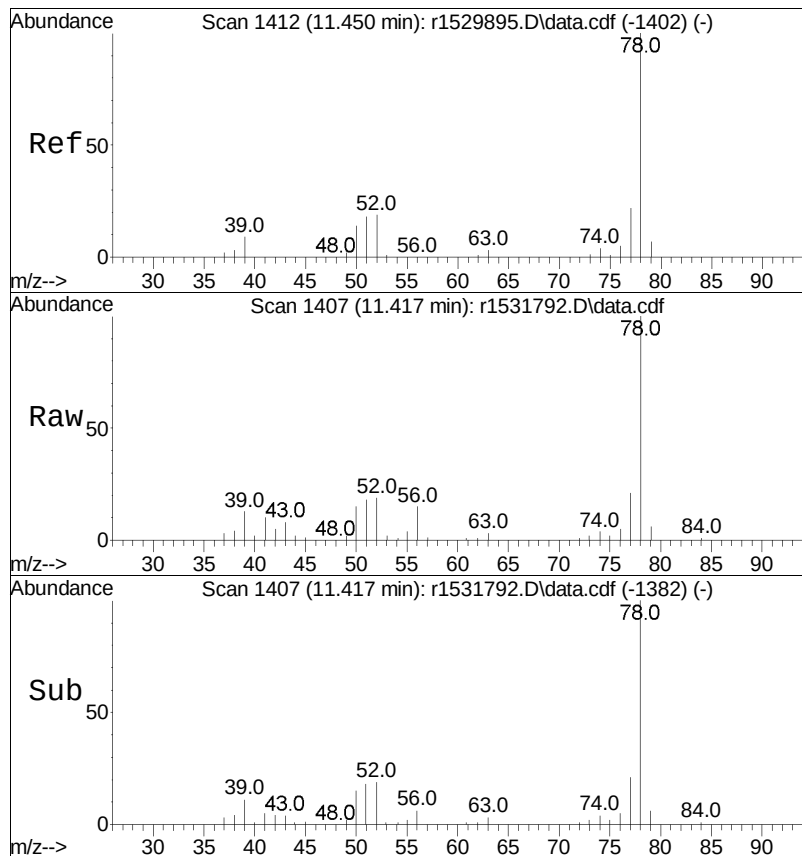




#44
hexane
Concen: 0.22 ppbV
RT: 9.66 min Scan# 1178
Delta R.T. -0.025 min
Lab File: r1531792.D
Acq: 20 Mar 2022 11:43 PM

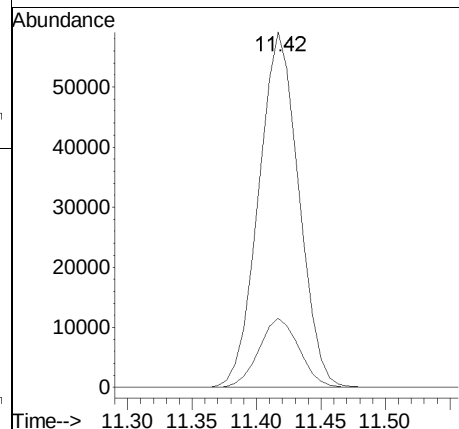
Tgt Ion	Ratio	Lower	Upper
57	100		
43	69.7	88.8	133.2#
86	13.0	11.4	17.0

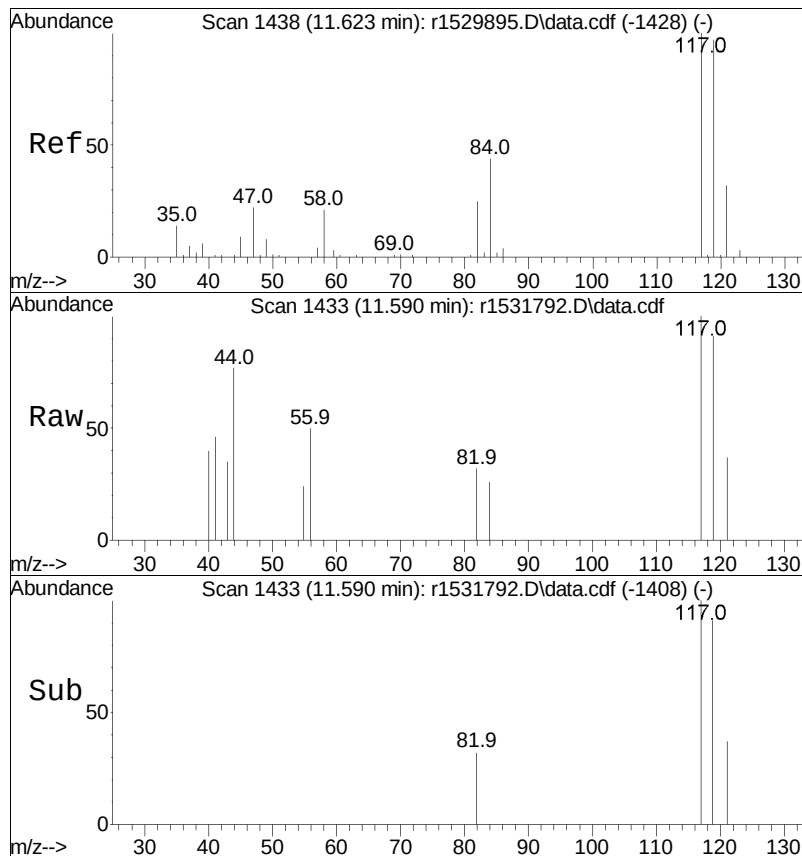




#50
benzene
Concen: 2.12 ppbV
RT: 11.42 min Scan# 1407
Delta R.T. -0.033 min
Lab File: r1531792.D
Acq: 20 Mar 2022 11:43 PM

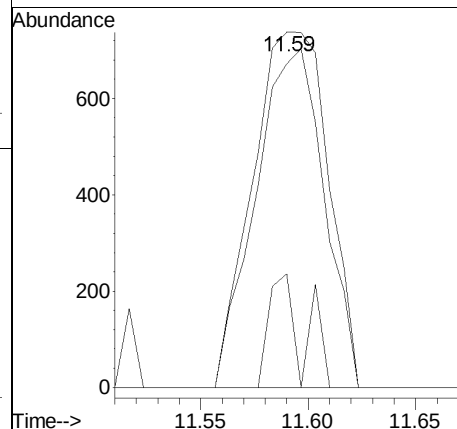
Tgt Ion	Ratio	Lower	Upper
78	100		
52	19.5	15.2	22.8

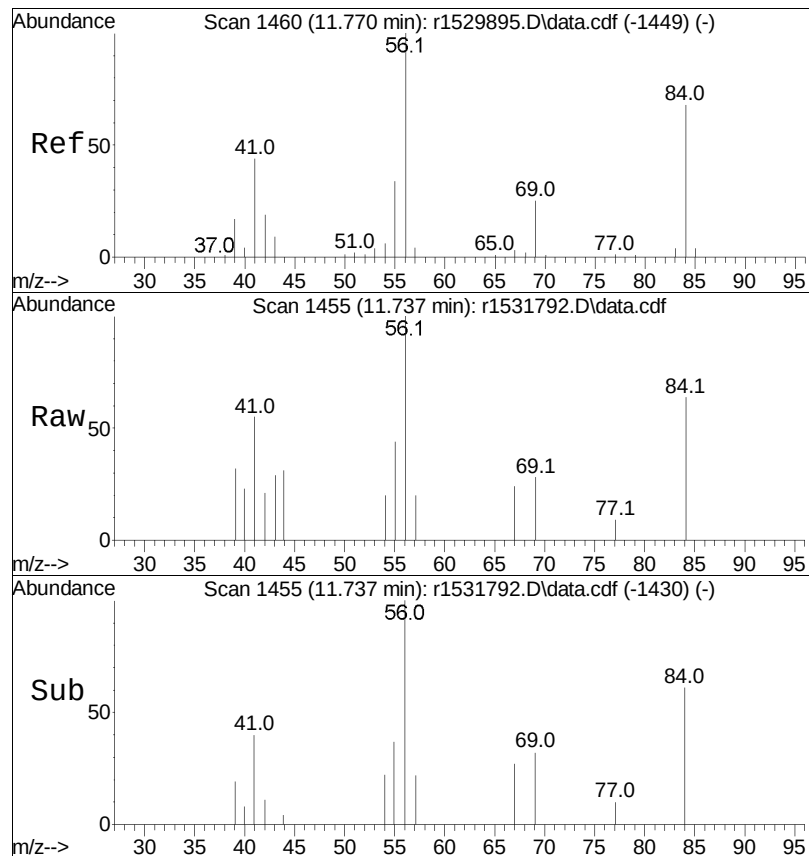




#52
 carbon tetrachloride
 Concen: 0.08 ppbV
 RT: 11.59 min Scan# 1433
 Delta R.T. -0.033 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

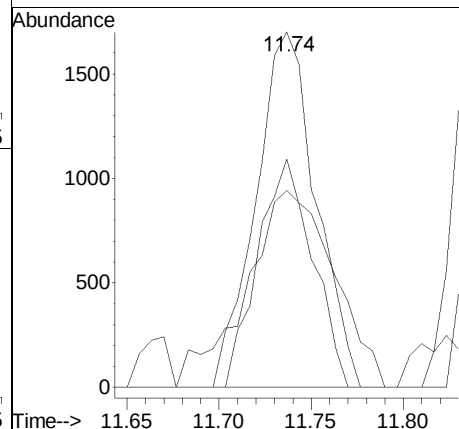
Tgt Ion:	117	Resp:	1810
Ion Ratio	Lower	Upper	
117	100		
119	91.1	77.5	116.3
82	32.0	20.0	30.0#

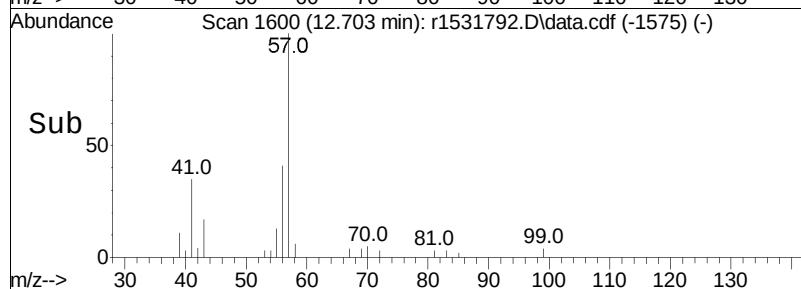
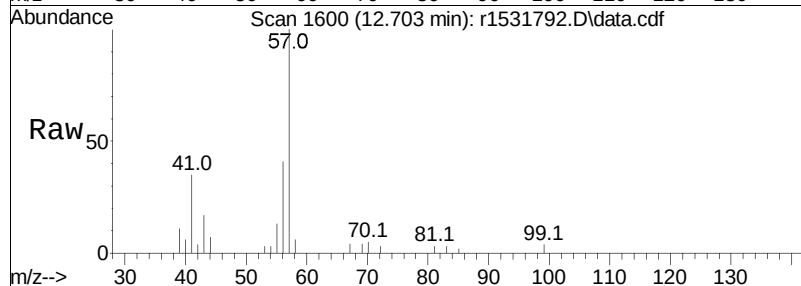
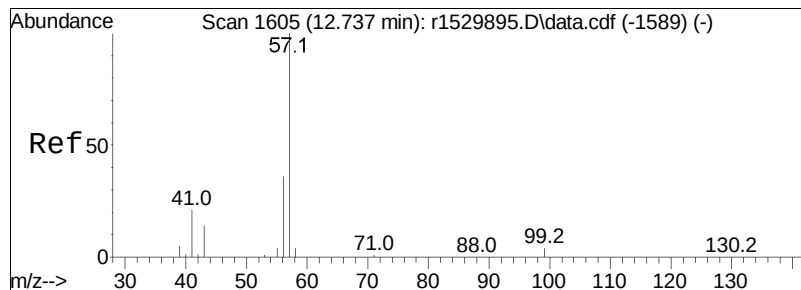




#53
cyclohexane
Concen: 0.10 ppbV
RT: 11.74 min Scan# 1455
Delta R.T. -0.033 min
Lab File: r1531792.D
Acq: 20 Mar 2022 11:43 PM

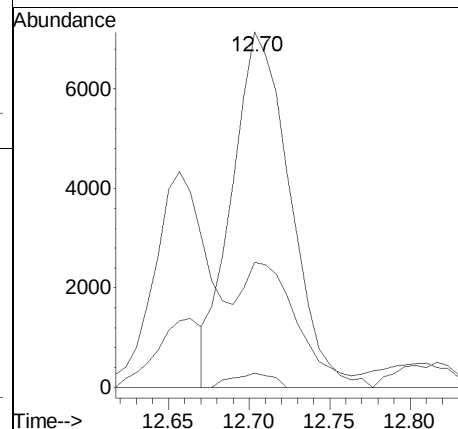
Tgt Ion	Ratio	Lower	Upper
56	100		
84	64.2	54.8	82.2
41	55.5	35.5	53.3

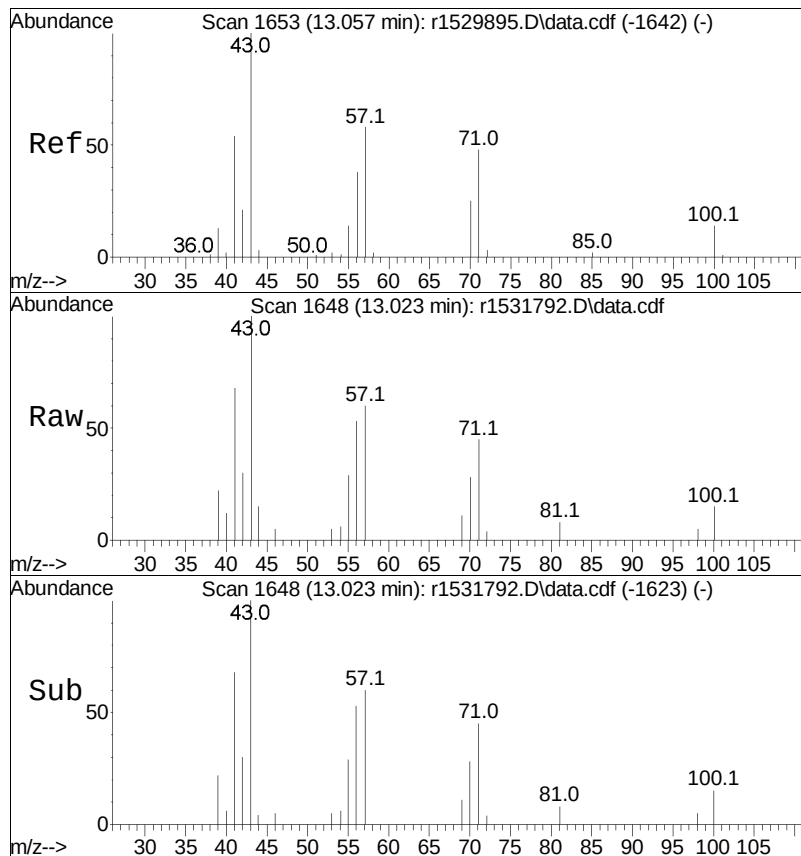




#60
 2,2,4-trimethylpentane
 Concen: 0.15 ppbV m
 RT: 12.70 min Scan# 1600
 Delta R.T. -0.033 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

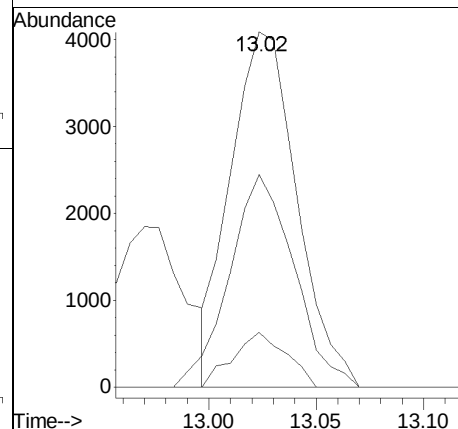
Tgt Ion	Ratio	Lower	Upper
57	100		
99	4.0	3.1	4.7
41	35.2	16.6	24.8

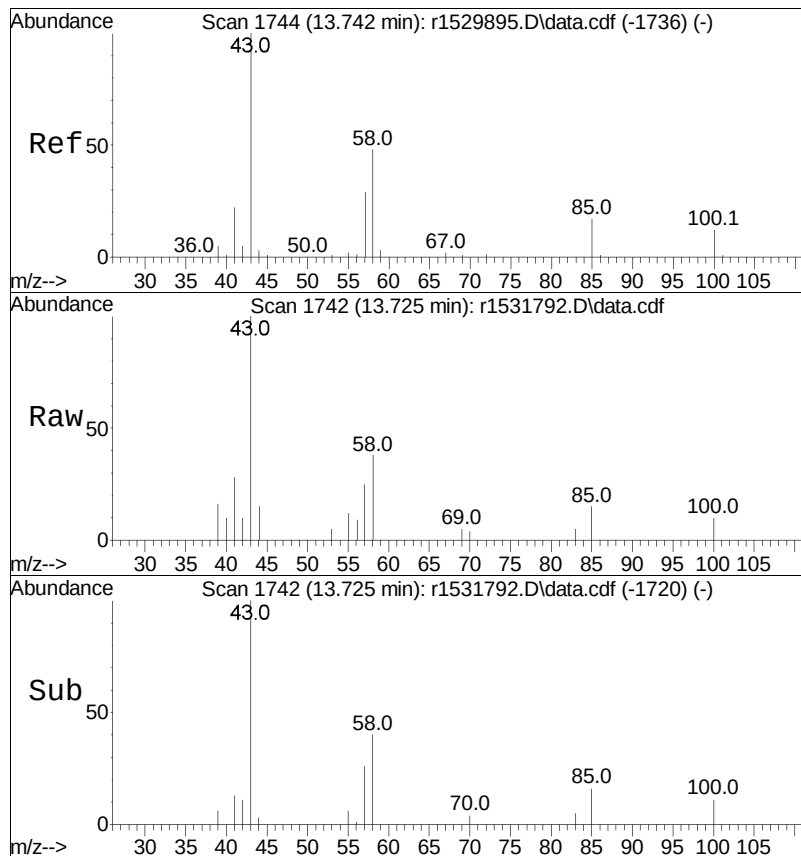




#62
 heptane
 Concen: 0.22 ppbV
 RT: 13.02 min Scan# 1648
 Delta R.T. -0.033 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

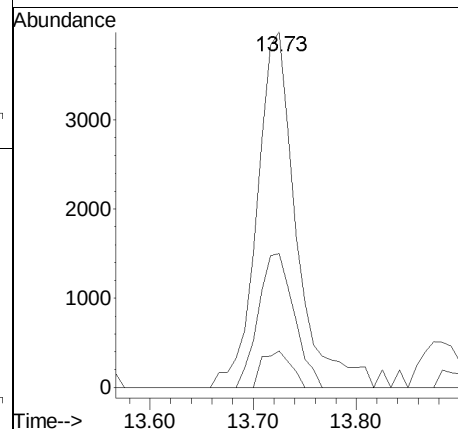
Tgt Ion:	43	Resp:	8780
Ion Ratio	Lower	Upper	
43	100		
57	59.8	46.5	69.7
100	15.5	11.6	17.4

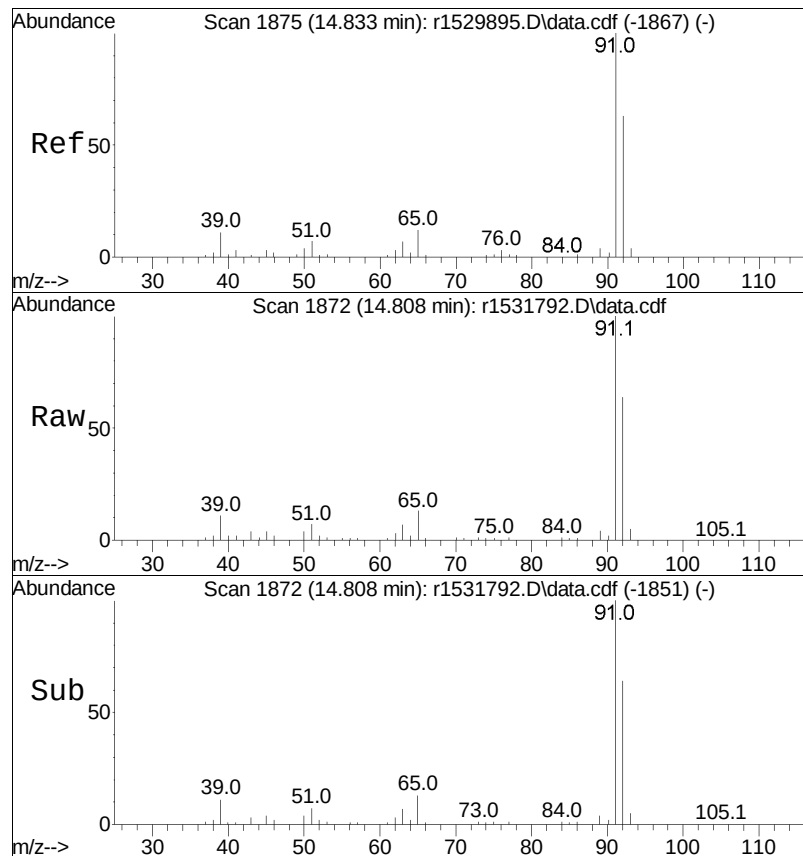




#64
 4-methyl-2-pentanone
 Concen: 0.24 ppbV
 RT: 13.73 min Scan# 1742
 Delta R.T. -0.017 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

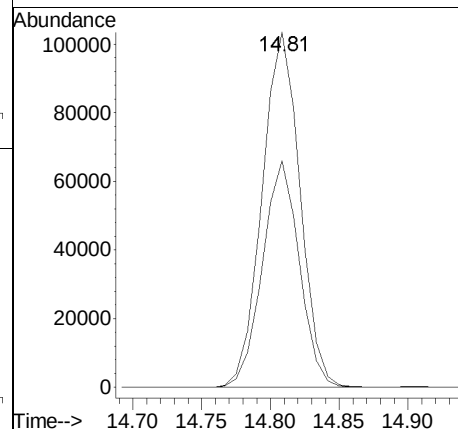
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	37.7	38.6	58.0#	
100	10.3	9.9	14.9	

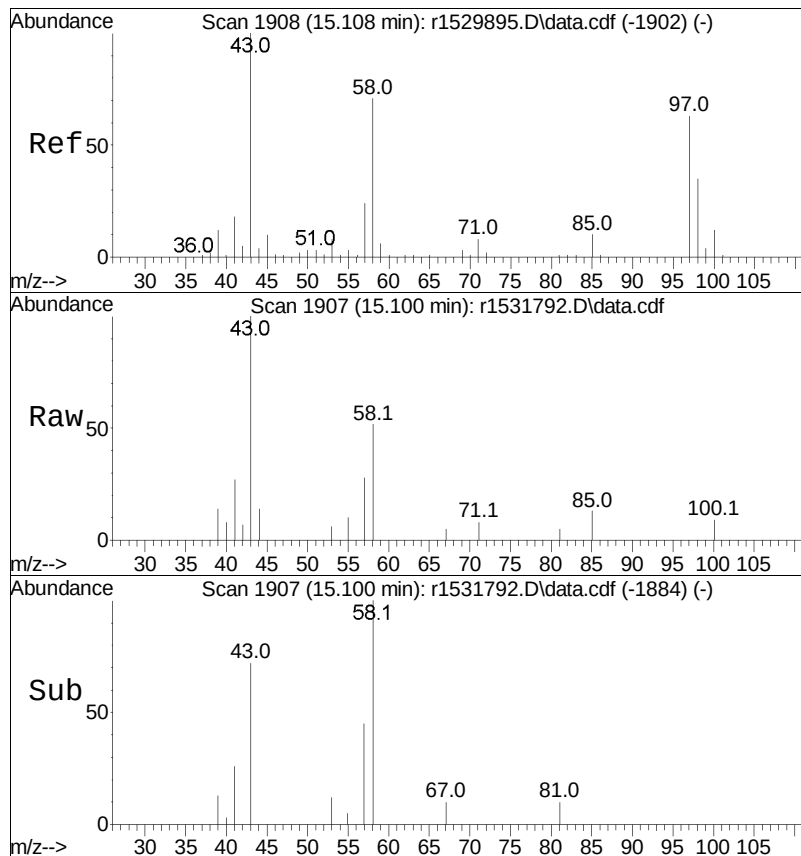




#68
toluene
Concen: 2.54 ppbV
RT: 14.81 min Scan# 1872
Delta R.T. -0.025 min
Lab File: r1531792.D
Acq: 20 Mar 2022 11:43 PM

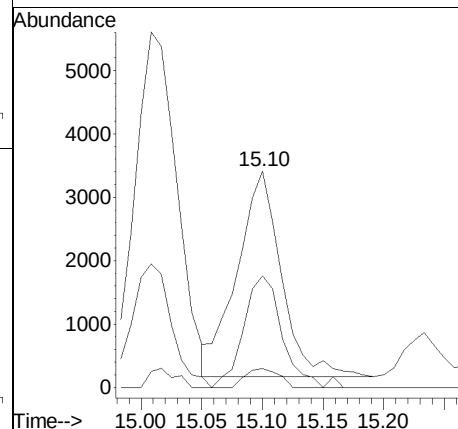
Tgt	Ion	Ratio	Lower	Upper
91	100			
92	63.8	50.3	75.5	

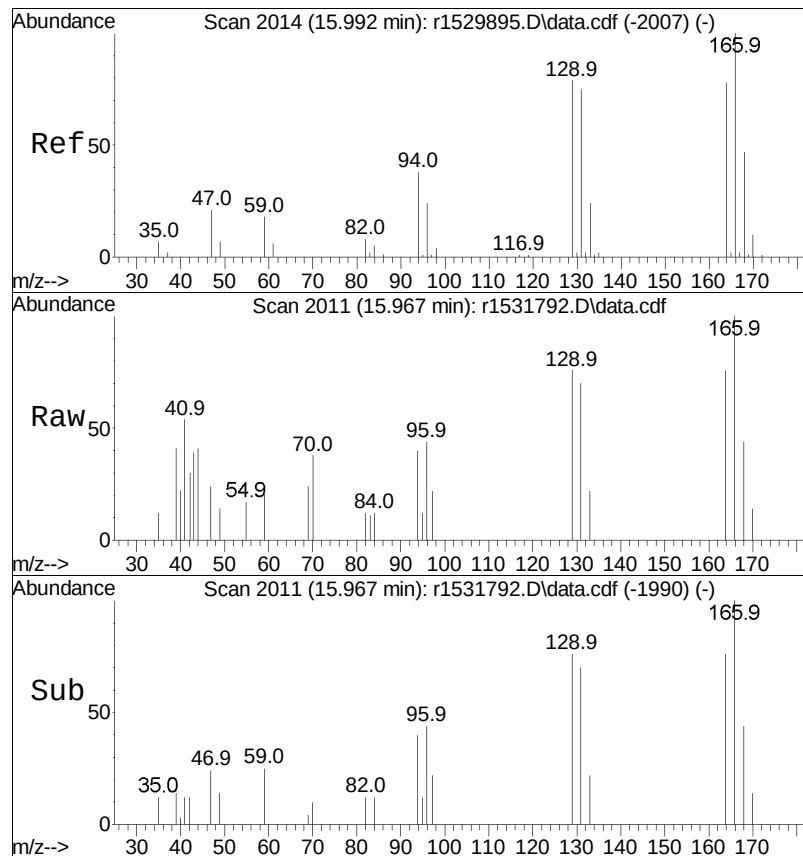




#72
 2-hexanone
 Concen: 0.19 ppbV
 RT: 15.10 min Scan# 1907
 Delta R.T. -0.008 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

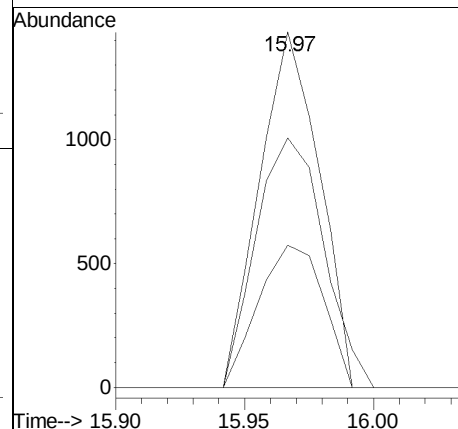
Tgt Ion	Ratio	Lower	Upper
43	100		
58	51.6	56.6	85.0#
100	8.7	9.8	14.6#

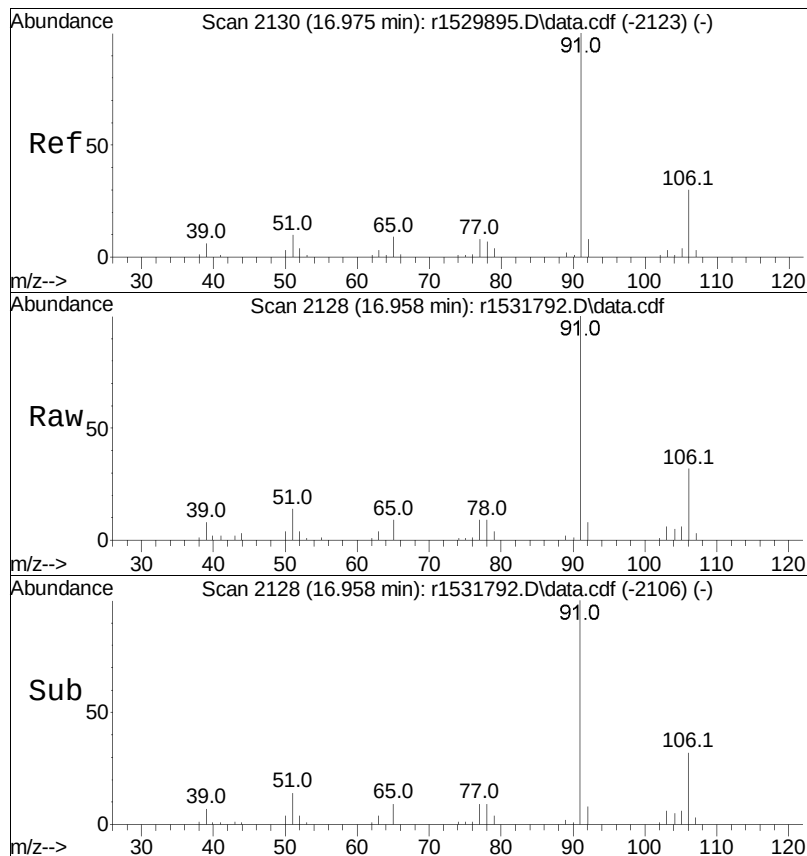




#78
 tetrachloroethene
 Concen: 0.09 ppbV
 RT: 15.97 min Scan# 2011
 Delta R.T. -0.025 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

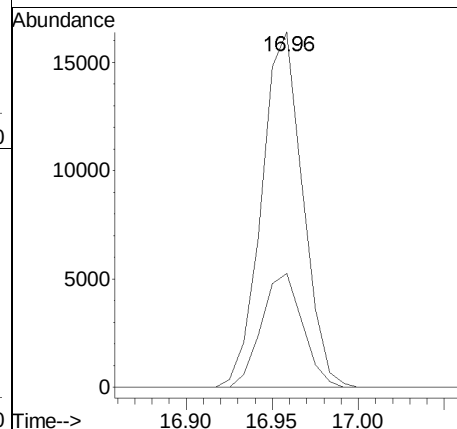
Tgt	Ion:166	Resp:	2318
Ion	Ratio	Lower	Upper
166	100		
131	70.2	59.9	89.9
94	40.0	30.2	45.4

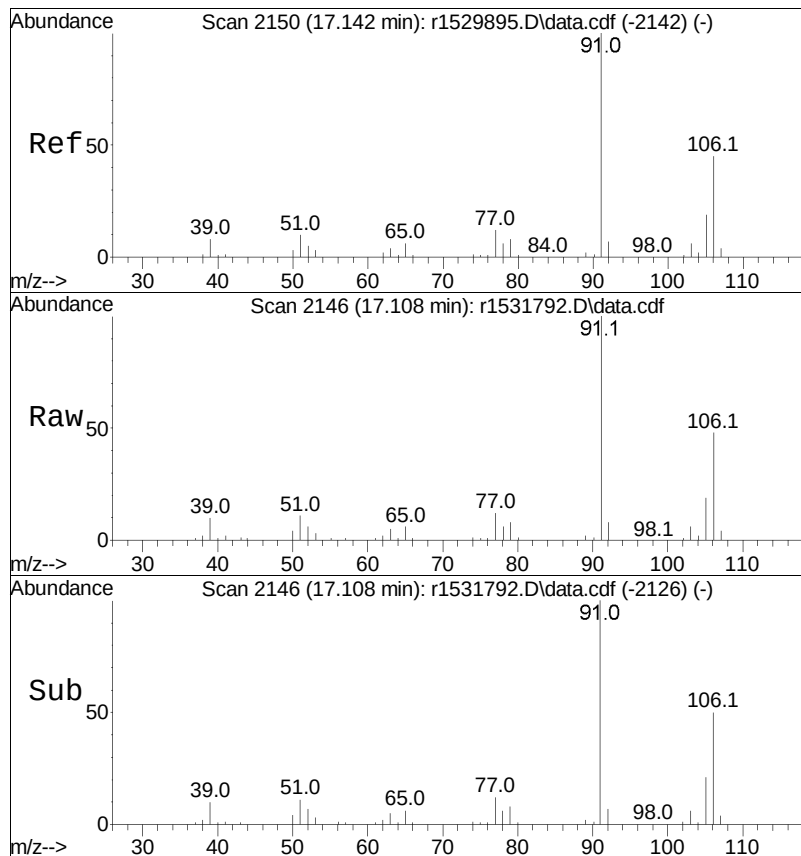




#81
ethylbenzene
Concen: 0.30 ppbV
RT: 16.96 min Scan# 2128
Delta R.T. -0.017 min
Lab File: r1531792.D
Acq: 20 Mar 2022 11:43 PM

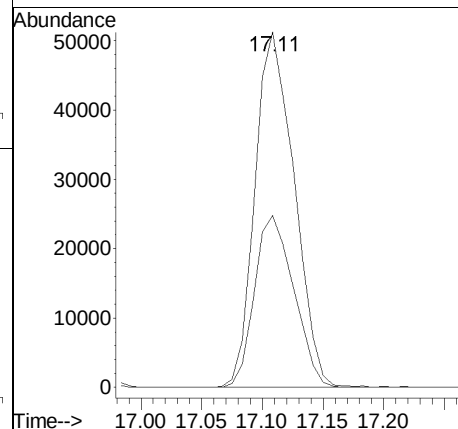
Tgt	Ion	Resp	Lower	Upper
91	100	27349		
106	32.1	24.1	36.1	

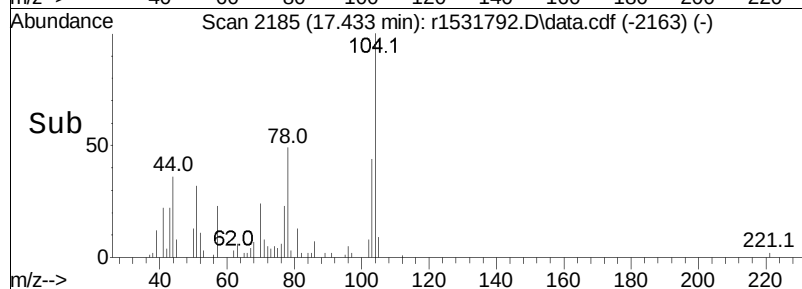
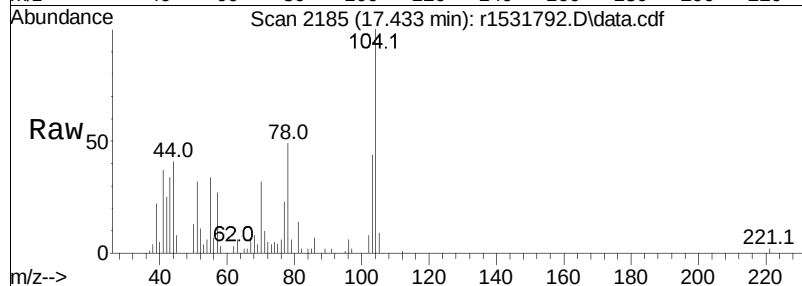
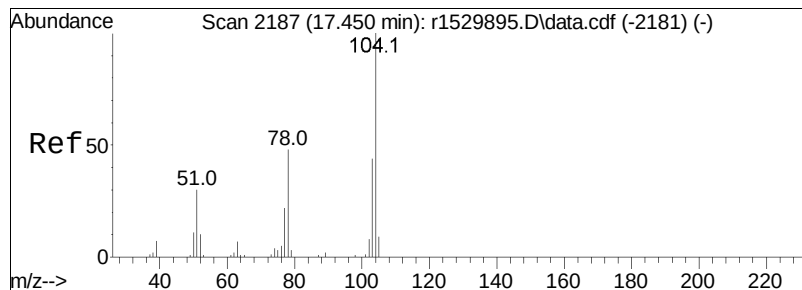




#83
 m+p-xylene
 Concen: 1.53 ppbV
 RT: 17.11 min Scan# 2146
 Delta R.T. -0.033 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

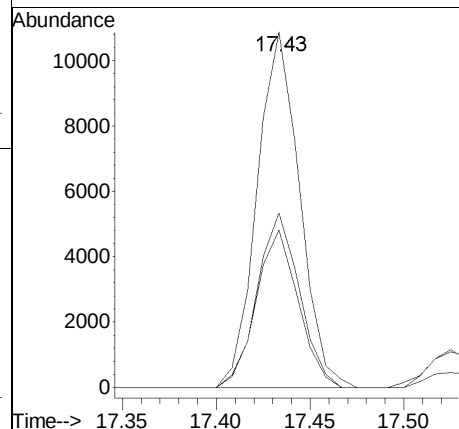
Tgt	Ion	Resp	Lower	Upper
91	100	115132		
106	48.4	36.2	54.2	

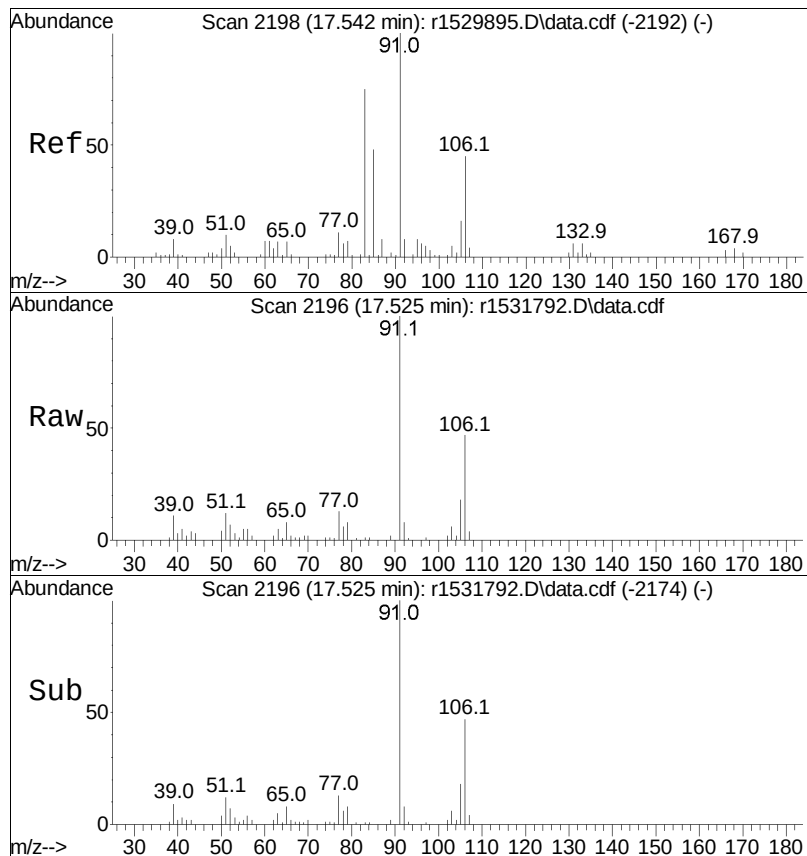




#85
styrene
Concen: 0.32 ppbV
RT: 17.43 min Scan# 2185
Delta R.T. -0.017 min
Lab File: r1531792.D
Acq: 20 Mar 2022 11:43 PM

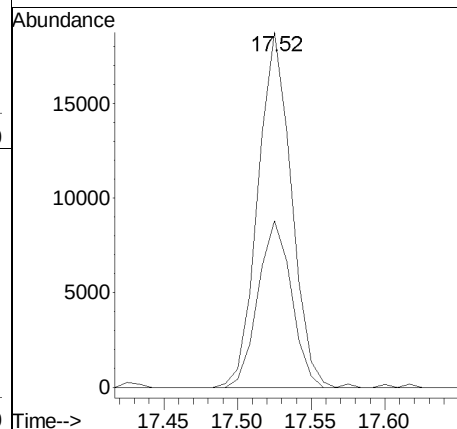
Tgt Ion	Ratio	Lower	Upper
104	100		
103	44.3	35.0	52.6
78	49.1	38.3	57.5

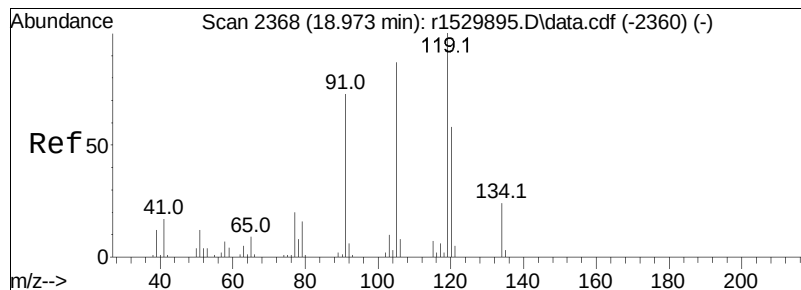




#87
 o-xylene
 Concen: 0.40 ppbV
 RT: 17.52 min Scan# 2196
 Delta R.T. -0.017 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

Tgt	Ion	Resp	Lower	Upper
91	100	29632		
106	46.9	35.8	53.8	





#99

1,2,4-trimethylbenzene

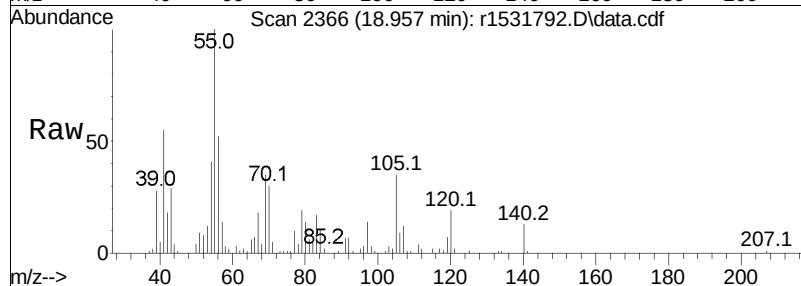
Concen: 0.21 ppbV

RT: 18.96 min Scan# 2366

Delta R.T. -0.017 min

Lab File: r1531792.D

Acq: 20 Mar 2022 11:43 PM



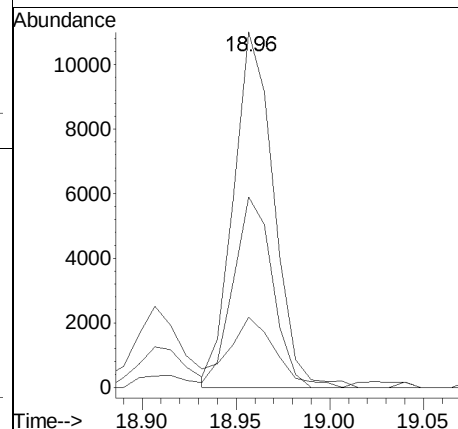
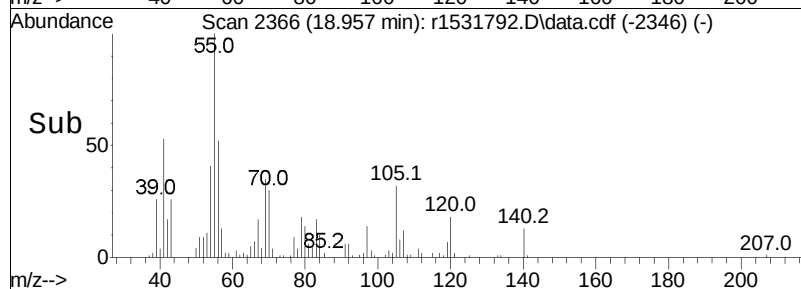
Tgt Ion:105 Resp: 16454

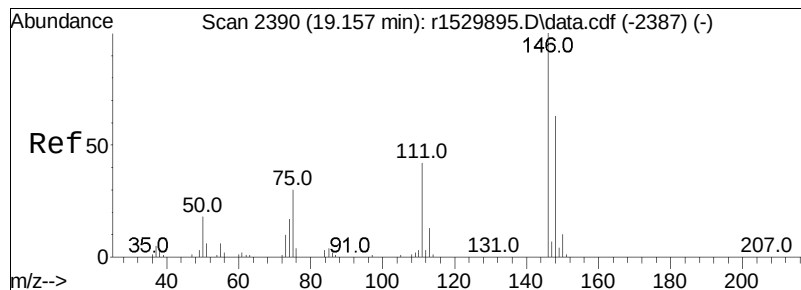
Ion Ratio Lower Upper

105 100

120 53.6 52.7 79.1

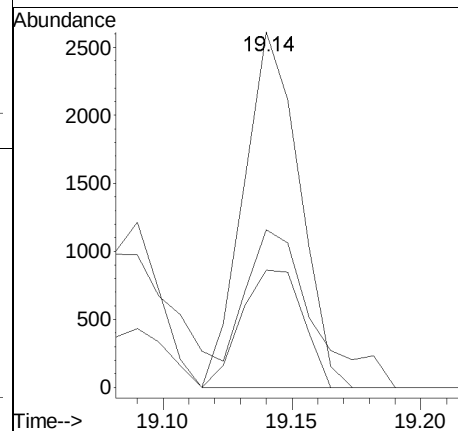
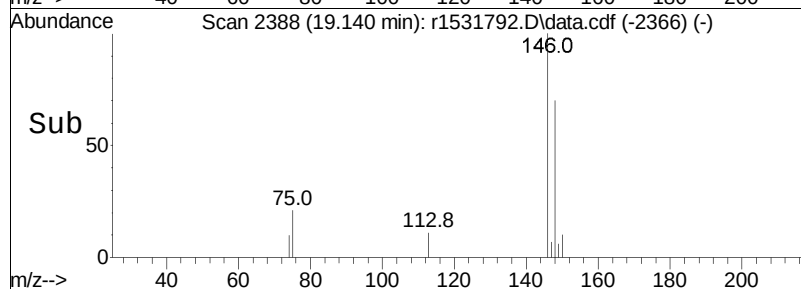
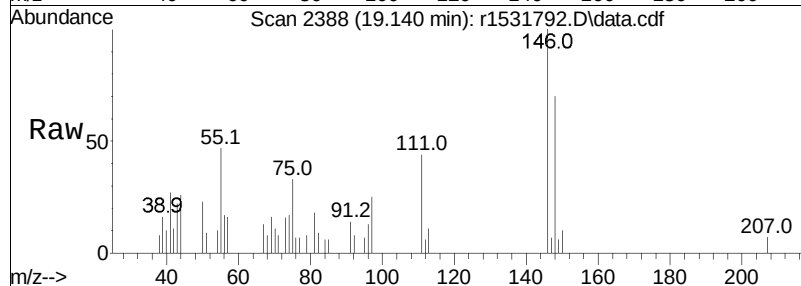
91 19.7 67.2 100.8#





#103
 1,4-dichlorobenzene
 Concen: 0.08 ppbV
 RT: 19.14 min Scan# 2388
 Delta R.T. -0.017 min
 Lab File: r1531792.D
 Acq: 20 Mar 2022 11:43 PM

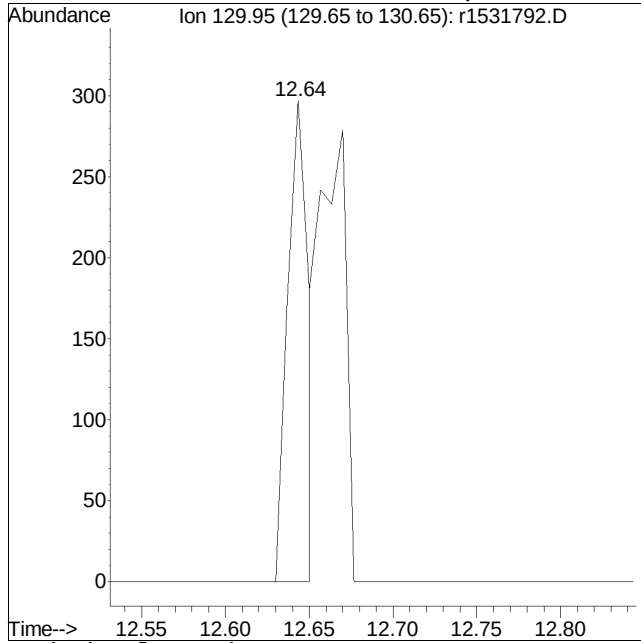
Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.4	33.4	50.2
75	33.0	24.0	36.0



Manual Integration/Negative Proof Report

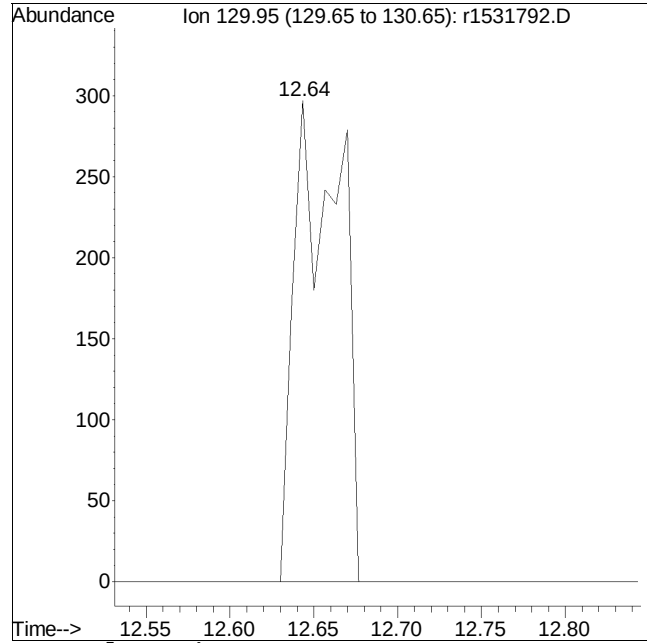
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_211222.M
Data File : r1531792.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:1: 3 Instrument :
Sample : L2213657-01,3,250,250 Quant Date : 3/21/2022 8:44 am

Compound #59: trichloroethene



Original Peak Response = 259

M4 = Poor automated baseline construction.

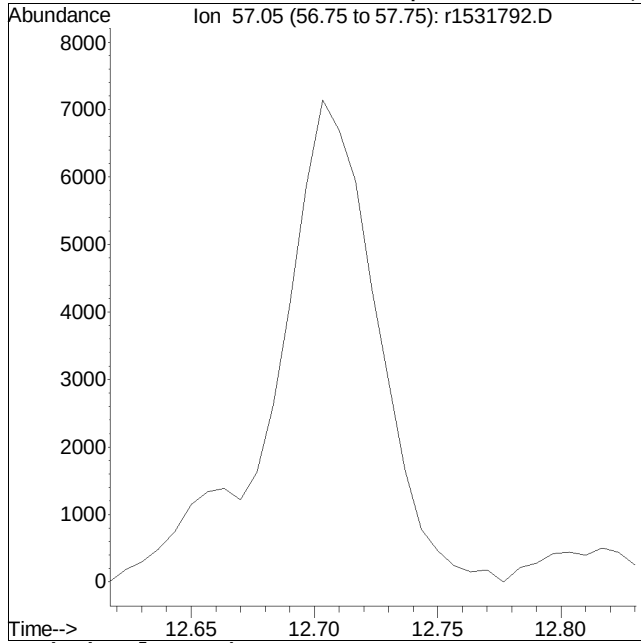


Manual Peak Response = 560 M4

Manual Integration/Negative Proof Report

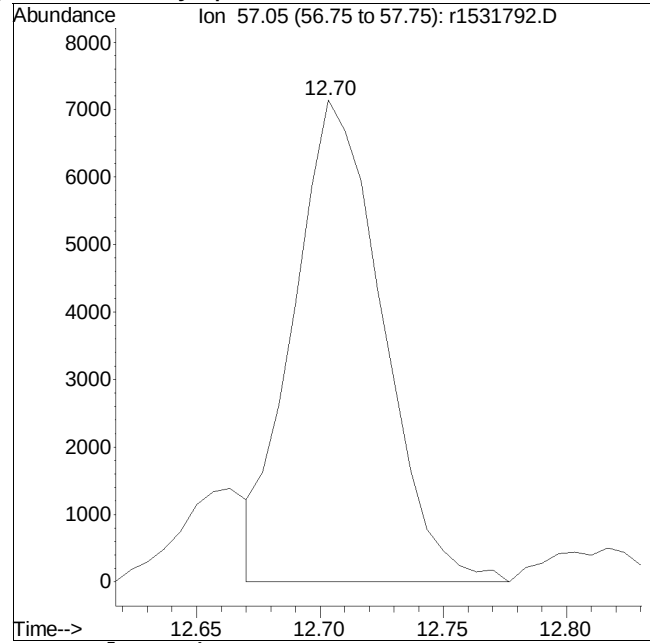
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_211222.M
Data File : r1531792.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:1: 3 Instrument :
Sample : L2213657-01,3,250,250 Quant Date : 3/21/2022 8:44 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response =

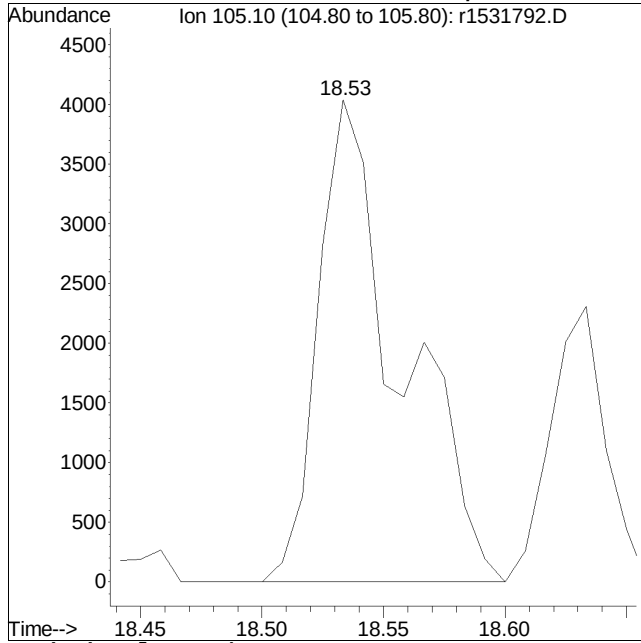
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Integration/Negative Proof Report

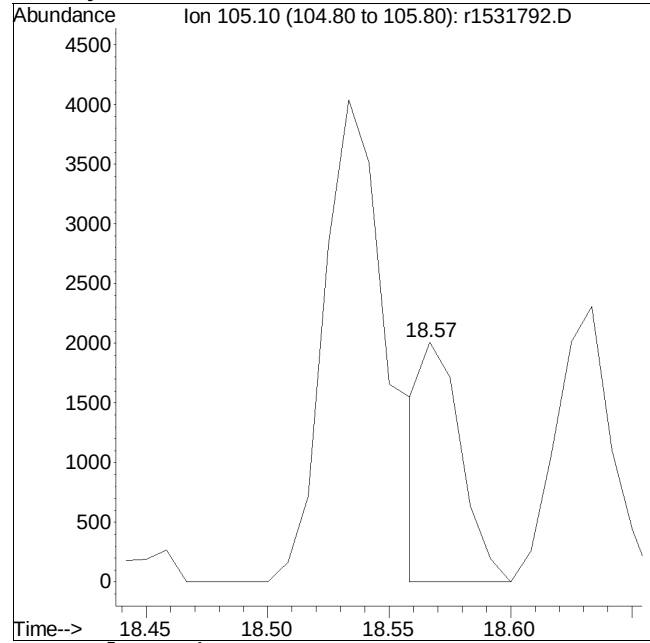
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_211222.M
Data File : r1531792.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:1: 3 Instrument :
Sample : L2213657-01,3,250,250 Quant Date : 3/21/2022 8:44 am

Compound #96: 4-ethyl toluene



Original Peak Response = 9516

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 2278 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531793.D
 Acq On : 21 Mar 2022 12:22 AM
 Operator : AIRLAB15:RY
 Sample : L2213657-04D, 3,189.9,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:51:07 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.58	49	391407	10.000	ppbV	-0.03
Standard Area = 382239			Recovery = 102.40%			
43) 1,4-difluorobenzene	11.86	114	853920	10.000	ppbV	-0.03
Standard Area = 859136			Recovery = 99.39%			
67) chlorobenzene-D5	16.57	54	207988	10.000	ppbV	-0.02
Standard Area = 200634			Recovery = 103.67%			

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.96	85	10959	0.379	ppbV	99
6) chloromethane	4.14	50	11322	0.785	ppbV	97
7) Freon-114	4.26		0	N.D.		
9) vinyl chloride	4.40		0	N.D.		
10) 1,3-butadiene	0.00		0	N.D.	d	
13) bromomethane	0.00		0	N.D.		
14) chloroethane	0.00		0	N.D.	d	
15) ethanol	5.28	31	548170	48.842	ppbV	95
17) vinyl bromide	0.00		0	N.D.	d	
19) acetone	5.86	43	675988	30.229	ppbV	97
21) trichlorofluoromethane	6.06	101	4987	0.180	ppbV	100
22) isopropyl alcohol	6.18	45	374346	15.490	ppbV	100
26) 1,1-dichloroethene	0.00		0	N.D.		
27) tertiary butyl alcohol	6.92	59	53587	1.714	ppbV #	87
28) methylene chloride	7.01	49	9248	0.504	ppbV	95
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	7.30	76	6825	0.179	ppbV #	1
31) Freon 113	7.35	101	1598	0.057	ppbV	93
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.	d	
34) MTBE	0.00		0	N.D.	d	
36) 2-butanone	8.88	43	30440	0.762	ppbV	98
37) cis-1,2-dichloroethene	0.00		0	N.D.		
38) Ethyl Acetate	9.70	61	3144	0.435	ppbV	86
39) chloroform	9.74		0	N.D.		
40) Tetrahydrofuran	10.21	42	27619	1.113	ppbV	98
42) 1,2-dichloroethane	10.59	62	26377	1.107	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531793.D
 Acq On : 21 Mar 2022 12:22 AM
 Operator : AIRLAB15:RY
 Sample : L2213657-04D,3,189.9,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:51:07 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) hexane	9.66	57	10839	0.301	ppbV	#	61
48) 1,1,1-trichloroethane	0.00		0	N.D.			
50) benzene	11.42	78	74872	1.249	ppbV		98
52) carbon tetrachloride	11.59	117	1415	0.065	ppbV		94
53) cyclohexane	11.74	56	4100	0.106	ppbV	#	83
56) 1,2-dichloropropane	0.00		0	N.D.			
57) bromodichloromethane	0.00		0	N.D.	d		
58) 1,4-dioxane	0.00		0	N.D.			
59) trichloroethene	0.00		0	N.D.			
60) 2,2,4-trimethylpentane	12.70	57	14223	0.119	ppbV	#	71
62) heptane	13.02	43	32295M6	0.816	ppbV		
63) cis-1,3-dichloropropene	0.00		0	N.D.			
64) 4-methyl-2-pentanone	13.73	43	10411	0.234	ppbV	#	85
65) trans-1,3-dichloropropene	0.00		0	N.D.			
66) 1,1,2-trichloroethane	0.00		0	N.D.			
68) toluene	14.81	91	227543	2.938	ppbV		99
72) 2-hexanone	15.10	43	9996	0.229	ppbV	#	84
74) dibromochloromethane	0.00		0	N.D.			
75) 1,2-dibromoethane	0.00		0	N.D.			
78) tetrachloroethene	15.97	166	2389	0.089	ppbV		90
80) chlorobenzene	0.00		0	N.D.	d		
81) ethylbenzene	16.96	91	17480	0.191	ppbV		100
83) m+p-xylene	17.11	91	55313	0.742	ppbV		94
84) bromoform	0.00		0	N.D.			
85) styrene	17.43	104	16242	0.307	ppbV		99
86) 1,1,2,2-tetrachloroethane	17.54	83	2772	0.051	ppbV	#	44
87) o-xylene	17.52	91	25043	0.338	ppbV		97
96) 4-ethyl toluene	18.57		0	N.D.			
97) 1,3,5-trimethylbenzene	18.63	105	6066	0.076	ppbV	#	93
99) 1,2,4-trimethylbenzene	18.96	105	22879	0.299	ppbV	#	50
101) Benzyl Chloride	0.00		0	N.D.	d		
102) 1,3-dichlorobenzene	0.00		0	N.D.	d		
103) 1,4-dichlorobenzene	19.14		0	N.D.			
107) 1,2-dichlorobenzene	19.41		0	N.D.			
115) 1,2,4-trichlorobenzene	0.00		0	N.D.			
119) hexachlorobutadiene	0.00		0	N.D.			

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

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531793.D
 Acq On : 21 Mar 2022 12:22 AM
 Operator : AIRLAB15:RY
 Sample : L2213657-04D,3,189.9,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:51:07 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY - .

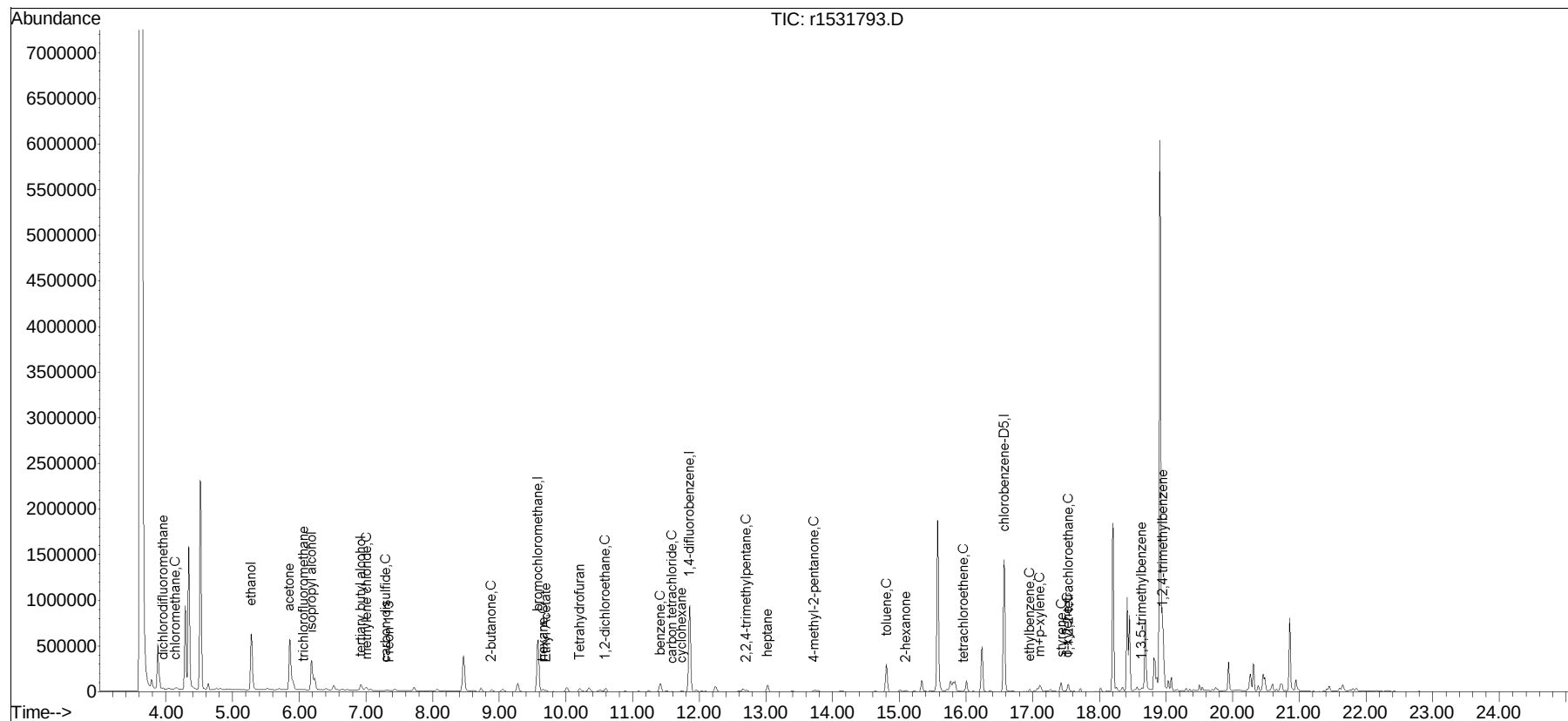
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

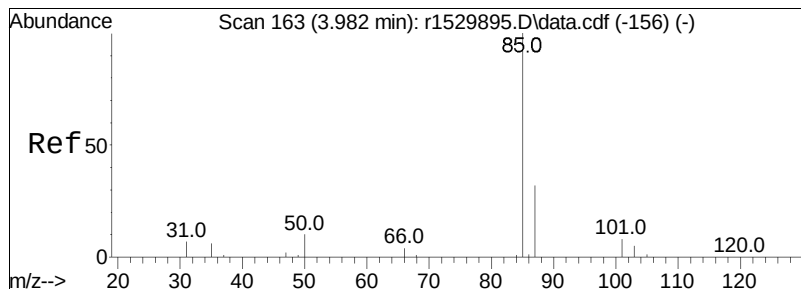
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531793.D
 Acq On : 21 Mar 2022 12:22 AM
 Operator : AIRLAB15:RY
 Sample : L2213657-04D,3,189.9,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:51:07 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

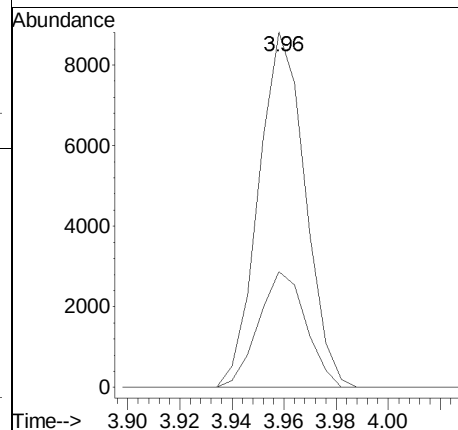
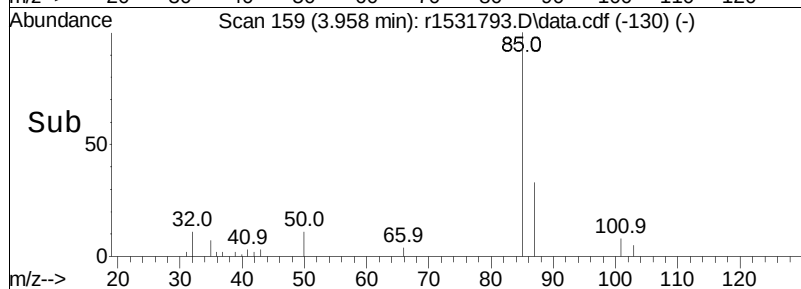
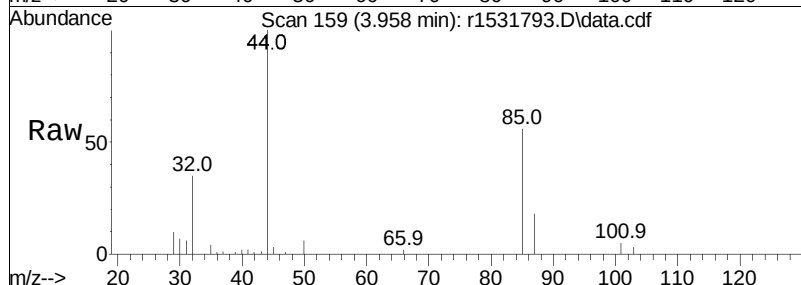
Sub List : T015-NY - .s\Data\Airlab15\2022\03\0320T\r1531778.D

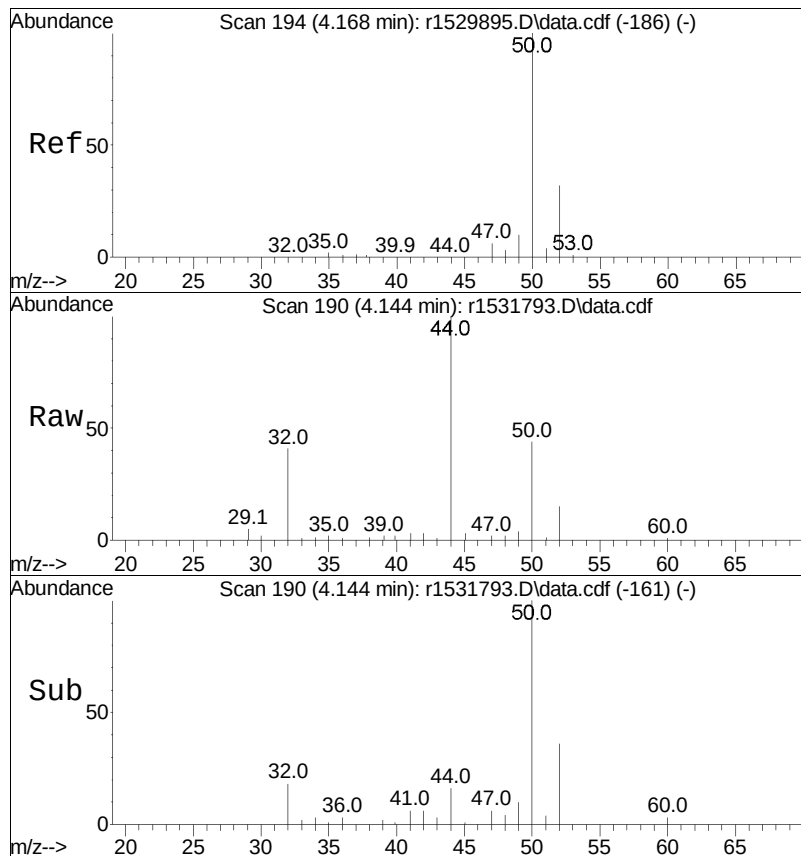




#5
dichlorodifluoromethane
Concen: 0.38 ppbV
RT: 3.96 min Scan# 159
Delta R.T. -0.024 min
Lab File: r1531793.D
Acq: 21 Mar 2022 12:22 AM

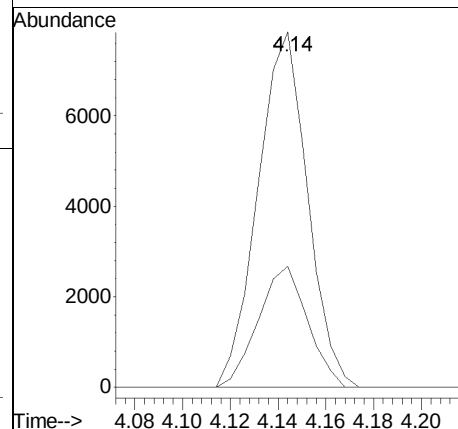
Tgt Ion	Ratio	Resp	Lower	Upper
85	100			
87	32.6	25.6	38.4	

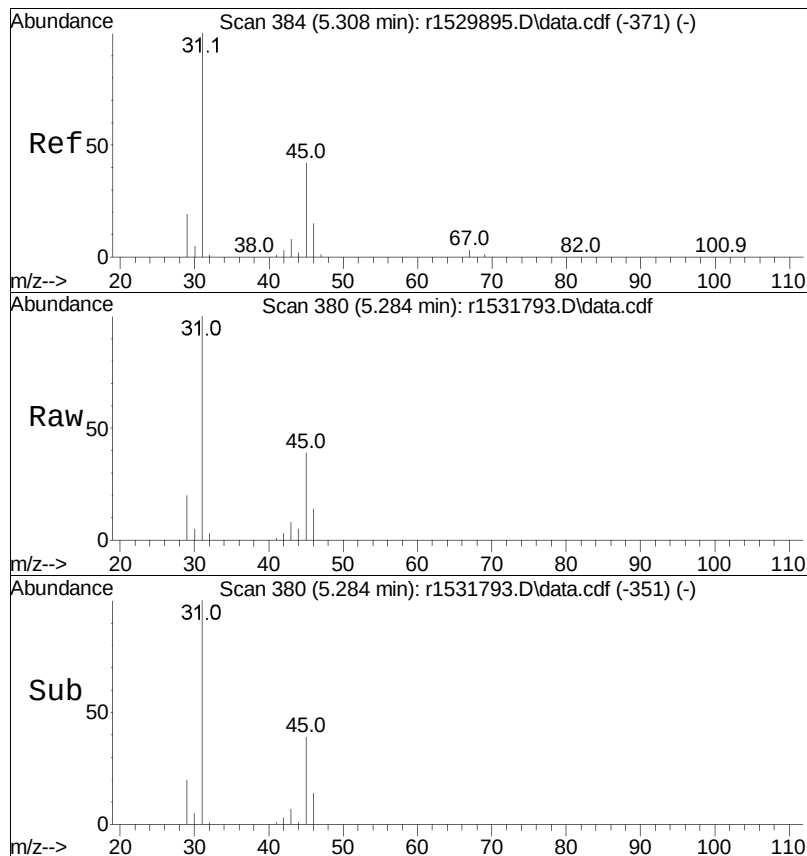




#6
 chloromethane
 Concen: 0.78 ppbV
 RT: 4.14 min Scan# 190
 Delta R.T. -0.024 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

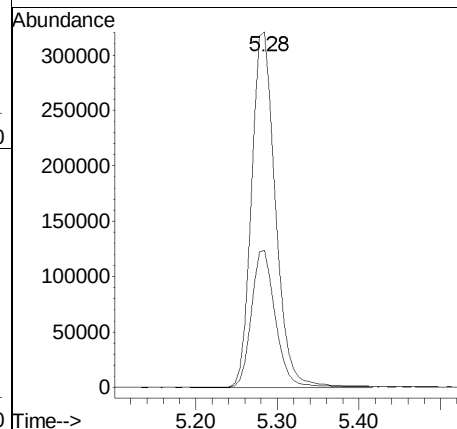
Tgt Ion	Ratio	Lower	Upper
50	100		
52	34.1	25.9	38.9

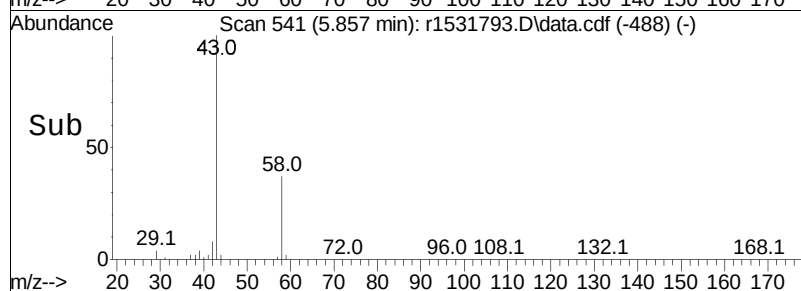
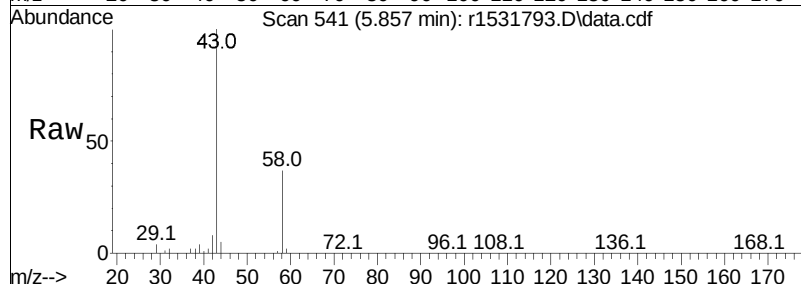
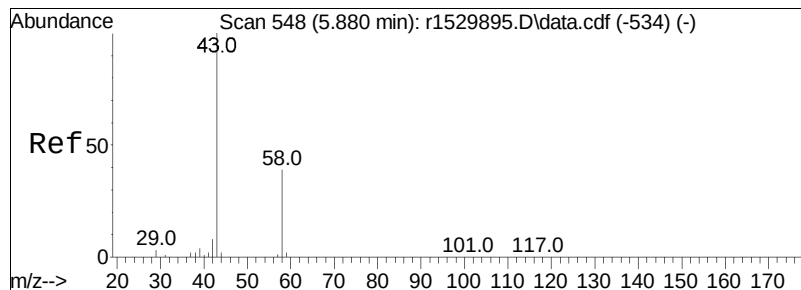




#15
ethanol
Concen: 48.84 ppbV
RT: 5.28 min Scan# 380
Delta R.T. -0.024 min
Lab File: r1531793.D
Acq: 21 Mar 2022 12:22 AM

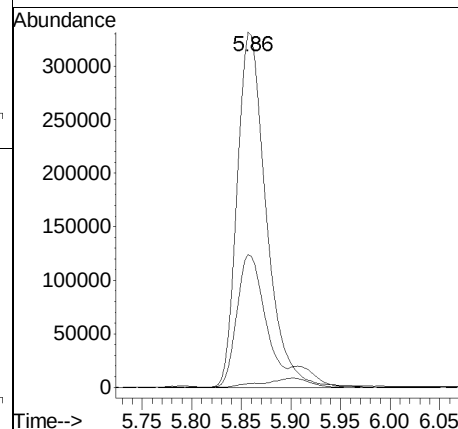
Tgt	Ion	Ratio	Resp	Lower	Upper
31	100		548170		
45	38.6	33.4	50.2		

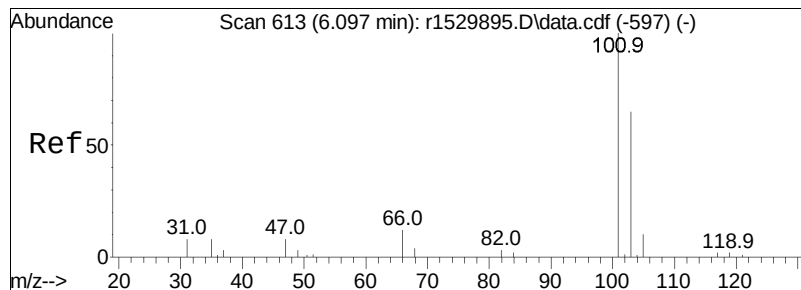




#19
acetone
Concen: 30.23 ppbV
RT: 5.86 min Scan# 541
Delta R.T. -0.023 min
Lab File: r1531793.D
Acq: 21 Mar 2022 12:22 AM

Tgt Ion:	43	58	57	Resp:	675988	Lower	Upper
Ratio	100	37.4	1.1				
		31.6	0.8				
		47.4	1.2				





#21

trichlorofluoromethane

Concen: 0.18 ppbV

RT: 6.06 min Scan# 603

Delta R.T. -0.033 min

Lab File: r1531793.D

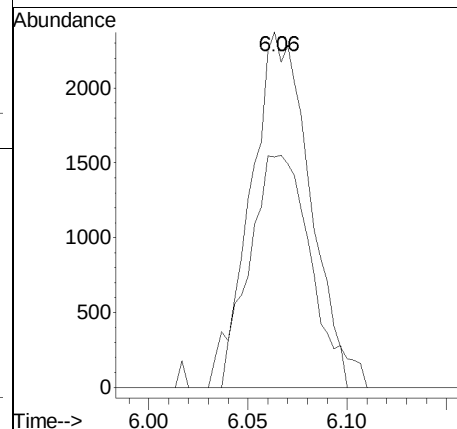
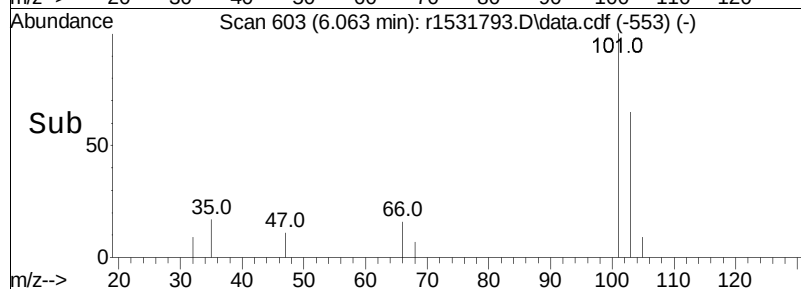
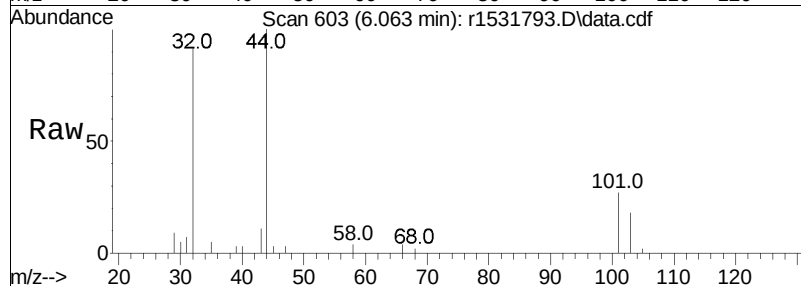
Acq: 21 Mar 2022 12:22 AM

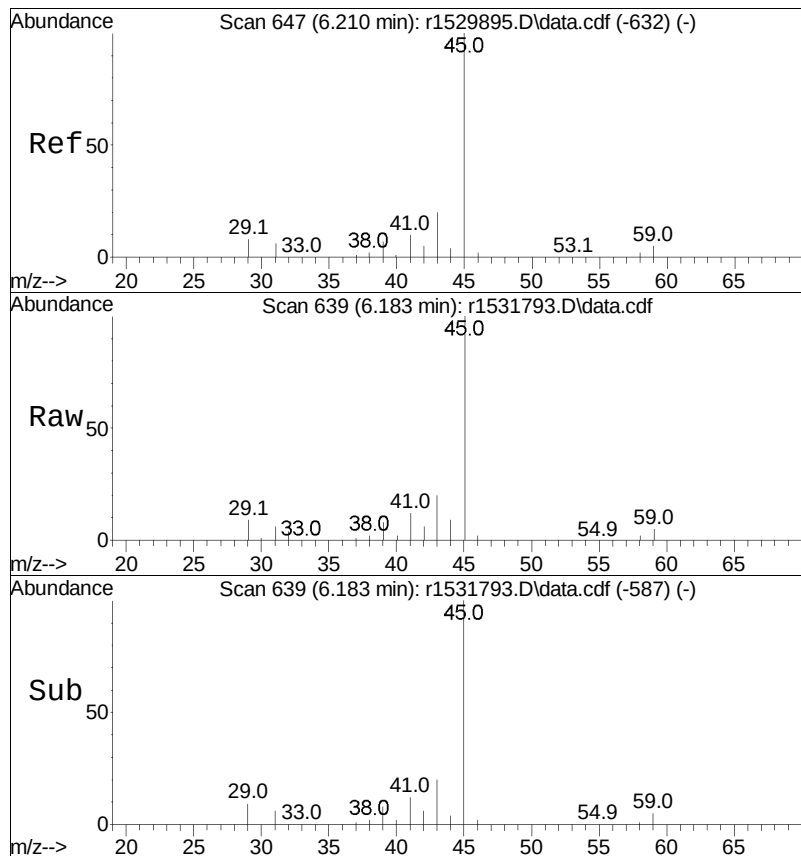
Tgt Ion:101 Resp: 4987

Ion Ratio Lower Upper

101 100

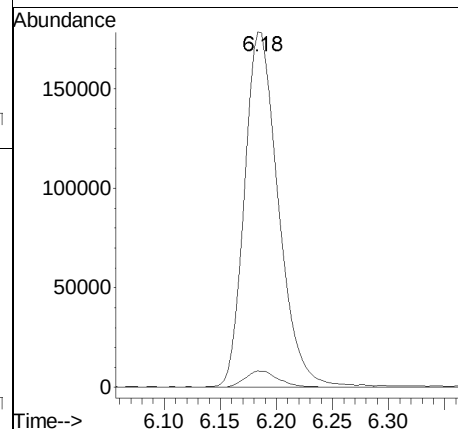
103 64.9 52.0 78.0

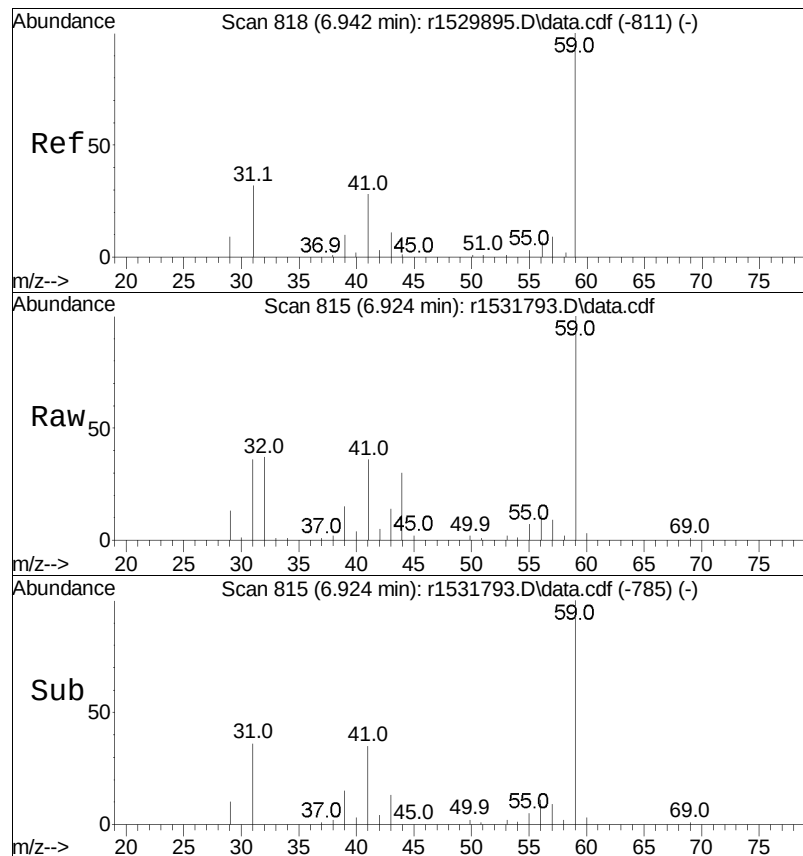




#22
 isopropyl alcohol
 Concen: 15.49 ppbV
 RT: 6.18 min Scan# 639
 Delta R.T. -0.027 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

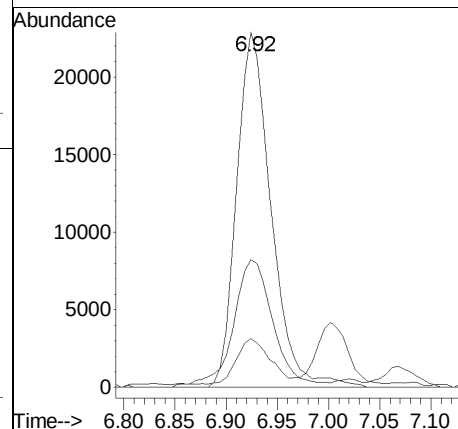
Tgt	Ion	Ratio	Lower	Upper
45	100			
59	4.7	3.8	5.8	

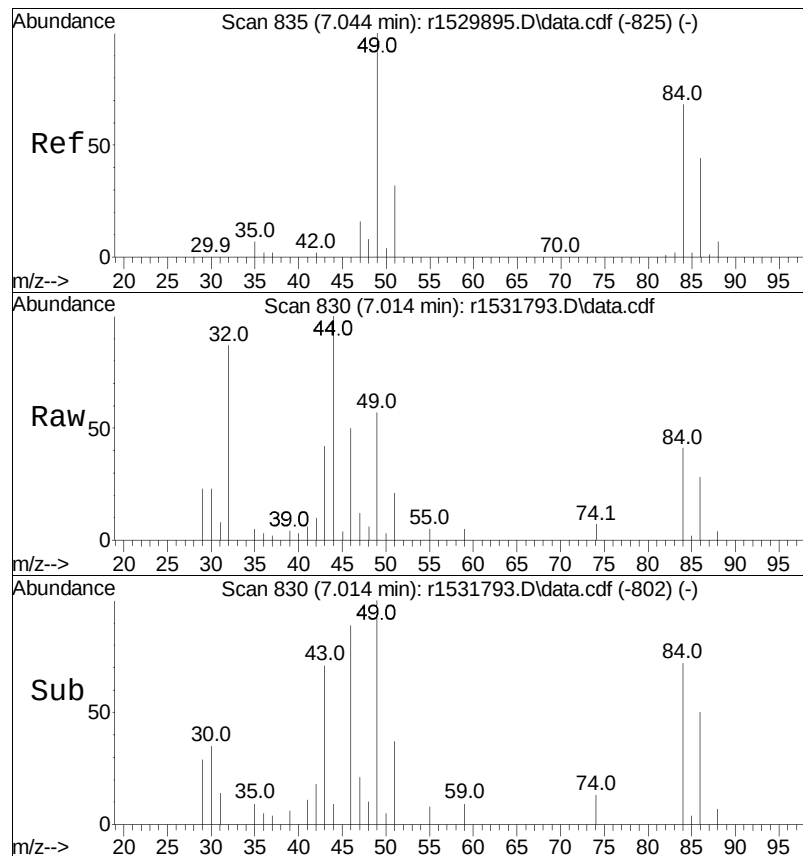




#27
 tertiary butyl alcohol
 Concen: 1.71 ppbV
 RT: 6.92 min Scan# 815
 Delta R.T. -0.018 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

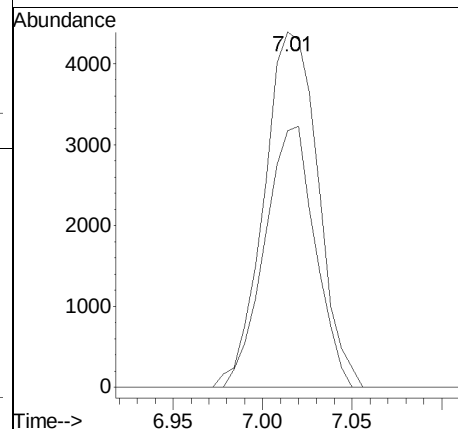
Tgt Ion	Ratio	Lower	Upper
59	100		
41	36.0	22.2	33.4#
43	13.7	8.9	13.3#

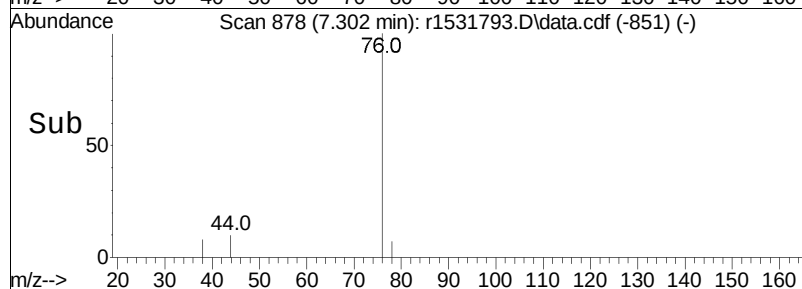
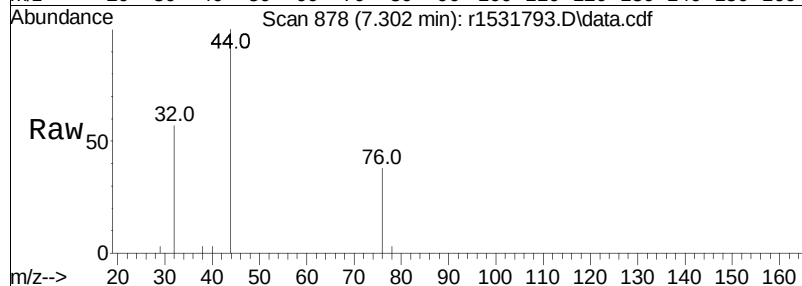
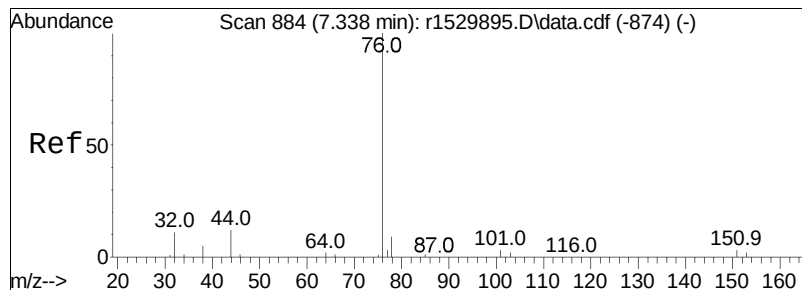




#28
 methylene chloride
 Concen: 0.50 ppbV
 RT: 7.01 min Scan# 830
 Delta R.T. -0.030 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

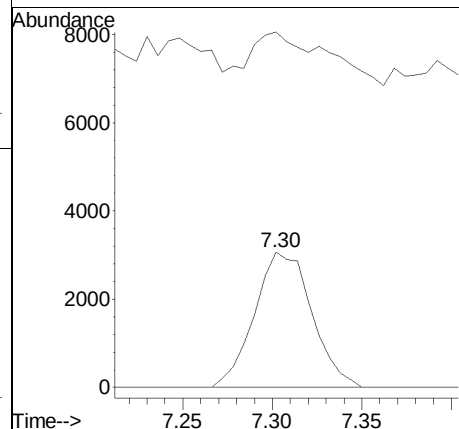
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	9248				
Ion Ratio	100	72.3			
		54.5		81.7	

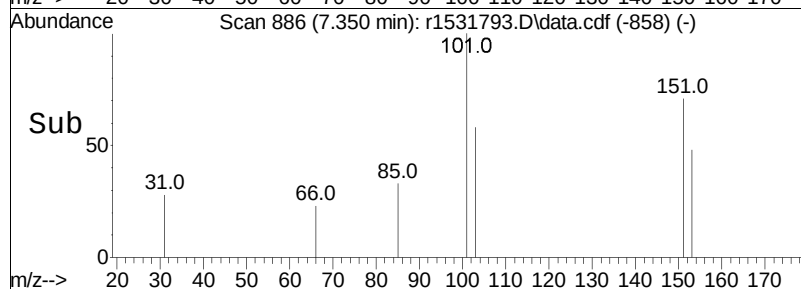
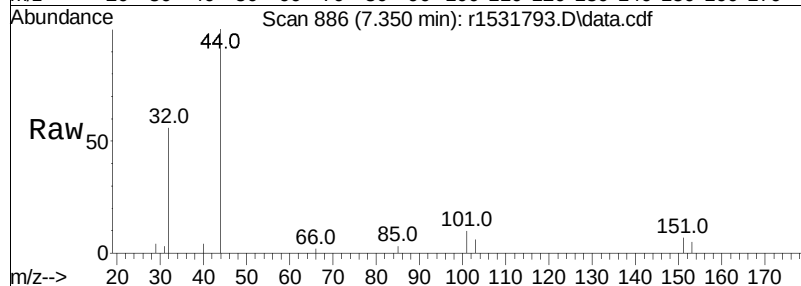
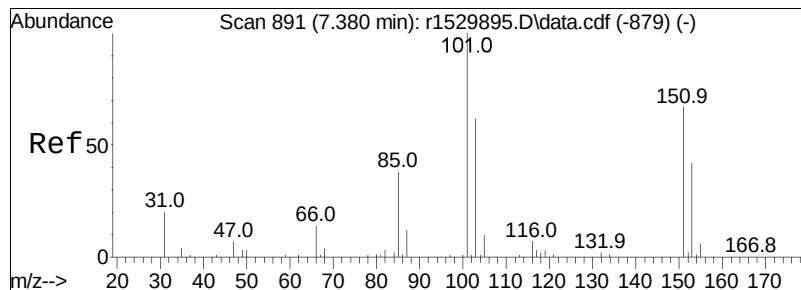




#30
carbon disulfide
Concen: 0.18 ppbV
RT: 7.30 min Scan# 878
Delta R.T. -0.036 min
Lab File: r1531793.D
Acq: 21 Mar 2022 12:22 AM

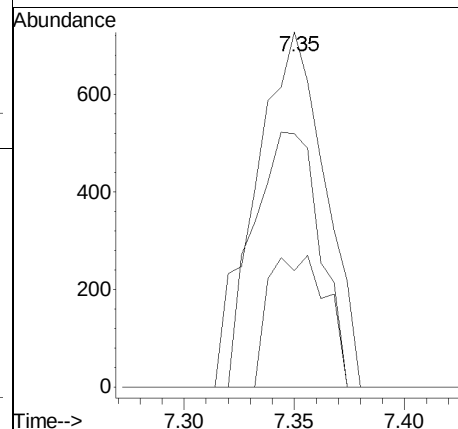
Tgt Ion	Ratio	Lower	Upper
76	100		
44	262.5	10.1	15.1#

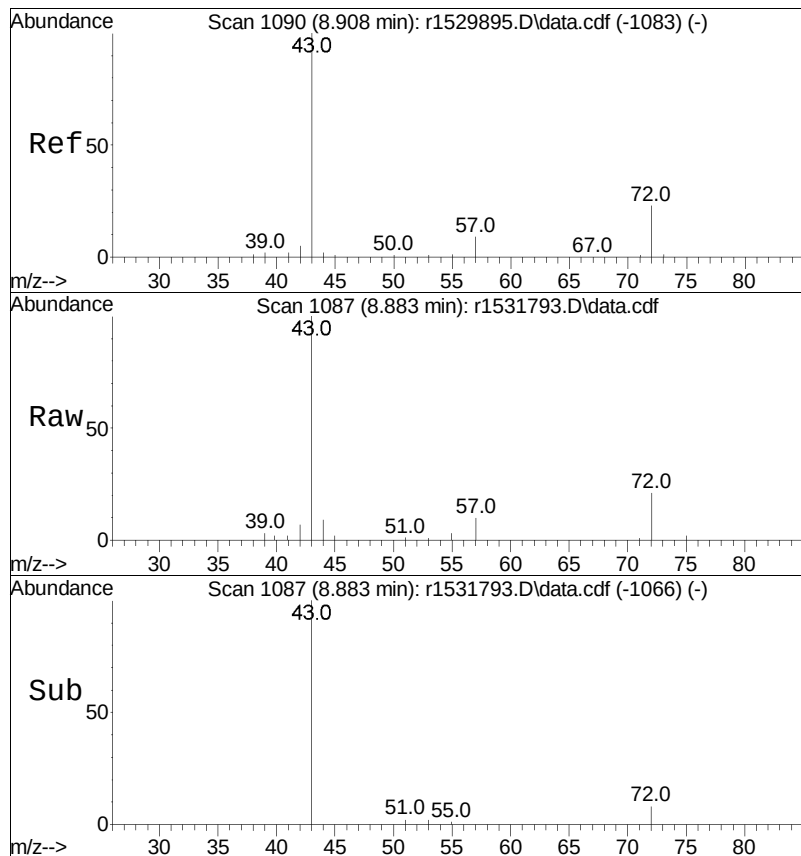




#31
 Freon 113
 Concen: 0.06 ppbV
 RT: 7.35 min Scan# 886
 Delta R.T. -0.030 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

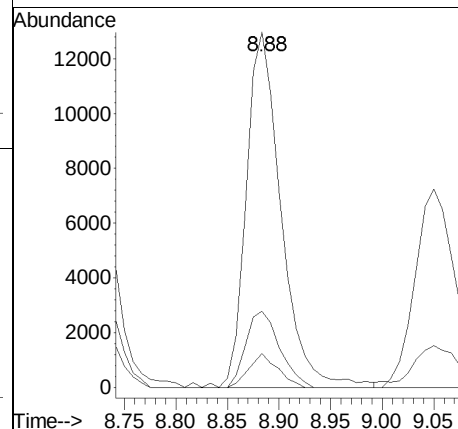
Tgt Ion:	101	Resp:	1598
Ion Ratio	Lower	Upper	
101	100		
85	32.9	30.6	46.0
151	71.4	53.5	80.3

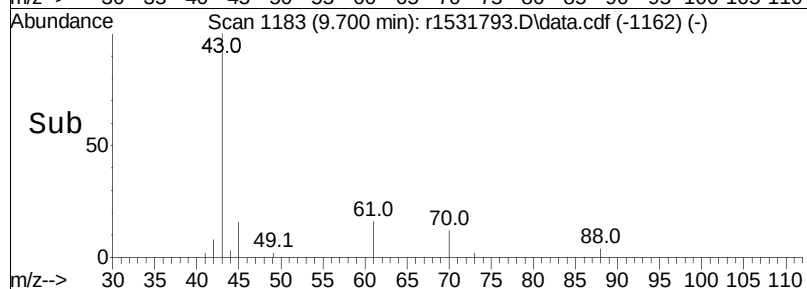
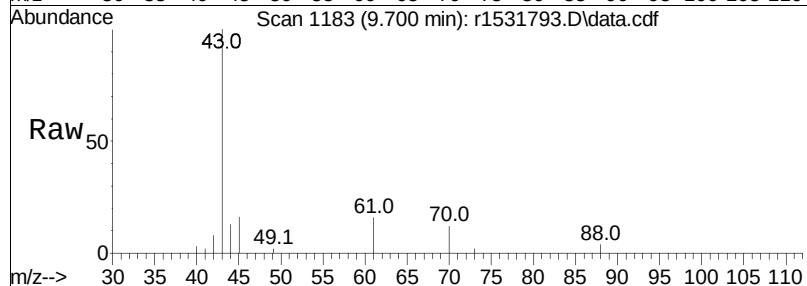
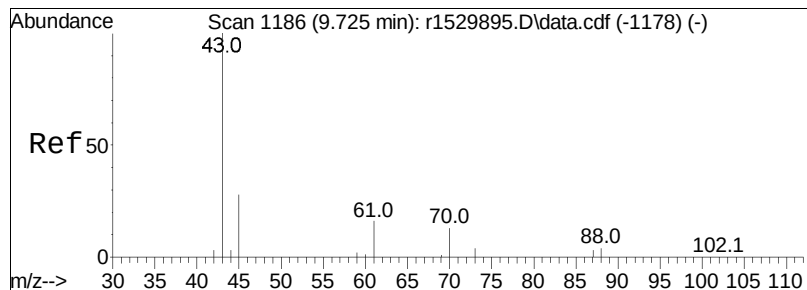




#36
 2-butanone
 Concen: 0.76 ppbV
 RT: 8.88 min Scan# 1087
 Delta R.T. -0.025 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

Tgt Ion:	43	Resp:	30440
Ion Ratio	Lower	Upper	
43	100		
72	21.4	18.0	27.0
57	9.5	7.0	10.4





#38

Ethyl Acetate

Concen: 0.43 ppbV

RT: 9.70 min Scan# 1183

Delta R.T. -0.025 min

Lab File: r1531793.D

Acq: 21 Mar 2022 12:22 AM

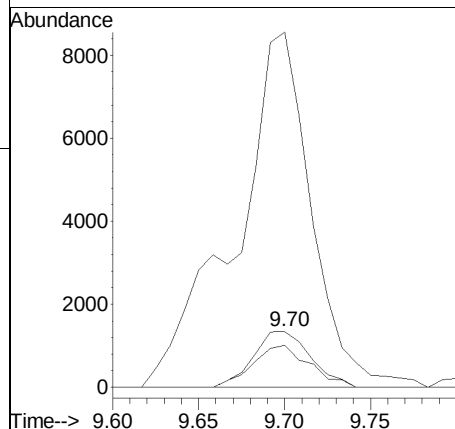
Tgt Ion: 61 Resp: 3144

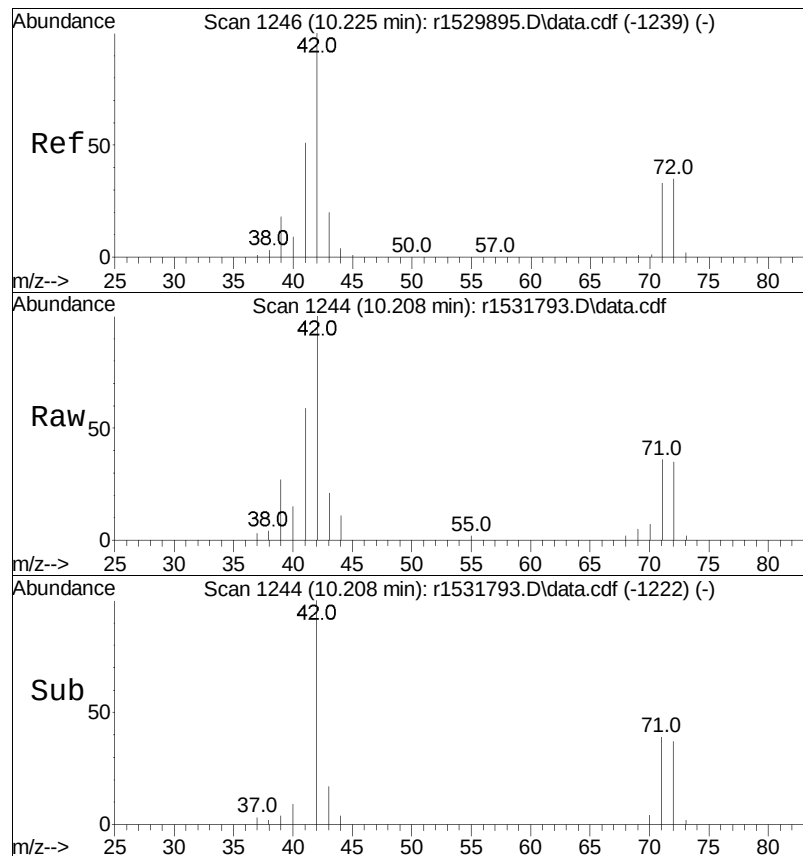
Ion Ratio Lower Upper

61 100

70 75.7 62.7 94.1

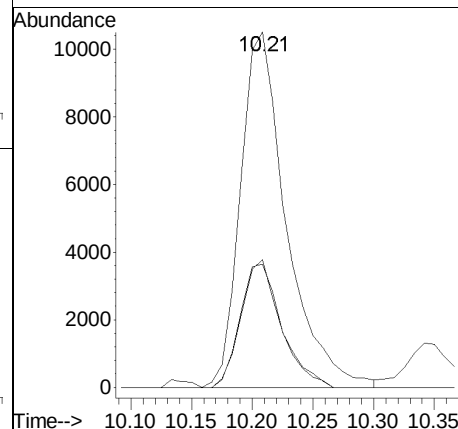
43 638.3 551.8 827.8

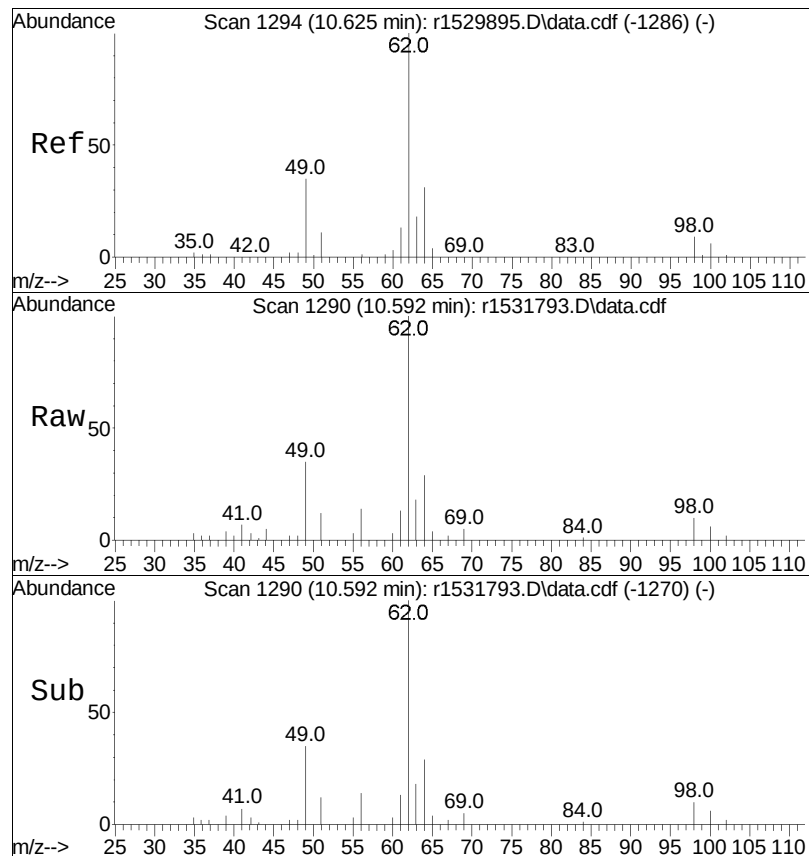




#40
Tetrahydrofuran
Concen: 1.11 ppbV
RT: 10.21 min Scan# 1244
Delta R.T. -0.017 min
Lab File: r1531793.D
Acq: 21 Mar 2022 12:22 AM

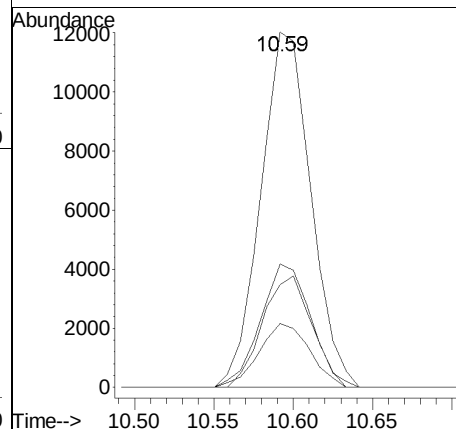
Tgt Ion	Ratio	Lower	Upper
42	100		
71	36.0	26.8	40.2
72	34.7	27.7	41.5

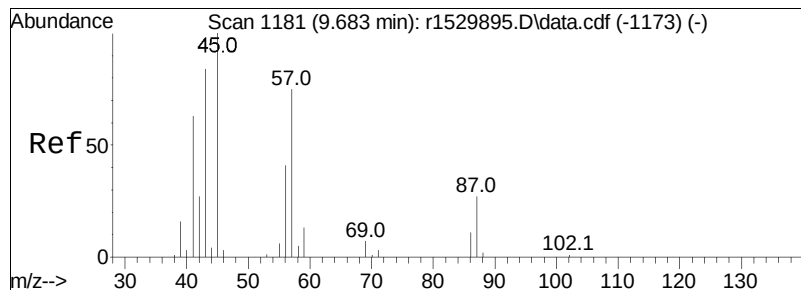




#42
 1,2-dichloroethane
 Concen: 1.11 ppbV
 RT: 10.59 min Scan# 1290
 Delta R.T. -0.033 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

Tgt Ion:	62	Resp:	26377
Ion Ratio	Lower	Upper	
62	100		
64	28.9	25.0	37.4
49	34.7	27.8	41.8
63	18.0	14.4	21.6





#44

hexane

Concen: 0.30 ppbV

RT: 9.66 min Scan# 1178

Delta R.T. -0.025 min

Lab File: r1531793.D

Acq: 21 Mar 2022 12:22 AM

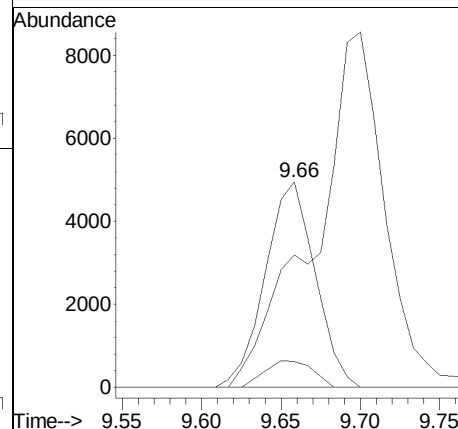
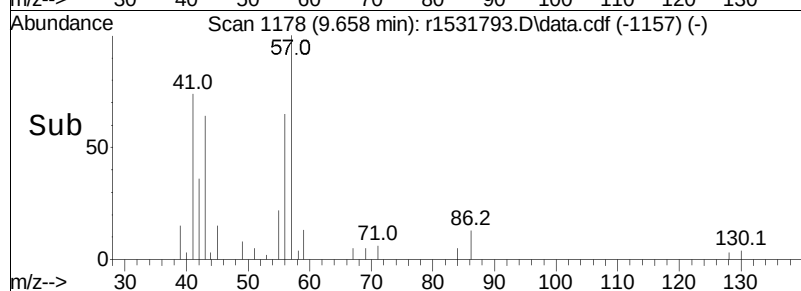
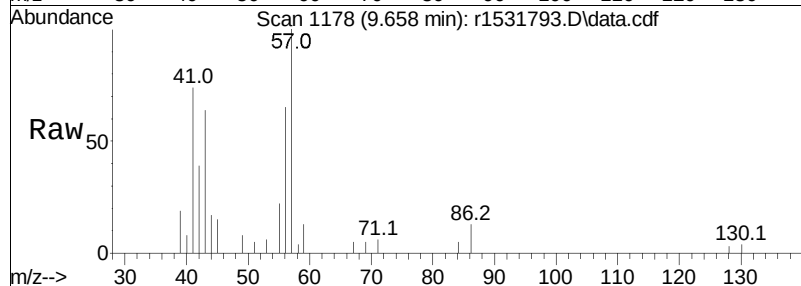
Tgt Ion: 57 Resp: 10839

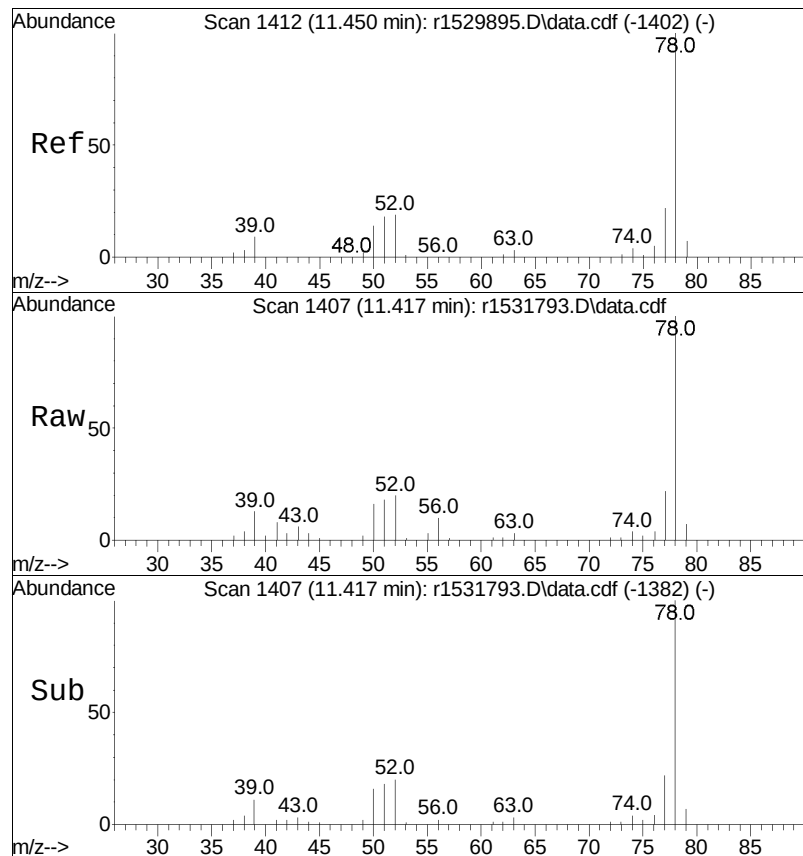
Ion Ratio Lower Upper

57 100

43 64.5 88.8 133.2#

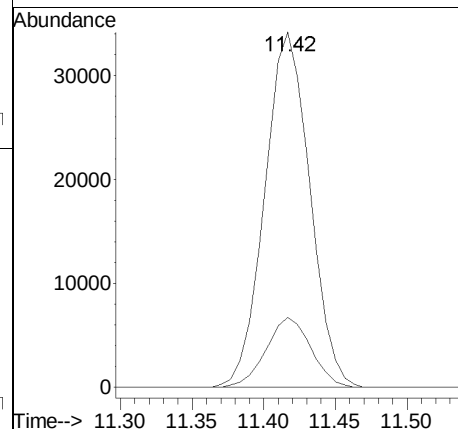
86 12.5 11.4 17.0

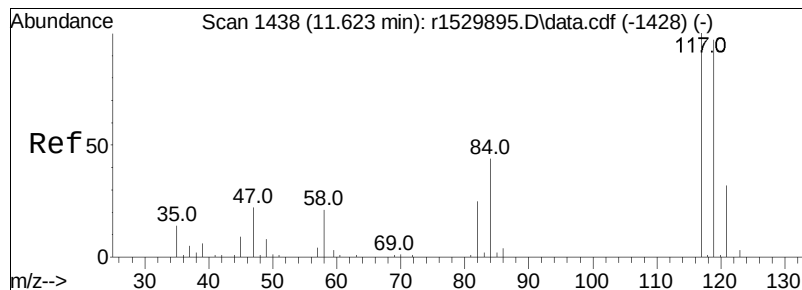




#50
benzene
Concen: 1.25 ppbV
RT: 11.42 min Scan# 1407
Delta R.T. -0.033 min
Lab File: r1531793.D
Acq: 21 Mar 2022 12:22 AM

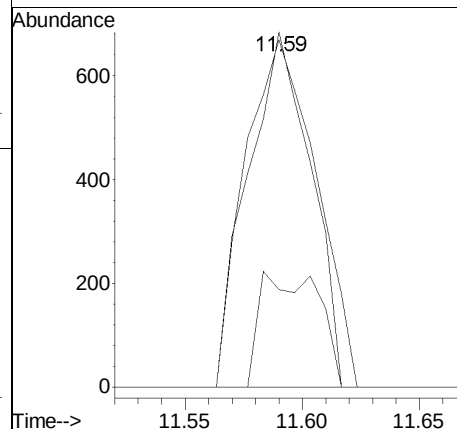
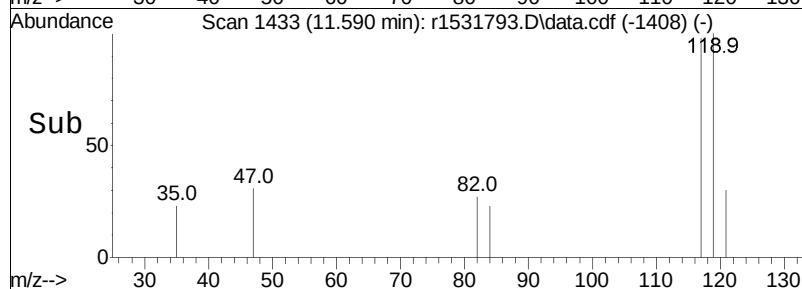
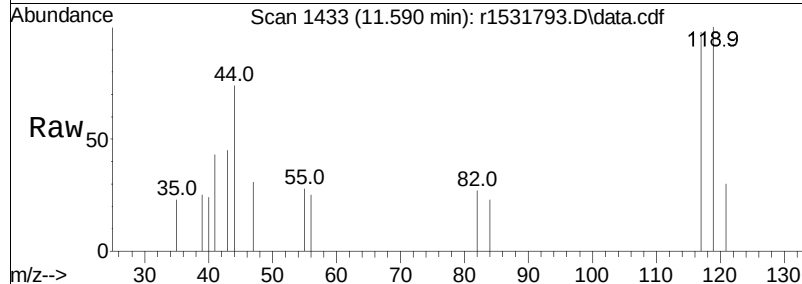
Tgt	Ion	Ratio	Lower	Upper
78	100			
52	19.7	15.2	22.8	

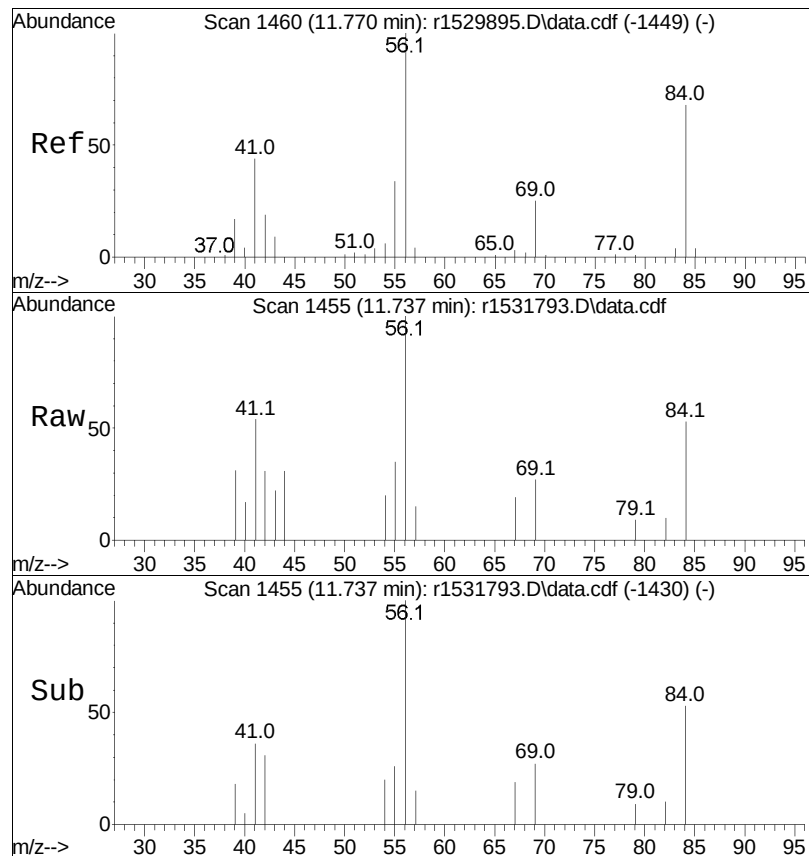




#52
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.59 min Scan# 1433
Delta R.T. -0.033 min
Lab File: r1531793.D
Acq: 21 Mar 2022 12:22 AM

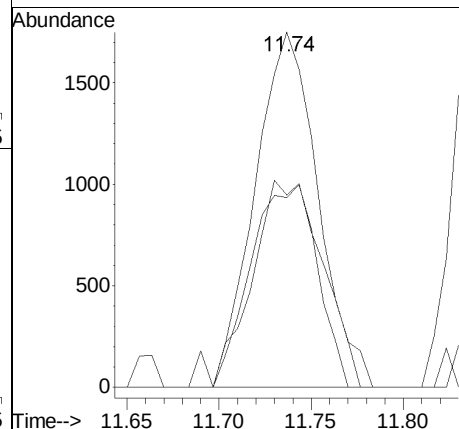
Tgt Ion	Ratio	Lower	Upper
117	100		
119	102.2	77.5	116.3
82	28.1	20.0	30.0

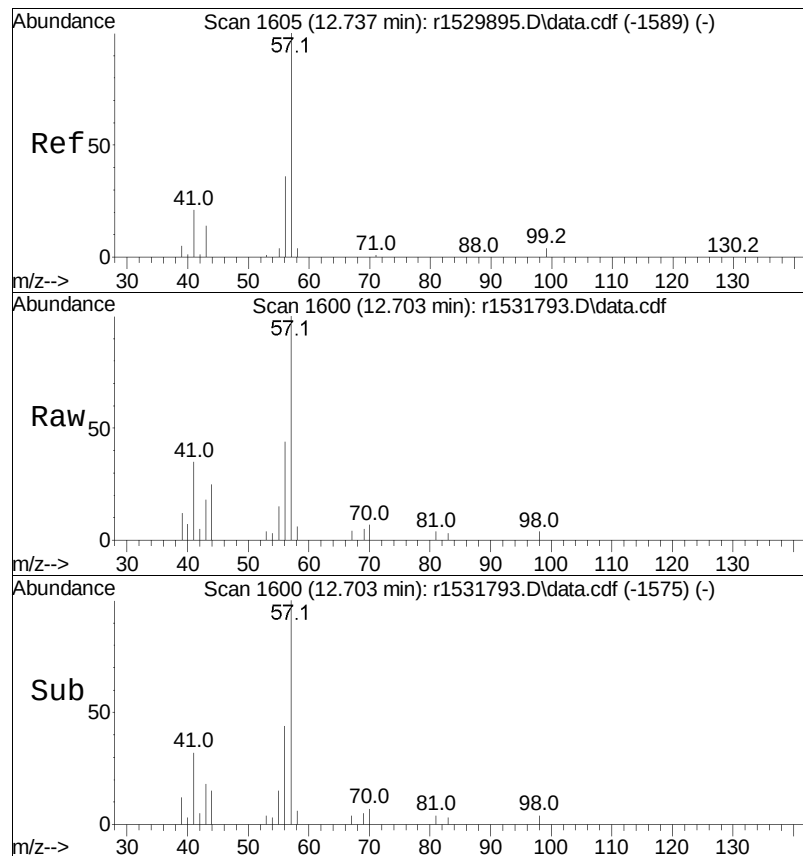




#53
cyclohexane
Concen: 0.11 ppbV
RT: 11.74 min Scan# 1455
Delta R.T. -0.033 min
Lab File: r1531793.D
Acq: 21 Mar 2022 12:22 AM

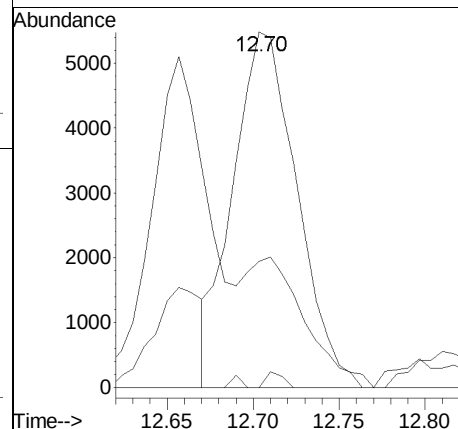
Tgt Ion	Ratio	Lower	Upper
56	100		
84	53.4	54.8	82.2#
41	54.1	35.5	53.3#

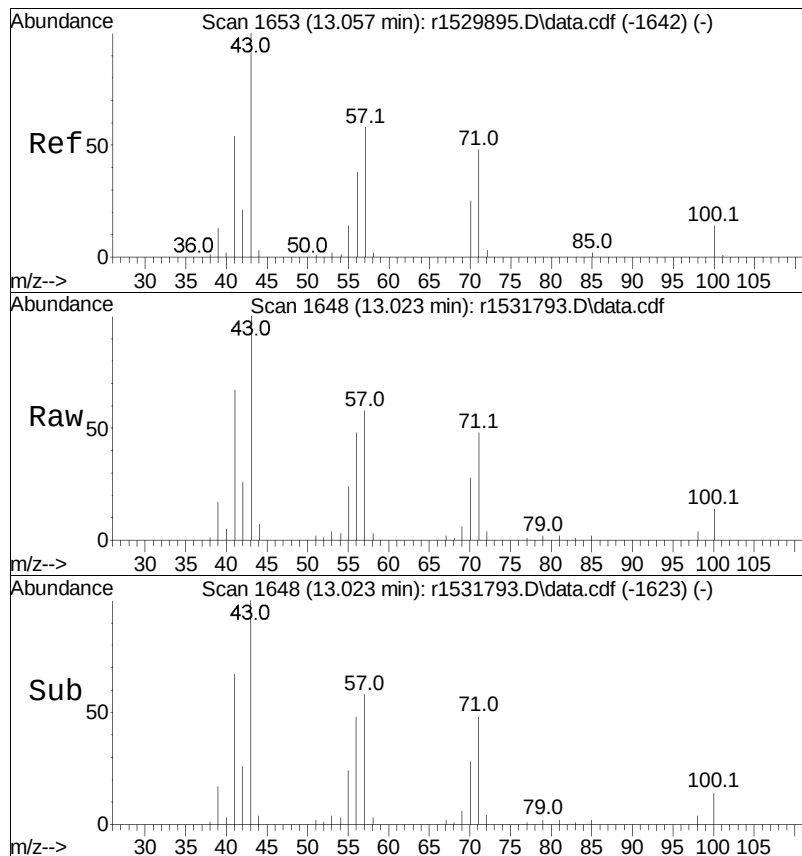




#60
 2,2,4-trimethylpentane
 Concen: 0.12 ppbV
 RT: 12.70 min Scan# 1600
 Delta R.T. -0.033 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

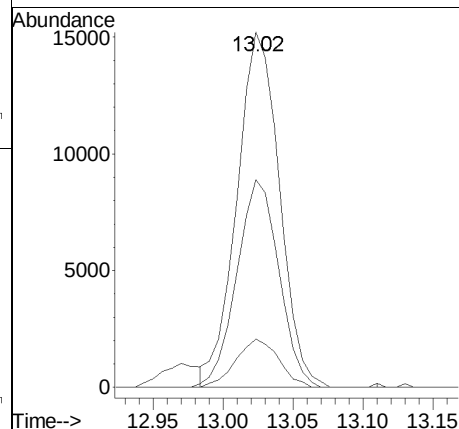
Tgt Ion	Ratio	Lower	Upper
57	100		
99	0.0	3.1	4.7#
41	35.5	16.6	24.8#

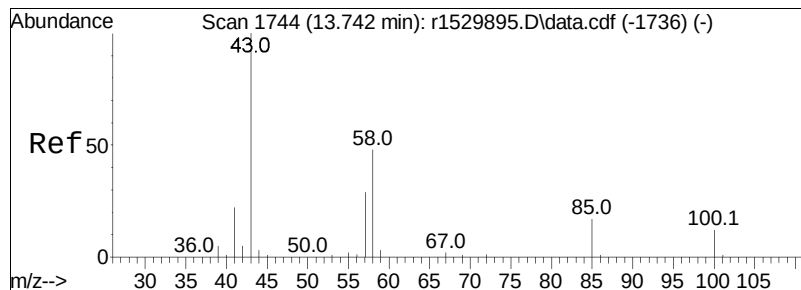




#62
 heptane
 Concen: 0.82 ppbV m
 RT: 13.02 min Scan# 1648
 Delta R.T. -0.033 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

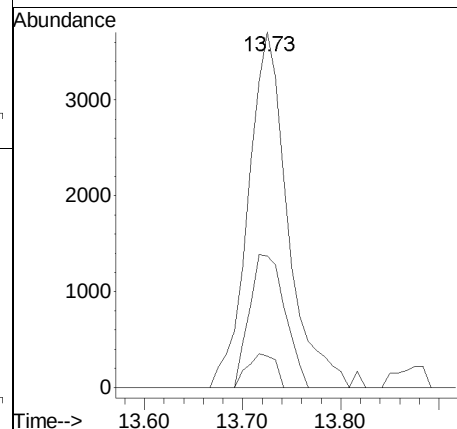
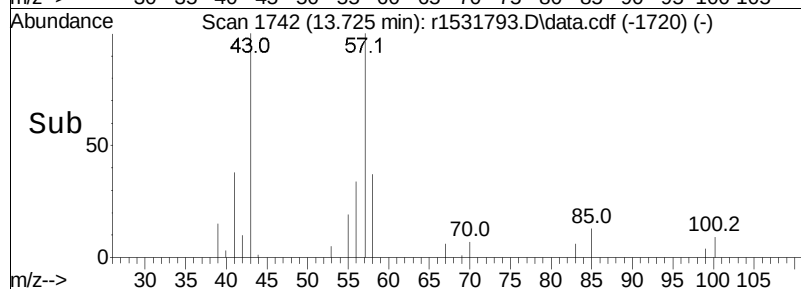
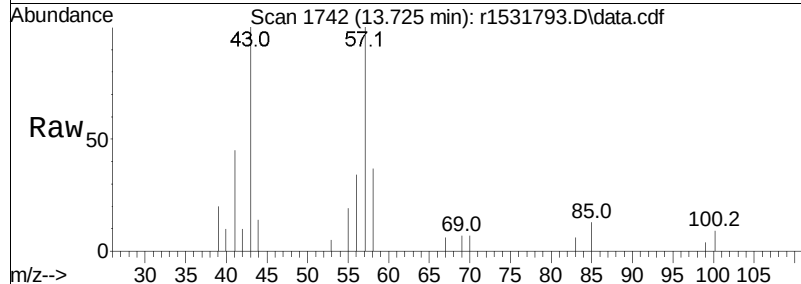
Tgt Ion:	43	Resp:	32295
Ion Ratio	Lower	Upper	
43	100		
57	58.5	46.5	69.7
100	13.6	11.6	17.4

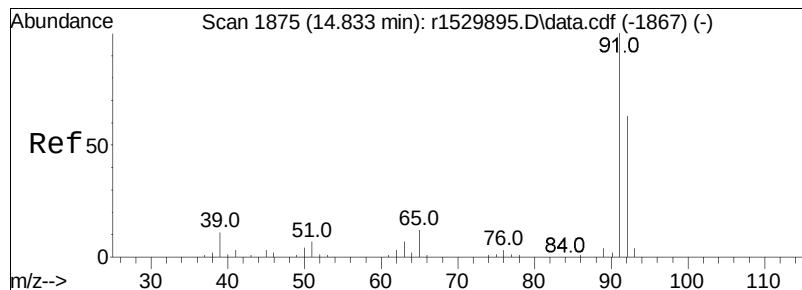




#64
 4-methyl-2-pentanone
 Concen: 0.23 ppbV
 RT: 13.73 min Scan# 1742
 Delta R.T. -0.017 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

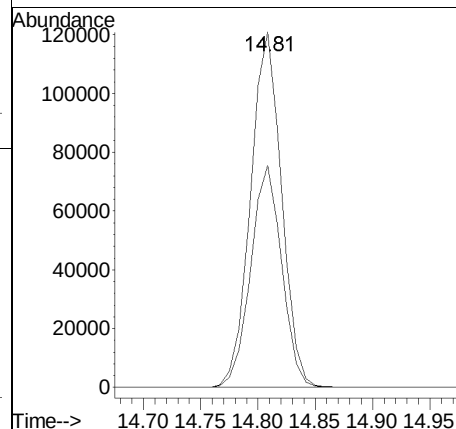
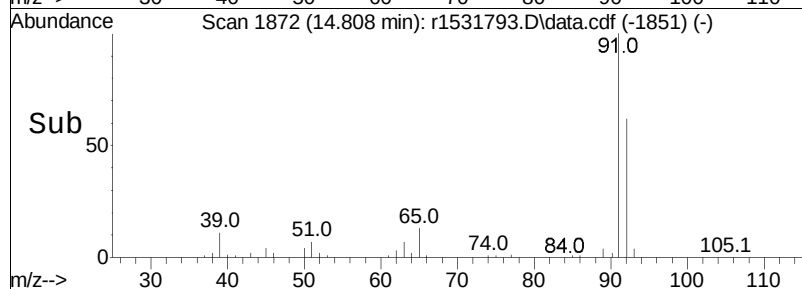
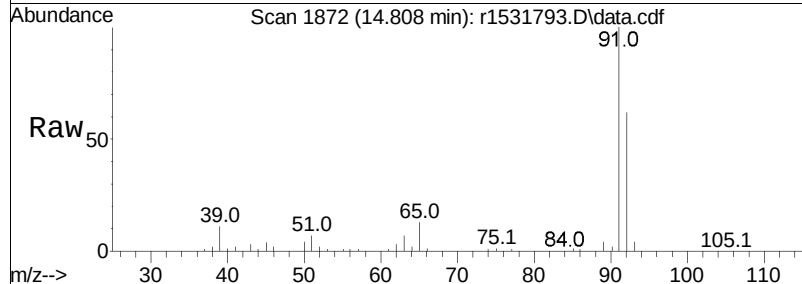
Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.0	38.6	58.0#
100	8.8	9.9	14.9#

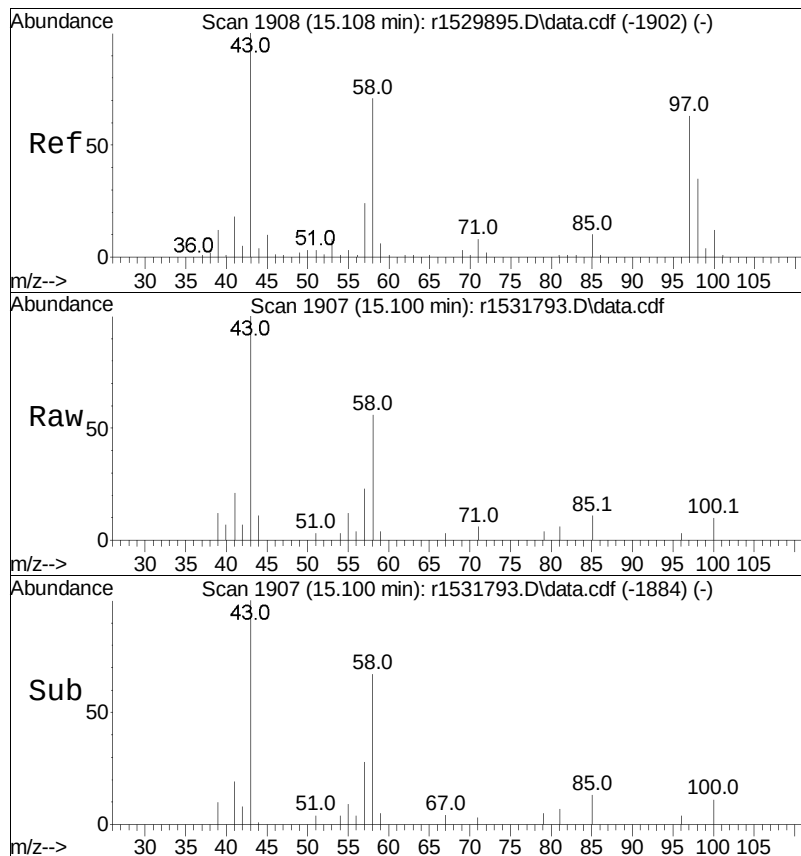




#68
toluene
Concen: 2.94 ppbV
RT: 14.81 min Scan# 1872
Delta R.T. -0.025 min
Lab File: r1531793.D
Acq: 21 Mar 2022 12:22 AM

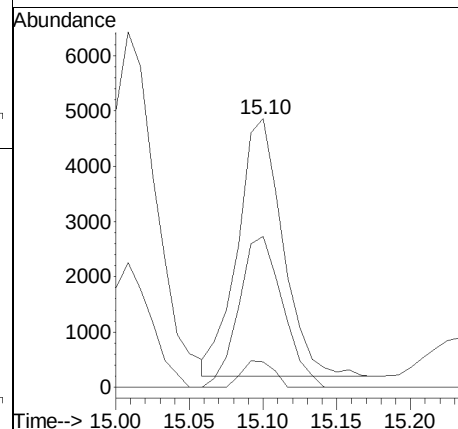
Tgt	Ion	Ratio	Lower	Upper
91	100			
92	62.5	50.3	75.5	

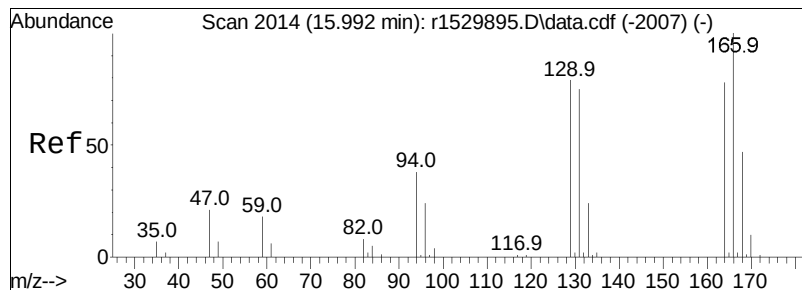




#72
 2-hexanone
 Concen: 0.23 ppbV
 RT: 15.10 min Scan# 1907
 Delta R.T. -0.008 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

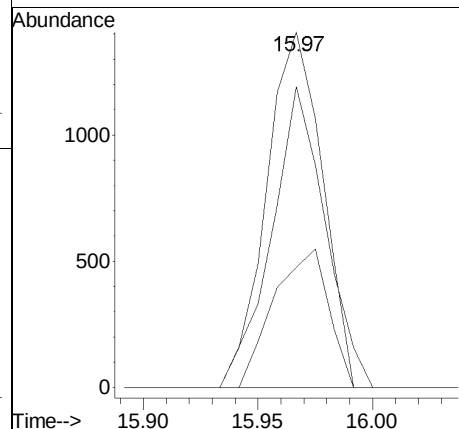
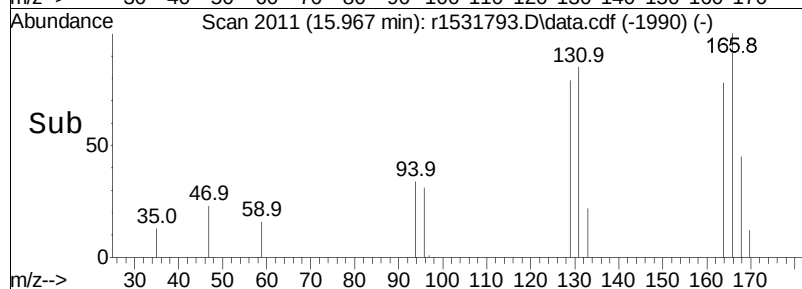
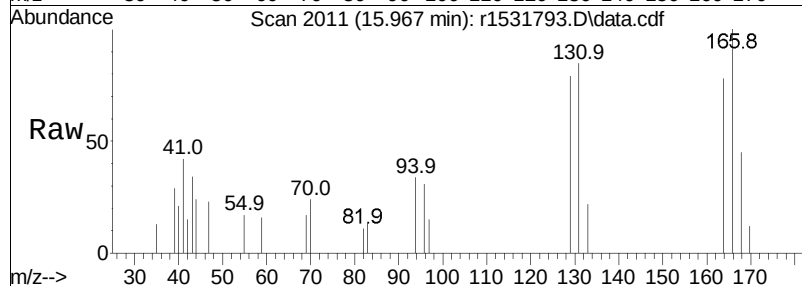
Tgt Ion:	43	Resp:	9996
Ion Ratio	Lower	Upper	
43	100		
58	56.2	56.6	85.0#
100	9.5	9.8	14.6#

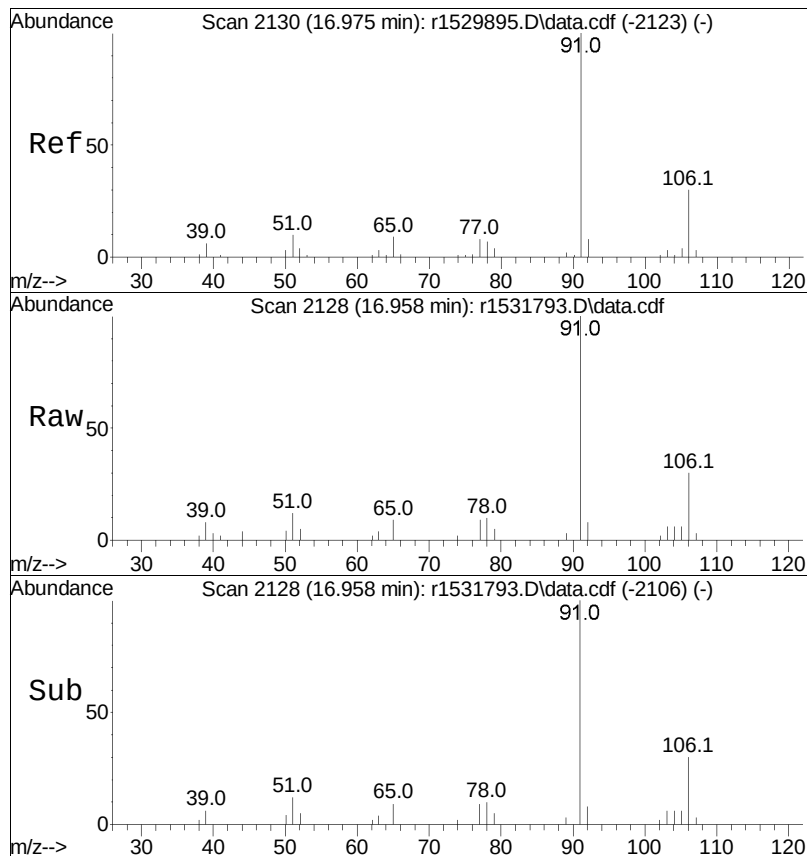




#78
 tetrachloroethene
 Concen: 0.09 ppbV
 RT: 15.97 min Scan# 2011
 Delta R.T. -0.025 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

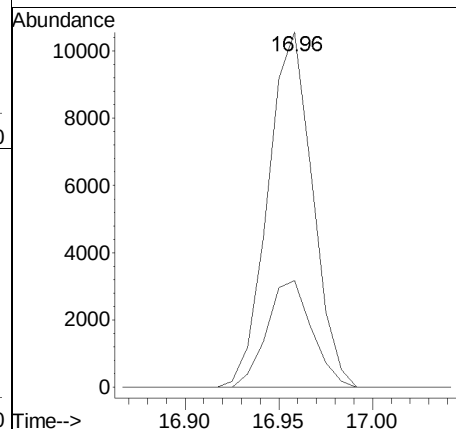
Tgt Ion	Ratio	Lower	Upper
166	100		
131	84.7	59.9	89.9
94	33.8	30.2	45.4

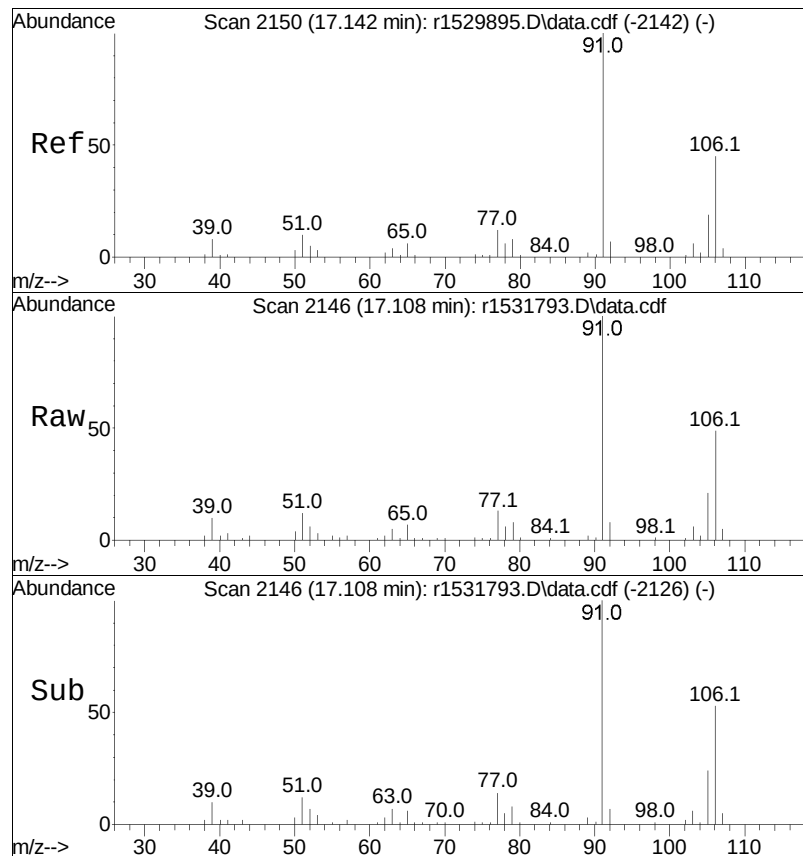




#81
ethylbenzene
Concen: 0.19 ppbV
RT: 16.96 min Scan# 2128
Delta R.T. -0.017 min
Lab File: r1531793.D
Acq: 21 Mar 2022 12:22 AM

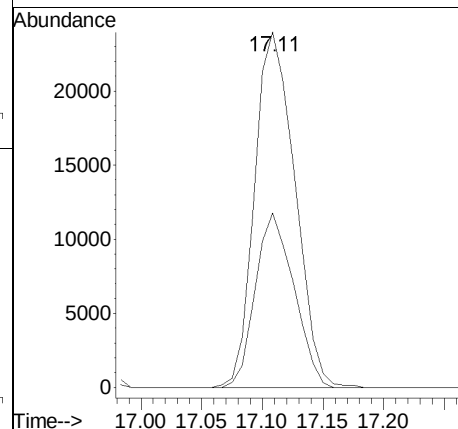
Tgt	Ion	Resp	Lower	Upper
91	100	17480		
106	30.1	24.1	36.1	

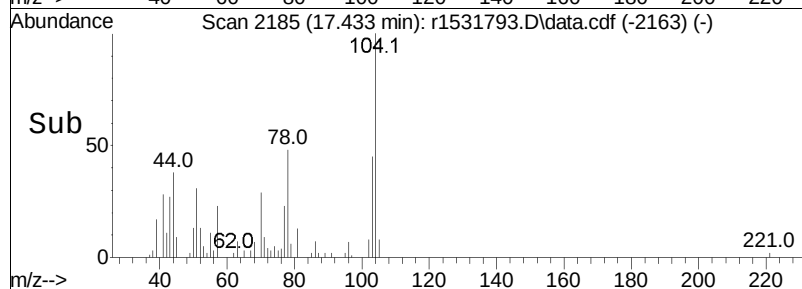
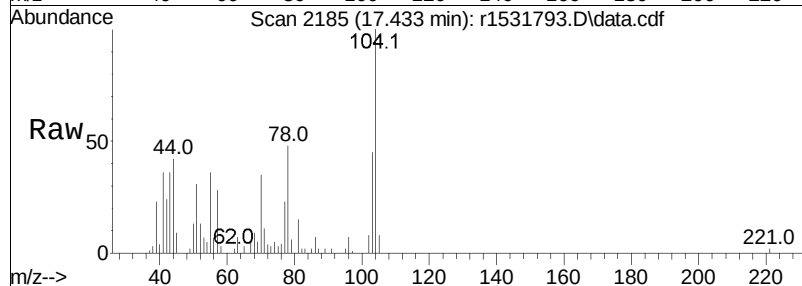
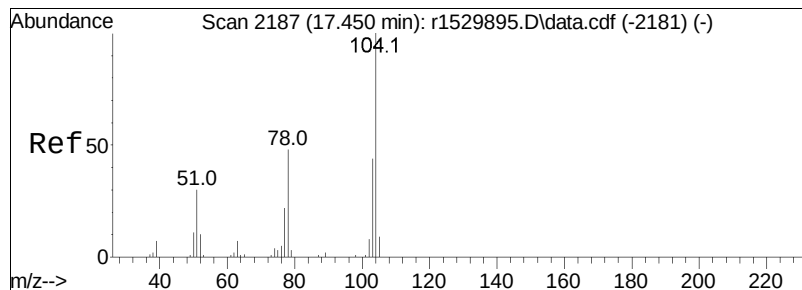




#83
 m+p-xylene
 Concen: 0.74 ppbV
 RT: 17.11 min Scan# 2146
 Delta R.T. -0.033 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

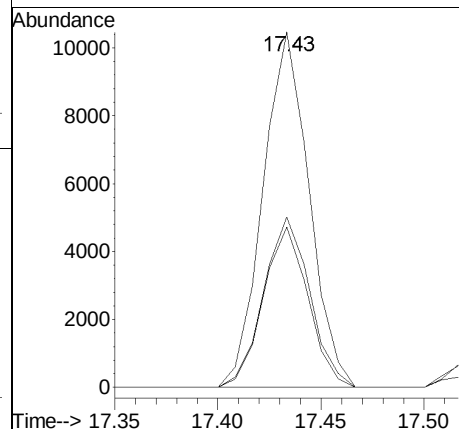
Tgt	Ion	Resp	55313
Ion	Ratio	Lower	Upper
91	100		
106	49.1	36.2	54.2

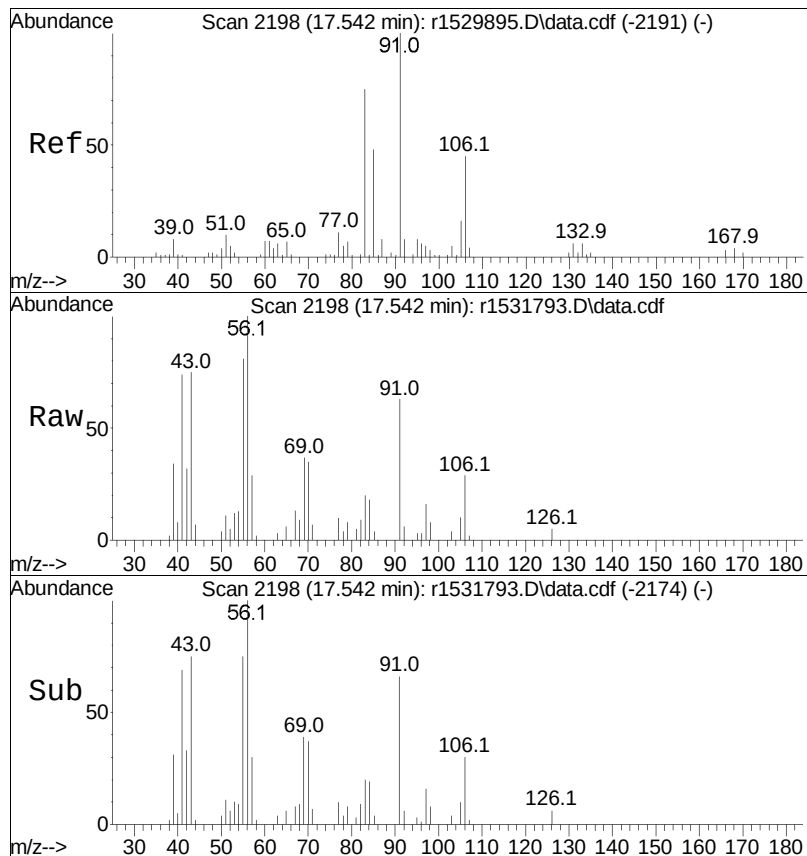




#85
styrene
Concen: 0.31 ppbV
RT: 17.43 min Scan# 2185
Delta R.T. -0.017 min
Lab File: r1531793.D
Acq: 21 Mar 2022 12:22 AM

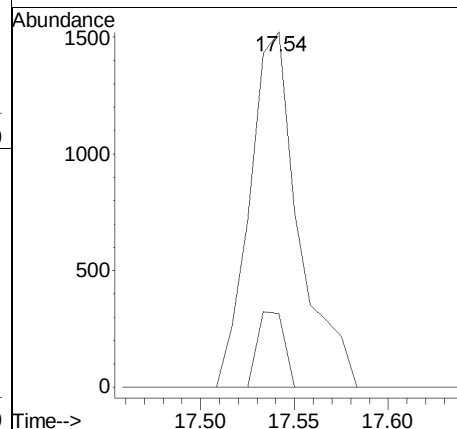
Tgt Ion	Ratio	Lower	Upper
104	100		
103	45.1	35.0	52.6
78	48.0	38.3	57.5

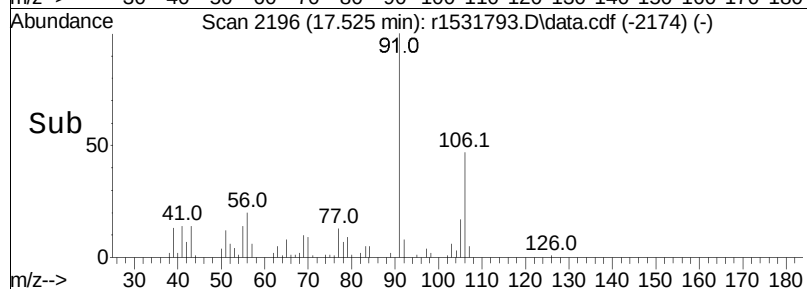
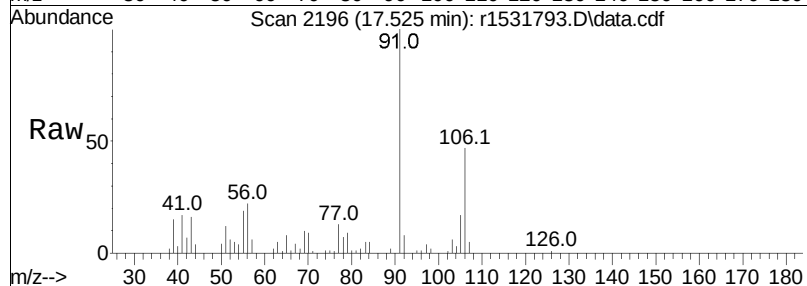
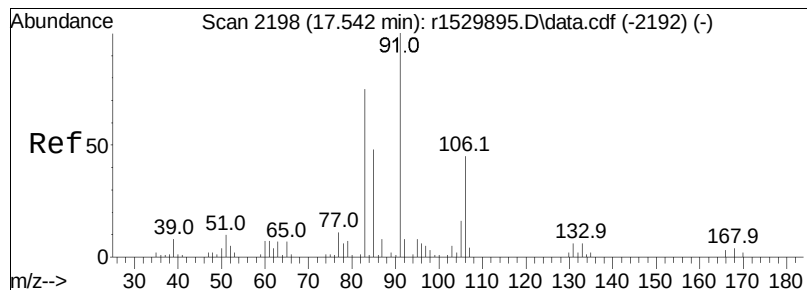




#86
 1,1,2,2-tetrachloroethane
 Concen: 0.05 ppbV
 RT: 17.54 min Scan# 2198
 Delta R.T. 0.000 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

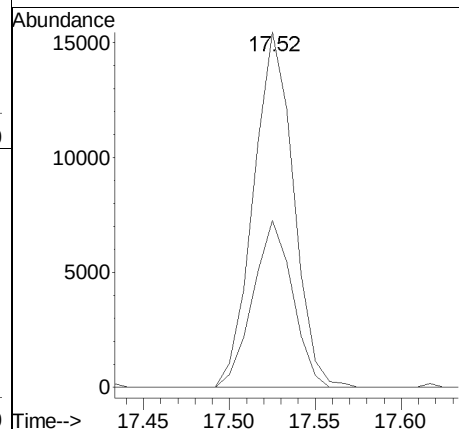
Tgt	Ion	Ratio	Lower	Upper
83	100			
85	20.8	51.5	77.3#	

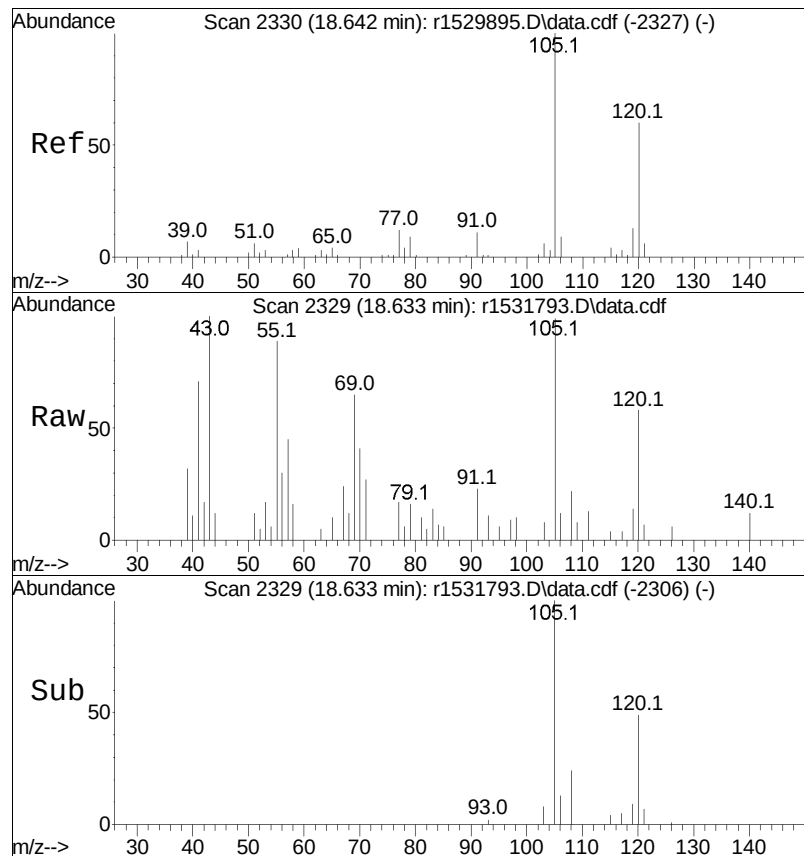




#87
o-xylene
Concen: 0.34 ppbV
RT: 17.52 min Scan# 2196
Delta R.T. -0.017 min
Lab File: r1531793.D
Acq: 21 Mar 2022 12:22 AM

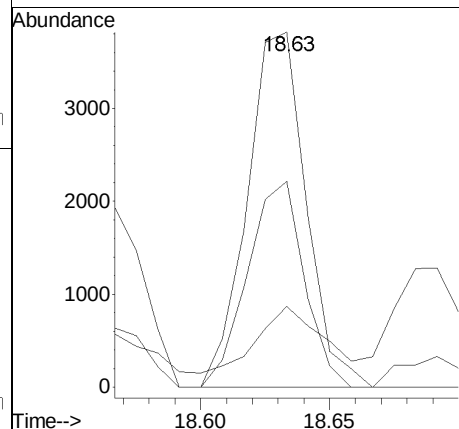
Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.0	35.8	53.8

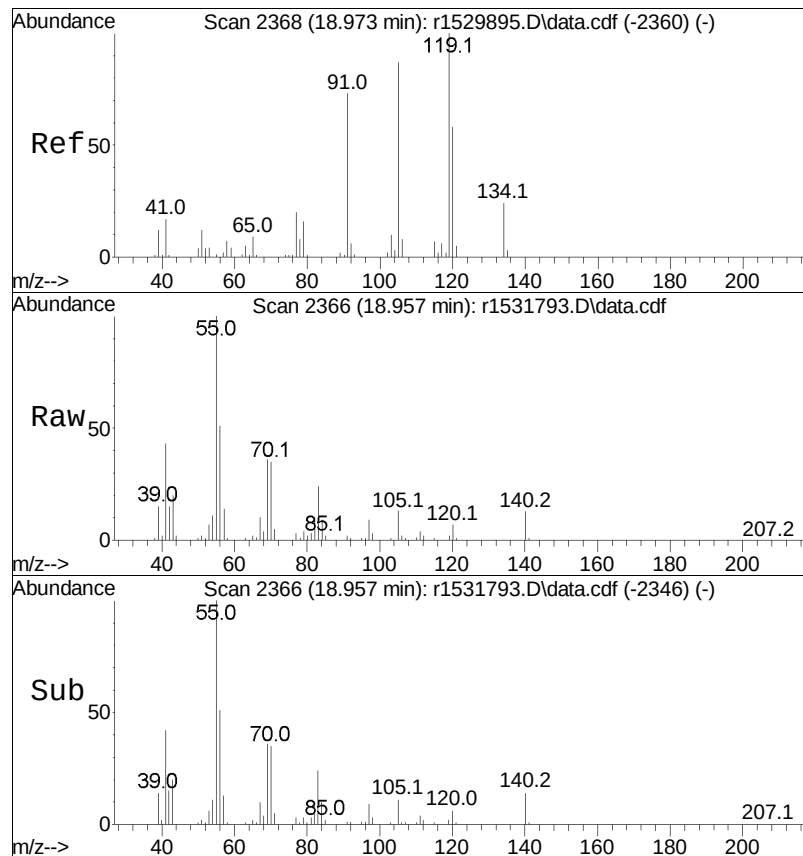




#97
 1,3,5-trimethylbenzene
 Concen: 0.08 ppbV
 RT: 18.63 min Scan# 2329
 Delta R.T. -0.008 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

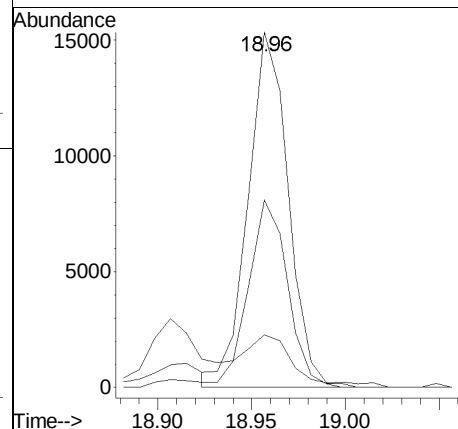
Tgt Ion	Ratio	Lower	Upper
105	100		
120	58.0	47.7	71.5
91	22.8	8.5	12.7#





#99
 1,2,4-trimethylbenzene
 Concen: 0.30 ppbV
 RT: 18.96 min Scan# 2366
 Delta R.T. -0.017 min
 Lab File: r1531793.D
 Acq: 21 Mar 2022 12:22 AM

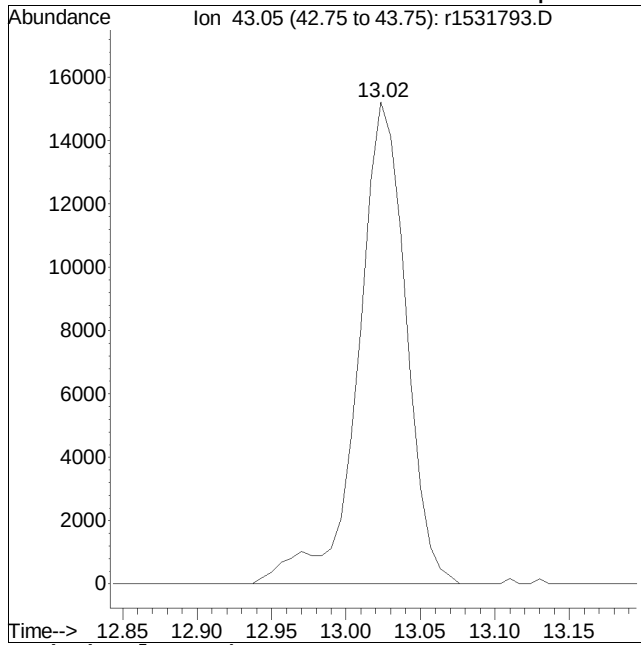
Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.7	52.7	79.1#
91	14.8	67.2	100.8#



Manual Integration/Negative Proof Report

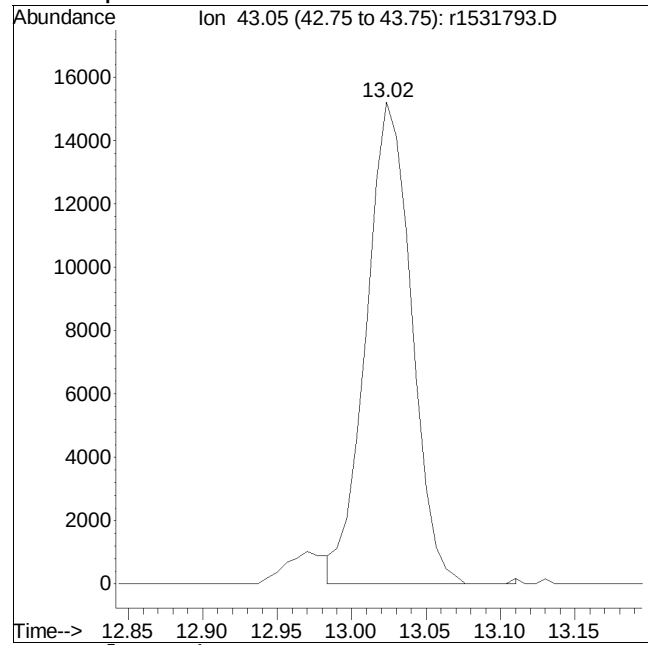
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_211222.M
Data File : r1531793.D Operator : AIRLAB15:RY
Date Inj'd : 3/21/2020 0:2: 2 Instrument :
Sample : L2213657-04D,3,189.9,250 Quant Date : 3/21/2022 8:54 am

Compound #62: heptane



Original Peak Response = 34180

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

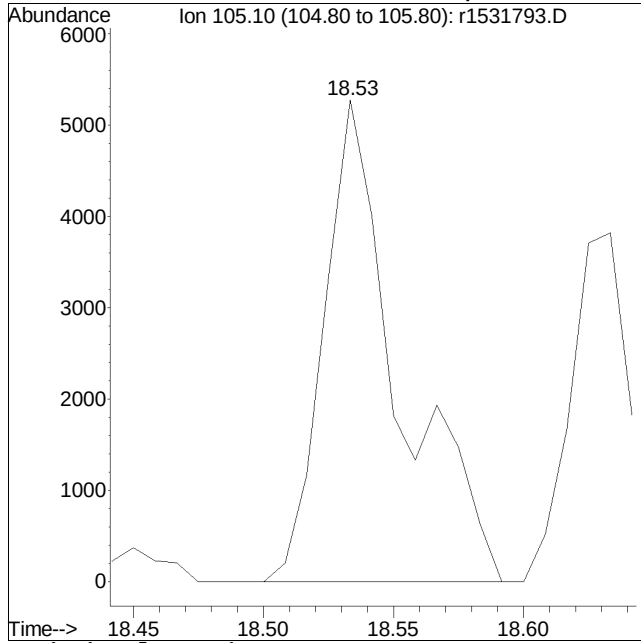


Manual Peak Response = 32295 M6

Manual Integration/Negative Proof Report

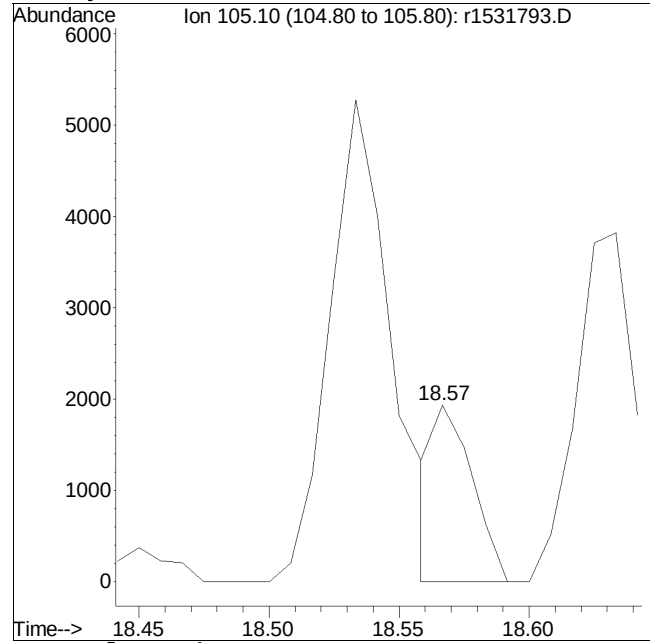
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_211222.M
Data File : r1531793.D Operator : AIRLAB15:RY
Date Inj'd : 3/21/2020 0:2: 2 Instrument :
Sample : L2213657-04D,3,189.9,250 Quant Date : 3/21/2022 8:54 am

Compound #96: 4-ethyl toluene



Original Peak Response = 10588

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 2017 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531799.D
 Acq On : 21 Mar 2022 9:06 AM
 Operator : AIRLAB15:RY
 Sample : L2213657-05D, 3, 50, 250
 Misc : WG1617728, ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 09:47:01 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : ETOH_Only - Sub List Unknown

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.57	49	366355	10.000	ppbV	-0.05
Standard Area = 382239			Recovery =		95.84%	
43) 1,4-difluorobenzene	11.84	114	769840	10.000	ppbV	-0.05
Standard Area = 859136			Recovery =		89.61%	
67) chlorobenzene-D5	16.53	54	184461	10.000	ppbV	-0.06
Standard Area = 200634			Recovery =		91.94%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) ethanol	5.27	31	3369582	320.762	ppbV	100

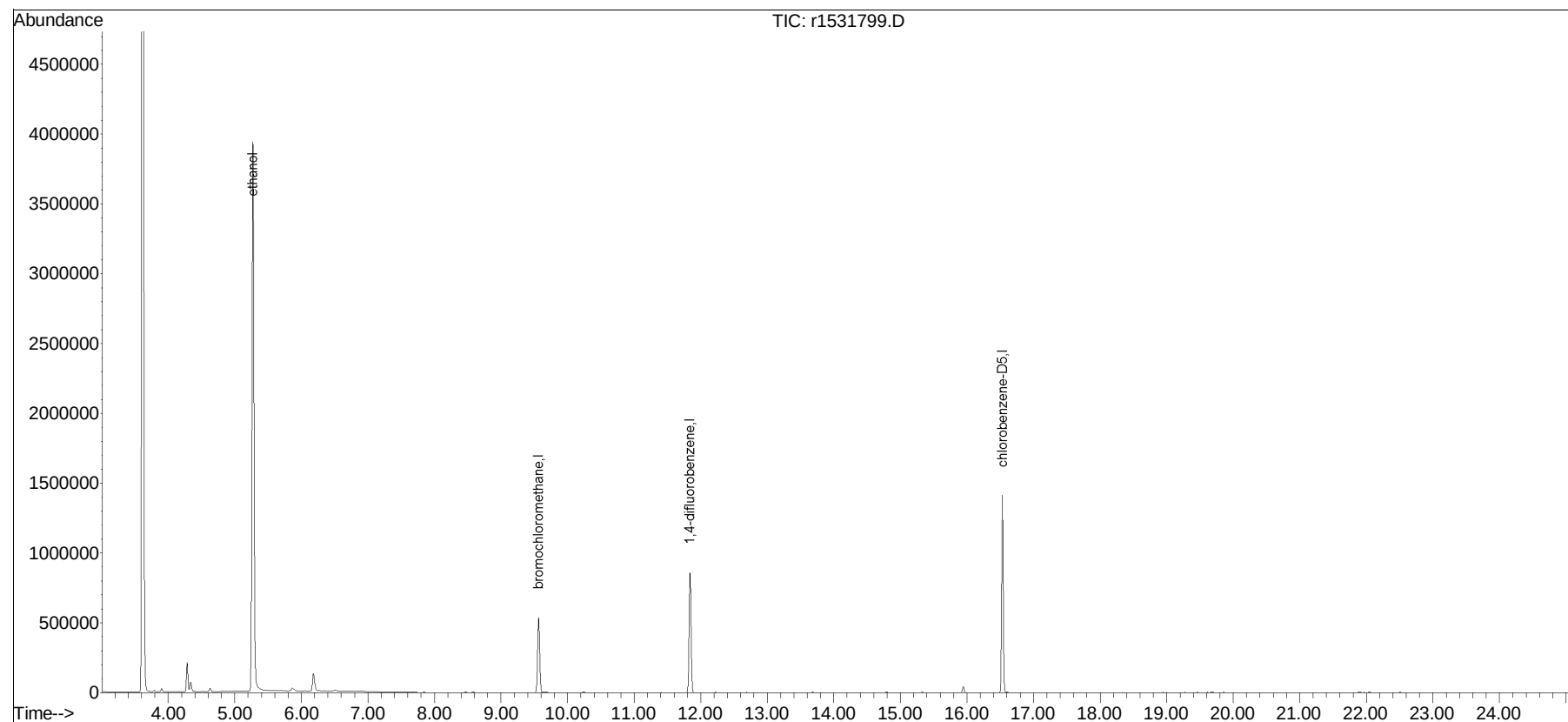
(#) = qualifier out of range (m) = manual integration (+) = signals summed

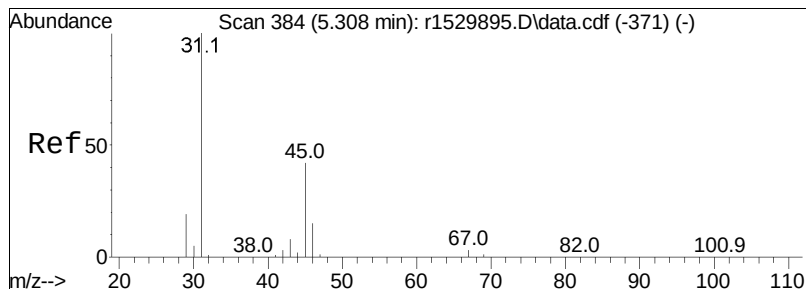
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
Data File : r1531799.D
Acq On : 21 Mar 2022 9:06 AM
Operator : AIRLAB15:RY
Sample : L2213657-05D, 3, 50, 250
Misc : WG1617728, ICAL18600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 09:47:01 2022
Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 16:29:20 2021
Response via : Initial Calibration

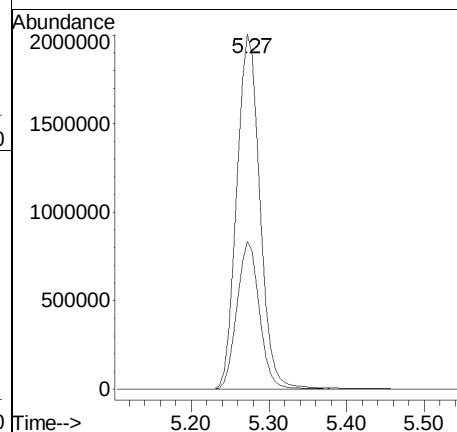
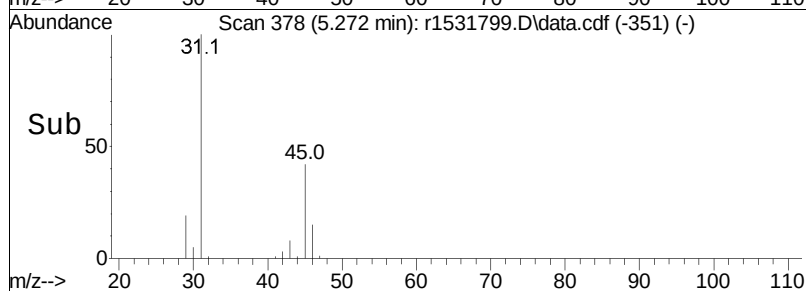
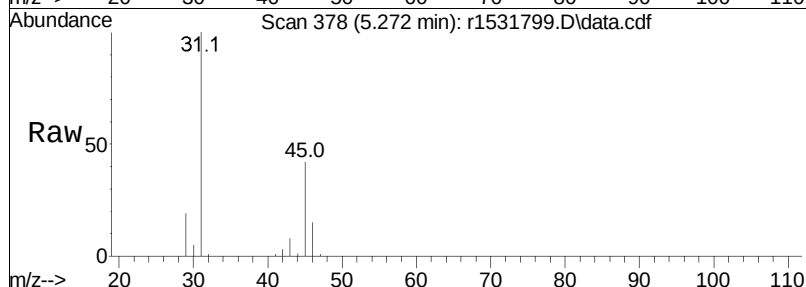
Sub List : ETOH_Only - Sub List Unknown022\03\0320T\r1531778.D





#15
ethanol
Concen: 320.76 ppbV
RT: 5.27 min Scan# 378
Delta R.T. -0.036 min
Lab File: r1531799.D
Acq: 21 Mar 2022 9:06 AM

Tgt Ion: 31 Resp: 3369582
Ion Ratio Lower Upper
31 100
45 41.6 33.4 50.2



Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\Airlab15\QMethod	: TFS15_211222.M
Data File	: r1531799.D	Operator : AIRLAB15:RY
Date Inj'd	: 3/21/2020 0:9: 6	Instrument :
Sample	: L2213657-05D,3,50,250	Quant Date : 3/21/2022 9:47 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2213657
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : AIRLAB15 **Ical Ref** : ICAL18600
Calibration dates : 12/22/21 06:12 12/22/21 10:49

Calibration Files

0.2 =r1529891.D 0.5 =r1529892.D 1.0 =r1529893.D 5.0 =r1529894.D 10 =r1529895.D 20 =r1529896.D
 50 =r1529897.D 100 =r1529898.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoromethane	0.850	0.792	0.765	0.697	0.647	0.677	0.613	0.579	0.7025	13.23
3) propylene		0.429	0.428	0.386	0.375	0.407	0.373	0.384	0.3975	6.01
4) propane		0.761	0.711	0.609	0.557	0.577	0.512	0.469	0.5994	17.42
5) dichlorodifluoromethane	0.894	0.859	0.811	0.766	0.703	0.696	0.619	0.569	0.7396	15.41
6) C chloromethane	0.435	0.404	0.389	0.370	0.348	0.356	0.327	0.319	0.3686	10.71
7) Freon-114	1.063	0.989	0.971	0.912	0.853	0.846	0.747	0.679	0.8825	14.50
8) C methanol			0.289	0.214	0.197	0.202	0.176	0.159	0.2063	21.74
9) C vinyl chloride	0.557	0.525	0.518	0.488	0.468	0.474	0.432	0.410	0.4841	10.11
10) C 1,3-butadiene	0.429	0.395	0.397	0.354	0.338	0.351	0.315	0.298	0.3595	12.33
11) butane	0.914	0.814	0.774	0.705	0.673	0.725	0.683	0.668	0.7446	11.48
12) C acetaldehyde		0.270	0.253	0.229	0.207	0.200	0.166	0.140	0.2091	22.06
13) C bromomethane	0.438	0.411	0.394	0.366	0.354	0.351	0.316	0.297	0.3659	12.87
14) C chloroethane	0.260	0.254	0.253	0.242	0.235	0.237	0.220	0.212	0.2392	7.09
15) ethanol			0.383	0.304	0.318	0.305	0.244	0.167	0.2867	25.59
16) dichlorofluoromethane	1.002	0.939	0.891	0.859	0.816	0.884	0.650	0.642	0.8354	15.44
17) C vinyl bromide	0.367	0.346	0.329	0.315	0.305	0.337	0.318	0.303	0.3274	6.66
18) C acrolein		0.223	0.211	0.195	0.189	0.202	0.182	0.176	0.1969	8.30
19) acetone	0.723	0.627	0.600	0.546	0.530	0.557	0.506	0.481	0.5713	13.54
20) C acetonitrile	0.521	0.484	0.476	0.418	0.416	0.446	0.418	0.407	0.4484	9.18
21) trichlorofluoromethane	0.842	0.770	0.743	0.708	0.682	0.700	0.631	0.599	0.7095	10.86
22) isopropyl alcohol	0.705	0.627	0.609	0.581	0.578	0.640	0.604	0.596	0.6174	6.65
23) C acrylonitrile	0.390	0.371	0.360	0.339	0.332	0.363	0.324	0.313	0.3492	7.48
24) pentane	1.017	0.906	1.140	1.030	0.974	1.152	1.062	1.070	1.0439	7.81
25) ethyl ether	0.827	0.784	0.760	0.711	0.682	0.790	0.598	0.507	0.7073	15.36
26) C 1,1-dichloroethene	0.772	0.729	0.709	0.687	0.666	0.695	0.613	0.572	0.6805	9.36
27) tertiary butyl alcohol		0.851	0.847	0.781	0.767	0.852	0.766	0.726	0.7986	6.40
28) C methylene chloride		0.536	0.517	0.470	0.457	0.473	0.422	0.405	0.4685	10.03
29) C 3-chloropropene	0.674	0.611	0.599	0.576	0.558	0.628	0.599	0.598	0.6056	5.74
30) C carbon disulfide	0.968	0.919	0.911	0.929	0.957	1.084	1.017	0.991	0.9719	5.96
31) Freon 113	0.839	0.761	0.740	0.717	0.685	0.716	0.651	0.608	0.7145	9.81
32) trans-1,2-dichloroethene	0.835	0.818	0.771	0.728	0.708	0.796	0.756	0.730	0.7679	5.92
33) C 1,1-dichloroethane	0.942	0.920	0.900	0.875	0.862	0.916	0.875	0.867	0.8947	3.27
34) C MTBE	1.097	1.085	1.064	0.996	0.985	1.094	1.018	0.999	1.0422	4.57
35) C vinyl acetate	0.915	0.891	0.880	0.864	0.899	1.070	1.041	1.049	0.9513	9.06
36) C 2-butanone		1.039	1.046	0.982	0.971	1.078	1.021	1.004	1.0200	3.67



Initial Calibration Summary

Form 6

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2213657
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : AIRLAB15 **Ical Ref** : ICAL18600
Calibration dates : 12/22/21 06:12 12/22/21 10:49

Calibration Files

0.2 =r1529891.D 0.5 =r1529892.D 1.0 =r1529893.D 5.0 =r1529894.D 10 =r1529895.D 20 =r1529896.D
 50 =r1529897.D 100 =r1529898.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)	cis-1,2-dichloroethene	0.761	0.730	0.718	0.696	0.684	0.734	0.697	0.671	0.7112	4.18
38)	Ethyl Acetate		0.188	0.181	0.177	0.173	0.198	0.195	0.183	0.1849	4.90
39) C	chloroform	0.984	0.926	0.893	0.851	0.836	0.865	0.753	0.662	0.8461	11.86
40)	Tetrahydrofuran		0.630	0.635	0.602	0.605	0.673	0.648	0.645	0.6340	3.95
41)	2,2-dichloropropane	0.604	0.567	0.572	0.551	0.552	0.621	0.564	0.529	0.5701	5.18
42) C	1,2-dichloroethane	0.662	0.640	0.614	0.592	0.577	0.614	0.598	0.570	0.6085	5.15
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.468	0.453	0.438	0.410	0.410	0.452	0.400	0.341	0.4218	9.66
45)	diisopropyl ether	0.203	0.200	0.201	0.185	0.182	0.203	0.177	0.153	0.1880	9.19
46)	tert-butyl ethyl ether	0.748	0.738	0.723	0.683	0.680	0.758	0.691	0.643	0.7079	5.62
47) s	1,2-dichloroethane-D4	0.294	0.290	0.293	0.290	0.291	0.290	0.285	0.287	0.2900	1.01
48) C	1,1,1-trichloroethane	0.297	0.288	0.283	0.284	0.285	0.309	0.283	0.271	0.2874	3.89
49)	1,1-dichloropropene	0.309	0.296	0.294	0.276	0.277	0.305	0.275	0.262	0.2867	5.77
50) C	benzene	0.936	0.762	0.724	0.664	0.652	0.689	0.618	0.573	0.7021	15.85
51)	thiophene	0.464	0.442	0.437	0.414	0.416	0.456	0.402	0.359	0.4238	7.99
52) C	carbon tetrachloride	0.271	0.255	0.252	0.256	0.260	0.278	0.244	0.221	0.2545	6.75
53)	cyclohexane	0.477	0.472	0.470	0.435	0.437	0.483	0.440	0.398	0.4515	6.43
54)	tert-amyl methyl ether	0.570	0.533	0.521	0.499	0.503	0.554	0.515	0.497	0.5241	5.06
55)	dibromomethane	0.261	0.235	0.224	0.209	0.208	0.229	0.210	0.187	0.2203	10.06
56) C	1,2-dichloropropane	0.289	0.270	0.258	0.253	0.251	0.270	0.256	0.246	0.2617	5.27
57)	bromodichloromethane	0.372	0.359	0.363	0.360	0.365	0.408	0.356	0.318	0.3626	6.70
58) C	1,4-dioxane	0.174	0.162	0.165	0.158	0.159	0.179	0.161	0.141	0.1622	7.00
59) C	trichloroethene	0.275	0.274	0.276	0.264	0.261	0.279	0.256	0.229	0.2642	6.18
60) C	2,2,4-trimethylpentane	1.569	1.492	1.484	1.385	1.340	1.470	1.308	1.144	1.3990	9.62
61)	methyl methacrylate		0.291	0.290	0.285	0.290	0.316	0.295	0.289	0.2938	3.51
62)	heptane	0.500	0.479	0.482	0.446	0.444	0.491	0.444	0.423	0.4636	6.00
63) C	cis-1,3-dichloropropene	0.280	0.279	0.276	0.294	0.305	0.332	0.307	0.296	0.2961	6.32
64) C	4-methyl-2-pentanone		0.515	0.520	0.508	0.508	0.570	0.527	0.504	0.5217	4.34
65)	trans-1,3-dichloropropene	0.240	0.246	0.250	0.273	0.286	0.312	0.290	0.283	0.2725	9.23
66) C	1,1,2-trichloroethane	0.263	0.247	0.249	0.241	0.239	0.256	0.246	0.234	0.2467	3.86
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	4.858	3.975	3.698	3.469	3.434	3.690	3.467	3.201	3.7240	13.77
69) s	toluene-D8	4.014	3.951	4.079	4.088	4.086	4.164	4.418	4.764	4.1958	6.39
70)	2-methylthiophene	2.696	2.576	2.552	2.416	2.425	2.759	2.675	2.636	2.5920	4.79
71)	1,3-dichloropropane	1.710	1.586	1.612	1.468	1.456	1.621	1.502	1.460	1.5519	6.04
72)	2-hexanone	2.000	2.044	2.068	2.014	2.031	2.307	2.199	2.147	2.1012	5.12



Initial Calibration Summary

Form 6

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2213657
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : AIRLAB15 **Ical Ref** : ICAL18600
Calibration dates : 12/22/21 06:12 12/22/21 10:49

Calibration Files

0.2 =r1529891.D 0.5 =r1529892.D 1.0 =r1529893.D 5.0 =r1529894.D 10 =r1529895.D 20 =r1529896.D
 50 =r1529897.D 100 =r1529898.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)	3-methylthiophene	2.735	2.583	2.602	2.499	2.511	2.844	2.738	2.604	2.6394	4.59
74)	dibromochloromethane	1.284	1.252	1.286	1.369	1.410	1.624	1.534	1.426	1.3981	9.32
75) C	1,2-dibromoethane	1.518	1.414	1.446	1.432	1.414	1.546	1.480	1.486	1.4670	3.32
76)	butyl acetate		0.331	0.340	0.351	0.357	0.412	0.404	0.411	0.3722	9.58
77)	octane	1.418	1.353	1.385	1.329	1.316	1.463	1.320	1.216	1.3499	5.53
78) C	tetrachloroethene	1.375	1.331	1.311	1.280	1.270	1.356	1.264	1.150	1.2920	5.42
79)	1,1,1,2-tetrachloroethane	1.093	1.104	1.107	1.075	1.112	1.268	1.170	1.052	1.1226	6.05
80) C	chlorobenzene	2.745	2.626	2.534	2.469	2.481	2.636	2.434	2.222	2.5183	6.29
81) C	ethylbenzene	4.524	4.285	4.349	4.361	4.384	4.761	4.487	4.127	4.4097	4.24
82)	2-ethylthiophene	3.051	2.965	3.023	2.925	2.909	3.296	3.194	3.069	3.0539	4.37
83) C	m+p-xylene	3.775	3.631	3.679	3.589	3.594	3.859	3.491	3.049	3.5834	6.82
84) C	bromoform	0.974	0.930	0.994	1.076	1.170	1.377	1.312	1.196	1.1287	14.44
85) C	styrene	2.459	2.412	2.451	2.461	2.521	2.733	2.665	2.622	2.5405	4.63
86) C	1,1,2,2-tetrachloroethane	2.943	2.732	2.758	2.690	2.680	2.788	2.371	1.994	2.6194	11.42
87) C	o-xylene	3.729	3.687	3.686	3.642	3.645	3.865	3.349	2.862	3.5580	8.88
88)	1,2,3-trichloropropane	2.097	2.000	2.026	1.862	1.854	2.049	1.923	1.859	1.9588	4.91
89)	nonane	3.314	3.147	3.161	2.960	2.954	3.243	2.959	2.771	3.0637	5.93
90) s	bromofluorobenzene	2.774	2.789	2.978	3.033	3.038	3.146	3.228	3.476	3.0578	7.54
91) C	isopropylbenzene	4.582	4.396	4.384	4.114	4.072	4.542	4.211	4.010	4.2887	5.08
92)	bromobenzene	2.778	2.605	2.637	2.457	2.428	2.679	2.472	2.321	2.5470	5.95
93)	2-chlorotoluene	1.341	1.283	1.311	1.251	1.260	1.439	1.340	1.215	1.3051	5.35
94)	n-propylbenzene	1.576	1.539	1.529	1.488	1.467	1.649	1.484	1.317	1.5061	6.40
95)	4-chlorotoluene	1.371	1.295	1.300	1.253	1.250	1.418	1.337	1.231	1.3069	4.96
96)	4-ethyl toluene	4.594	4.544	4.610	4.322	4.310	4.877	4.554	4.265	4.5093	4.52
97)	1,3,5-trimethylbenzene	3.924	3.826	3.883	3.798	3.759	4.068	3.802	3.525	3.8231	4.05
98)	tert-butylbenzene	4.437	4.456	4.477	4.280	4.188	4.360	3.617	3.075	4.1112	12.24
99)	1,2,4-trimethylbenzene	3.896	3.758	3.822	3.792	3.745	3.969	3.475	2.998	3.6819	8.47
100)	decane	4.219	4.160	4.213	4.016	4.046	4.453	3.901	3.277	4.0358	8.63
101) C	Benzyl Chloride	1.772	1.834	1.950	2.114	2.388	3.086	3.012	2.763	2.3650	22.41
102)	1,3-dichlorobenzene	2.521	2.416	2.501	2.487	2.498	2.693	2.593	2.294	2.5002	4.69
103) C	1,4-dichlorobenzene	2.495	2.406	2.415	2.399	2.475	2.699	2.488	2.327	2.4630	4.49
104)	sec-butylbenzene	5.637	5.477	5.607	5.352	5.329	5.842	5.452	4.831	5.4409	5.47
105)	1,2,3-trimethylbenzene	3.344	3.376	3.452	3.372	3.331	3.552	3.174	2.739	3.2926	7.54
106)	p-isopropyltoluene	5.397	5.326	5.336	5.151	5.050	5.324	4.409	3.663	4.9569	12.37
107)	1,2-dichlorobenzene	2.355	2.321	2.348	2.345	2.348	2.552	2.434	2.306	2.3760	3.38
108)	n-butylbenzene	4.865	4.811	4.945	4.875	4.861	5.317	4.742	4.165	4.8226	6.58

Initial Calibration Summary

Form 6

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2213657
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : AIRLAB15 **Ical Ref** : ICAL18600
Calibration dates : 12/22/21 06:12 12/22/21 10:49

Calibration Files

0.2 =r1529891.D 0.5 =r1529892.D 1.0 =r1529893.D 5.0 =r1529894.D 10 =r1529895.D 20 =r1529896.D
 50 =r1529897.D 100 =r1529898.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)	indan	3.828	3.899	3.965	3.870	3.863	4.088	3.756	3.394	3.8329	5.29
110)	indene	2.876	2.888	2.991	2.987	3.007	3.286	3.086	2.857	2.9972	4.69
111) C	1,2-dibromo-3-chloropropane	0.825	0.891	0.963	0.997	1.025	1.144	1.096	1.076	1.0021	10.68
112)	undecane	4.021	4.339	4.571	4.653	4.622	4.993	4.312	3.567	4.3847	9.98
113)	1,2,4,5-tetramethylbenzene	3.654	3.870	4.094	3.186	3.155	4.403	3.961	3.631	3.7442	11.50
114)	dodecane	2.934	3.839	4.475	4.972	5.002	5.002	4.386	3.635	4.2806	17.65
115) C	1,2,4-trichlorobenzene	1.259	1.435	1.614	1.829	1.943	2.063	1.972	1.844	1.7451	16.17
116)	naphthalene	3.995	4.778	5.286	5.519	5.768	6.102	5.885	5.359	5.3364	12.71
117)	1,2,3-trichlorobenzene	1.165	1.451	1.677	1.749	1.863	1.963	1.944	1.809	1.7026	15.98
118)	benzothiophene		6.521	7.468	5.960	6.369	8.861	8.331	7.179	7.2413	14.69
119) C	hexachlorobutadiene	1.173	1.409	1.513	1.570	1.568	1.562	1.473	1.336	1.4505	9.65
120)	2-methylnaphthalene			0.826	0.586	0.685	1.024	1.291	1.436	0.9744	34.72#
121)	1-methylnaphthalene			1.705	1.363	1.529	2.106	2.567	2.671	1.9904	27.49

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Method File : TFS15_211222.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Wed Dec 22 16:29:20 2021
 Response Via : Initial Calibration

Calibration Files

0.2 =r1529891.D 0.5 =r1529892.D 1.0 =r1529893.D 5.0 =r1529894.D 10 =r1529895.D 20 =r1529896.D
 50 =r1529897.D 100 =r1529898.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
-----ISTD-----											
1) I	bromochloromethane										
2)	chlorodifluoromethane	0.850	0.792	0.765	0.697	0.647	0.677	0.613	0.579	0.7025	13.23
3)	propylene		0.429	0.428	0.386	0.375	0.407	0.373	0.384	0.3975	6.01
4)	propane		0.761	0.711	0.609	0.557	0.577	0.512	0.469	0.5994	17.42
5)	dichlorodifluoromethane	0.894	0.859	0.811	0.766	0.703	0.696	0.619	0.569	0.7396	15.41
6) C	chloromethane	0.435	0.404	0.389	0.370	0.348	0.356	0.327	0.319	0.3686	10.71
7)	Freon-114	1.063	0.989	0.971	0.912	0.853	0.846	0.747	0.679	0.8825	14.50
8) C	methanol			0.289	0.214	0.197	0.202	0.176	0.159	0.2063	21.74
9) C	vinyl chloride	0.557	0.525	0.518	0.488	0.468	0.474	0.432	0.410	0.4841	10.11
10) C	1,3-butadiene	0.429	0.395	0.397	0.354	0.338	0.351	0.315	0.298	0.3595	12.33
11)	butane	0.914	0.814	0.774	0.705	0.673	0.725	0.683	0.668	0.7446	11.48
12) C	acetaldehyde		0.270	0.253	0.229	0.207	0.200	0.166	0.140	0.2091	22.06
13) C	bromomethane	0.438	0.411	0.394	0.366	0.354	0.351	0.316	0.297	0.3659	12.87
14) C	chloroethane	0.260	0.254	0.253	0.242	0.235	0.237	0.220	0.212	0.2392	7.09
15)	ethanol			0.383	0.304	0.318	0.305	0.244	0.167	0.2867	25.59
16)	dichlorofluoromethane	1.002	0.939	0.891	0.859	0.816	0.884	0.650	0.642	0.8354	15.44
17) C	vinyl bromide	0.367	0.346	0.329	0.315	0.305	0.337	0.318	0.303	0.3274	6.66
18) C	acrolein		0.223	0.211	0.195	0.189	0.202	0.182	0.176	0.1969	8.30
19)	acetone	0.723	0.627	0.600	0.546	0.530	0.557	0.506	0.481	0.5713	13.54
20) C	acetonitrile	0.521	0.484	0.476	0.418	0.416	0.446	0.418	0.407	0.4484	9.18
21)	trichlorofluoromethane	0.842	0.770	0.743	0.708	0.682	0.700	0.631	0.599	0.7095	10.86
22)	isopropyl alcohol	0.705	0.627	0.609	0.581	0.578	0.640	0.604	0.596	0.6174	6.65
23) C	acrylonitrile	0.390	0.371	0.360	0.339	0.332	0.363	0.324	0.313	0.3492	7.48
24)	pentane	1.017	0.906	1.140	1.030	0.974	1.152	1.062	1.070	1.0439	7.81
25)	ethyl ether	0.827	0.784	0.760	0.711	0.682	0.790	0.598	0.507	0.7073	15.36
26) C	1,1-dichloroethene	0.772	0.729	0.709	0.687	0.666	0.695	0.613	0.572	0.6805	9.36
27)	tertiary butyl alcohol		0.851	0.847	0.781	0.767	0.852	0.766	0.726	0.7986	6.40
28) C	methylene chloride		0.536	0.517	0.470	0.457	0.473	0.422	0.405	0.4685	10.03
29) C	3-chloropropene	0.674	0.611	0.599	0.576	0.558	0.628	0.599	0.598	0.6056	5.74
30) C	carbon disulfide	0.968	0.919	0.911	0.929	0.957	1.084	1.017	0.991	0.9719	5.96
31)	Freon 113	0.839	0.761	0.740	0.717	0.685	0.716	0.651	0.608	0.7145	9.81

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2021\12\1222T_I\
Method File : TFS15_211222.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Dec 22 16:29:20 2021
Response Via : Initial Calibration

Calibration Files

0.2 =r1529891.D 0.5 =r1529892.D 1.0 =r1529893.D 5.0 =r1529894.D 10 =r1529895.D 20 =r1529896.D
50 =r1529897.D 100 =r1529898.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)	trans-1,2-dichloroethene	0.835	0.818	0.771	0.728	0.708	0.796	0.756	0.730	0.7679	5.92
33) C	1,1-dichloroethane	0.942	0.920	0.900	0.875	0.862	0.916	0.875	0.867	0.8947	3.27
34) C	MTBE	1.097	1.085	1.064	0.996	0.985	1.094	1.018	0.999	1.0422	4.57
35) C	vinyl acetate	0.915	0.891	0.880	0.864	0.899	1.070	1.041	1.049	0.9513	9.06
36) C	2-butanone		1.039	1.046	0.982	0.971	1.078	1.021	1.004	1.0200	3.67
37)	cis-1,2-dichloroethene	0.761	0.730	0.718	0.696	0.684	0.734	0.697	0.671	0.7112	4.18
38)	Ethyl Acetate		0.188	0.181	0.177	0.173	0.198	0.195	0.183	0.1849	4.90
39) C	chloroform	0.984	0.926	0.893	0.851	0.836	0.865	0.753	0.662	0.8461	11.86
40)	Tetrahydrofuran		0.630	0.635	0.602	0.605	0.673	0.648	0.645	0.6340	3.95
41)	2,2-dichloropropane	0.604	0.567	0.572	0.551	0.552	0.621	0.564	0.529	0.5701	5.18
42) C	1,2-dichloroethane	0.662	0.640	0.614	0.592	0.577	0.614	0.598	0.570	0.6085	5.15
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.468	0.453	0.438	0.410	0.410	0.452	0.400	0.341	0.4218	9.66
45)	diisopropyl ether	0.203	0.200	0.201	0.185	0.182	0.203	0.177	0.153	0.1880	9.19
46)	tert-butyl ethyl ether	0.748	0.738	0.723	0.683	0.680	0.758	0.691	0.643	0.7079	5.62
47) s	1,2-dichloroethane-D4	0.294	0.290	0.293	0.290	0.291	0.290	0.285	0.287	0.2900	1.01
48) C	1,1,1-trichloroethane	0.297	0.288	0.283	0.284	0.285	0.309	0.283	0.271	0.2874	3.89
49)	1,1-dichloropropene	0.309	0.296	0.294	0.276	0.277	0.305	0.275	0.262	0.2867	5.77
50) C	benzene	0.936	0.762	0.724	0.664	0.652	0.689	0.618	0.573	0.7021	15.85
51)	thiophene	0.464	0.442	0.437	0.414	0.416	0.456	0.402	0.359	0.4238	7.99
52) C	carbon tetrachloride	0.271	0.255	0.252	0.256	0.260	0.278	0.244	0.221	0.2545	6.75
53)	cyclohexane	0.477	0.472	0.470	0.435	0.437	0.483	0.440	0.398	0.4515	6.43
54)	tert-amyl methyl ether	0.570	0.533	0.521	0.499	0.503	0.554	0.515	0.497	0.5241	5.06
55)	dibromomethane	0.261	0.235	0.224	0.209	0.208	0.229	0.210	0.187	0.2203	10.06
56) C	1,2-dichloropropane	0.289	0.270	0.258	0.253	0.251	0.270	0.256	0.246	0.2617	5.27
57)	bromodichloromethane	0.372	0.359	0.363	0.360	0.365	0.408	0.356	0.318	0.3626	6.70
58) C	1,4-dioxane	0.174	0.162	0.165	0.158	0.159	0.179	0.161	0.141	0.1622	7.00
59) C	trichloroethene	0.275	0.274	0.276	0.264	0.261	0.279	0.256	0.229	0.2642	6.18
60) C	2,2,4-trimethylpentane	1.569	1.492	1.484	1.385	1.340	1.470	1.308	1.144	1.3990	9.62
61)	methyl methacrylate		0.291	0.290	0.285	0.290	0.316	0.295	0.289	0.2938	3.51
62)	heptane	0.500	0.479	0.482	0.446	0.444	0.491	0.444	0.423	0.4636	6.00

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2021\12\1222T_I\
Method File : TFS15_211222.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Dec 22 16:29:20 2021
Response Via : Initial Calibration

Calibration Files

0.2 =r1529891.D 0.5 =r1529892.D 1.0 =r1529893.D 5.0 =r1529894.D 10 =r1529895.D 20 =r1529896.D
50 =r1529897.D 100 =r1529898.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63) C	cis-1,3-dichloropropene	0.280	0.279	0.276	0.294	0.305	0.332	0.307	0.296	0.2961	6.32
64) C	4-methyl-2-pentanone		0.515	0.520	0.508	0.508	0.570	0.527	0.504	0.5217	4.34
65)	trans-1,3-dichloropropene	0.240	0.246	0.250	0.273	0.286	0.312	0.290	0.283	0.2725	9.23
66) C	1,1,2-trichloroethane	0.263	0.247	0.249	0.241	0.239	0.256	0.246	0.234	0.2467	3.86
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	4.858	3.975	3.698	3.469	3.434	3.690	3.467	3.201	3.7240	13.77
69) s	toluene-D8	4.014	3.951	4.079	4.088	4.086	4.164	4.418	4.764	4.1958	6.39
70)	2-methylthiophene	2.696	2.576	2.552	2.416	2.425	2.759	2.675	2.636	2.5920	4.79
71)	1,3-dichloropropane	1.710	1.586	1.612	1.468	1.456	1.621	1.502	1.460	1.5519	6.04
72)	2-hexanone	2.000	2.044	2.068	2.014	2.031	2.307	2.199	2.147	2.1012	5.12
73)	3-methylthiophene	2.735	2.583	2.602	2.499	2.511	2.844	2.738	2.604	2.6394	4.59
74)	dibromochloromethane	1.284	1.252	1.286	1.369	1.410	1.624	1.534	1.426	1.3981	9.32
75) C	1,2-dibromoethane	1.518	1.414	1.446	1.432	1.414	1.546	1.480	1.486	1.4670	3.32
76)	butyl acetate		0.331	0.340	0.351	0.357	0.412	0.404	0.411	0.3722	9.58
77)	octane	1.418	1.353	1.385	1.329	1.316	1.463	1.320	1.216	1.3499	5.53
78) C	tetrachloroethene	1.375	1.331	1.311	1.280	1.270	1.356	1.264	1.150	1.2920	5.42
79)	1,1,1,2-tetrachloroethane	1.093	1.104	1.107	1.075	1.112	1.268	1.170	1.052	1.1226	6.05
80) C	chlorobenzene	2.745	2.626	2.534	2.469	2.481	2.636	2.434	2.222	2.5183	6.29
81) C	ethylbenzene	4.524	4.285	4.349	4.361	4.384	4.761	4.487	4.127	4.4097	4.24
82)	2-ethylthiophene	3.051	2.965	3.023	2.925	2.909	3.296	3.194	3.069	3.0539	4.37
83) C	m+p-xylene	3.775	3.631	3.679	3.589	3.594	3.859	3.491	3.049	3.5834	6.82
84) C	bromoform	0.974	0.930	0.994	1.076	1.170	1.377	1.312	1.196	1.1287	14.44
85) C	styrene	2.459	2.412	2.451	2.461	2.521	2.733	2.665	2.622	2.5405	4.63
86) C	1,1,2,2-tetrachloroethane	2.943	2.732	2.758	2.690	2.680	2.788	2.371	1.994	2.6194	11.42
87) C	o-xylene	3.729	3.687	3.686	3.642	3.645	3.865	3.349	2.862	3.5580	8.88
88)	1,2,3-trichloropropane	2.097	2.000	2.026	1.862	1.854	2.049	1.923	1.859	1.9588	4.91
89)	nonane	3.314	3.147	3.161	2.960	2.954	3.243	2.959	2.771	3.0637	5.93
90) s	bromofluorobenzene	2.774	2.789	2.978	3.033	3.038	3.146	3.228	3.476	3.0578	7.54
91) C	isopropylbenzene	4.582	4.396	4.384	4.114	4.072	4.542	4.211	4.010	4.2887	5.08
92)	bromobenzene	2.778	2.605	2.637	2.457	2.428	2.679	2.472	2.321	2.5470	5.95
93)	2-chlorotoluene	1.341	1.283	1.311	1.251	1.260	1.439	1.340	1.215	1.3051	5.35

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2021\12\1222T_I\
Method File : TFS15_211222.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Dec 22 16:29:20 2021
Response Via : Initial Calibration

Calibration Files

0.2 =r1529891.D 0.5 =r1529892.D 1.0 =r1529893.D 5.0 =r1529894.D 10 =r1529895.D 20 =r1529896.D
50 =r1529897.D 100 =r1529898.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)	n-propylbenzene	1.576	1.539	1.529	1.488	1.467	1.649	1.484	1.317	1.5061	6.40
95)	4-chlorotoluene	1.371	1.295	1.300	1.253	1.250	1.418	1.337	1.231	1.3069	4.96
96)	4-ethyl toluene	4.594	4.544	4.610	4.322	4.310	4.877	4.554	4.265	4.5093	4.52
97)	1,3,5-trimethylbenzene	3.924	3.826	3.883	3.798	3.759	4.068	3.802	3.525	3.8231	4.05
98)	tert-butylbenzene	4.437	4.456	4.477	4.280	4.188	4.360	3.617	3.075	4.1112	12.24
99)	1,2,4-trimethylbenzene	3.896	3.758	3.822	3.792	3.745	3.969	3.475	2.998	3.6819	8.47
100)	decane	4.219	4.160	4.213	4.016	4.046	4.453	3.901	3.277	4.0358	8.63
101) C	Benzyl Chloride	1.772	1.834	1.950	2.114	2.388	3.086	3.012	2.763	2.3650	22.41
102)	1,3-dichlorobenzene	2.521	2.416	2.501	2.487	2.498	2.693	2.593	2.294	2.5002	4.69
103) C	1,4-dichlorobenzene	2.495	2.406	2.415	2.399	2.475	2.699	2.488	2.327	2.4630	4.49
104)	sec-butylbenzene	5.637	5.477	5.607	5.352	5.329	5.842	5.452	4.831	5.4409	5.47
105)	1,2,3-trimethylbenzene	3.344	3.376	3.452	3.372	3.331	3.552	3.174	2.739	3.2926	7.54
106)	p-isopropyltoluene	5.397	5.326	5.336	5.151	5.050	5.324	4.409	3.663	4.9569	12.37
107)	1,2-dichlorobenzene	2.355	2.321	2.348	2.345	2.348	2.552	2.434	2.306	2.3760	3.38
108)	n-butylbenzene	4.865	4.811	4.945	4.875	4.861	5.317	4.742	4.165	4.8226	6.58
109)	indan	3.828	3.899	3.965	3.870	3.863	4.088	3.756	3.394	3.8329	5.29
110)	indene	2.876	2.888	2.991	2.987	3.007	3.286	3.086	2.857	2.9972	4.69
111) C	1,2-dibromo-3-chloropropane	0.825	0.891	0.963	0.997	1.025	1.144	1.096	1.076	1.0021	10.68
112)	undecane	4.021	4.339	4.571	4.653	4.622	4.993	4.312	3.567	4.3847	9.98
113)	1,2,4,5-tetramethylbenzene	3.654	3.870	4.094	3.186	3.155	4.403	3.961	3.631	3.7442	11.50
114)	dodecane	2.934	3.839	4.475	4.972	5.002	5.002	4.386	3.635	4.2806	17.65
115) C	1,2,4-trichlorobenzene	1.259	1.435	1.614	1.829	1.943	2.063	1.972	1.844	1.7451	16.17
116)	naphthalene	3.995	4.778	5.286	5.519	5.768	6.102	5.885	5.359	5.3364	12.71
117)	1,2,3-trichlorobenzene	1.165	1.451	1.677	1.749	1.863	1.963	1.944	1.809	1.7026	15.98
118)	benzothiophene		6.521	7.468	5.960	6.369	8.861	8.331	7.179	7.2413	14.69
119) C	hexachlorobutadiene	1.173	1.409	1.513	1.570	1.568	1.562	1.473	1.336	1.4505	9.65
120)	2-methylnaphthalene			0.826	0.586	0.685	1.024	1.291	1.436	0.9744	34.72#
121)	1-methylnaphthalene			1.705	1.363	1.529	2.106	2.567	2.671	1.9904	27.49

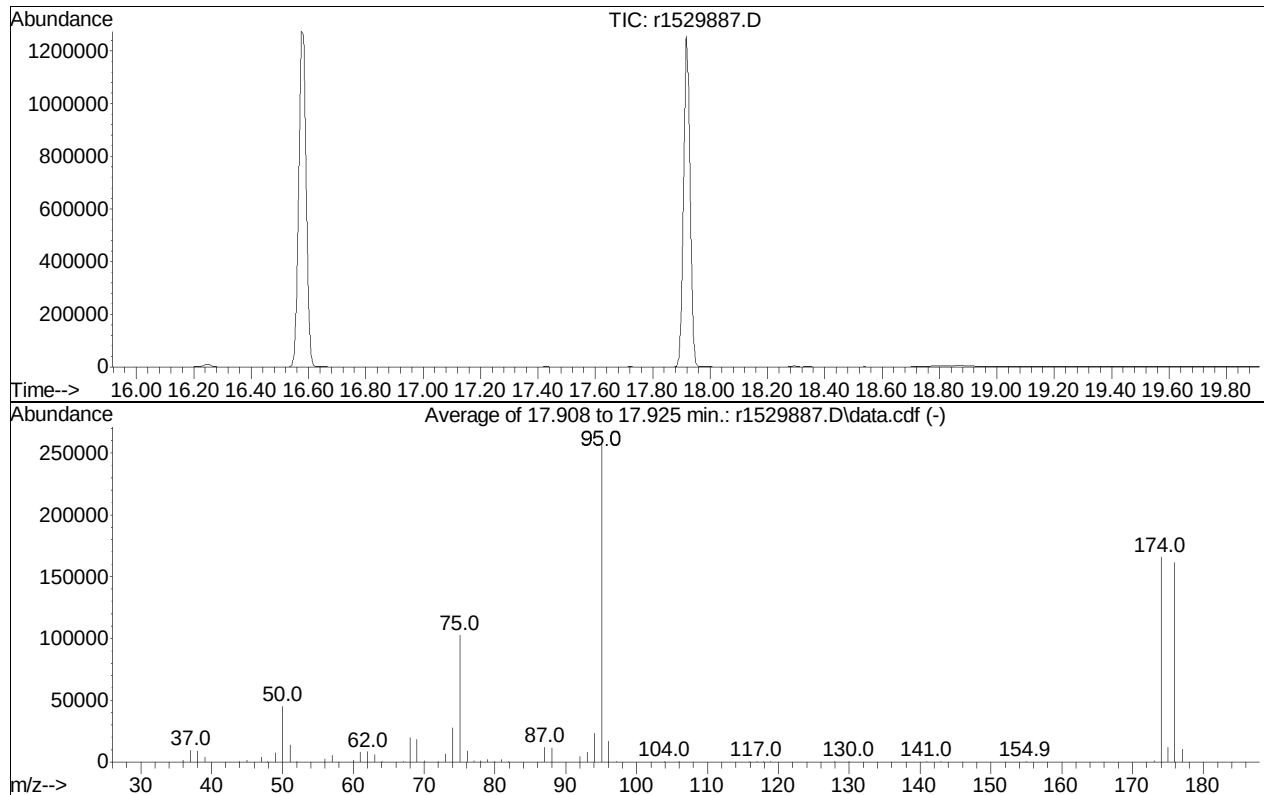
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529887.D
 Acq On : 22 Dec 2021 3:37 AM
 Operator : AIRLAB15:TS
 Sample : WG1587794-1,3,250,250
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Wed Dec 22 16:29:20 2021



Spectrum Information: Average of 17.908 to 17.925 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.4	44941	PASS
75	95	30	66	39.7	102569	PASS
95	95	100	100	100.0	258437	PASS
96	95	5	9	6.6	17137	PASS
173	174	0.00	2	0.7	1221	PASS
174	95	50	120	64.3	166067	PASS
175	174	4	9	7.2	11983	PASS
176	174	93	101	97.2	161429	PASS
177	176	5	9	6.6	10591	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529891.D
 Acq On : 22 Dec 2021 6:12 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD0.2
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:21:46 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.600	49	346360	10.000	ppbV	-0.02
Standard Area = 354329			Recovery =	97.75%		
43) 1,4-difluorobenzene	11.877	114	805892	10.000	ppbV	0.00
Standard Area = 820934			Recovery =	98.17%		
67) chlorobenzene-D5	16.583	54	190077	10.000	ppbV	0.00
Standard Area = 194813			Recovery =	97.57%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.492	65	236994	10.110	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.10%		
69) toluene-D8	14.717	98	763061	9.824	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.24%		
90) bromofluorobenzene	17.925	95	527275	9.132	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.32%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.862	51	5887	0.263	ppbV	98
3) propylene	3.898	41	3372M6	0.260	ppbV	
4) propane	3.922	29	6530	0.338	ppbV	97
5) dichlorodifluoromethane	3.976	85	6196	0.255	ppbV	95
6) chloromethane	4.162	50	3016	0.251	ppbV	95
7) Freon-114	4.288	85	7362	0.249	ppbV	97
8) methanol	4.360	31	15387	2.249	ppbV #	58
9) vinyl chloride	4.420	62	3861	0.238	ppbV	100
10) 1,3-butadiene	4.588	54	2969	0.253	ppbV	95
11) butane	4.654	43	6333	0.272	ppbV	100
12) acetaldehyde	4.306	29	10634	1.484	ppbV	89
13) bromomethane	4.912	94	3034	0.248	ppbV	87
14) chloroethane	5.134	64	1804	0.222	ppbV #	88
15) ethanol	5.308	31	16441	1.493	ppbV	99
16) dichlorofluoromethane	5.272	67	6940	0.246	ppbV	97
17) vinyl bromide	5.563	106	2544	0.241	ppbV	85
18) acrolein	5.727	56	1572	0.240	ppbV #	82
19) acetone	5.890	43	25038	1.365	ppbV #	95
20) acetonitrile	5.560	41	3611	0.250	ppbV #	76
21) trichlorofluoromethane	6.087	101	5831	0.247	ppbV	97
22) isopropyl alcohol	6.217	45	12205	0.609	ppbV	98
23) acrylonitrile	6.470	53	2704	0.235	ppbV	92
24) pentane	6.543	43	7043	0.266	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529891.D
 Acq On : 22 Dec 2021 6:12 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD0.2
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:21:46 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.583	31	5728	0.243	ppbV	93
26) 1,1-dichloroethene	6.870	61	5348	0.232	ppbV	98
27) tertiary butyl alcohol	6.960	59	6241	0.235	ppbV #	93
28) methylene chloride	7.032	49	4199	0.265	ppbV	94
29) 3-chloropropene	7.182	41	4672	0.242	ppbV	94
30) carbon disulfide	7.332	76	6705	0.202	ppbV #	1
31) Freon 113	7.368	101	5810	0.245	ppbV	91
32) trans-1,2-dichloroethene	8.175	61	5781	0.236	ppbV	97
33) 1,1-dichloroethane	8.408	63	6527	0.219	ppbV	97
34) MTBE	8.508	73	7601	0.223	ppbV	92
35) vinyl acetate	8.633	43	6341	0.204	ppbV #	91
36) 2-butanone	8.917	43	7809	0.232	ppbV	96
37) cis-1,2-dichloroethene	9.408	61	5269	0.222	ppbV	98
38) Ethyl Acetate	9.725	61	1544	0.258	ppbV	94
39) chloroform	9.767	83	6813	0.235	ppbV	94
40) Tetrahydrofuran	10.233	42	4579	0.218	ppbV	94
41) 2,2-dichloropropane	9.783	77	4183	0.219	ppbV #	85
42) 1,2-dichloroethane	10.617	62	4589	0.230	ppbV	97
44) hexane	9.675	57	7551	0.229	ppbV #	78
45) diisopropyl ether	9.692	87	3265	0.222	ppbV	92
46) tert-butyl ethyl ether	10.325	59	12057	0.220	ppbV	98
48) 1,1,1-trichloroethane	10.903	97	4781	0.208	ppbV	93
49) 1,1-dichloropropene	11.283	75	4981	0.223	ppbV	94
50) benzene	11.437	78	15085	0.287	ppbV	98
51) thiophene	11.590	84	7474	0.223	ppbV	92
52) carbon tetrachloride	11.617	117	4363	0.208	ppbV	96
53) cyclohexane	11.757	56	7693	0.219	ppbV	96
54) tert-amyl methyl ether	12.157	73	9182	0.227	ppbV	99
55) dibromomethane	12.370	93	4202	0.250	ppbV	94
56) 1,2-dichloropropane	12.397	63	4654	0.230	ppbV	96
57) bromodichloromethane	12.630	83	5998	0.204	ppbV	99
58) 1,4-dioxane	12.690	88	2798	0.219	ppbV	95
59) trichloroethene	12.677	130	4428	0.211	ppbV	95
60) 2,2,4-trimethylpentane	12.723	57	25292	0.229	ppbV	95
61) methyl methacrylate	12.937	41	4655	0.199	ppbV	95
62) heptane	13.043	43	8062	0.225	ppbV	98
63) cis-1,3-dichloropropene	13.692	75	4519	0.184	ppbV	98
64) 4-methyl-2-pentanone	13.750	43	8235	0.201	ppbV	96
65) trans-1,3-dichloropropene	14.317	75	3872	0.168	ppbV #	88
66) 1,1,2-trichloroethane	14.517	97	4241	0.220	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529891.D
 Acq On : 22 Dec 2021 6:12 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD0.2
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:21:46 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.825	91	18468	0.283	ppbV	97
70) 2-methylthiophene	14.892	97	10248	0.222	ppbV	96
71) 1,3-dichloropropane	14.858	76	6500	0.235	ppbV	96
72) 2-hexanone	15.117	43	7602	0.197	ppbV	93
73) 3-methylthiophene	15.083	97	10398	0.218	ppbV	96
74) dibromochloromethane	15.267	129	4880	0.182	ppbV #	92
75) 1,2-dibromoethane	15.517	107	5771	0.215	ppbV	95
76) butyl acetate	15.767	73	1127	0.166	ppbV	92
77) octane	15.850	85	5392	0.216	ppbV	92
78) tetrachloroethene	15.983	166	5226	0.217	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.608	131	4156	0.197	ppbV	98
80) chlorobenzene	16.625	112	10436	0.221	ppbV	97
81) ethylbenzene	16.967	91	17197	0.206	ppbV	95
82) 2-ethylthiophene	17.008	97	11597	0.210	ppbV	99
83) m+p-xylene	17.133	91	28701	0.420	ppbV	97
84) bromoform	17.192	173	3703	0.166	ppbV	98
85) styrene	17.442	104	9348	0.195	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.533	83	11187	0.220	ppbV	96
87) o-xylene	17.533	91	14175	0.205	ppbV	99
88) 1,2,3-trichloropropane	17.650	75	7971	0.226	ppbV	97
89) nonane	17.725	43	12600	0.224	ppbV	98
91) isopropylbenzene	18.033	105	17420	0.225	ppbV	94
92) bromobenzene	18.117	77	10559	0.229	ppbV	93
93) 2-chlorotoluene	18.433	126	5099	0.213	ppbV	97
94) n-propylbenzene	18.458	120	5992	0.215	ppbV	86
95) 4-chlorotoluene	18.492	126	5213M6	0.218	ppbV	
96) 4-ethyl toluene	18.583	105	17464	0.213	ppbV	99
97) 1,3,5-trimethylbenzene	18.642	105	14918	0.209	ppbV	98
98) tert-butylbenzene	18.965	119	16867	0.212	ppbV	98
99) 1,2,4-trimethylbenzene	18.973	105	14810	0.208	ppbV	99
100) decane	19.040	57	16039	0.209	ppbV	92
101) Benzyl Chloride	19.090	91	6737	0.148	ppbV	98
102) 1,3-dichlorobenzene	19.098	146	9583	0.202	ppbV	97
103) 1,4-dichlorobenzene	19.148	146	9486	0.202	ppbV	96
104) sec-butylbenzene	19.182	105	21428	0.212	ppbV	97
105) 1,2,3-trimethylbenzene	19.307	105	12714	0.201	ppbV	88
106) p-isopropyltoluene	19.307	119	20516M6	0.211	ppbV	
107) 1,2-dichlorobenzene	19.423	146	8951	0.201	ppbV	95
108) n-butylbenzene	19.648	91	18493	0.200	ppbV	96
109) indan	19.473	117	14552	0.198	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529891.D
 Acq On : 22 Dec 2021 6:12 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD0.2
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:21:46 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

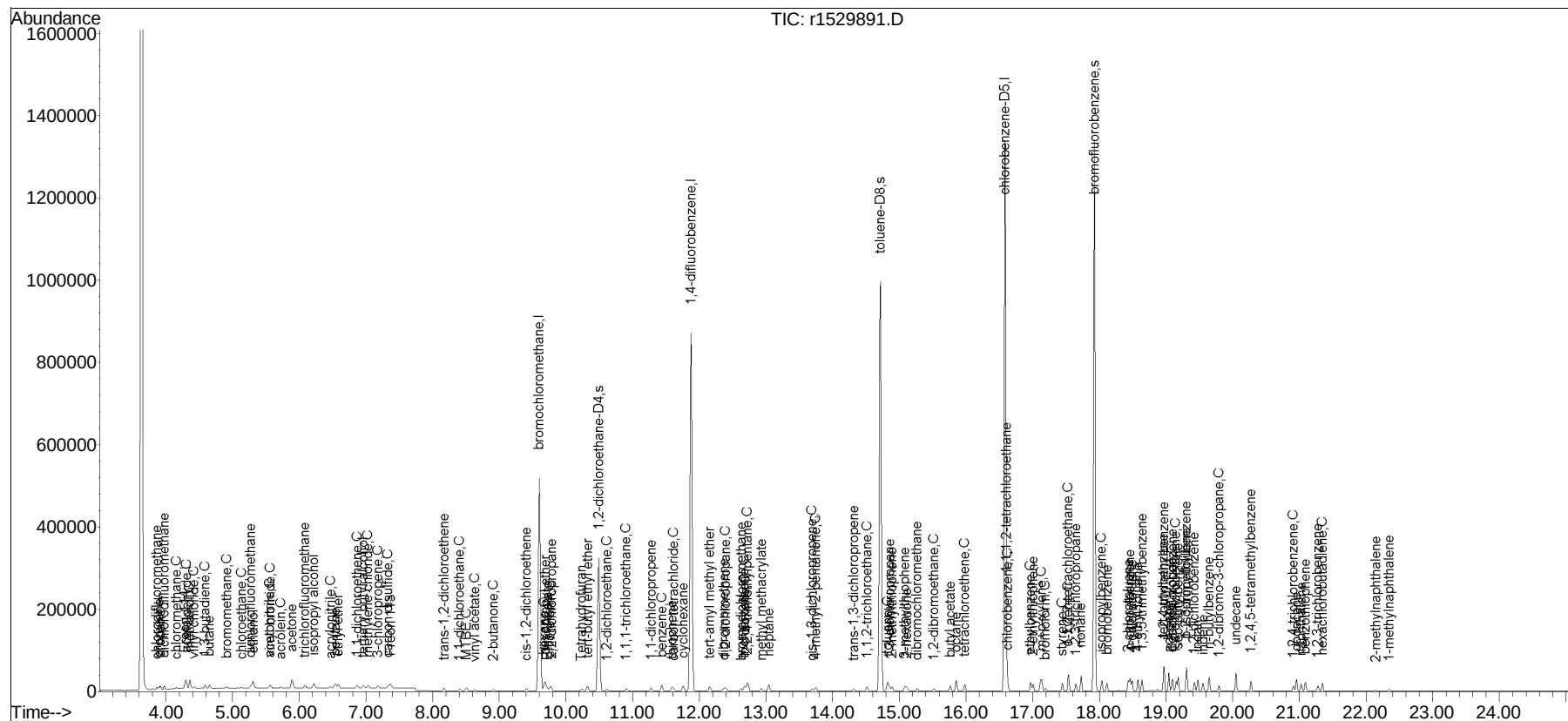
CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
110)	indene	19.557	115	10933	0.191	ppbV		97
111)	1,2-dibromo-3-chloropr...	19.798	75	3136	0.161	ppbV	#	79
112)	undecane	20.048	57	15286	0.174	ppbV	#	96
113)	1,2,4,5-tetramethylben...	20.273	119	13890	0.232	ppbV		93
114)	dodecane	20.958	57	11154	0.117	ppbV		90
115)	1,2,4-trichlorobenzene	20.908	180	4788	0.130	ppbV		95
116)	naphthalene	21.025	128	15187	0.139	ppbV		99
117)	1,2,3-trichlorobenzene	21.275	180	4429	0.125	ppbV		97
118)	benzothiophene	21.092	134	19236	0.159	ppbV		97
119)	hexachlorobutadiene	21.350	225	4458	0.150	ppbV		93
120)	2-methylnaphthalene	22.150	142	1470	0.113	ppbV		96
121)	1-methylnaphthalene	22.350	142	3237	0.111	ppbV		92

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

```
Data Path : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\
Data File : r1529891.D
Acq On    : 22 Dec 2021    6:12 AM
Operator  : AIRLAB15:TS
Sample    : IT015-LLSTD0.2
Misc      : WG1587794
ALS Vial  : 0    Sample Multiplier: 1
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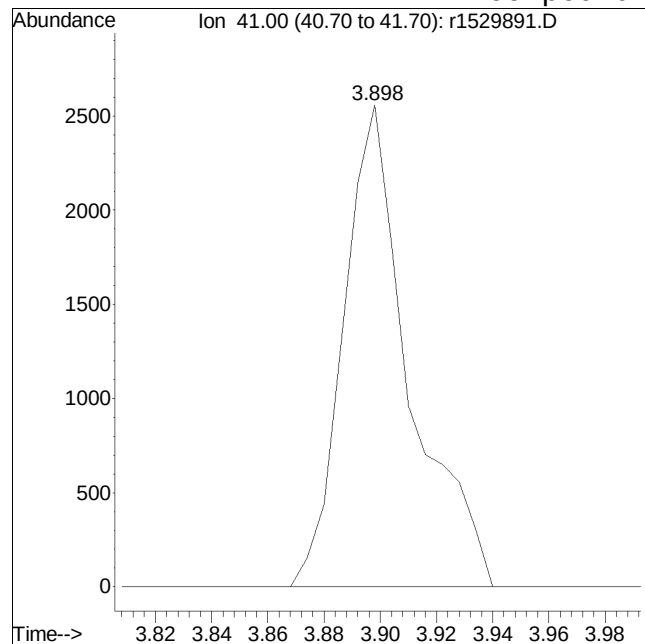
Quant Time: Dec 22 16:21:46 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\TFS15_211222.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:24:36 2021
Response via : Initial Calibration



Manual Integration Report

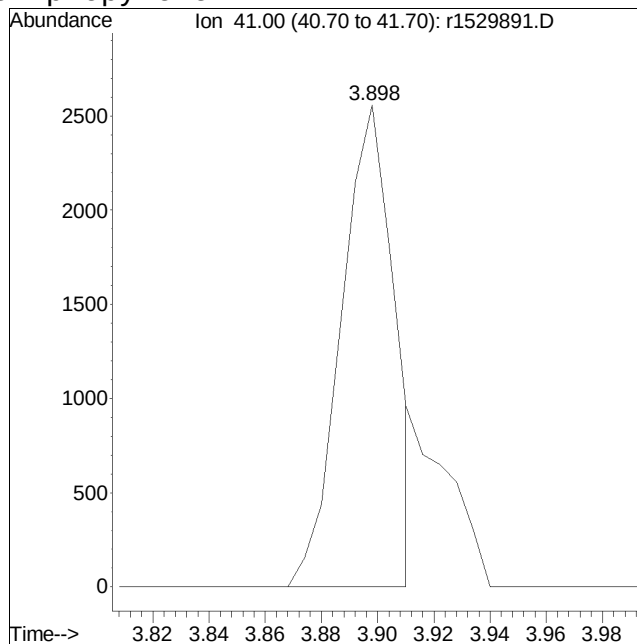
Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_211222.M
Data File : r1529891.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:6: 2 Instrument :
Sample : IT015-LLSTD0.2 Quant Date : 12/22/2021 10:24 am

Compound #3: propylene



Original Peak Response = 4170

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

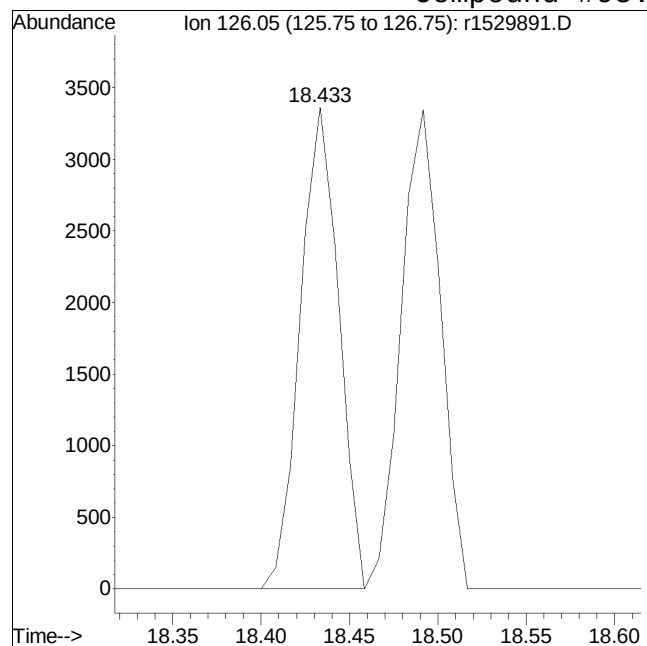


Manual Peak Response = 3372 M6

Manual Integration Report

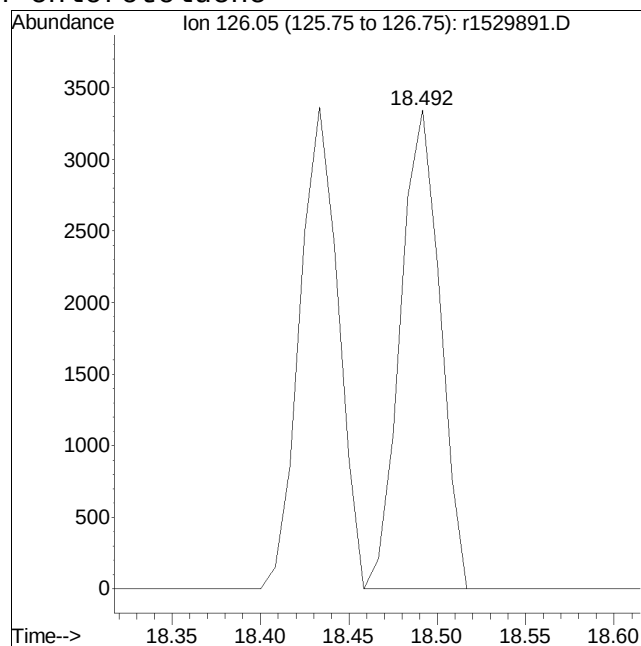
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529891.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:6: 2 Instrument :
Sample : IT015-LLSTD0.2 Quant Date : 12/22/2021 10:24 am

Compound #95: 4-chlorotoluene



Original Peak Response = 5099

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

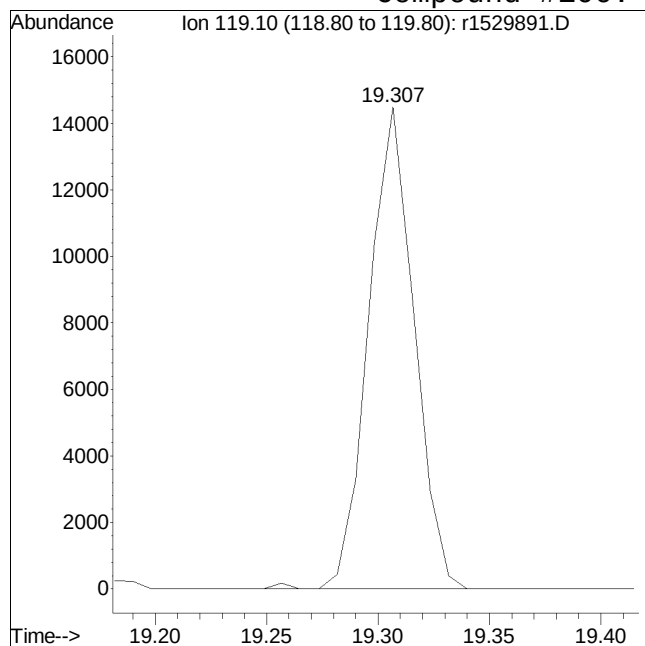


Manual Peak Response = 5213 M6

Manual Integration Report

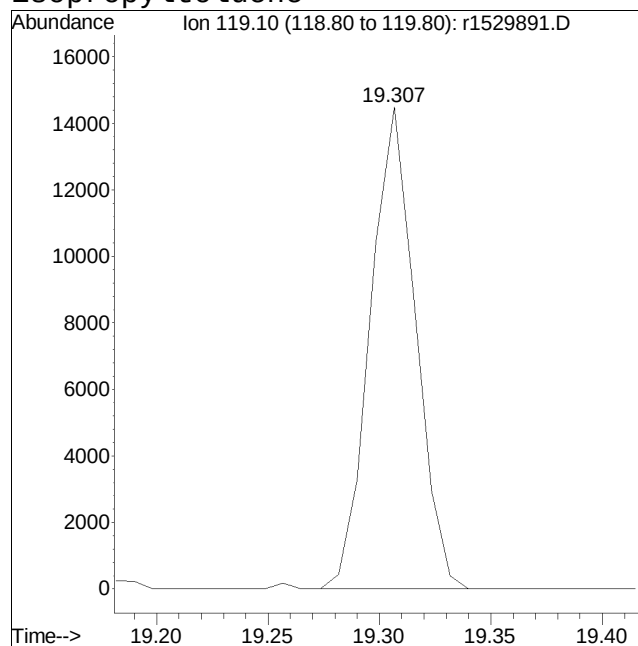
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529891.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:6: 2 Instrument :
Sample : IT015-LLSTD0.2 Quant Date : 12/22/2021 10:24 am

Compound #106: p-isopropyltoluene



Original Peak Response = 20604

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 20516 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529892.D
 Acq On : 22 Dec 2021 6:51 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD0.5
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:23:36 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.608	49	347339	10.000	ppbV	0.00
Standard Area = 354329			Recovery =		98.03%	
43) 1,4-difluorobenzene	11.877	114	808797	10.000	ppbV	0.00
Standard Area = 820934			Recovery =		98.52%	
67) chlorobenzene-D5	16.592	54	192851	10.000	ppbV	0.00
Standard Area = 194813			Recovery =		98.99%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.492	65	234954	9.987	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.87%	
69) toluene-D8	14.717	98	761966	9.669	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.69%	
90) bromofluorobenzene	17.925	95	537770	9.179	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		91.79%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.862	51	13746	0.612	ppbV	99
3) propylene	3.898	41	7444M6	0.572	ppbV	
4) propane	3.922	29	13213	0.682	ppbV	98
5) dichlorodifluoromethane	3.976	85	14919	0.611	ppbV	98
6) chloromethane	4.162	50	7016	0.581	ppbV	97
7) Freon-114	4.288	85	17181	0.580	ppbV	98
8) methanol	4.360	31	28477	4.151	ppbV #	81
9) vinyl chloride	4.426	62	9123	0.561	ppbV	99
10) 1,3-butadiene	4.588	54	6853	0.583	ppbV	99
11) butane	4.654	43	14135	0.604	ppbV	99
12) acetaldehyde	4.306	29	23410	3.258	ppbV	98
13) bromomethane	4.906	94	7130	0.581	ppbV	91
14) chloroethane	5.134	64	4407	0.540	ppbV	97
15) ethanol	5.308	31	40719	3.686	ppbV	98
16) dichlorofluoromethane	5.272	67	16302	0.575	ppbV	100
17) vinyl bromide	5.567	106	6005	0.566	ppbV	89
18) acrolein	5.727	56	3872	0.589	ppbV #	85
19) acetone	5.893	43	54468	2.960	ppbV	98
20) acetonitrile	5.560	41	8399	0.581	ppbV #	85
21) trichlorofluoromethane	6.093	101	13377	0.565	ppbV	95
22) isopropyl alcohol	6.217	45	27230	1.356	ppbV	99
23) acrylonitrile	6.473	53	6445	0.558	ppbV	98
24) pentane	6.543	43	15741M6	0.594	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529892.D
 Acq On : 22 Dec 2021 6:51 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD0.5
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:23:36 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.587	31	13616	0.575	ppbV	93
26) 1,1-dichloroethene	6.870	61	12662	0.547	ppbV	97
27) tertiary butyl alcohol	6.960	59	14782	0.555	ppbV #	97
28) methylene chloride	7.038	49	9307	0.586	ppbV	92
29) 3-chloropropene	7.182	41	10608	0.547	ppbV	98
30) carbon disulfide	7.338	76	15968	0.481	ppbV #	42
31) Freon 113	7.368	101	13211	0.555	ppbV	98
32) trans-1,2-dichloroethene	8.175	61	14210	0.578	ppbV	98
33) 1,1-dichloroethane	8.417	63	15976	0.534	ppbV	97
34) MTBE	8.508	73	18841	0.551	ppbV	98
35) vinyl acetate	8.633	43	15482	0.496	ppbV	96
36) 2-butanone	8.908	43	18037	0.535	ppbV	98
37) cis-1,2-dichloroethene	9.417	61	12675	0.533	ppbV	95
38) Ethyl Acetate	9.725	61	3257	0.542	ppbV	87
39) chloroform	9.767	83	16080	0.554	ppbV	99
40) Tetrahydrofuran	10.242	42	10938	0.520	ppbV	99
41) 2,2-dichloropropane	9.783	77	9848	0.513	ppbV	91
42) 1,2-dichloroethane	10.617	62	11122	0.555	ppbV	97
44) hexane	9.683	57	18339	0.553	ppbV	97
45) diisopropyl ether	9.692	87	8083	0.549	ppbV	94
46) tert-butyl ethyl ether	10.325	59	29825	0.543	ppbV	97
48) 1,1,1-trichloroethane	10.910	97	11662	0.506	ppbV	95
49) 1,1-dichloropropene	11.283	75	11956	0.533	ppbV	98
50) benzene	11.443	78	30797	0.584	ppbV	99
51) thiophene	11.590	84	17888	0.531	ppbV	99
52) carbon tetrachloride	11.617	117	10308	0.491	ppbV	98
53) cyclohexane	11.763	56	19082	0.540	ppbV	97
54) tert-amyl methyl ether	12.157	73	21571	0.530	ppbV	99
55) dibromomethane	12.363	93	9484	0.563	ppbV	98
56) 1,2-dichloropropane	12.397	63	10928	0.538	ppbV	97
57) bromodichloromethane	12.630	83	14523M6	0.492	ppbV	
58) 1,4-dioxane	12.690	88	6546	0.510	ppbV	94
59) trichloroethene	12.677	130	11067	0.525	ppbV	97
60) 2,2,4-trimethylpentane	12.730	57	60319	0.545	ppbV	96
61) methyl methacrylate	12.930	41	11766	0.502	ppbV	99
62) heptane	13.050	43	19387	0.540	ppbV	99
63) cis-1,3-dichloropropene	13.700	75	11271	0.456	ppbV	99
64) 4-methyl-2-pentanone	13.742	43	20827	0.506	ppbV	99
65) trans-1,3-dichloropropene	14.317	75	9947	0.431	ppbV	98
66) 1,1,2-trichloroethane	14.517	97	9980	0.516	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529892.D
 Acq On : 22 Dec 2021 6:51 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD0.5
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:23:36 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.825	91	38328	0.579	ppbV	99
70) 2-methylthiophene	14.900	97	24843	0.531	ppbV	96
71) 1,3-dichloropropane	14.858	76	15293	0.544	ppbV	98
72) 2-hexanone	15.117	43	19711	0.503	ppbV #	96
73) 3-methylthiophene	15.083	97	24905	0.514	ppbV	98
74) dibromochloromethane	15.275	129	12069	0.444	ppbV	96
75) 1,2-dibromoethane	15.525	107	13631	0.500	ppbV	99
76) butyl acetate	15.767	73	3187	0.463	ppbV	94
77) octane	15.858	85	13049	0.514	ppbV #	89
78) tetrachloroethene	15.983	166	12830	0.524	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.617	131	10648	0.497	ppbV	95
80) chlorobenzene	16.625	112	25320	0.529	ppbV	99
81) ethylbenzene	16.967	91	41319	0.489	ppbV	98
82) 2-ethylthiophene	17.008	97	28590	0.510	ppbV	98
83) m+p-xylene	17.133	91	70019	1.010	ppbV	99
84) bromoform	17.200	173	8969	0.397	ppbV	100
85) styrene	17.450	104	23257	0.478	ppbV	96
86) 1,1,2,2-tetrachloroethane	17.542	83	26348	0.510	ppbV	100
87) o-xylene	17.542	91	35549	0.506	ppbV	99
88) 1,2,3-trichloropropane	17.650	75	19284	0.539	ppbV	99
89) nonane	17.725	43	30341	0.533	ppbV	94
91) isopropylbenzene	18.042	105	42386	0.540	ppbV	98
92) bromobenzene	18.117	77	25123	0.537	ppbV	92
93) 2-chlorotoluene	18.433	126	12371	0.509	ppbV	89
94) n-propylbenzene	18.458	120	14839	0.525	ppbV	99
95) 4-chlorotoluene	18.492	126	12486M6	0.514	ppbV	
96) 4-ethyl toluene	18.583	105	43813	0.527	ppbV	99
97) 1,3,5-trimethylbenzene	18.642	105	36889	0.509	ppbV	99
98) tert-butylbenzene	18.973	119	42967	0.532	ppbV	95
99) 1,2,4-trimethylbenzene	18.973	105	36238	0.502	ppbV	97
100) decane	19.048	57	40114	0.514	ppbV	94
101) Benzyl Chloride	19.090	91	17686	0.384	ppbV	96
102) 1,3-dichlorobenzene	19.098	146	23293	0.484	ppbV	99
103) 1,4-dichlorobenzene	19.157	146	23203M6	0.486	ppbV	
104) sec-butylbenzene	19.182	105	52814	0.514	ppbV	98
105) 1,2,3-trimethylbenzene	19.315	105	32557	0.507	ppbV	97
106) p-isopropyltoluene	19.307	119	51360M6	0.520	ppbV	
107) 1,2-dichlorobenzene	19.432	146	22379	0.494	ppbV	94
108) n-butylbenzene	19.648	91	46387	0.495	ppbV	95
109) indan	19.482	117	37598	0.505	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529892.D
 Acq On : 22 Dec 2021 6:51 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD0.5
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:23:36 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

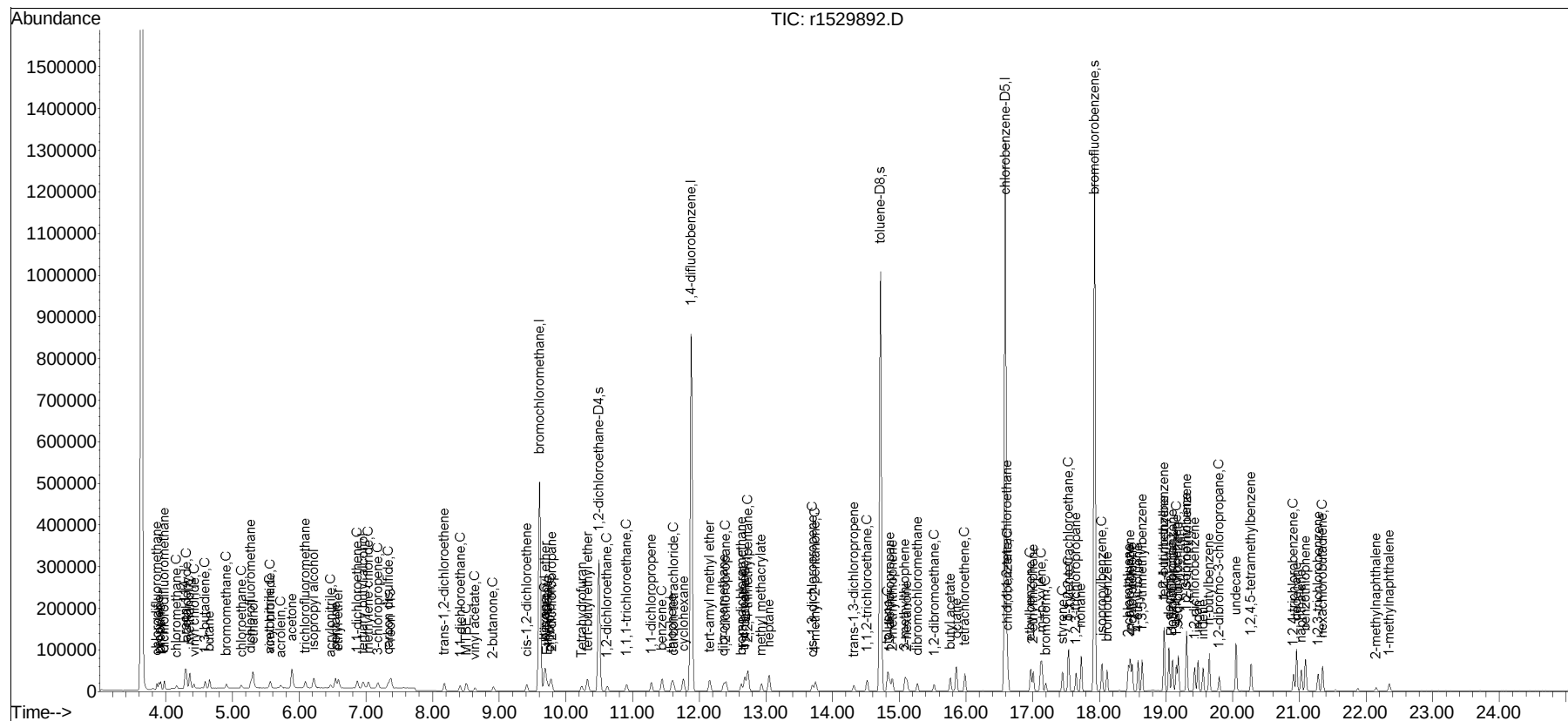
CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
110)	indene	19.557	115	27849	0.480	ppbV		98
111)	1,2-dibromo-3-chloropr...	19.798	75	8592	0.435	ppbV #		84
112)	undecane	20.048	57	41835	0.469	ppbV		98
113)	1,2,4,5-tetramethylben...	20.273	119	37314	0.613	ppbV		99
114)	dodecane	20.958	57	37014	0.384	ppbV		94
115)	1,2,4-trichlorobenzene	20.908	180	13840	0.369	ppbV		96
116)	naphthalene	21.025	128	46072	0.414	ppbV		99
117)	1,2,3-trichlorobenzene	21.283	180	13990	0.389	ppbV		95
118)	benzothiophene	21.092	134	62882	0.512	ppbV		98
119)	hexachlorobutadiene	21.350	225	13583	0.449	ppbV #		93
120)	2-methylnaphthalene	22.150	142	5542	0.420	ppbV		97
121)	1-methylnaphthalene	22.350	142	11410	0.387	ppbV		96

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

```
Data Path : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\
Data File : r1529892.D
Acq On    : 22 Dec 2021    6:51 AM
Operator  : AIRLAB15:TS
Sample    : IT015-LLSTD0.5
Misc      : WG1587794
ALS Vial  : 0    Sample Multiplier: 1
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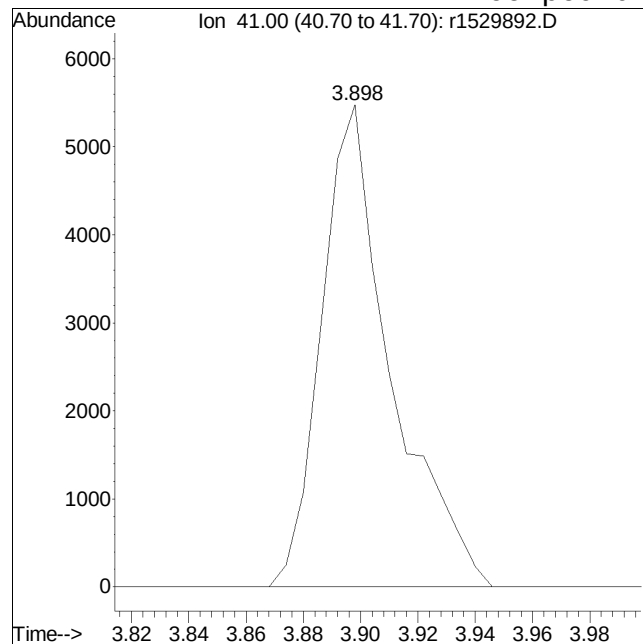
Quant Time: Dec 22 16:23:36 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\TFS15_211222.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:24:36 2021
Response via : Initial Calibration



Manual Integration Report

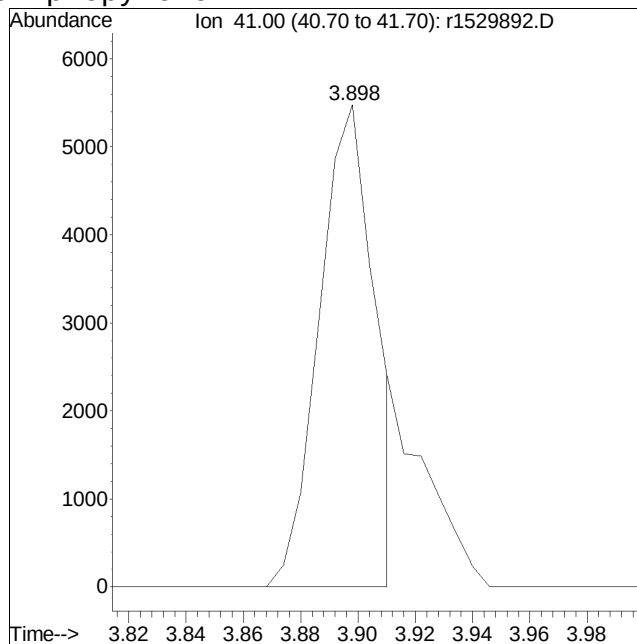
Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_211222.M
Data File : r1529892.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:6: 1 Instrument :
Sample : IT015-LLSTD0.5 Quant Date : 12/22/2021 10:24 am

Compound #3: propylene



Original Peak Response = 9212

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

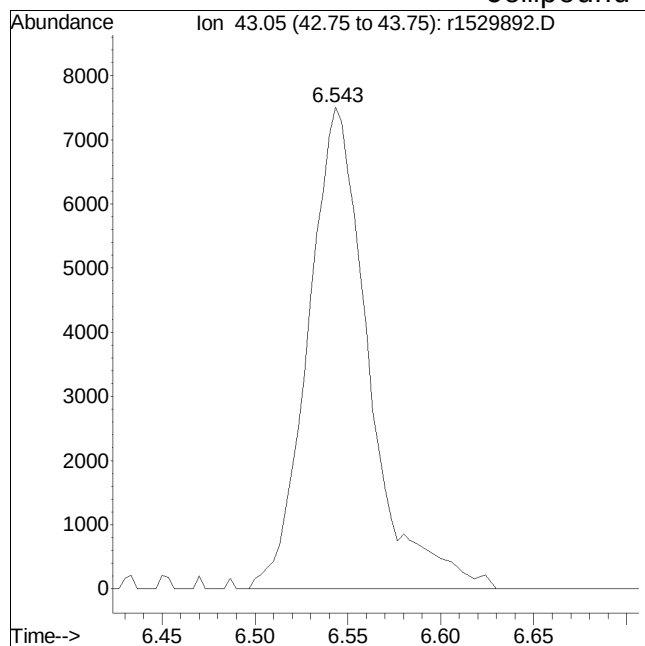


Manual Peak Response = 7444 M6

Manual Integration Report

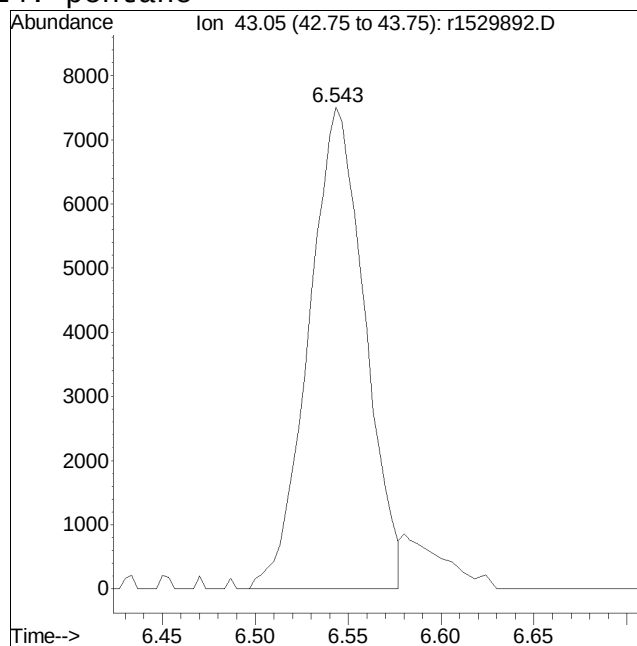
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529892.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:6: 1 Instrument :
Sample : IT015-LLSTD0.5 Quant Date : 12/22/2021 10:24 am

Compound #24: pentane



Original Peak Response = 20301

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

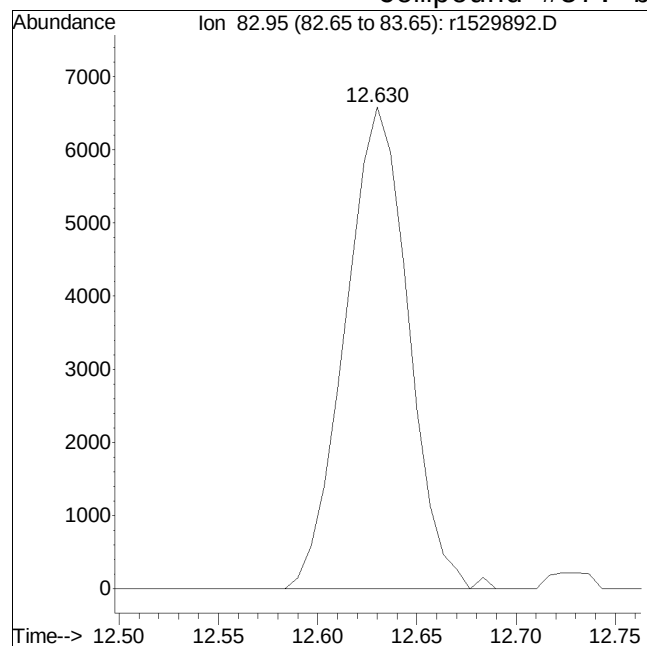


Manual Peak Response = 15741 M6

Manual Integration Report

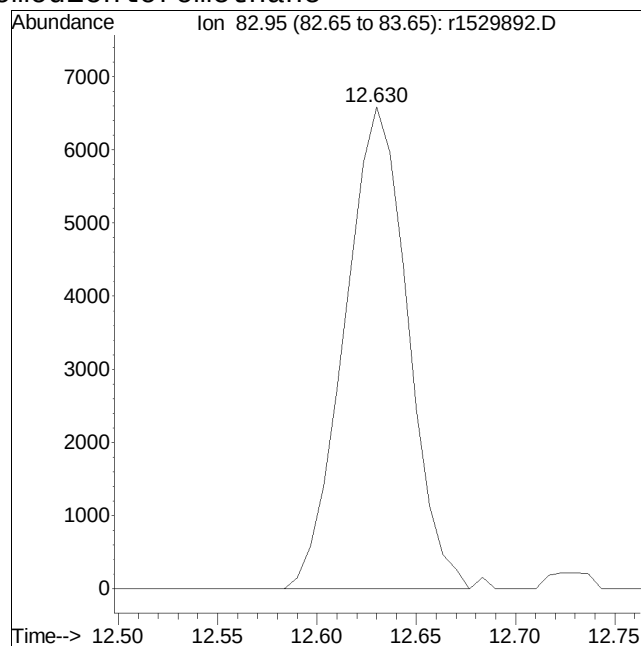
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529892.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:6: 1 Instrument :
Sample : IT015-LLSTD0.5 Quant Date : 12/22/2021 10:24 am

Compound #57: bromodichloromethane



Original Peak Response = 14587

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

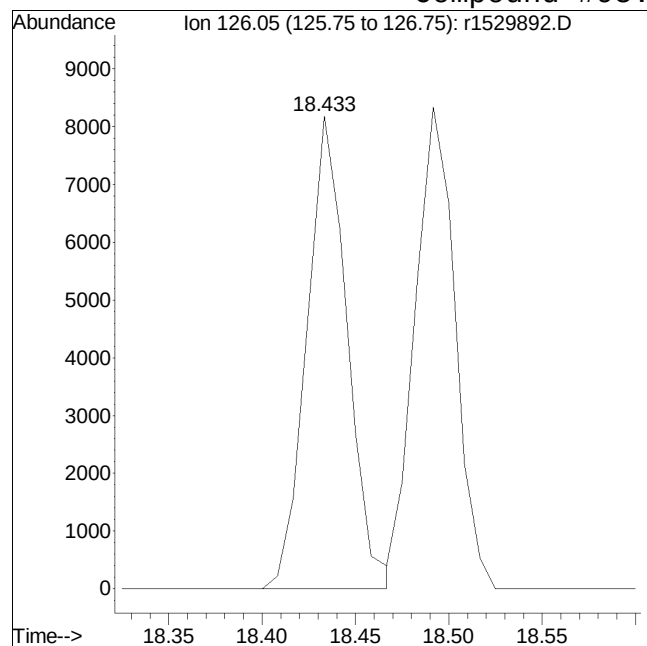


Manual Peak Response = 14523 M6

Manual Integration Report

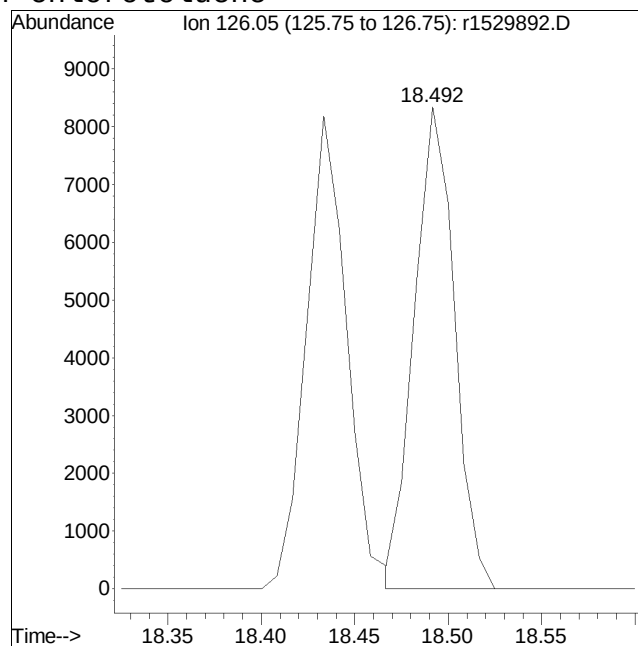
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529892.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:6: 1 Instrument :
Sample : IT015-LLSTD0.5 Quant Date : 12/22/2021 10:24 am

Compound #95: 4-chlorotoluene



Original Peak Response = 12371

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

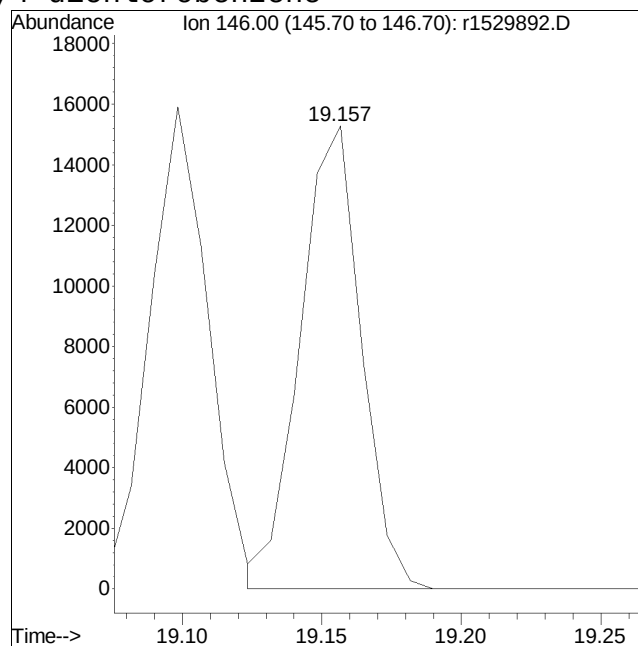
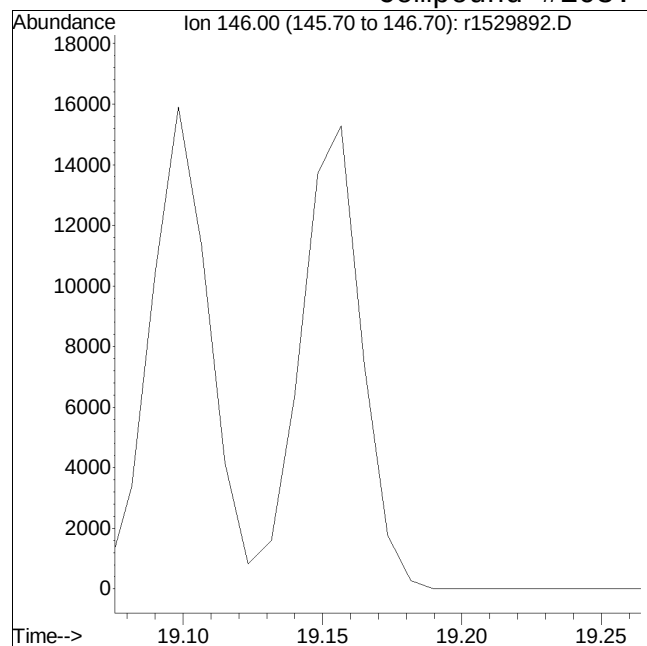


Manual Peak Response = 12486 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529892.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:6: 1 Instrument :
Sample : IT015-LLSTD0.5 Quant Date : 12/22/2021 10:24 am

Compound #103: 1,4-dichlorobenzene



Original Peak Response =

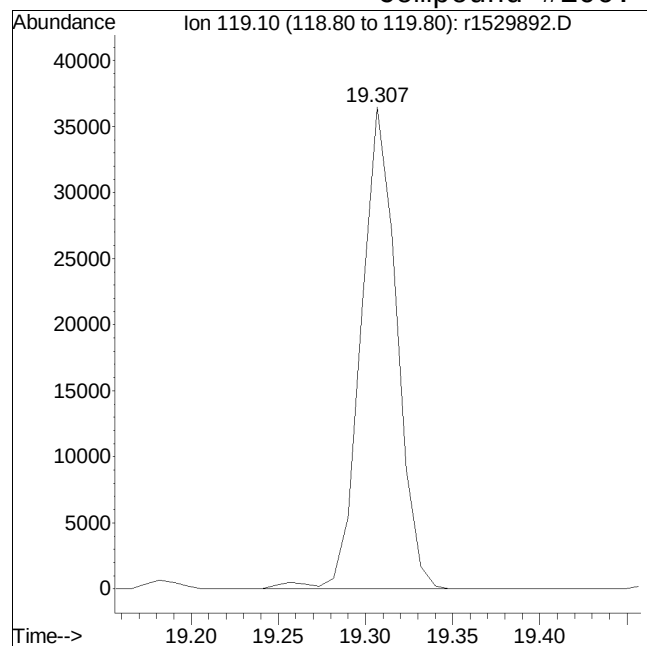
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Peak Response = 23203 M6

Manual Integration Report

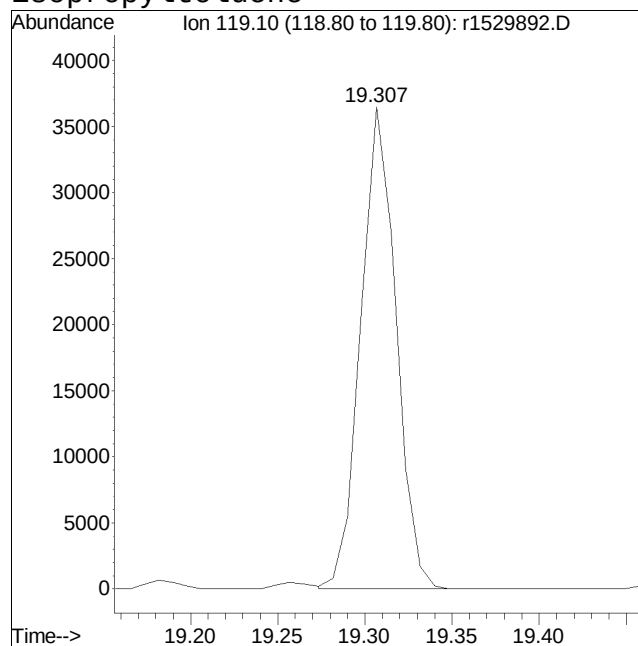
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529892.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:6: 1 Instrument :
Sample : IT015-LLSTD0.5 Quant Date : 12/22/2021 10:24 am

Compound #106: p-isopropyltoluene



Original Peak Response = 52044

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 51360 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529893.D
 Acq On : 22 Dec 2021 7:32 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD1.0
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:25:01 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.608	49	349063	10.000	ppbV	0.00
Standard Area = 354329			Recovery =		98.51%	
43) 1,4-difluorobenzene	11.883	114	812390	10.000	ppbV	0.00
Standard Area = 820934			Recovery =		98.96%	
67) chlorobenzene-D5	16.592	54	191605	10.000	ppbV	0.00
Standard Area = 194813			Recovery =		98.35%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.500	65	238019	10.072	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.72%	
69) toluene-D8	14.717	98	781626	9.983	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.83%	
90) bromofluorobenzene	17.933	95	570627	9.804	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.04%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.868	51	26700	1.183	ppbV	99
3) propylene	3.898	41	14945M6	1.142	ppbV	
4) propane	3.922	29	24813	1.275	ppbV	99
5) dichlorodifluoromethane	3.976	85	28292	1.154	ppbV	98
6) chloromethane	4.162	50	13585	1.120	ppbV	100
7) Freon-114	4.288	85	33898	1.138	ppbV	99
8) methanol	4.360	31	50373	7.307	ppbV #	88
9) vinyl chloride	4.426	62	18076	1.106	ppbV	96
10) 1,3-butadiene	4.594	54	13848	1.173	ppbV	98
11) butane	4.654	43	27015	1.149	ppbV	99
12) acetaldehyde	4.306	29	44138	6.112	ppbV	99
13) bromomethane	4.912	94	13768	1.116	ppbV	94
14) chloroethane	5.140	64	8840	1.079	ppbV	95
15) ethanol	5.308	31	66770	6.015	ppbV	99
16) dichlorofluoromethane	5.278	67	31114	1.092	ppbV	99
17) vinyl bromide	5.567	106	11477	1.077	ppbV	90
18) acrolein	5.730	56	7353	1.113	ppbV	95
19) acetone	5.890	43	104735	5.664	ppbV	98
20) acetonitrile	5.563	41	16619	1.143	ppbV	95
21) trichlorofluoromethane	6.093	101	25939	1.090	ppbV	92
22) isopropyl alcohol	6.213	45	53156	2.633	ppbV	99
23) acrylonitrile	6.473	53	12559	1.082	ppbV	96
24) pentane	6.547	43	39784	1.493	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529893.D
 Acq On : 22 Dec 2021 7:32 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD1.0
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:25:01 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.587	31	26522	1.115	ppbV	99
26) 1,1-dichloroethene	6.876	61	24754	1.064	ppbV	97
27) tertiary butyl alcohol	6.954	59	29568	1.105	ppbV	95
28) methylene chloride	7.038	49	18039	1.130	ppbV	100
29) 3-chloropropene	7.182	41	20921	1.073	ppbV	100
30) carbon disulfide	7.338	76	31803	0.952	ppbV #	68
31) Freon 113	7.374	101	25816	1.079	ppbV	96
32) trans-1,2-dichloroethene	8.175	61	26917	1.089	ppbV	98
33) 1,1-dichloroethane	8.417	63	31419	1.044	ppbV	100
34) MTBE	8.508	73	37157	1.080	ppbV	99
35) vinyl acetate	8.642	43	30715	0.979	ppbV	99
36) 2-butanone	8.908	43	36499	1.077	ppbV	99
37) cis-1,2-dichloroethene	9.417	61	25072	1.049	ppbV	97
38) Ethyl Acetate	9.725	61	6331	1.048	ppbV	83
39) chloroform	9.767	83	31162	1.068	ppbV	99
40) Tetrahydrofuran	10.233	42	22161	1.049	ppbV	99
41) 2,2-dichloropropane	9.783	77	19972	1.036	ppbV	95
42) 1,2-dichloroethane	10.625	62	21442	1.064	ppbV	96
44) hexane	9.683	57	35620	1.070	ppbV	100
45) diisopropyl ether	9.692	87	16298	1.101	ppbV	99
46) tert-butyl ethyl ether	10.325	59	58728	1.064	ppbV	99
48) 1,1,1-trichloroethane	10.917	97	23012	0.994	ppbV	99
49) 1,1-dichloropropene	11.283	75	23896	1.061	ppbV	98
50) benzene	11.443	78	58802	1.110	ppbV	99
51) thiophene	11.590	84	35542	1.051	ppbV	99
52) carbon tetrachloride	11.617	117	20459	0.970	ppbV	98
53) cyclohexane	11.763	56	38153	1.076	ppbV	98
54) tert-amyl methyl ether	12.157	73	42349	1.036	ppbV	99
55) dibromomethane	12.370	93	18213	1.077	ppbV	97
56) 1,2-dichloropropane	12.403	63	20976	1.028	ppbV	99
57) bromodichloromethane	12.630	83	29481	0.995	ppbV	98
58) 1,4-dioxane	12.683	88	13375	1.038	ppbV	96
59) trichloroethene	12.683	130	22419	1.058	ppbV	98
60) 2,2,4-trimethylpentane	12.730	57	120591	1.085	ppbV	99
61) methyl methacrylate	12.937	41	23570	1.002	ppbV	100
62) heptane	13.050	43	39183	1.087	ppbV	98
63) cis-1,3-dichloropropene	13.700	75	22383	0.903	ppbV	95
64) 4-methyl-2-pentanone	13.742	43	42268	1.023	ppbV	96
65) trans-1,3-dichloropropene	14.325	75	20291	0.874	ppbV	100
66) 1,1,2-trichloroethane	14.517	97	20225	1.042	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529893.D
 Acq On : 22 Dec 2021 7:32 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD1.0
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:25:01 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.833	91	70854	1.077	ppbV	96
70) 2-methylthiophene	14.900	97	48898	1.052	ppbV	100
71) 1,3-dichloropropane	14.858	76	30885	1.107	ppbV	95
72) 2-hexanone	15.117	43	39630	1.018	ppbV	94
73) 3-methylthiophene	15.092	97	49858	1.036	ppbV	99
74) dibromochloromethane	15.275	129	24634	0.912	ppbV	99
75) 1,2-dibromoethane	15.525	107	27712	1.023	ppbV	99
76) butyl acetate	15.767	73	6505	0.952	ppbV	90
77) octane	15.858	85	26528	1.052	ppbV	98
78) tetrachloroethene	15.983	166	25110	1.032	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.617	131	21203	0.995	ppbV	96
80) chlorobenzene	16.633	112	48549	1.021	ppbV	98
81) ethylbenzene	16.975	91	83326	0.992	ppbV	100
82) 2-ethylthiophene	17.008	97	57927	1.039	ppbV	99
83) m+p-xylene	17.133	91	140964	2.047	ppbV	100
84) bromoform	17.200	173	19038	0.849	ppbV	97
85) styrene	17.450	104	46962	0.972	ppbV	97
86) 1,1,2,2-tetrachloroethane	17.542	83	52841	1.029	ppbV	98
87) o-xylene	17.542	91	70625	1.011	ppbV	99
88) 1,2,3-trichloropropane	17.650	75	38813	1.092	ppbV	98
89) nonane	17.733	43	60574	1.070	ppbV	98
91) isopropylbenzene	18.042	105	83995	1.077	ppbV	99
92) bromobenzene	18.117	77	50520	1.086	ppbV	95
93) 2-chlorotoluene	18.433	126	25115	1.041	ppbV	91
94) n-propylbenzene	18.467	120	29303	1.043	ppbV	97
95) 4-chlorotoluene	18.492	126	24912M6	1.032	ppbV	
96) 4-ethyl toluene	18.583	105	88328	1.070	ppbV	98
97) 1,3,5-trimethylbenzene	18.642	105	74406	1.033	ppbV	99
98) tert-butylbenzene	18.973	119	85790	1.069	ppbV	96
99) 1,2,4-trimethylbenzene	18.973	105	73238	1.021	ppbV	98
100) decane	19.048	57	80727	1.041	ppbV	94
101) Benzyl Chloride	19.090	91	37371	0.817	ppbV	96
102) 1,3-dichlorobenzene	19.098	146	47921	1.001	ppbV	99
103) 1,4-dichlorobenzene	19.157	146	46271	0.976	ppbV	98
104) sec-butylbenzene	19.182	105	107440	1.052	ppbV	100
105) 1,2,3-trimethylbenzene	19.315	105	66138	1.036	ppbV	99
106) p-isopropyltoluene	19.307	119	102246M6	1.043	ppbV	
107) 1,2-dichlorobenzene	19.432	146	44986	1.000	ppbV	94
108) n-butylbenzene	19.648	91	94741	1.017	ppbV	97
109) indan	19.482	117	75970	1.026	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529893.D
 Acq On : 22 Dec 2021 7:32 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD1.0
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:25:01 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

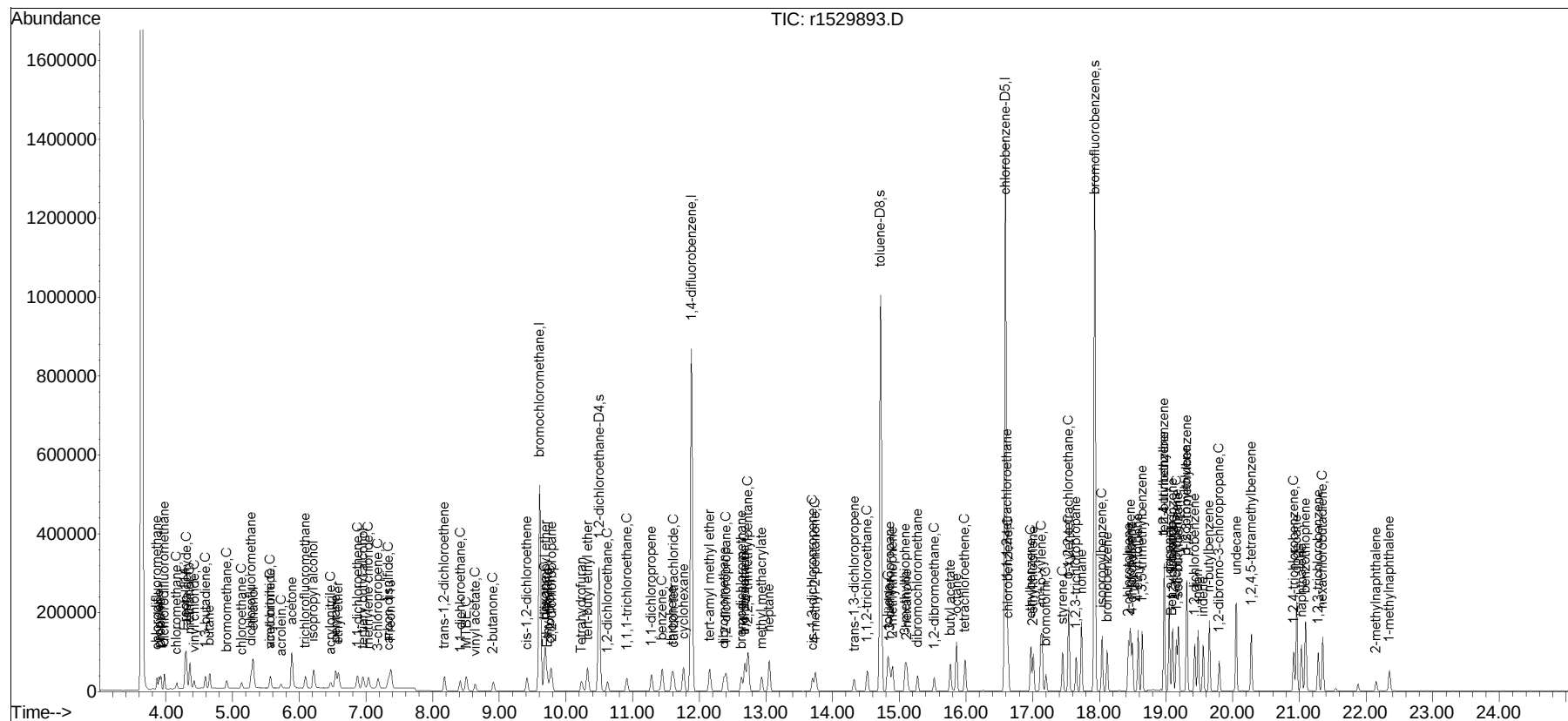
CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.557	115	57318	0.995	ppbV	97
111) 1,2-dibromo-3-chloropr...	19.798	75	18450	0.940	ppbV	89
112) undecane	20.057	57	87581	0.989	ppbV	96
113) 1,2,4,5-tetramethylben...	20.282	119	78438	1.298	ppbV	98
114) dodecane	20.958	57	85742	0.895	ppbV	96
115) 1,2,4-trichlorobenzene	20.917	180	30926	0.831	ppbV	98
116) naphthalene	21.033	128	101285	0.917	ppbV	98
117) 1,2,3-trichlorobenzene	21.283	180	32128	0.900	ppbV	97
118) benzothiophene	21.092	134	143090	1.173	ppbV	98
119) hexachlorobutadiene	21.350	225	28987	0.965	ppbV	93
120) 2-methylnaphthalene	22.150	142	15820	1.206	ppbV	97
121) 1-methylnaphthalene	22.350	142	32672	1.115	ppbV	94

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

```
Data Path : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\
Data File : r1529893.D
Acq On    : 22 Dec 2021    7:32 AM
Operator  : AIRLAB15:TS
Sample    : IT015-LLSTD1.0
Misc      : WG1587794
ALS Vial  : 0    Sample Multiplier: 1
```

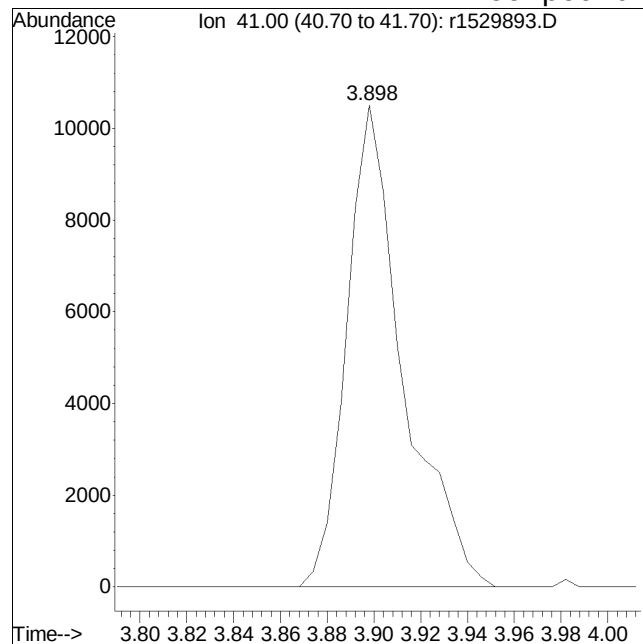
Quant Time: Dec 22 16:25:01 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\TFS15_211222.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:24:36 2021
Response via : Initial Calibration



Manual Integration Report

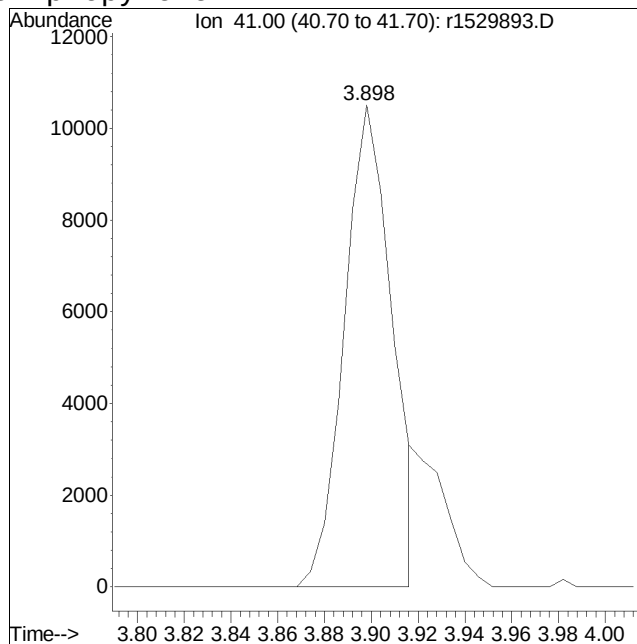
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529893.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:7: 2 Instrument :
Sample : IT015-LLSTD1.0 Quant Date : 12/22/2021 10:25 am

Compound #3: propylene



Original Peak Response = 17641

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

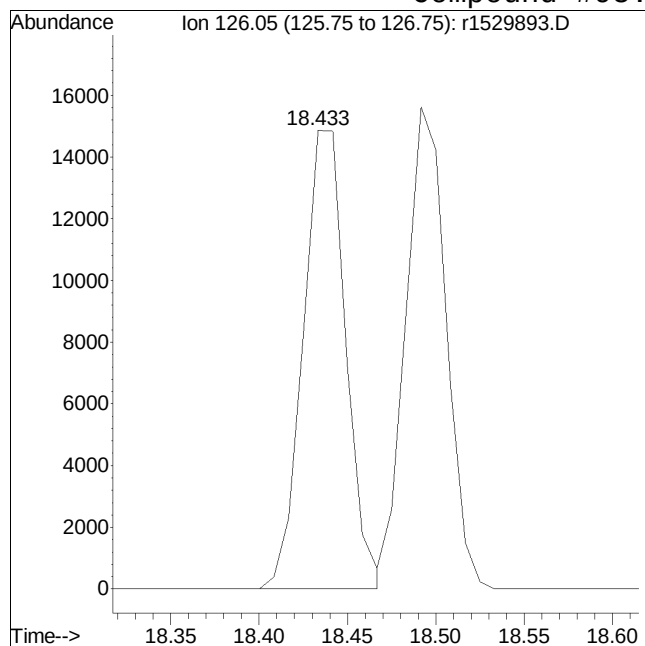


Manual Peak Response = 14945 M6

Manual Integration Report

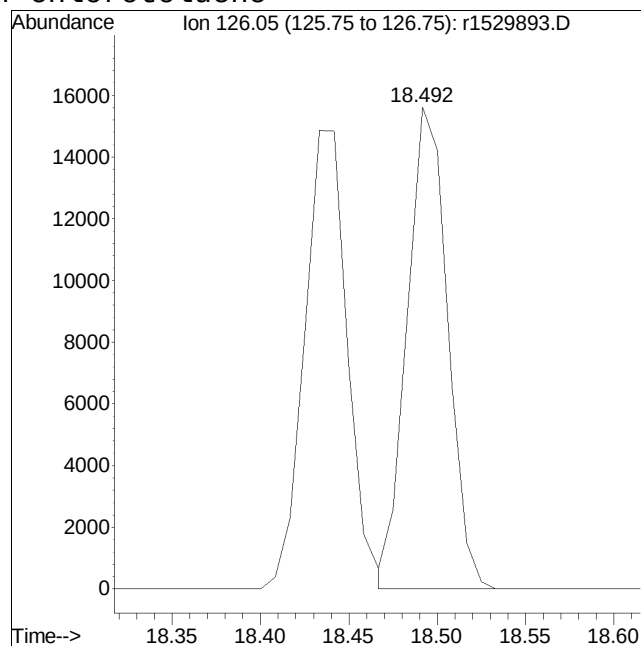
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529893.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:7: 2 Instrument :
Sample : IT015-LLSTD1.0 Quant Date : 12/22/2021 10:25 am

Compound #95: 4-chlorotoluene



Original Peak Response = 25115

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

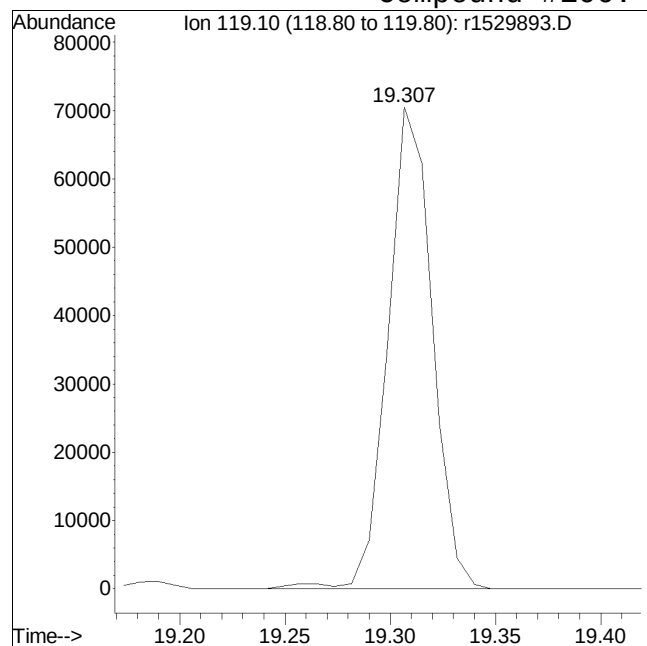


Manual Peak Response = 24912 M6

Manual Integration Report

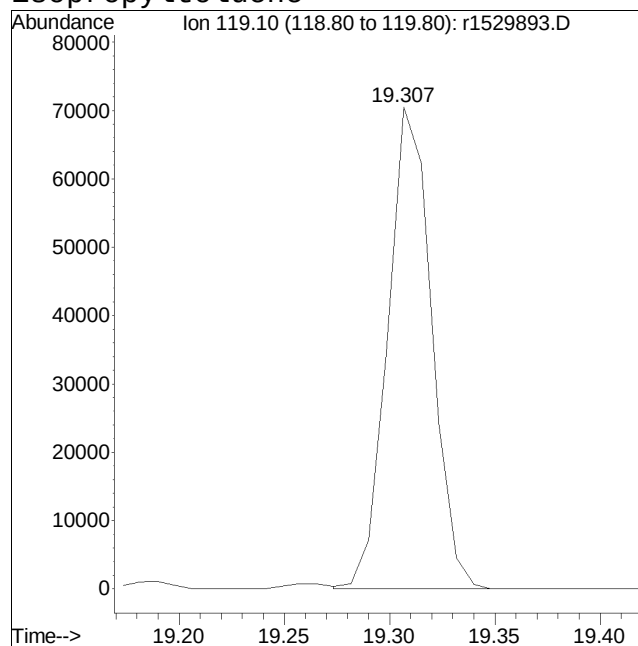
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529893.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:7: 2 Instrument :
Sample : IT015-LLSTD1.0 Quant Date : 12/22/2021 10:25 am

Compound #106: p-isopropyltoluene



Original Peak Response = 103385

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 102246 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529894.D
 Acq On : 22 Dec 2021 8:11 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD5.0
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:26:11 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.608	49	347828	10.000	ppbV	0.00
Standard Area = 354329			Recovery =		98.17%	
43) 1,4-difluorobenzene	11.883	114	818850	10.000	ppbV	0.00
Standard Area = 820934			Recovery =		99.75%	
67) chlorobenzene-D5	16.592	54	193855	10.000	ppbV	0.00
Standard Area = 194813			Recovery =		99.51%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.500	65	237091	9.954	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.54%	
69) toluene-D8	14.725	98	792572	10.005	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.05%	
90) bromofluorobenzene	17.933	95	587998	9.985	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.85%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.868	51	121286	5.392	ppbV	99
3) propylene	3.898	41	67147M6	5.149	ppbV	
4) propane	3.928	29	105866	5.460	ppbV	99
5) dichlorodifluoromethane	3.982	85	133275	5.454	ppbV	97
6) chloromethane	4.162	50	64435	5.329	ppbV	99
7) Freon-114	4.294	85	158607	5.345	ppbV	99
8) methanol	4.360	31	186473	27.146	ppbV	98
9) vinyl chloride	4.426	62	84865	5.212	ppbV	100
10) 1,3-butadiene	4.594	54	61505	5.227	ppbV	97
11) butane	4.660	43	122611	5.234	ppbV	98
12) acetaldehyde	4.306	29	199328	27.700	ppbV	96
13) bromomethane	4.912	94	63669	5.178	ppbV	100
14) chloroethane	5.134	64	42141	5.160	ppbV	100
15) ethanol	5.308	31	263965	23.862	ppbV	100
16) dichlorofluoromethane	5.278	67	149445	5.266	ppbV	100
17) vinyl bromide	5.573	106	54793	5.160	ppbV	94
18) acrolein	5.727	56	33899	5.149	ppbV	97
19) acetone	5.887	43	475051	25.780	ppbV	100
20) acetonitrile	5.563	41	72731	5.021	ppbV	100
21) trichlorofluoromethane	6.097	101	123207	5.195	ppbV	96
22) isopropyl alcohol	6.213	45	252568	12.557	ppbV	100
23) acrylonitrile	6.473	53	59007	5.104	ppbV	100
24) pentane	6.550	43	179154	6.747	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529894.D
 Acq On : 22 Dec 2021 8:11 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD5.0
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:26:11 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.587	31	123720	5.218	ppbV	99
26) 1,1-dichloroethene	6.876	61	119560	5.158	ppbV	99
27) tertiary butyl alcohol	6.948	59	135740	5.089	ppbV	100
28) methylene chloride	7.044	49	81728	5.138	ppbV	100
29) 3-chloropropene	7.182	41	100242	5.162	ppbV	100
30) carbon disulfide	7.338	76	161527	4.854	ppbV	97
31) Freon 113	7.374	101	124718	5.232	ppbV	96
32) trans-1,2-dichloroethene	8.183	61	126684	5.143	ppbV	99
33) 1,1-dichloroethane	8.417	63	152192	5.077	ppbV	99
34) MTBE	8.500	73	173188	5.054	ppbV	99
35) vinyl acetate	8.642	43	150325	4.809	ppbV	100
36) 2-butanone	8.908	43	170809	5.057	ppbV	99
37) cis-1,2-dichloroethene	9.417	61	120993	5.083	ppbV	99
38) Ethyl Acetate	9.717	61	30707	5.102	ppbV	80
39) chloroform	9.775	83	147972	5.089	ppbV	98
40) Tetrahydrofuran	10.225	42	104647	4.970	ppbV	98
41) 2,2-dichloropropane	9.792	77	95820	4.987	ppbV	97
42) 1,2-dichloroethane	10.625	62	102924	5.126	ppbV	98
44) hexane	9.683	57	168038	5.007	ppbV	98
45) diisopropyl ether	9.692	87	75847	5.084	ppbV	99
46) tert-butyl ethyl ether	10.325	59	279793	5.028	ppbV	99
48) 1,1,1-trichloroethane	10.917	97	116270	4.982	ppbV	99
49) 1,1-dichloropropene	11.290	75	112987	4.979	ppbV	99
50) benzene	11.450	78	271824	5.090	ppbV	100
51) thiophene	11.597	84	169419	4.971	ppbV	99
52) carbon tetrachloride	11.623	117	104851	4.930	ppbV	99
53) cyclohexane	11.763	56	177903	4.976	ppbV	98
54) tert-amyl methyl ether	12.157	73	204441	4.963	ppbV	100
55) dibromomethane	12.370	93	85467	5.013	ppbV	98
56) 1,2-dichloropropane	12.403	63	103725	5.045	ppbV	99
57) bromodichloromethane	12.637	83	147552	4.941	ppbV	99
58) 1,4-dioxane	12.677	88	64798	4.987	ppbV	98
59) trichloroethene	12.683	130	108111	5.064	ppbV	97
60) 2,2,4-trimethylpentane	12.737	57	567019	5.063	ppbV	100
61) methyl methacrylate	12.937	41	116858	4.928	ppbV	99
62) heptane	13.050	43	182610	5.026	ppbV	98
63) cis-1,3-dichloropropene	13.700	75	120188	4.808	ppbV	98
64) 4-methyl-2-pentanone	13.742	43	208084	4.998	ppbV	99
65) trans-1,3-dichloropropene	14.325	75	111879	4.784	ppbV	99
66) 1,1,2-trichloroethane	14.525	97	98513	5.035	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529894.D
 Acq On : 22 Dec 2021 8:11 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD5.0
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:26:11 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.833	91	336279	5.052	ppbV	99
70) 2-methylthiophene	14.900	97	234225	4.982	ppbV	99
71) 1,3-dichloropropane	14.858	76	142300	5.040	ppbV	99
72) 2-hexanone	15.108	43	195215	4.958	ppbV	99
73) 3-methylthiophene	15.092	97	242249	4.977	ppbV	100
74) dibromochloromethane	15.275	129	132686	4.855	ppbV	98
75) 1,2-dibromoethane	15.525	107	138797	5.063	ppbV	99
76) butyl acetate	15.767	73	34034	4.921	ppbV	95
77) octane	15.858	85	128802	5.050	ppbV	98
78) tetrachloroethene	15.992	166	124052	5.040	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.617	131	104195	4.835	ppbV	97
80) chlorobenzene	16.633	112	239276	4.975	ppbV	100
81) ethylbenzene	16.975	91	422739	4.974	ppbV	100
82) 2-ethylthiophene	17.008	97	283544	5.028	ppbV	98
83) m+p-xylene	17.133	91	695838	9.987	ppbV	98
84) bromoform	17.200	173	104342	4.600	ppbV	96
85) styrene	17.450	104	238561	4.881	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.542	83	260687	5.018	ppbV	98
87) o-xylene	17.542	91	353031	4.997	ppbV	99
88) 1,2,3-trichloropropane	17.650	75	180491	5.021	ppbV	99
89) nonane	17.733	43	286885	5.010	ppbV	98
91) isopropylbenzene	18.042	105	398733	5.052	ppbV	99
92) bromobenzene	18.117	77	238162	5.061	ppbV	98
93) 2-chlorotoluene	18.442	126	121243	4.965	ppbV	95
94) n-propylbenzene	18.467	120	144203	5.071	ppbV	99
95) 4-chlorotoluene	18.492	126	121498M6	4.976	ppbV	
96) 4-ethyl toluene	18.583	105	418877	5.014	ppbV	100
97) 1,3,5-trimethylbenzene	18.642	105	368114	5.052	ppbV	100
98) tert-butylbenzene	18.973	119	414802	5.109	ppbV	97
99) 1,2,4-trimethylbenzene	18.973	105	367538	5.062	ppbV	97
100) decane	19.048	57	389301	4.964	ppbV	97
101) Benzyl Chloride	19.090	91	204884	4.426	ppbV	99
102) 1,3-dichlorobenzene	19.098	146	241028	4.978	ppbV	96
103) 1,4-dichlorobenzene	19.157	146	232525	4.846	ppbV	95
104) sec-butylbenzene	19.190	105	518749	5.021	ppbV	99
105) 1,2,3-trimethylbenzene	19.315	105	326846	5.061	ppbV	99
106) p-isopropyltoluene	19.307	119	499259	5.033	ppbV	97
107) 1,2-dichlorobenzene	19.432	146	227303	4.993	ppbV	99
108) n-butylbenzene	19.648	91	472513	5.014	ppbV	99
109) indan	19.482	117	375150	5.010	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529894.D
 Acq On : 22 Dec 2021 8:11 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD5.0
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:26:11 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

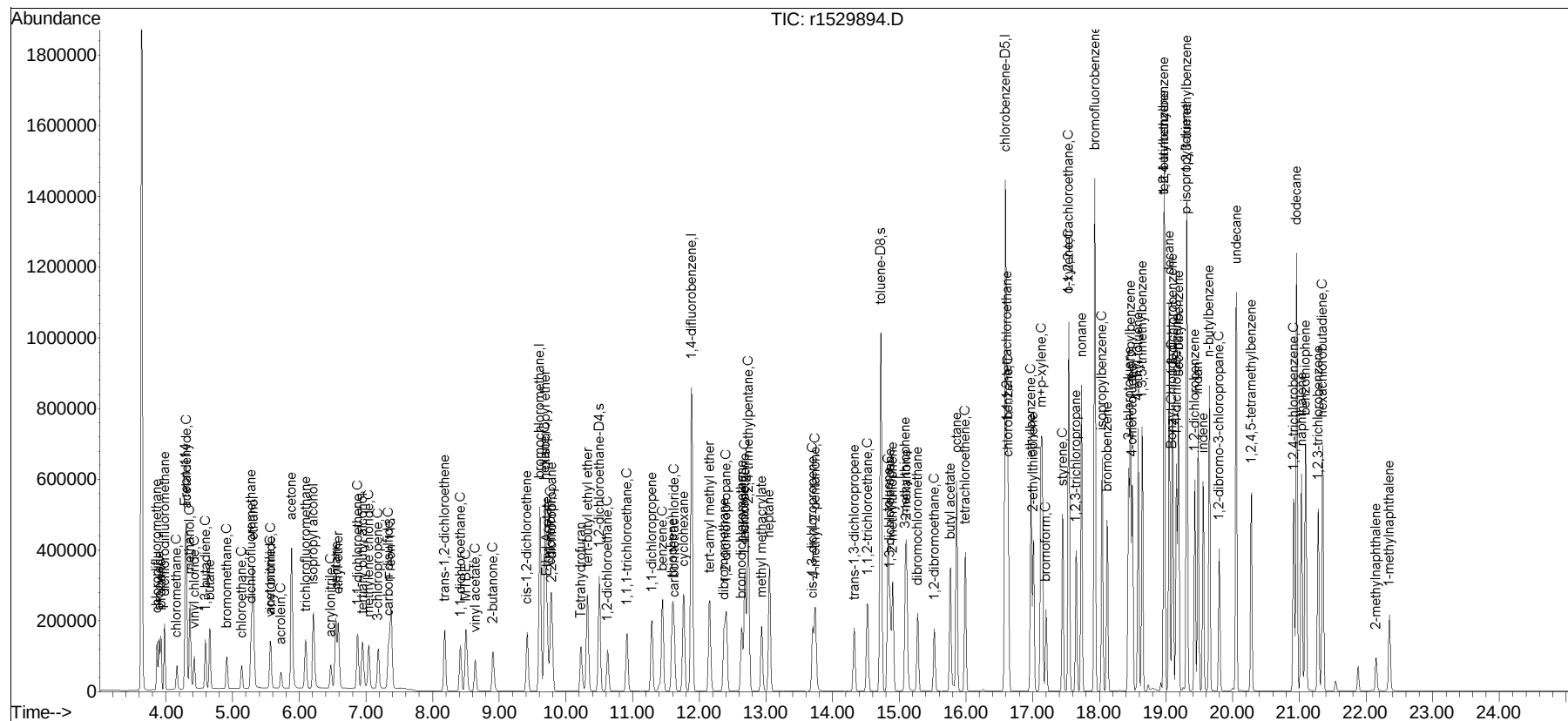
CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.557	115	289481	4.966	ppbV	99
111)	1,2-dibromo-3-chloropr...	19.798	75	96671	4.866	ppbV	97
112)	undecane	20.057	57	450962	5.033	ppbV	99
113)	1,2,4,5-tetramethylben...	20.282	119	308856	5.050	ppbV	97
114)	dodecane	20.958	57	481971	4.970	ppbV	98
115)	1,2,4-trichlorobenzene	20.917	180	177313	4.708	ppbV	99
116)	naphthalene	21.033	128	534903	4.784	ppbV	99
117)	1,2,3-trichlorobenzene	21.283	180	169522	4.693	ppbV	99
118)	benzothiophene	21.092	134	577695	4.679	ppbV	99
119)	hexachlorobutadiene	21.350	225	152188	5.006	ppbV	97
120)	2-methylnaphthalene	22.150	142	56781	4.277	ppbV	98
121)	1-methylnaphthalene	22.350	142	132130	4.457	ppbV	99

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

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Data Path   : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
Data File  : r1529894.D
Acq On     : 22 Dec 2021    8:11 AM
Operator   : AIRLAB15:TS
Sample     : IT015-LLSTD5.0
Misc       : WG1587794
ALS Vial   : 0    Sample Multiplier: 1
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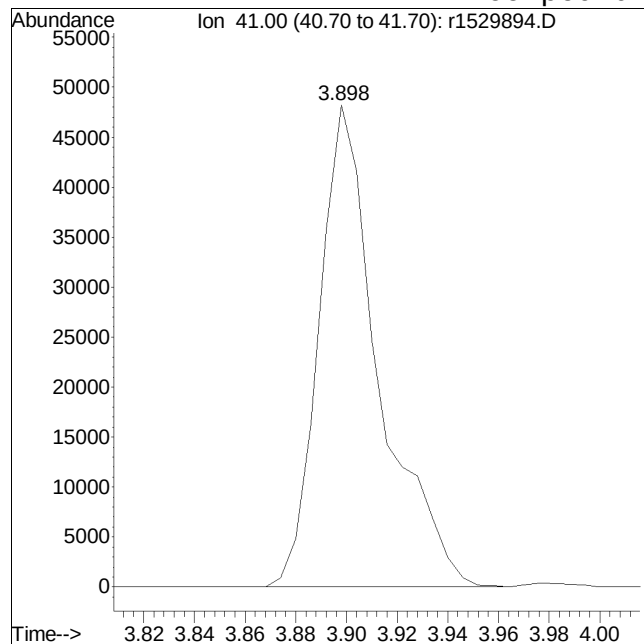
Quant Time: Dec 22 16:26:11 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\TFS15_211222.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:24:36 2021
Response via : Initial Calibration



Manual Integration Report

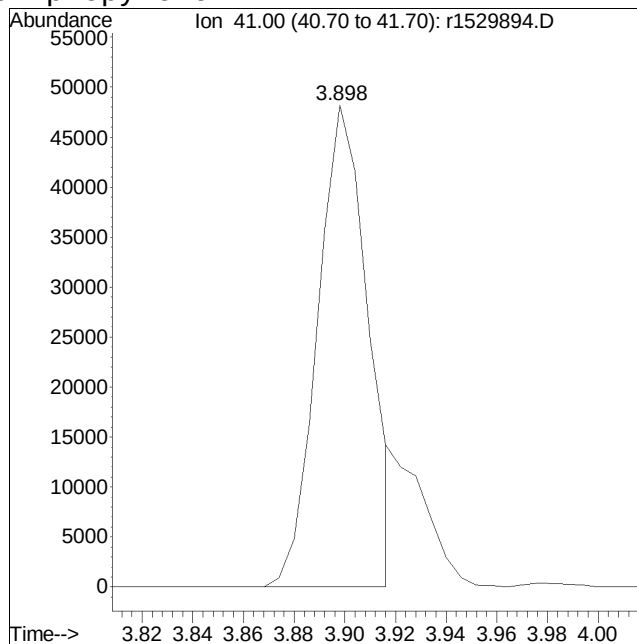
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Data File : r1529894.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 1 Instrument :
Sample : IT015-LLSTD5.0 Quant Date : 12/22/2021 10:25 am

Compound #3: propylene



Original Peak Response = 79465

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

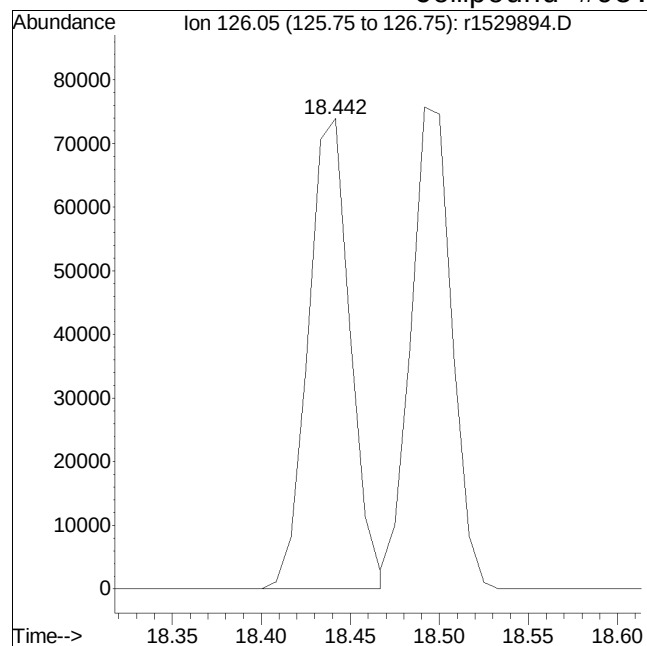


Manual Peak Response = 67147 M6

Manual Integration Report

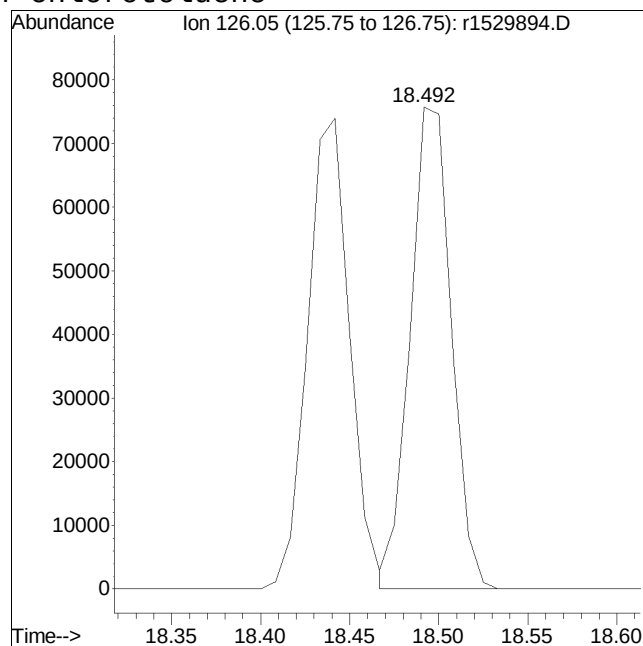
Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529894.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 1 Instrument :
Sample : IT015-LLSTD5.0 Quant Date : 12/22/2021 10:25 am

Compound #95: 4-chlorotoluene



Original Peak Response = 121243

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 121498 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529895.D
 Acq On : 22 Dec 2021 8:52 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD010
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:28:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Dec 11 07:34:07 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.617	49	354329	10.000	ppbV	# 0.07
Standard Area = 354329			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.883	114	820934	10.000	ppbV	# 0.06
Standard Area = 820934			Recovery = 100.00%			
67) chlorobenzene-D5	16.592	54	194813	10.000	ppbV	0.04
Standard Area = 194813			Recovery = 100.00%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.500	65	238799	12.242	ppbV	0.06
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.42%			
69) toluene-D8	14.725	98	796082	9.338	ppbV	0.06
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.38%			
90) bromofluorobenzene	17.933	95	591800	10.155	ppbV	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.55%			
Target Compounds						
						Qvalue
2) chlorodifluoromethane	3.868	51	229161	9.866	ppbV	98
3) propylene	3.898	41	132842M6	11.226	ppbV	
4) propane	3.928	29	197522	9.194	ppbV	# 87
5) dichlorodifluoromethane	3.982	85	248931	11.963	ppbV	97
6) chloromethane	4.168	50	123164	8.734	ppbV	96
7) Freon-114	4.294	85	302259	10.298	ppbV	93
8) methanol	4.360	31	349879	41.113	ppbV	95
9) vinyl chloride	4.426	62	165859	11.696	ppbV	97
10) 1,3-butadiene	4.594	54	119870	9.317	ppbV	93
11) butane	4.660	43	238615	10.231	ppbV	# 90
12) acetaldehyde	4.306	29	366518	41.767	ppbV	87
13) bromomethane	4.912	94	125258	11.601	ppbV	96
14) chloroethane	5.140	64	83198	12.211	ppbV	100
15) ethanol	5.308	31	563440	39.866	ppbV	# 76
16) dichlorofluoromethane	5.278	67	289100	13.248	ppbV	# 96
17) vinyl bromide	5.570	106	108165	11.215	ppbV	91
18) acrolein	5.723	56	67073	9.263	ppbV	93
19) acetone	5.880	43	938578	58.295	ppbV	# 82
20) acetonitrile	5.563	41	147557	10.128	ppbV	95
21) trichlorofluoromethane	6.097	101	241601	16.629	ppbV	100
22) isopropyl alcohol	6.210	45	512251	23.216	ppbV	# 95
23) acrylonitrile	6.473	53	117780	8.830	ppbV	95
24) pentane	6.550	43	345259M6	11.595	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529895.D
 Acq On : 22 Dec 2021 8:52 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD010
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:28:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Dec 11 07:34:07 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) ethyl ether	6.587	31	241554	6.725	ppbV	#	87
26) 1,1-dichloroethene	6.876	61	236132	13.352	ppbV		94
27) tertiary butyl alcohol	6.942	59	271696	11.338	ppbV	#	86
28) methylene chloride	7.044	49	162046	8.895	ppbV	#	79
29) 3-chloropropene	7.188	41	197838	9.758	ppbV	#	84
30) carbon disulfide	7.338	76	338968	9.244	ppbV	#	92
31) Freon 113	7.380	101	242811	12.605	ppbV		95
32) trans-1,2-dichloroethene	8.183	61	250942	13.334	ppbV		98
33) 1,1-dichloroethane	8.417	63	305391	13.594	ppbV		96
34) MTBE	8.500	73	349111	10.704	ppbV	#	90
35) vinyl acetate	8.642	43	318463	9.148	ppbV	#	91
36) 2-butanone	8.908	43	344100	9.701	ppbV	#	89
37) cis-1,2-dichloroethene	9.417	61	242506	14.376	ppbV		97
38) Ethyl Acetate	9.725	61	61317	12.363	ppbV	#	40
39) chloroform	9.775	83	296195	13.670	ppbV	#	93
40) Tetrahydrofuran	10.225	42	214484	9.911	ppbV	#	87
41) 2,2-dichloropropane	9.792	77	195739	11.375	ppbV		85
42) 1,2-dichloroethane	10.625	62	204530	16.046	ppbV		97
44) hexane	9.683	57	336487	11.057	ppbV	#	47
45) diisopropyl ether	9.692	87	149558	10.616	ppbV	#	40
46) tert-butyl ethyl ether	10.325	59	557860	11.007	ppbV		97
48) 1,1,1-trichloroethane	10.917	97	233960	12.575	ppbV		97
49) 1,1-dichloropropene	11.290	75	227506	9.017	ppbV		87
50) benzene	11.450	78	535410	8.773	ppbV		98
51) thiophene	11.597	84	341688	10.513	ppbV	#	91
52) carbon tetrachloride	11.623	117	213207	12.209	ppbV		99
53) cyclohexane	11.770	56	358446	10.933	ppbV	#	85
54) tert-amyl methyl ether	12.157	73	412950	8.347	ppbV	#	86
55) dibromomethane	12.370	93	170918	11.062	ppbV	#	89
56) 1,2-dichloropropane	12.403	63	206127	10.680	ppbV		96
57) bromodichloromethane	12.637	83	299411	10.915	ppbV		99
58) 1,4-dioxane	12.677	88	130270	11.091	ppbV		98
59) trichloroethene	12.683	130	214053	11.845	ppbV		93
60) 2,2,4-trimethylpentane	12.737	57	1099692M6	11.265	ppbV		
61) methyl methacrylate	12.937	41	237742	9.174	ppbV	#	84
62) heptane	13.057	43	364229	8.110	ppbV	#	70
63) cis-1,3-dichloropropene	13.700	75	250616	9.210	ppbV	#	88
64) 4-methyl-2-pentanone	13.742	43	417385	7.947	ppbV	#	73
65) trans-1,3-dichloropropene	14.325	75	234477	9.622	ppbV		89
66) 1,1,2-trichloroethane	14.525	97	196146	10.798	ppbV		94

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529895.D
 Acq On : 22 Dec 2021 8:52 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD010
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:28:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Dec 11 07:34:07 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
68) toluene	14.833	91	668904	9.707	ppbV		99
70) 2-methylthiophene	14.900	97	472508	9.269	ppbV	#	97
71) 1,3-dichloropropane	14.858	76	283732	7.760	ppbV	#	76
72) 2-hexanone	15.108	43	395660	6.963	ppbV	#	65
73) 3-methylthiophene	15.092	97	489186	9.407	ppbV	#	96
74) dibromochloromethane	15.275	129	274667	10.976	ppbV		98
75) 1,2-dibromoethane	15.525	107	275500	8.494	ppbV		99
76) butyl acetate	15.767	73	69504	7.343	ppbV	#	58
77) octane	15.858	85	256313	9.832	ppbV	#	57
78) tetrachloroethene	15.992	166	247369	10.412	ppbV	#	90
79) 1,1,1,2-tetrachloroethane	16.617	131	216555	10.545	ppbV		98
80) chlorobenzene	16.633	112	483296	9.111	ppbV		96
81) ethylbenzene	16.975	91	854115	10.563	ppbV		98
82) 2-ethylthiophene	17.017	97	566715	9.400	ppbV	#	96
83) m+p-xylene	17.142	91	1400364	21.720	ppbV		95
84) bromoform	17.200	173	227947	10.665	ppbV		99
85) styrene	17.450	104	491127	8.786	ppbV		98
86) 1,1,2,2-tetrachloroethane	17.542	83	522098	9.726	ppbV		99
87) o-xylene	17.542	91	710029	10.919	ppbV		97
88) 1,2,3-trichloropropane	17.658	75	361257	7.943	ppbV		93
89) nonane	17.733	43	575432	7.010	ppbV	#	57
91) isopropylbenzene	18.042	105	793204	8.526	ppbV		97
92) bromobenzene	18.117	77	472947	8.272	ppbV		87
93) 2-chlorotoluene	18.442	126	245383	10.191	ppbV		90
94) n-propylbenzene	18.467	120	285789	10.217	ppbV		93
95) 4-chlorotoluene	18.500	126	243431M6	10.253	ppbV		
96) 4-ethyl toluene	18.583	105	839552	8.614	ppbV		95
97) 1,3,5-trimethylbenzene	18.642	105	732275	9.090	ppbV		91
98) tert-butylbenzene	18.973	119	815837	10.473	ppbV		97
99) 1,2,4-trimethylbenzene	18.973	105	729662	9.240	ppbV		94
100) decane	19.048	57	788185	10.232	ppbV	#	67
101) Benzyl Chloride	19.090	91	465236	9.785	ppbV		96
102) 1,3-dichlorobenzene	19.107	146	486568	9.509	ppbV		95
103) 1,4-dichlorobenzene	19.157	146	482194M3	9.508	ppbV		
104) sec-butylbenzene	19.190	105	1038204	8.636	ppbV		97
105) 1,2,3-trimethylbenzene	19.315	105	648973	9.258	ppbV		95
106) p-isopropyltoluene	19.315	119	983782M6	10.542	ppbV		
107) 1,2-dichlorobenzene	19.432	146	457491	9.509	ppbV		91
108) n-butylbenzene	19.648	91	947047	10.467	ppbV		96
109) indan	19.482	117	752529	10.202	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529895.D
 Acq On : 22 Dec 2021 8:52 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD010
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:28:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Sat Dec 11 07:34:07 2021
 Response via : Initial Calibration

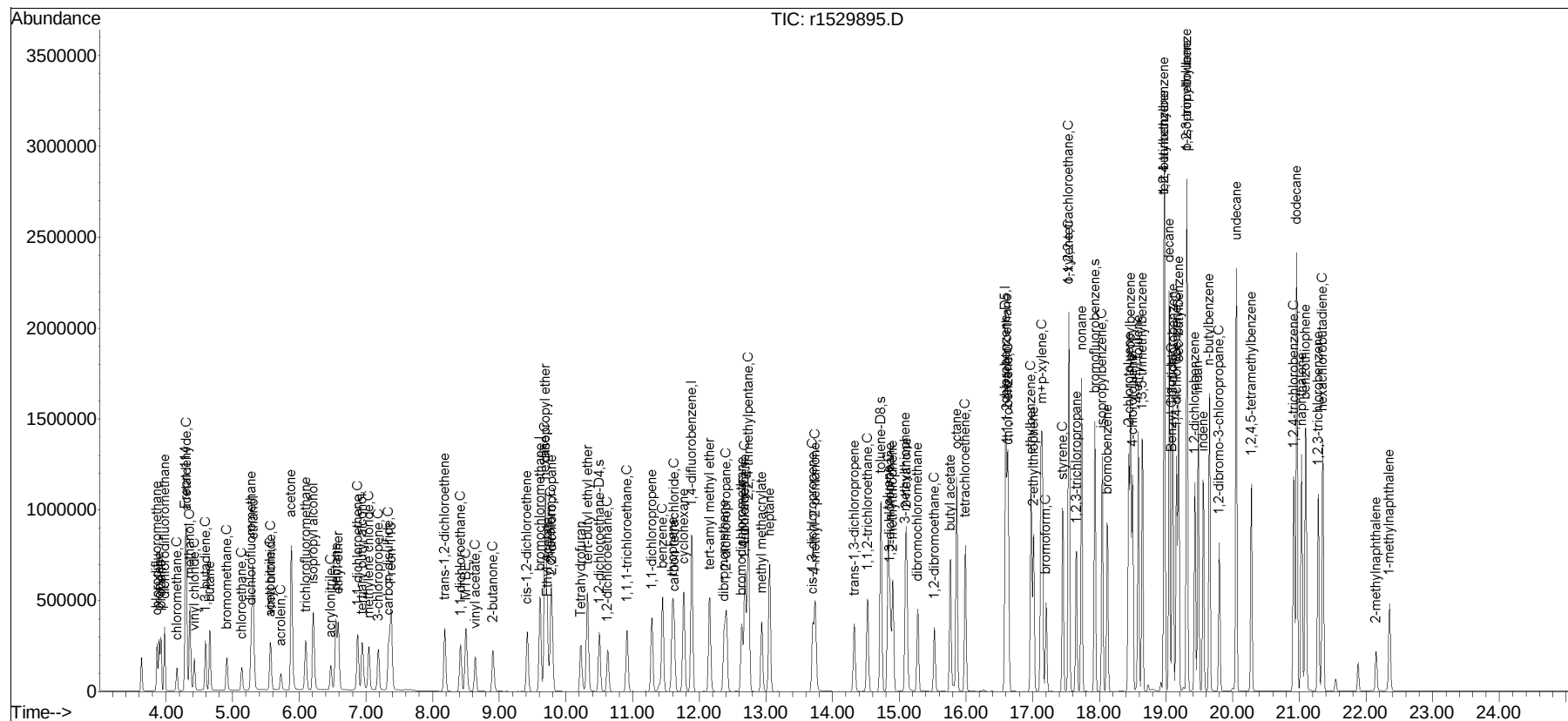
CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.557	115	585782	9.768	ppbV	92
111)	1,2-dibromo-3-chloropr...	19.798	75	199628	8.713	ppbV	83
112)	undecane	20.057	57	900412	10.658	ppbV #	76
113)	1,2,4,5-tetramethylben...	20.282	119	614626	7.582	ppbV	99
114)	dodecane	20.958	57	974508	11.653	ppbV #	66
115)	1,2,4-trichlorobenzene	20.917	180	378496	11.237	ppbV	96
116)	naphthalene	21.033	128	1123592	11.293	ppbV	96
117)	1,2,3-trichlorobenzene	21.283	180	362975	11.129	ppbV	97
118)	benzothiophene	21.092	134	1240739	6.991	ppbV #	95
119)	hexachlorobutadiene	21.350	225	305496	12.122	ppbV	95
120)	2-methylnaphthalene	22.150	142	133423	5.355	ppbV	95
121)	1-methylnaphthalene	22.350	142	297913	6.015	ppbV	97

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

```
Data Path   : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\
Data File  : r1529895.D
Acq On     : 22 Dec 2021    8:52 AM
Operator   : AIRLAB15:TS
Sample     : IT015-LLSTD010
Misc       : WG1587794
ALS Vial   : 0    Sample Multiplier: 1
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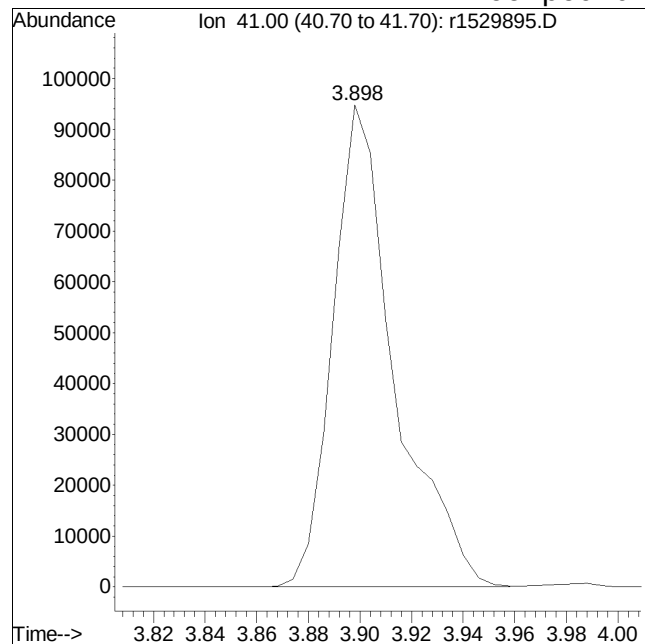
Quant Time: Dec 22 16:28:02 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\TFS15_211222.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Dec 11 07:34:07 2021
Response via : Initial Calibration



Manual Integration Report

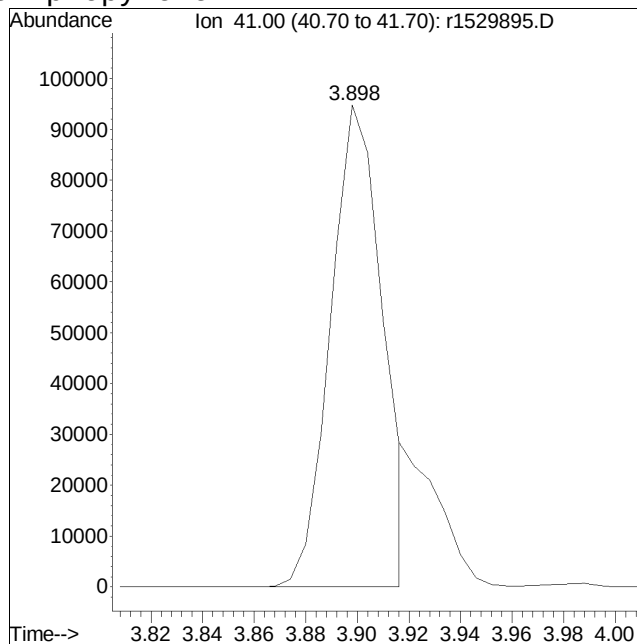
Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_211222.M
Data File : r1529895.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 2 Instrument :
Sample : IT015-LLSTD010 Quant Date : 12/22/2021 10:21 am

Compound #3: propylene



Original Peak Response = 157400

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

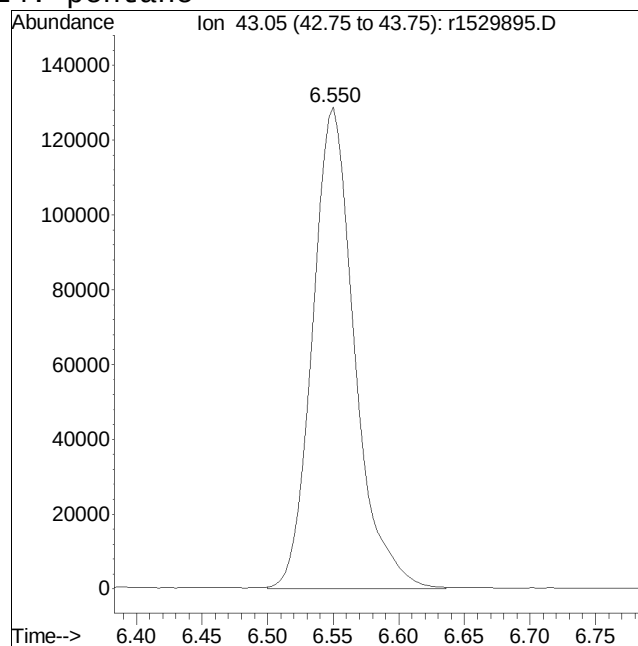
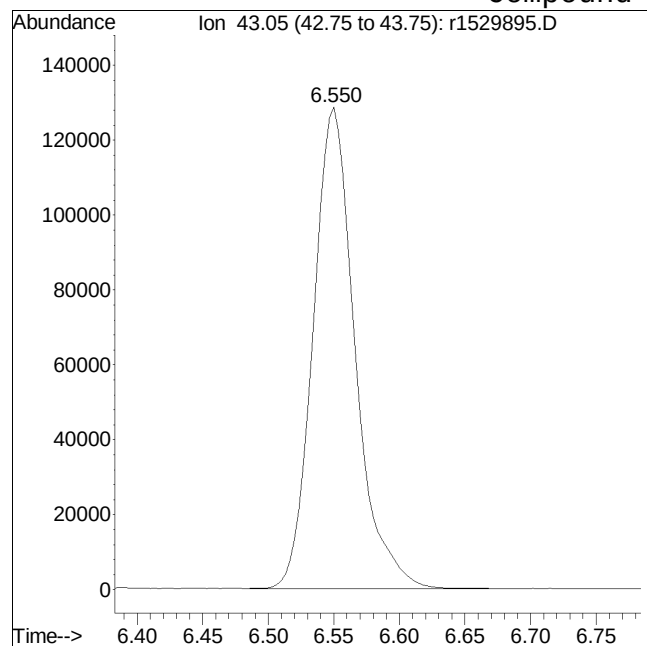


Manual Peak Response = 132842 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529895.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 2 Instrument :
Sample : IT015-LLSTD010 Quant Date : 12/22/2021 10:21 am

Compound #24: pentane



Original Peak Response = 363438

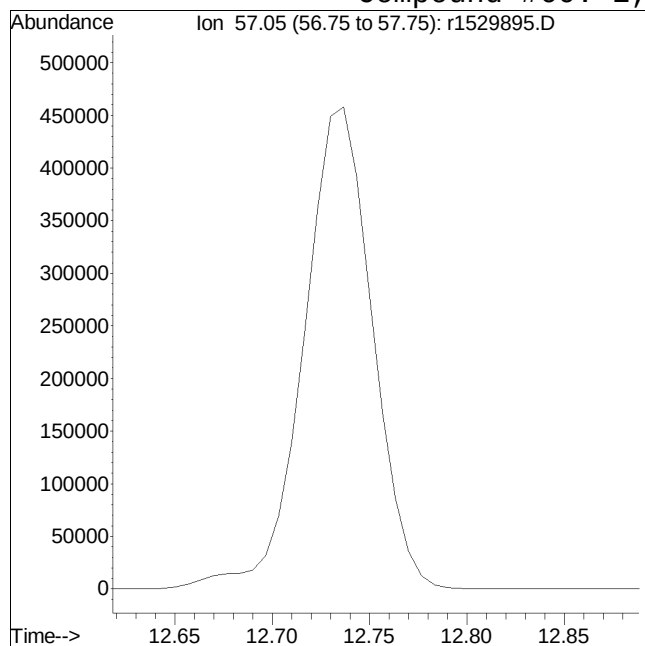
Manual Peak Response = 345259 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

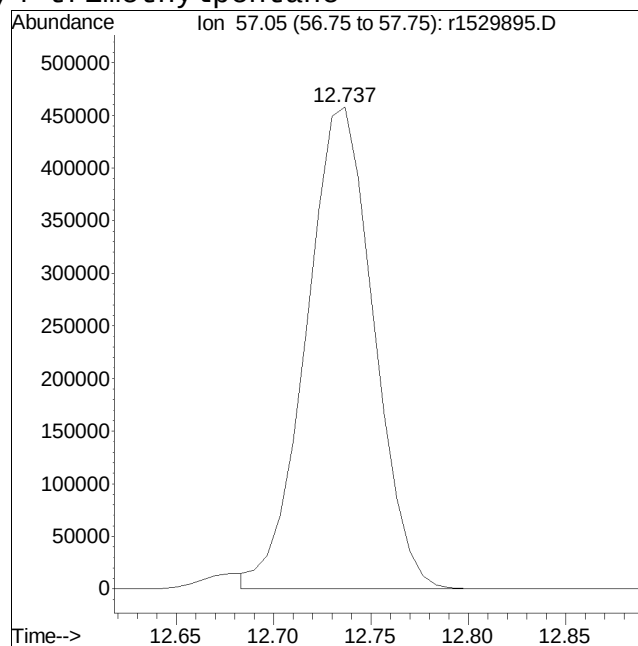
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529895.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 2 Instrument :
Sample : IT015-LLSTD010 Quant Date : 12/22/2021 10:21 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response =

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

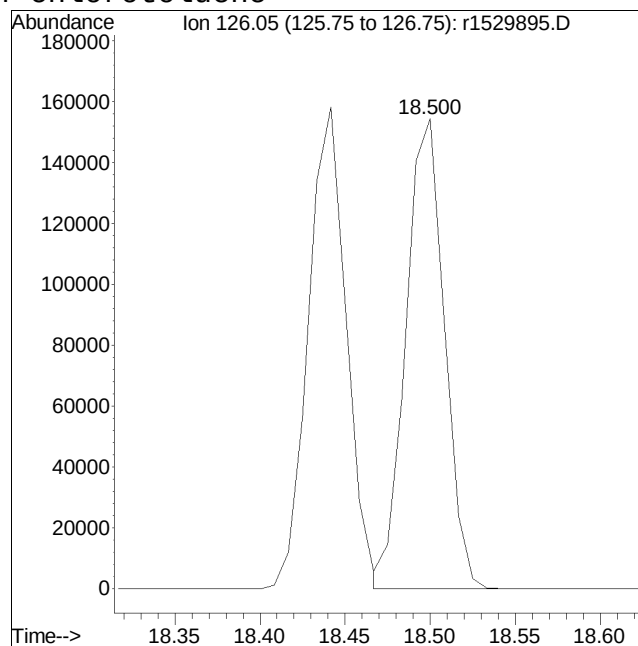
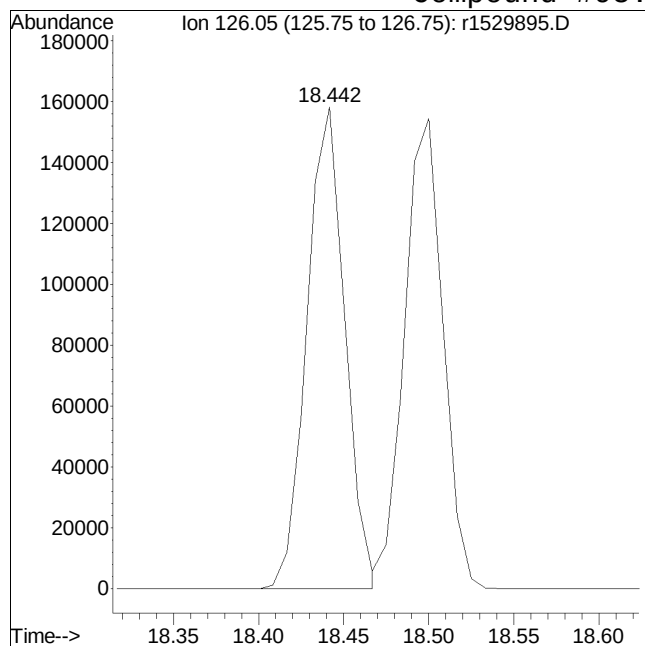


Manual Peak Response = 1099692 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529895.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 2 Instrument :
Sample : IT015-LLSTD010 Quant Date : 12/22/2021 10:21 am

Compound #95: 4-chlorotoluene



Original Peak Response = 245383

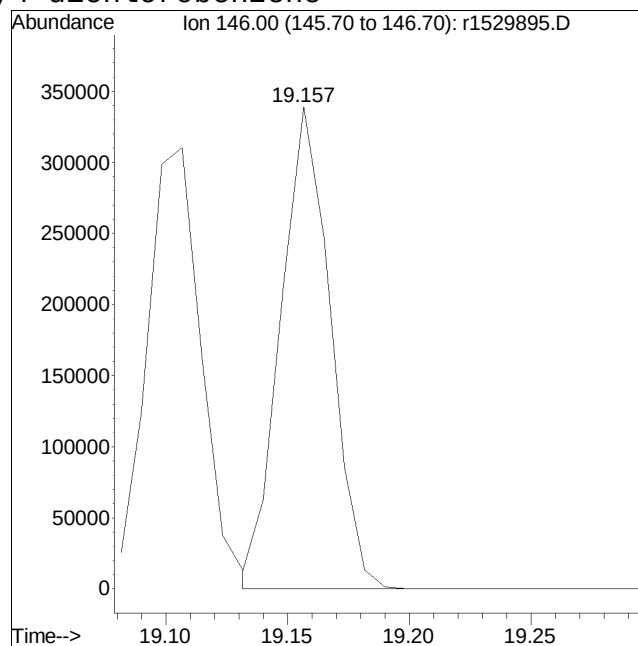
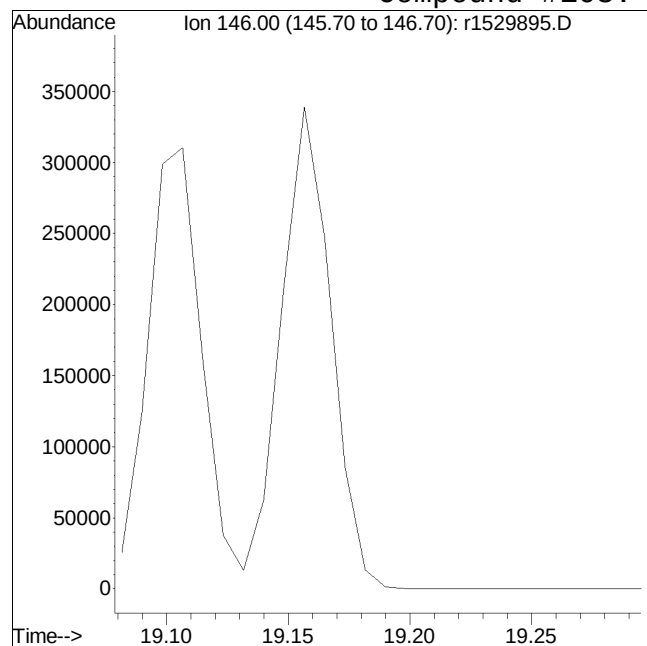
Manual Peak Response = 243431 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529895.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 2 Instrument :
Sample : IT015-LLSTD010 Quant Date : 12/22/2021 10:21 am

Compound #103: 1,4-dichlorobenzene



Original Peak Response =

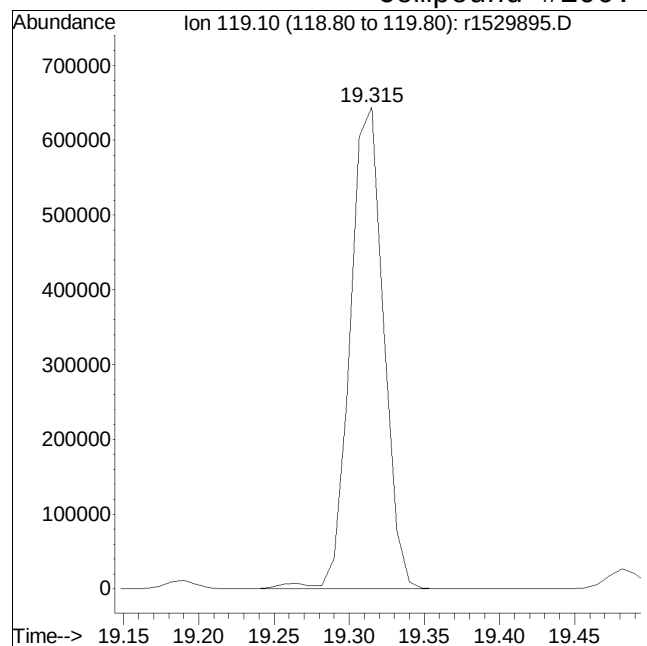
Manual Peak Response = 482194 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

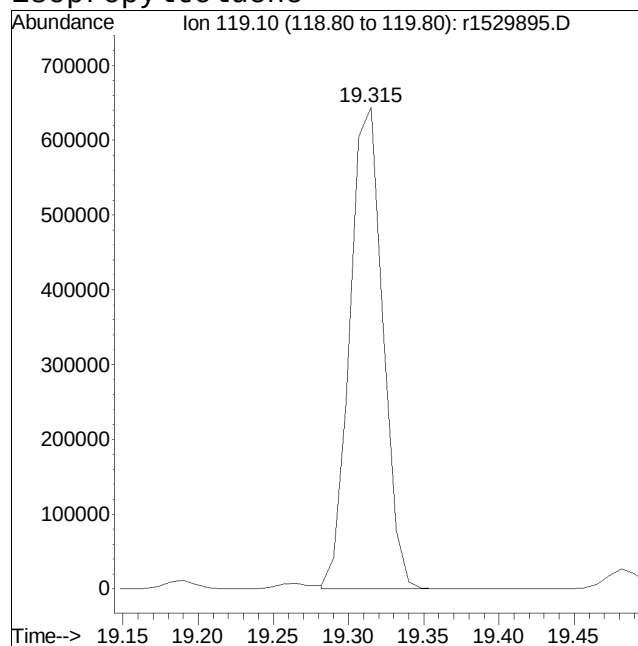
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529895.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 2 Instrument :
Sample : IT015-LLSTD010 Quant Date : 12/22/2021 10:21 am

Compound #106: p-isopropyltoluene



Original Peak Response = 996814

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 983782 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529896.D
 Acq On : 22 Dec 2021 9:29 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD020
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:29:29 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.617	49	354782	10.000	ppbV	0.00
Standard Area = 354329			Recovery =	100.13%		
43) 1,4-difluorobenzene	11.883	114	821851	10.000	ppbV	0.00
Standard Area = 820934			Recovery =	100.11%		
67) chlorobenzene-D5	16.592	54	191647	10.000	ppbV	0.00
Standard Area = 194813			Recovery =	98.37%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.500	65	238377	9.971	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.71%		
69) toluene-D8	14.725	98	798046	10.190	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.90%		
90) bromofluorobenzene	17.933	95	602942	10.357	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.57%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.868	51	480502	20.941	ppbV	100
3) propylene	3.898	41	289079M6	21.733	ppbV	
4) propane	3.928	29	409314	20.696	ppbV	96
5) dichlorodifluoromethane	3.982	85	493969	19.818	ppbV	98
6) chloromethane	4.168	50	252379	20.465	ppbV	100
7) Freon-114	4.294	85	600141	19.830	ppbV	99
8) methanol	4.360	31	714905	102.034	ppbV	99
9) vinyl chloride	4.426	62	336628	20.270	ppbV	99
10) 1,3-butadiene	4.594	54	249169	20.760	ppbV	98
11) butane	4.660	43	514554	21.537	ppbV	99
12) acetaldehyde	4.306	29	708043	96.467	ppbV	94
13) bromomethane	4.912	94	249075	19.860	ppbV	99
14) chloroethane	5.140	64	168499	20.227	ppbV	99
15) ethanol	5.308	31	1082759	95.962	ppbV	95
16) dichlorofluoromethane	5.278	67	627150	21.665	ppbV	99
17) vinyl bromide	5.570	106	238832	22.052	ppbV	99
18) acrolein	5.723	56	143393	21.351	ppbV	97
19) acetone	5.880	43	1977003	105.185	ppbV	98
20) acetonitrile	5.563	41	316791	21.442	ppbV	99
21) trichlorofluoromethane	6.097	101	496978	20.544	ppbV	98
22) isopropyl alcohol	6.210	45	1134606	55.303	ppbV	100
23) acrylonitrile	6.473	53	257516	21.836	ppbV	98
24) pentane	6.550	43	817618	30.187	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529896.D
 Acq On : 22 Dec 2021 9:29 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD020
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:29:29 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.583	31	560499	23.174	ppbV	97
26) 1,1-dichloroethene	6.876	61	492937	20.849	ppbV	99
27) tertiary butyl alcohol	6.942	59	604878	22.235	ppbV	99
28) methylene chloride	7.044	49	335508	20.678	ppbV	99
29) 3-chloropropene	7.188	41	445305	22.480	ppbV	98
30) carbon disulfide	7.338	76	769037	22.659	ppbV	98
31) Freon 113	7.380	101	507700	20.883	ppbV	98
32) trans-1,2-dichloroethene	8.183	61	565065	22.489	ppbV	99
33) 1,1-dichloroethane	8.417	63	650219	21.264	ppbV	99
34) MTBE	8.500	73	776168	22.204	ppbV	99
35) vinyl acetate	8.642	43	759410	23.816	ppbV	99
36) 2-butanone	8.900	43	764664	22.194	ppbV	100
37) cis-1,2-dichloroethene	9.417	61	520826	21.449	ppbV	98
38) Ethyl Acetate	9.717	61	140206	22.837	ppbV	87
39) chloroform	9.775	83	614063	20.705	ppbV	98
40) Tetrahydrofuran	10.217	42	477882	22.252	ppbV	98
41) 2,2-dichloropropane	9.792	77	440620	22.482	ppbV	98
42) 1,2-dichloroethane	10.625	62	435775	21.279	ppbV	98
44) hexane	9.683	57	742984	22.056	ppbV	98
45) diisopropyl ether	9.692	87	333876	22.299	ppbV	97
46) tert-butyl ethyl ether	10.317	59	1245736	22.306	ppbV	99
48) 1,1,1-trichloroethane	10.917	97	507247	21.657	ppbV	98
49) 1,1-dichloropropene	11.290	75	500833	21.989	ppbV	98
50) benzene	11.450	78	1133117	21.140	ppbV	100
51) thiophene	11.597	84	749758	21.918	ppbV	99
52) carbon tetrachloride	11.623	117	457052	21.413	ppbV	98
53) cyclohexane	11.770	56	794390	22.137	ppbV	100
54) tert-amyl methyl ether	12.150	73	910595	22.026	ppbV	100
55) dibromomethane	12.377	93	376948	22.030	ppbV	98
56) 1,2-dichloropropane	12.403	63	443327	21.483	ppbV	99
57) bromodichloromethane	12.637	83	669912	22.349	ppbV	98
58) 1,4-dioxane	12.670	88	294038	22.546	ppbV	99
59) trichloroethene	12.683	130	458952	21.417	ppbV	98
60) 2,2,4-trimethylpentane	12.737	57	2416866M6	21.501	ppbV	
61) methyl methacrylate	12.937	41	519863	21.842	ppbV	100
62) heptane	13.057	43	806489	22.118	ppbV	99
63) cis-1,3-dichloropropene	13.700	75	545092	21.726	ppbV	99
64) 4-methyl-2-pentanone	13.733	43	936773	22.419	ppbV	99
65) trans-1,3-dichloropropene	14.325	75	513042	21.856	ppbV	98
66) 1,1,2-trichloroethane	14.525	97	421318	21.456	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529896.D
 Acq On : 22 Dec 2021 9:29 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD020
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:29:29 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.833	91	1414305	21.493	ppbV	100
70) 2-methylthiophene	14.908	97	1057650	22.754	ppbV	99
71) 1,3-dichloropropane	14.867	76	621149	22.254	ppbV	97
72) 2-hexanone	15.108	43	884155	22.715	ppbV	99
73) 3-methylthiophene	15.092	97	1089923	22.648	ppbV	100
74) dibromochloromethane	15.275	129	622638	23.043	ppbV	99
75) 1,2-dibromoethane	15.525	107	592432	21.859	ppbV	99
76) butyl acetate	15.767	73	158057	23.116	ppbV	99
77) octane	15.858	85	560589	22.233	ppbV	99
78) tetrachloroethene	15.992	166	519825	21.361	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.617	131	485975	22.812	ppbV	99
80) chlorobenzene	16.633	112	1010346	21.251	ppbV	98
81) ethylbenzene	16.975	91	1824852	21.718	ppbV	99
82) 2-ethylthiophene	17.017	97	1263160	22.657	ppbV	100
83) m+p-xylene	17.142	91	2958200	42.947	ppbV	98
84) bromoform	17.200	173	527756	23.535	ppbV	99
85) styrene	17.450	104	1047537	21.682	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.542	83	1068560	20.805	ppbV	99
87) o-xylene	17.542	91	1481267	21.207	ppbV	98
88) 1,2,3-trichloropropane	17.658	75	785191	22.094	ppbV	99
89) nonane	17.733	43	1243071	21.959	ppbV	100
91) isopropylbenzene	18.042	105	1741075	22.313	ppbV	100
92) bromobenzene	18.125	77	1026675	22.067	ppbV	97
93) 2-chlorotoluene	18.442	126	551623	22.851	ppbV	90
94) n-propylbenzene	18.467	120	632064	22.482	ppbV	95
95) 4-chlorotoluene	18.500	126	543428M6	22.512	ppbV	
96) 4-ethyl toluene	18.583	105	1869296	22.633	ppbV	99
97) 1,3,5-trimethylbenzene	18.650	105	1559074	21.643	ppbV	98
98) tert-butylbenzene	18.973	119	1671268	20.824	ppbV	95
99) 1,2,4-trimethylbenzene	18.982	105	1521136	21.192	ppbV	92
100) decane	19.048	57	1706982	22.015	ppbV	99
101) Benzyl Chloride	19.090	91	1182851	25.845	ppbV	98
102) 1,3-dichlorobenzene	19.107	146	1032355	21.568	ppbV	96
103) 1,4-dichlorobenzene	19.157	146	1034514	21.809	ppbV	97
104) sec-butylbenzene	19.190	105	2239031	21.923	ppbV	96
105) 1,2,3-trimethylbenzene	19.315	105	1361452	21.325	ppbV	99
106) p-isopropyltoluene	19.315	119	2040476M6	20.808	ppbV	
107) 1,2-dichlorobenzene	19.432	146	978034	21.731	ppbV	99
108) n-butylbenzene	19.657	91	2037991	21.875	ppbV	99
109) indan	19.482	117	1566879	21.165	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529896.D
 Acq On : 22 Dec 2021 9:29 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD020
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:29:29 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:24:36 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

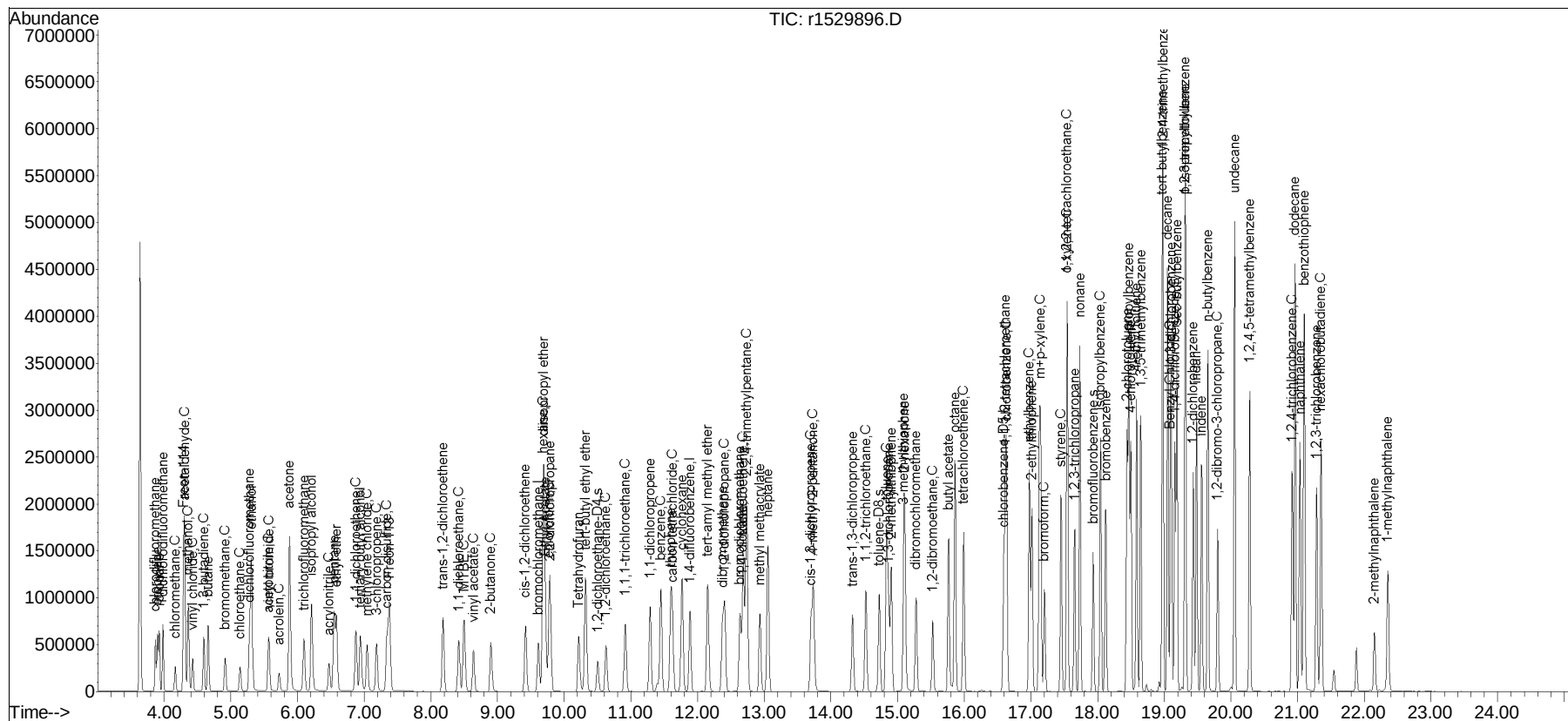
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.557	115	1259641	21.859	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.798	75	438446	22.326	ppbV	96
112) undecane	20.057	57	1913868	21.607	ppbV	99
113) 1,2,4,5-tetramethylben...	20.282	119	1687823	27.915	ppbV	98
114) dodecane	20.958	57	1917111	19.998	ppbV	100
115) 1,2,4-trichlorobenzene	20.917	180	790867	21.240	ppbV	99
116) naphthalene	21.033	128	2338778	21.159	ppbV	99
117) 1,2,3-trichlorobenzene	21.283	180	752465	21.073	ppbV	97
118) benzothiophene	21.100	134	3396381	27.826	ppbV	99
119) hexachlorobutadiene	21.350	225	598802	19.925	ppbV	97
120) 2-methylnaphthalene	22.150	142	392392	29.895	ppbV	99
121) 1-methylnaphthalene	22.350	142	807336	27.547	ppbV	97

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

Sub List : Default - All compounds listed1\12\1222T_I\r1529895.D

Data Path : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\
Data File : r1529896.D
Acq On : 22 Dec 2021 9:29 AM
Operator : AIRLAB15:TS
Sample : IT015-LLSTD020
Misc : WG1587794
ALS Vial : 0 Sample Multiplier: 1

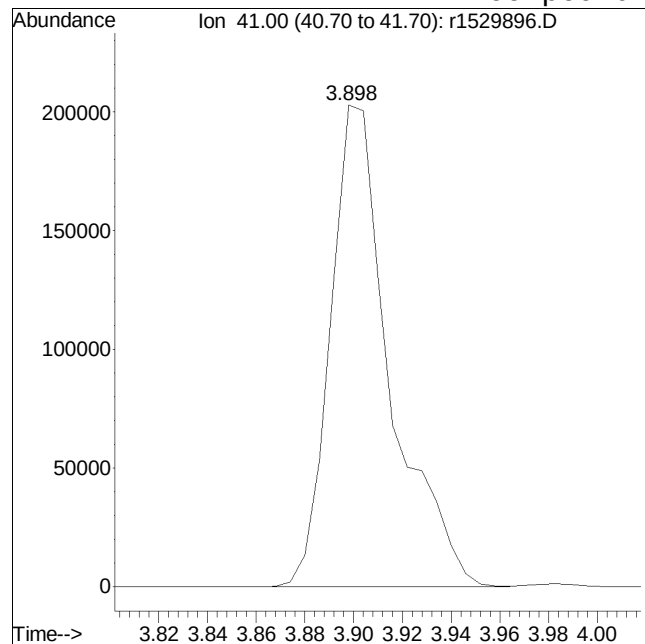
Quant Time: Dec 22 16:29:29 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\TFS15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:24:36 2021
Response via : Initial Calibration



Manual Integration Report

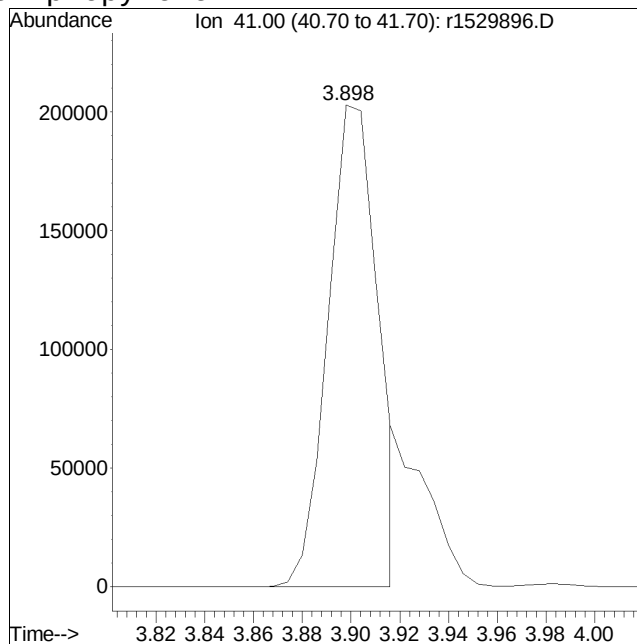
Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_211222.M
Data File : r1529896.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:9: 9 Instrument :
Sample : IT015-LLSTD020 Quant Date : 12/22/2021 10:25 am

Compound #3: propylene



Original Peak Response = 346926

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

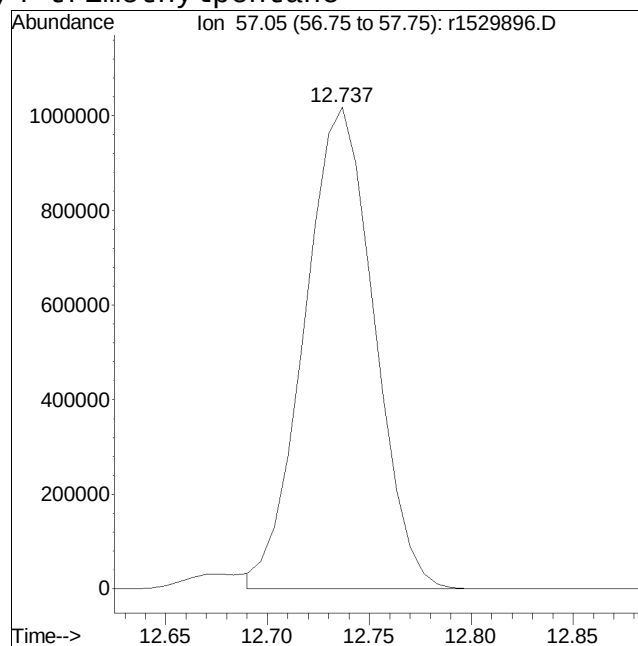
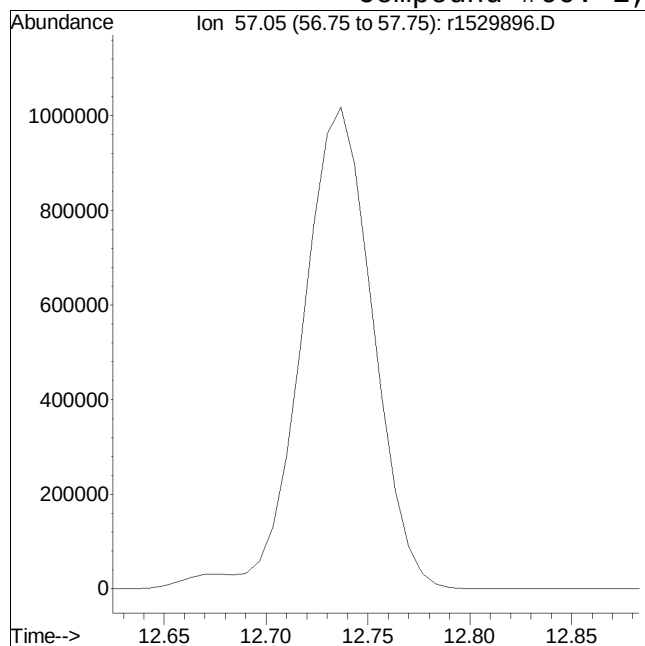


Manual Peak Response = 289079 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529896.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:9: 9 Instrument :
Sample : IT015-LLSTD020 Quant Date : 12/22/2021 10:25 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response =

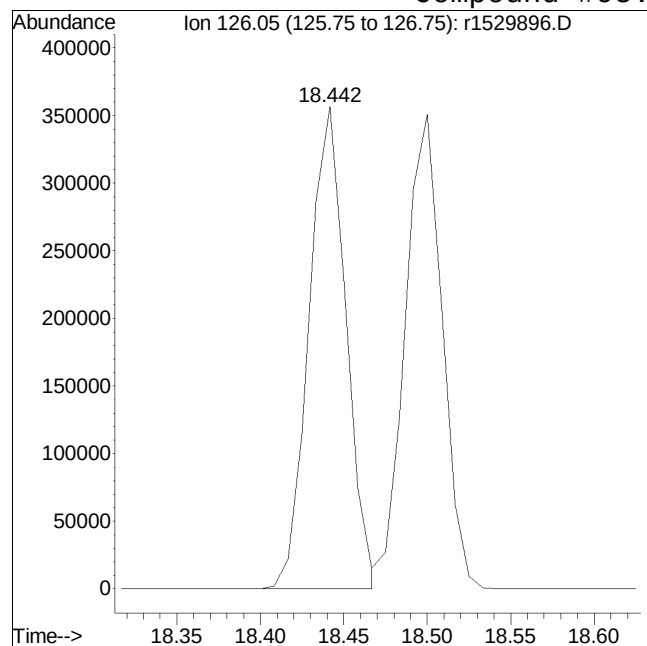
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Peak Response = 2416866 M6

Manual Integration Report

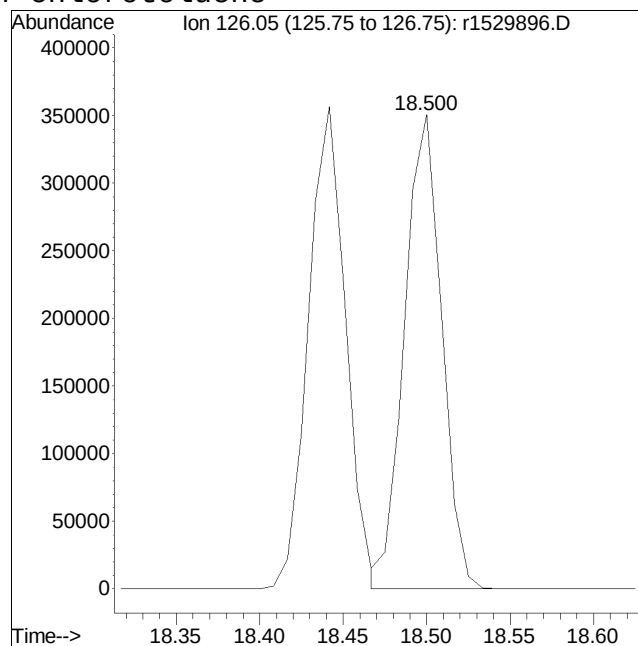
Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529896.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:9: 9 Instrument :
Sample : IT015-LLSTD020 Quant Date : 12/22/2021 10:25 am

Compound #95: 4-chlorotoluene



Original Peak Response = 551623

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

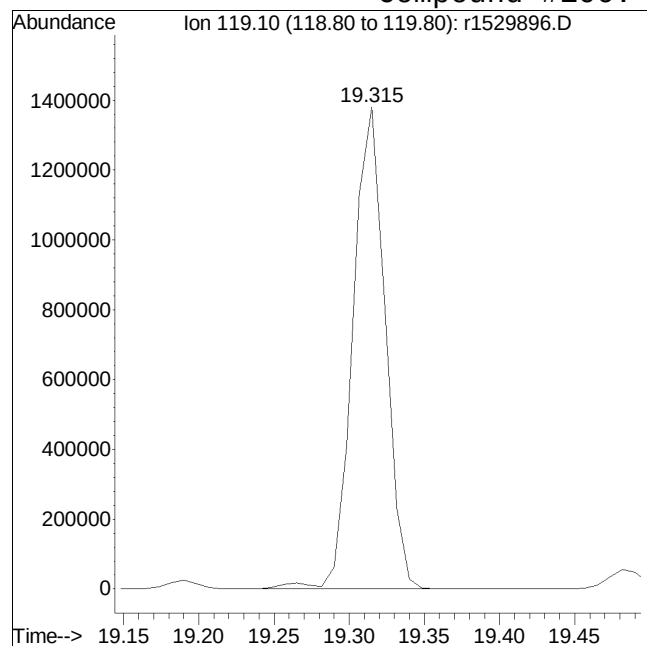


Manual Peak Response = 543428 M6

Manual Integration Report

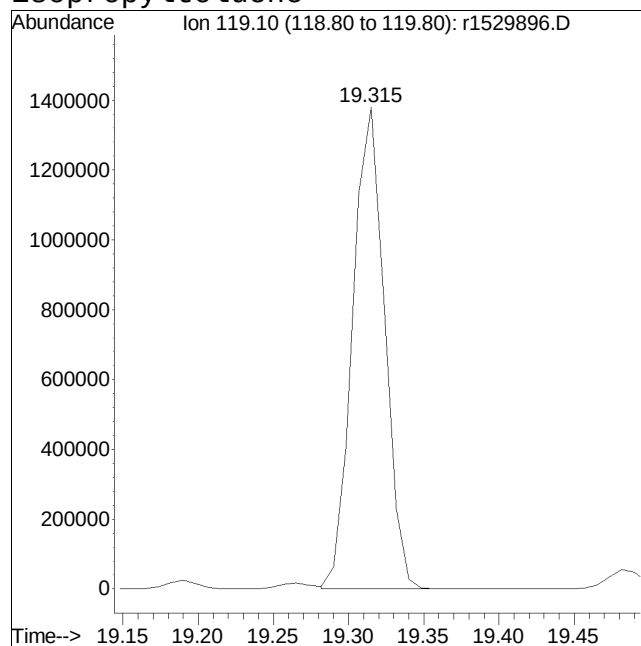
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529896.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:9: 9 Instrument :
Sample : IT015-LLSTD020 Quant Date : 12/22/2021 10:25 am

Compound #106: p-isopropyltoluene



Original Peak Response = 2068266

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 2040476 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529897.D
 Acq On : 22 Dec 2021 10:08 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD050
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:30:35 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:26:07 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.617	49	345448	10.000	ppbV	0.00
Standard Area = 354329			Recovery =		97.49%	
43) 1,4-difluorobenzene	11.890	114	810623	10.000	ppbV	0.00
Standard Area = 820934			Recovery =		98.74%	
67) chlorobenzene-D5	16.600	54	182284	10.000	ppbV	0.00
Standard Area = 194813			Recovery =		93.57%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.508	65	231150	9.788	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		97.88%	
69) toluene-D8	14.725	98	805373	10.872	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		108.72%	
90) bromofluorobenzene	17.933	95	588499	10.908	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		109.08%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.874	51	1059202	41.551	ppbV	98
3) propylene	3.904	41	644251M6	39.570	ppbV	
4) propane	3.928	29	883776	39.791	ppbV	92
5) dichlorodifluoromethane	3.982	85	1070015	39.299	ppbV	99
6) chloromethane	4.168	50	565440	42.657	ppbV	100
7) Freon-114	4.294	85	1290627	39.788	ppbV	98
8) methanol	4.366	31	1521122	195.258	ppbV	99
9) vinyl chloride	4.432	62	745786	42.736	ppbV	99
10) 1,3-butadiene	4.600	54	543920	41.746	ppbV	91
11) butane	4.666	43	1178864	44.457	ppbV	98
12) acetaldehyde	4.312	29	1433712	179.176	ppbV #	85
13) bromomethane	4.918	94	546294	41.012	ppbV	98
14) chloroethane	5.146	64	380431	44.585	ppbV	99
15) ethanol	5.320	31	2106487	186.286	ppbV #	87
16) dichlorofluoromethane	5.284	67	1123497	36.197	ppbV	99
17) vinyl bromide	5.577	106	548472	47.662	ppbV	95
18) acrolein	5.730	56	314376	44.615	ppbV	95
19) acetone	5.887	43	4370654	211.836	ppbV	94
20) acetonitrile	5.570	41	722549	45.436	ppbV	100
21) trichlorofluoromethane	6.103	101	1090283	42.595	ppbV	98
22) isopropyl alcohol	6.220	45	2608124	121.128	ppbV	99
23) acrylonitrile	6.480	53	560094	45.124	ppbV	98
24) pentane	6.553	43	1833792	50.788	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529897.D
 Acq On : 22 Dec 2021 10:08 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD050
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:30:35 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:26:07 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.587	31	1032058	39.364	ppbV	94
26) 1,1-dichloroethene	6.882	61	1059048	43.191	ppbV	98
27) tertiary butyl alcohol	6.948	59	1323299	46.739	ppbV	99
28) methylene chloride	7.050	49	728505	42.989	ppbV	98
29) 3-chloropropene	7.194	41	1035358	49.310	ppbV	97
30) carbon disulfide	7.344	76	1756383	52.891	ppbV	97
31) Freon 113	7.380	101	1124133	43.808	ppbV	94
32) trans-1,2-dichloroethene	8.192	61	1305549	48.693	ppbV	98
33) 1,1-dichloroethane	8.425	63	1511425	48.474	ppbV	100
34) MTBE	8.500	73	1757687	48.293	ppbV	99
35) vinyl acetate	8.642	43	1798411	56.586	ppbV	99
36) 2-butanone	8.908	43	1763094	49.889	ppbV	99
37) cis-1,2-dichloroethene	9.425	61	1203170	48.342	ppbV	98
38) Ethyl Acetate	9.725	61	336434	53.154	ppbV	97
39) chloroform	9.783	83	1299767	42.163	ppbV	100
40) Tetrahydrofuran	10.217	42	1119637	51.525	ppbV	98
41) 2,2-dichloropropane	9.800	77	973861	48.782	ppbV	97
42) 1,2-dichloroethane	10.633	62	1033495	48.511	ppbV	98
44) hexane	9.692	57	1623123	45.632	ppbV	95
45) diisopropyl ether	9.700	87	718384	45.306	ppbV	97
46) tert-butyl ethyl ether	10.325	59	2800078	47.873	ppbV	98
48) 1,1,1-trichloroethane	10.923	97	1146546	48.609	ppbV	97
49) 1,1-dichloropropene	11.297	75	1114626	46.966	ppbV	98
50) benzene	11.457	78	2502981	41.851	ppbV	99
51) thiophene	11.603	84	1629991	45.879	ppbV	98
52) carbon tetrachloride	11.630	117	986994	46.493	ppbV	97
53) cyclohexane	11.770	56	1785265	47.648	ppbV	99
54) tert-amyl methyl ether	12.157	73	2086204	48.547	ppbV	99
55) dibromomethane	12.383	93	849450	46.038	ppbV	98
56) 1,2-dichloropropane	12.410	63	1039266	48.339	ppbV	98
57) bromodichloromethane	12.643	83	1441762	47.889	ppbV	99
58) 1,4-dioxane	12.677	88	651890	48.448	ppbV	98
59) trichloroethene	12.690	130	1038879	47.222	ppbV	98
60) 2,2,4-trimethylpentane	12.743	57	5301799	44.537	ppbV	99
61) methyl methacrylate	12.943	41	1194953	50.059	ppbV	97
62) heptane	13.057	43	1799509	46.862	ppbV	99
63) cis-1,3-dichloropropene	13.708	75	1246125	52.256	ppbV	97
64) 4-methyl-2-pentanone	13.742	43	2134131	50.206	ppbV	98
65) trans-1,3-dichloropropene	14.333	75	1177002	54.213	ppbV	98
66) 1,1,2-trichloroethane	14.525	97	995276	49.285	ppbV	92

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529897.D
 Acq On : 22 Dec 2021 10:08 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD050
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:30:35 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:26:07 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.842	91	3159549	44.975	ppbV	99
70) 2-methylthiophene	14.908	97	2438317	52.030	ppbV	99
71) 1,3-dichloropropane	14.867	76	1369237	47.678	ppbV	98
72) 2-hexanone	15.117	43	2004296	52.931	ppbV	99
73) 3-methylthiophene	15.100	97	2495229	52.068	ppbV	100
74) dibromochloromethane	15.283	129	1398518	55.972	ppbV	99
75) 1,2-dibromoethane	15.533	107	1348979	50.631	ppbV	99
76) butyl acetate	15.767	73	368174	56.410	ppbV	88
77) octane	15.867	85	1202777	47.911	ppbV	95
78) tetrachloroethene	15.992	166	1152040	47.869	ppbV	98
79) 1,1,1,2-tetrachloroethane	16.625	131	1066748	51.953	ppbV	97
80) chlorobenzene	16.642	112	2218755	47.147	ppbV	99
81) ethylbenzene	16.983	91	4089460	50.482	ppbV	98
82) 2-ethylthiophene	17.017	97	2910971	52.737	ppbV	97
83) m+p-xylene	17.142	91	6363576	94.665	ppbV	95
84) bromoform	17.208	173	1196048	60.369	ppbV	98
85) styrene	17.458	104	2428706	53.163	ppbV	97
86) 1,1,2,2-tetrachloroethane	17.550	83	2160635	42.867	ppbV	99
87) o-xylene	17.550	91	3052084	45.145	ppbV	92
88) 1,2,3-trichloropropane	17.658	75	1753021	48.540	ppbV	98
89) nonane	17.742	43	2697031	47.273	ppbV	97
91) isopropylbenzene	18.050	105	3837568	48.416	ppbV	99
92) bromobenzene	18.125	77	2253429	47.599	ppbV	100
93) 2-chlorotoluene	18.442	126	1221624	50.999	ppbV	79
94) n-propylbenzene	18.475	120	1352560	48.139	ppbV	99
95) 4-chlorotoluene	18.500	126	1218302M6	50.860	ppbV	
96) 4-ethyl toluene	18.592	105	4150745	50.127	ppbV	97
97) 1,3,5-trimethylbenzene	18.650	105	3465662	49.049	ppbV	96
98) tert-butylbenzene	18.982	119	3296656	41.420	ppbV	94
99) 1,2,4-trimethylbenzene	18.982	105	3167170	45.361	ppbV	88
100) decane	19.057	57	3555708	46.614	ppbV #	94
101) Benzyl Chloride	19.098	91	2745343	68.746	ppbV	99
102) 1,3-dichlorobenzene	19.107	146	2363054	51.459	ppbV	92
103) 1,4-dichlorobenzene	19.165	146	2267320	50.091	ppbV	98
104) sec-butylbenzene	19.190	105	4969097	49.200	ppbV	95
105) 1,2,3-trimethylbenzene	19.323	105	2892869	46.613	ppbV	90
106) p-isopropyltoluene	19.315	119	4018009	41.490	ppbV	94
107) 1,2-dichlorobenzene	19.440	146	2218197	51.172	ppbV	100
108) n-butylbenzene	19.657	91	4322042	47.943	ppbV	95
109) indan	19.490	117	3423403	47.924	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529897.D
 Acq On : 22 Dec 2021 10:08 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD050
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:30:35 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:26:07 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

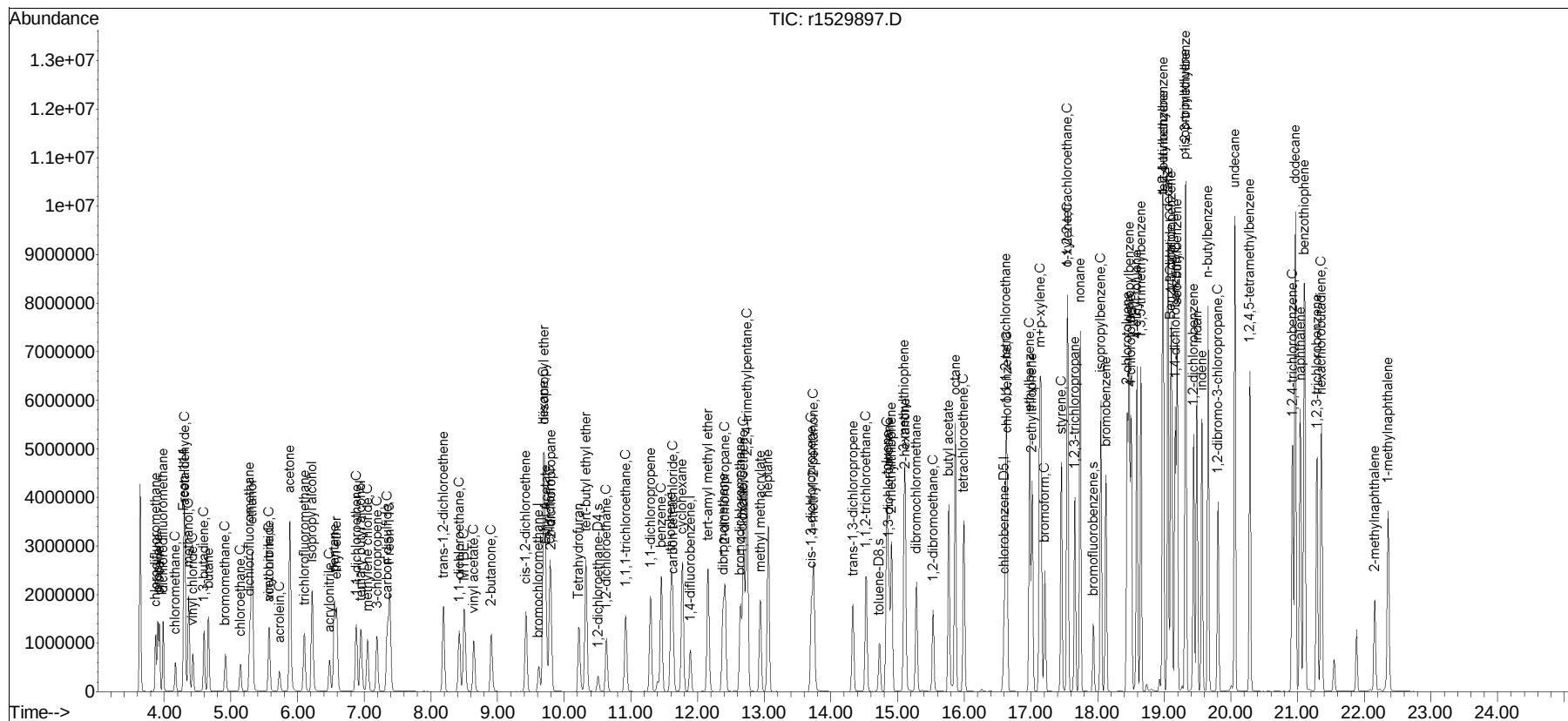
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.565	115	2812432	51.329	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.807	75	998502	56.231	ppbV	97
112) undecane	20.057	57	3930199	47.564	ppbV #	94
113) 1,2,4,5-tetramethylben...	20.282	119	3609844	53.135	ppbV	92
114) dodecane	20.967	57	3997384	50.174	ppbV	92
115) 1,2,4-trichlorobenzene	20.925	180	1797128	58.312	ppbV	99
116) naphthalene	21.042	128	5363403	56.139	ppbV	97
117) 1,2,3-trichlorobenzene	21.292	180	1771765	59.099	ppbV	98
118) benzothiophene	21.100	134	7593350	59.206	ppbV	99
119) hexachlorobutadiene	21.358	225	1342631	50.250	ppbV	98
120) 2-methylnaphthalene	22.158	142	1176287	82.729	ppbV	98
121) 1-methylnaphthalene	22.358	142	2340062	76.597	ppbV	96

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

Sub List : Default - All compounds listed1\12\1222T_I\r1529895.D

Data Path : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\
Data File : r1529897.D
Acq On : 22 Dec 2021 10:08 AM
Operator : AIRLAB15:TS
Sample : IT015-LLSTD050
Misc : WG1587794
ALS Vial : 0 Sample Multiplier: 1

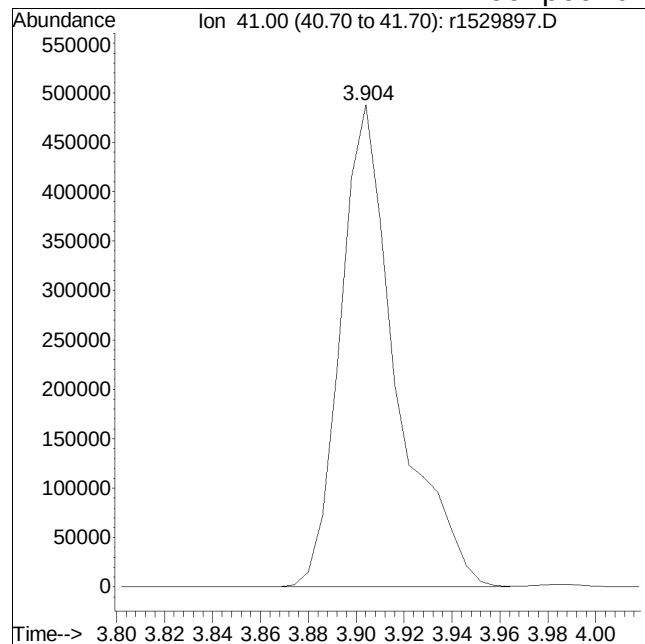
Quant Time: Dec 22 16:30:35 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\TFS15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:26:07 2021
Response via : Initial Calibration



Manual Integration Report

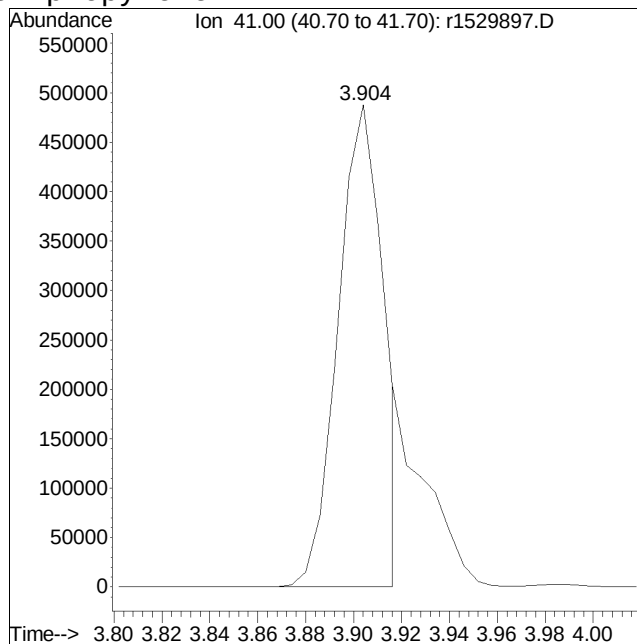
Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_211222.M
Data File : r1529897.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:0: 8 Instrument :
Sample : IT015-LLSTD050 Quant Date : 12/22/2021 11:25 am

Compound #3: propylene



Original Peak Response = 794215

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

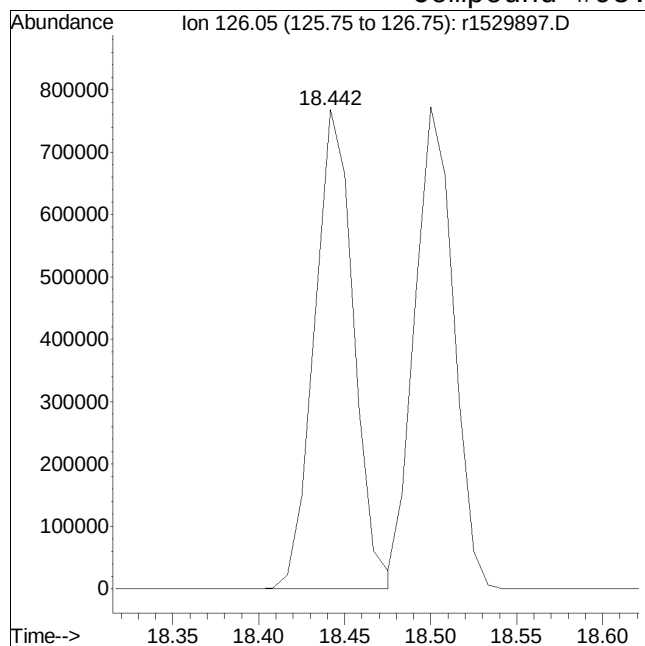


Manual Peak Response = 644251 M6

Manual Integration Report

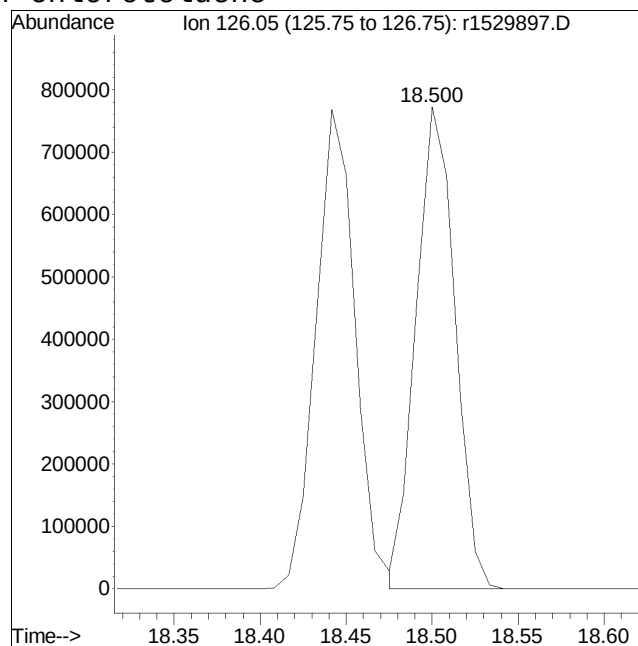
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529897.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:0: 8 Instrument :
Sample : IT015-LLSTD050 Quant Date : 12/22/2021 11:25 am

Compound #95: 4-chlorotoluene



Original Peak Response = 1221624

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 1218302 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529898.D
 Acq On : 22 Dec 2021 10:49 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD100
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:32:13 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 11:26:10 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.625	49	337392	10.000	ppbV	0.00
Standard Area = 354329			Recovery =	95.22%		
43) 1,4-difluorobenzene	11.897	114	797500	10.000	ppbV	0.01
Standard Area = 820934			Recovery =	97.15%		
67) chlorobenzene-D5	16.600	54	172108	10.000	ppbV	0.00
Standard Area = 194813			Recovery =	88.35%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.517	65	228738	9.875	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.75%		
69) toluene-D8	14.733	98	819934	11.578	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	115.78%		
90) bromofluorobenzene	17.942	95	598311	11.596	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	115.96%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.874	51	1954604	80.449	ppbV	97
3) propylene	3.904	41	1295735M6	81.816	ppbV	
4) propane	3.934	29	1583539	75.572	ppbV #	89
5) dichlorodifluoromethane	3.988	85	1918544	74.422	ppbV	98
6) chloromethane	4.174	50	1076391	84.923	ppbV	99
7) Freon-114	4.300	85	2290420	74.469	ppbV	99
8) methanol	4.372	31	2688206	369.490	ppbV	99
9) vinyl chloride	4.432	62	1384126	82.930	ppbV	99
10) 1,3-butadiene	4.600	54	1004744	80.862	ppbV	90
11) butane	4.666	43	2254613	88.456	ppbV	98
12) acetaldehyde	4.312	29	2354437	316.197	ppbV #	75
13) bromomethane	4.924	94	1003534	79.170	ppbV	97
14) chloroethane	5.146	64	713953	87.017	ppbV	99
15) ethanol	5.332	31	2820426	269.095	ppbV #	77
16) dichlorofluoromethane	5.290	67	2165517	74.368	ppbV	99
17) vinyl bromide	5.580	106	1023197	91.650	ppbV	97
18) acrolein	5.733	56	594783	88.004	ppbV	95
19) acetone	5.893	43	8114208	411.645	ppbV	92
20) acetonitrile	5.577	41	1373630	89.608	ppbV	99
21) trichlorofluoromethane	6.103	101	2019920	82.544	ppbV	99
22) isopropyl alcohol	6.230	45	5023054	239.915	ppbV	98
23) acrylonitrile	6.487	53	1056489	88.380	ppbV	98
24) pentane	6.557	43	3609197	102.117	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529898.D
 Acq On : 22 Dec 2021 10:49 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD100
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:32:13 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 11:26:10 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) ethyl ether	6.587	31	1710370	68.887	ppbV	#	89
26) 1,1-dichloroethene	6.882	61	1928895	82.142	ppbV		97
27) tertiary butyl alcohol	6.960	59	2450074	89.576	ppbV		98
28) methylene chloride	7.056	49	1365889	84.501	ppbV		99
29) 3-chloropropene	7.194	41	2017945	98.596	ppbV		98
30) carbon disulfide	7.350	76	3342063	102.201	ppbV		98
31) Freon 113	7.386	101	2052216	83.360	ppbV		92
32) trans-1,2-dichloroethene	8.192	61	2463558	94.430	ppbV		97
33) 1,1-dichloroethane	8.433	63	2925134	96.475	ppbV		99
34) MTBE	8.508	73	3369768	95.261	ppbV		99
35) vinyl acetate	8.650	43	3538453	111.888	ppbV		100
36) 2-butanone	8.908	43	3388614	98.211	ppbV		97
37) cis-1,2-dichloroethene	9.433	61	2262347	93.512	ppbV		98
38) Ethyl Acetate	9.733	61	617659	98.876	ppbV		91
39) chloroform	9.792	83	2234519	75.916	ppbV		99
40) Tetrahydrofuran	10.225	42	2175008	101.963	ppbV		98
41) 2,2-dichloropropane	9.800	77	1786419	91.941	ppbV		97
42) 1,2-dichloroethane	10.642	62	1921687	92.749	ppbV		97
44) hexane	9.692	57	2719609	78.699	ppbV		99
45) diisopropyl ether	9.708	87	1223910	79.525	ppbV		93
46) tert-butyl ethyl ether	10.333	59	5130775	89.709	ppbV		98
48) 1,1,1-trichloroethane	10.923	97	2157617	93.351	ppbV		95
49) 1,1-dichloropropene	11.297	75	2089137	90.259	ppbV		96
50) benzene	11.463	78	4567725	79.481	ppbV		98
51) thiophene	11.610	84	2860686	82.819	ppbV		96
52) carbon tetrachloride	11.637	117	1765860	85.407	ppbV		97
53) cyclohexane	11.777	56	3174865	86.713	ppbV		97
54) tert-amyl methyl ether	12.163	73	3965893	94.198	ppbV		99
55) dibromomethane	12.383	93	1491108	83.085	ppbV		96
56) 1,2-dichloropropane	12.417	63	1962874	93.244	ppbV		98
57) bromodichloromethane	12.650	83	2539055	86.243	ppbV		99
58) 1,4-dioxane	12.683	88	1122742	85.192	ppbV		96
59) trichloroethene	12.697	130	1827804	85.125	ppbV		96
60) 2,2,4-trimethylpentane	12.750	57	9123910	79.141	ppbV	#	95
61) methyl methacrylate	12.943	41	2306679	98.202	ppbV		95
62) heptane	13.063	43	3372110	90.068	ppbV		95
63) cis-1,3-dichloropropene	13.708	75	2363701	100.107	ppbV		98
64) 4-methyl-2-pentanone	13.750	43	4017966	96.014	ppbV		97
65) trans-1,3-dichloropropene	14.333	75	2255516	104.342	ppbV		98
66) 1,1,2-trichloroethane	14.533	97	1863478	93.987	ppbV		90

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529898.D
 Acq On : 22 Dec 2021 10:49 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD100
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:32:13 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 11:26:10 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.842	91	5509815	84.277	ppbV	100
70) 2-methylthiophene	14.917	97	4535955	101.922	ppbV	99
71) 1,3-dichloropropane	14.875	76	2512701	93.287	ppbV	95
72) 2-hexanone	15.125	43	3695107	102.494	ppbV	94
73) 3-methylthiophene	15.100	97	4480873	98.449	ppbV	98
74) dibromochloromethane	15.283	129	2454735	102.308	ppbV	98
75) 1,2-dibromoethane	15.542	107	2557572	101.486	ppbV	97
76) butyl acetate	15.775	73	707723	112.442	ppbV	82
77) octane	15.867	85	2093212	88.841	ppbV	93
78) tetrachloroethene	16.000	166	1979805	87.662	ppbV	95
79) 1,1,1,2-tetrachloroethane	16.625	131	1810135	92.851	ppbV	98
80) chlorobenzene	16.642	112	3824493	86.780	ppbV	97
81) ethylbenzene	16.983	91	7102484	92.733	ppbV	93
82) 2-ethylthiophene	17.025	97	5281265	100.550	ppbV	98
83) m+p-xylene	17.150	91	10496355	166.646	ppbV	90
84) bromoform	17.217	173	2058614	106.884	ppbV	98
85) styrene	17.458	104	4512586	103.682	ppbV	95
86) 1,1,2,2-tetrachloroethane	17.550	83	3432041	73.619	ppbV	98
87) o-xylene	17.558	91	4926274	78.262	ppbV	89
88) 1,2,3-trichloropropane	17.667	75	3199937	94.237	ppbV	97
89) nonane	17.742	43	4769258	89.233	ppbV	89
91) isopropylbenzene	18.050	105	6901303	92.637	ppbV	96
92) bromobenzene	18.133	77	3994466	89.980	ppbV	97
93) 2-chlorotoluene	18.450	126	2091919	92.231	ppbV	90
94) n-propylbenzene	18.475	120	2266368	85.889	ppbV	84
95) 4-chlorotoluene	18.508	126	2118671M6	93.410	ppbV	
96) 4-ethyl toluene	18.592	105	7339656	93.845	ppbV	97
97) 1,3,5-trimethylbenzene	18.650	105	6066445	91.181	ppbV	94
98) tert-butylbenzene	18.982	119	5292411	72.197	ppbV	94
99) 1,2,4-trimethylbenzene	18.990	105	5159221	79.312	ppbV	# 81
100) decane	19.057	57	5640340	79.079	ppbV	# 85
101) Benzyl Chloride	19.098	91	4755731	119.718	ppbV	96
102) 1,3-dichlorobenzene	19.115	146	3947491	90.667	ppbV	96
103) 1,4-dichlorobenzene	19.165	146	4004489	93.676	ppbV	99
104) sec-butylbenzene	19.198	105	8314359	87.390	ppbV	95
105) 1,2,3-trimethylbenzene	19.323	105	4713602	81.227	ppbV	92
106) p-isopropyltoluene	19.323	119	6303617M6	70.657	ppbV	
107) 1,2-dichlorobenzene	19.440	146	3968550	96.640	ppbV	99
108) n-butylbenzene	19.657	91	7168705	84.720	ppbV	90
109) indan	19.490	117	5840665	87.113	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529898.D
 Acq On : 22 Dec 2021 10:49 AM
 Operator : AIRLAB15:TS
 Sample : IT015-LLSTD100
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:32:13 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 11:26:10 2021
 Response via : Initial Calibration

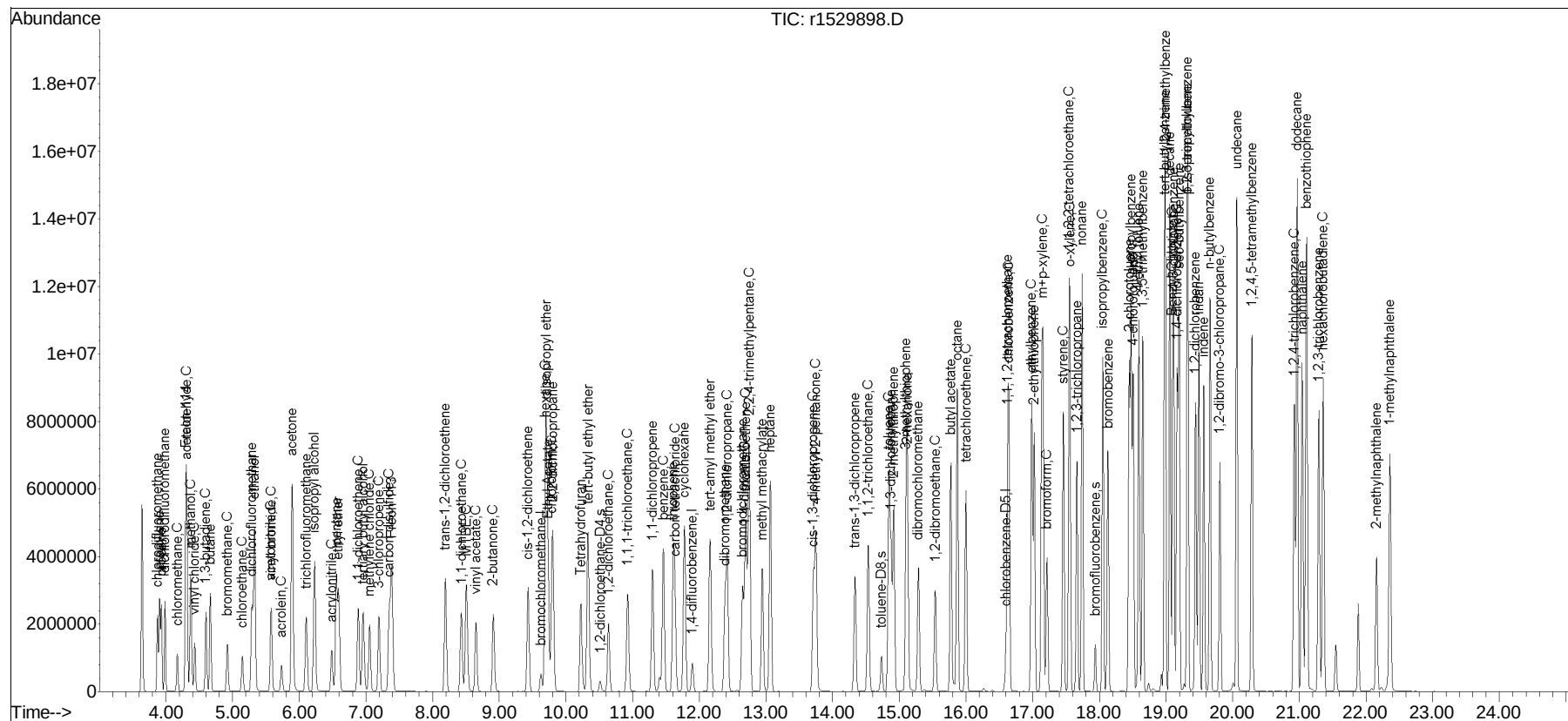
CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.565	115	4916633	94.678	ppbV	96
111)	1,2-dibromo-3-chloropr...	19.807	75	1852230	108.544	ppbV	98
112)	undecane	20.065	57	6138883	79.238	ppbV #	84
113)	1,2,4,5-tetramethylben...	20.290	119	6249552	96.564	ppbV	94
114)	dodecane	20.967	57	6255384	83.117	ppbV #	83
115)	1,2,4-trichlorobenzene	20.925	180	3174413	106.560	ppbV	96
116)	naphthalene	21.042	128	9223647	100.490	ppbV #	95
117)	1,2,3-trichlorobenzene	21.292	180	3113264	107.199	ppbV	96
118)	benzothiophene	21.108	134	12355307	98.994	ppbV	98
119)	hexachlorobutadiene	21.358	225	2298981	91.065	ppbV	99
120)	2-methylnaphthalene	22.158	142	2470982	162.754	ppbV	98
121)	1-methylnaphthalene	22.358	142	4597458	144.060	ppbV	97

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


```
Data Path   : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\
Data File  : r1529898.D
Acq On     : 22 Dec 2021  10:49 AM
Operator   : AIRLAB15:TS
Sample     : IT015-LLSTD100
Misc       : WG1587794
ALS Vial   : 0      Sample Multiplier: 1
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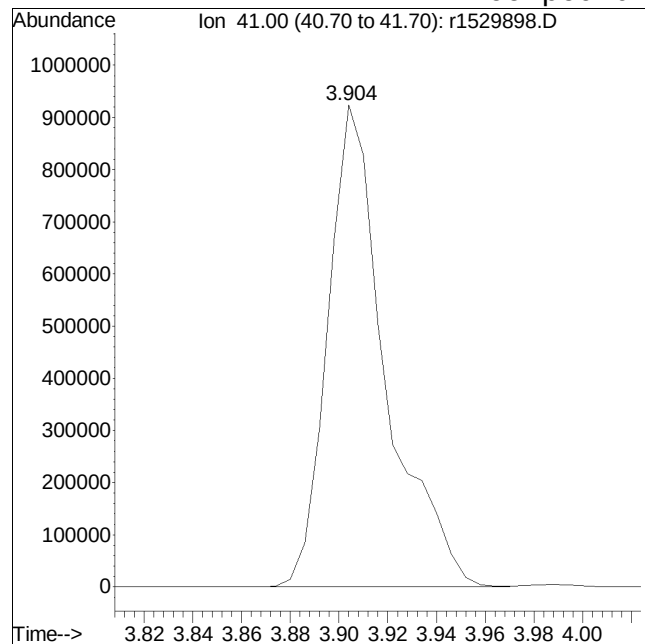
Quant Time: Dec 22 16:32:13 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\TFS15_211222.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 11:26:10 2021
Response via : Initial Calibration



Manual Integration Report

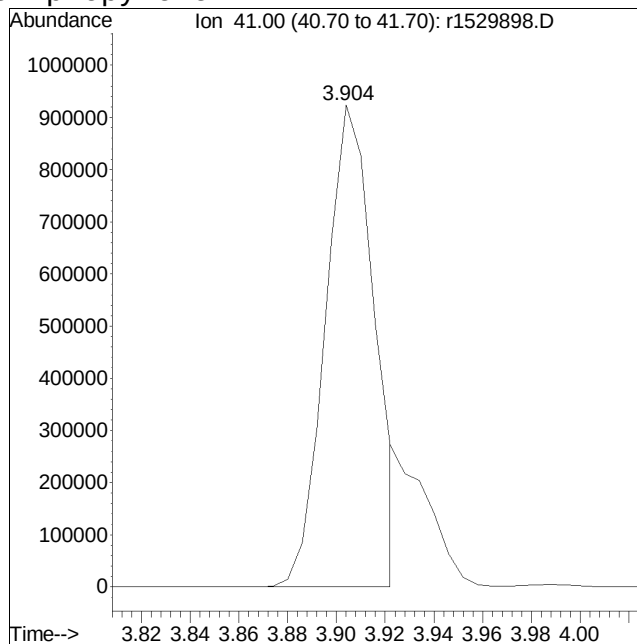
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Data File : r1529898.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:0: 9 Instrument :
Sample : IT015-LLSTD100 Quant Date : 12/22/2021 11:26 am

Compound #3: propylene



Original Peak Response = 1531014

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

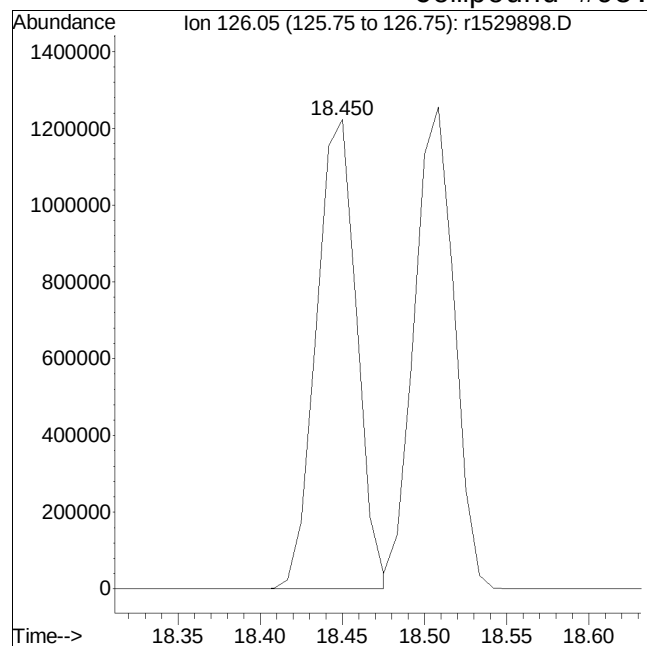


Manual Peak Response = 1295735 M6

Manual Integration Report

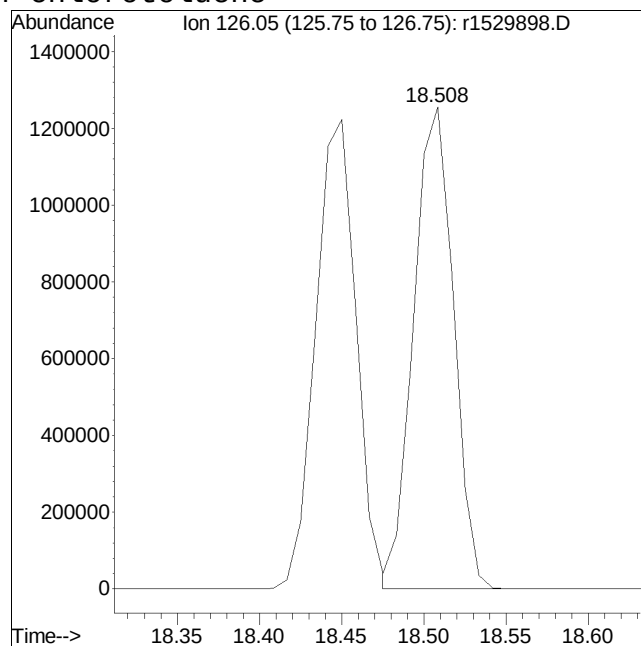
Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529898.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:0: 9 Instrument :
Sample : IT015-LLSTD100 Quant Date : 12/22/2021 11:26 am

Compound #95: 4-chlorotoluene



Original Peak Response = 2091919

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

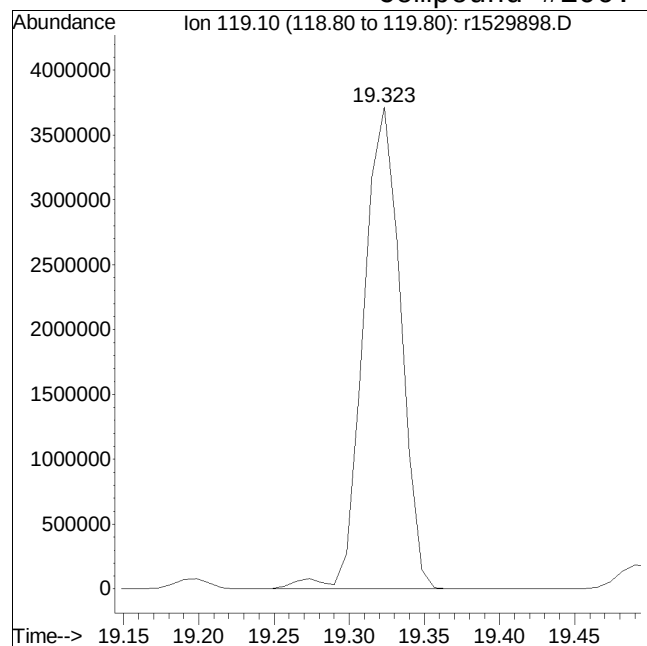


Manual Peak Response = 2118671 M6

Manual Integration Report

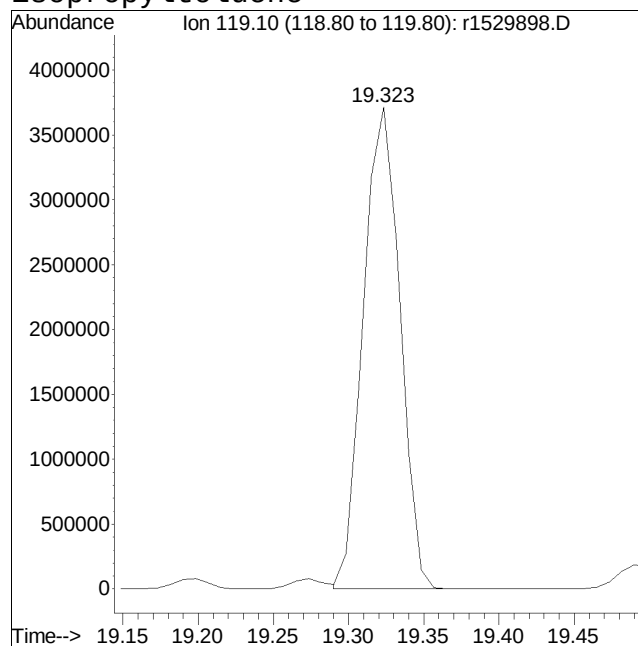
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529898.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:0: 9 Instrument :
Sample : IT015-LLSTD100 Quant Date : 12/22/2021 11:26 am

Compound #106: p-isopropyltoluene



Original Peak Response = 6426508

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 6303617 M6

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529901.D
 Acq On : 22 Dec 2021 2:28 PM
 Operator : AIRLAB15:TS
 Sample : CT015-LLSTD10
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:37:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	91	0.00
2	chlorodifluoromethane	0.703	0.570	18.9	80	0.01
3	propylene	0.397	0.433	-9.1	105	0.01
4	propane	0.599	0.489	18.4	80	0.01
5	dichlorodifluoromethane	0.740	0.696	5.9	90	0.01
6 C	chloromethane	0.369	0.342	7.3	89	0.00
7	Freon-114	0.883	0.830	6.0	88	0.01
8 C	methanol	0.206	0.174	15.5	80	0.01
9 C	vinyl chloride	0.484	0.447	7.6	87	0.01
10 C	1,3-butadiene	0.359	0.334	7.0	89	0.01
11	butane	0.745	0.665	10.7	89	0.01
13 C	bromomethane	0.366	0.331	9.6	85	0.01
14 C	chloroethane	0.239	0.231	3.3	89	0.00
15	ethanol	0.287	0.292	-1.7	83	0.01
16	dichlorofluoromethane	0.835	0.740	11.4	82	0.01
17 C	vinyl bromide	0.327	0.309	5.5	92	0.00
18 C	acrolein	0.197	0.176	10.7	84	0.00
19	acetone	0.571	0.537	6.0	92	0.01
20 C	acetonitrile	0.448	0.413	7.8	90	0.01
21	trichlorofluoromethane	0.709	0.671	5.4	89	0.00
22	isopropyl alcohol	0.617	0.688	-11.5	108	0.01
23 C	acrylonitrile	0.349	0.314	10.0	86	0.00
24	pentane	1.044	1.005	3.7	93	0.00
25	ethyl ether	0.707	0.520	26.4	69	0.01
26 C	1,1-dichloroethene	0.680	0.779	-14.6	106	0.00
27	tertiary butyl alcohol	0.799	1.049	-31.3#	124	0.01
28 C	methylene chloride	0.468	0.561	-19.9	111	0.01
29 C	3-chloropropene	0.606	0.702	-15.8	114	0.00
30 C	carbon disulfide	0.972	1.119	-15.1	106	0.01
31	Freon 113	0.714	0.790	-10.6	105	0.00
32	trans-1,2-dichloroethene	0.768	0.740	3.6	95	0.00
33 C	1,1-dichloroethane	0.895	0.928	-3.7	98	0.00
34 C	MTBE	1.042	1.047	-0.5	96	0.00
35 C	vinyl acetate	0.951	0.882	7.3	89	0.00
36 C	2-butanone	1.020	1.096	-7.5	102	0.00
37	cis-1,2-dichloroethene	0.711	0.736	-3.5	97	0.00
38	Ethyl Acetate	0.185	0.199	-7.6	104	0.00
39 C	chloroform	0.846	0.804	5.0	87	0.00
40	Tetrahydrofuran	0.634	0.680	-7.3	102	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529901.D
 Acq On : 22 Dec 2021 2:28 PM
 Operator : AIRLAB15:TS
 Sample : CT015-LLSTD10
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:37:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.570	0.515	9.6	85	0.00
42 C	1,2-dichloroethane	0.609	0.580	4.8	91	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	95	0.00
44 C	hexane	0.422	0.404	4.3	93	0.00
45	diisopropyl ether	0.188	0.174	7.4	90	0.00
46	tert-butyl ethyl ether	0.708	0.655	7.5	91	0.00
47 s	1,2-dichloroethane-D4	0.290	0.281	3.1	92	0.00
48 C	1,1,1-trichloroethane	0.287	0.286	0.3	95	0.00
49	1,1-dichloropropene	0.287	0.266	7.3	91	0.00
50 C	benzene	0.702	0.618	12.0	90	0.00
52 C	carbon tetrachloride	0.255	0.244	4.3	89	0.00
53	cyclohexane	0.451	0.431	4.4	93	0.00
54	tert-amyl methyl ether	0.524	0.494	5.7	93	0.00
55	dibromomethane	0.220	0.199	9.5	91	0.00
56 C	1,2-dichloropropane	0.262	0.264	-0.8	100	0.00
57	bromodichloromethane	0.363	0.349	3.9	91	0.00
58 C	1,4-dioxane	0.162	0.191	-17.9	114	0.00
59 C	trichloroethene	0.264	0.269	-1.9	98	0.00
60 C	2,2,4-trimethylpentane	1.399	1.333	4.7	94	0.00
61	methyl methacrylate	0.294	0.294	0.0	96	0.00
62	heptane	0.464	0.448	3.4	96	0.00
63 C	cis-1,3-dichloropropene	0.296	0.315	-6.4	98	0.00
64 C	4-methyl-2-pentanone	0.522	0.581	-11.3	108	0.00
65	trans-1,3-dichloropropene	0.273	0.249	8.8	83	0.00
66 C	1,1,2-trichloroethane	0.247	0.253	-2.4	100	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	89	0.00
68 C	toluene	3.724	3.624	2.7	94	0.00
69 s	toluene-D8	4.196	4.451	-6.1	97	0.00
71	1,3-dichloropropane	1.552	1.426	8.1	87	0.00
72	2-hexanone	2.101	2.448	-16.5	107	0.00
74	dibromochloromethane	1.398	1.547	-10.7	98	0.00
75 C	1,2-dibromoethane	1.467	1.523	-3.8	96	0.00
76	butyl acetate	0.372	0.347	6.7	87	0.00
77	octane	1.350	1.275	5.6	86	0.00
78 C	tetrachloroethene	1.292	1.303	-0.9	91	0.00
79	1,1,1,2-tetrachloroethane	1.123	1.129	-0.5	90	0.00
80 C	chlorobenzene	2.518	2.601	-3.3	93	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529901.D
 Acq On : 22 Dec 2021 2:28 PM
 Operator : AIRLAB15:TS
 Sample : CT015-LLSTD10
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:37:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 C	ethylbenzene	4.410	4.741	-7.5	96	0.00
83 C	m+p-xylene	3.583	3.833	-7.0	95	0.00
84 C	bromoform	1.129	1.271	-12.6	97	0.00
85 C	styrene	2.540	2.722	-7.2	96	0.00
86 C	1,1,2,2-tetrachloroethane	2.619	2.721	-3.9	90	0.00
87 C	o-xylene	3.558	3.878	-9.0	95	0.00
88	1,2,3-trichloropropane	1.959	1.852	5.5	89	0.00
89	nonane	3.064	2.902	5.3	87	0.00
90 s	bromofluorobenzene	3.058	3.125	-2.2	92	0.00
91 C	isopropylbenzene	4.289	4.379	-2.1	96	0.00
92	bromobenzene	2.547	2.431	4.6	89	0.00
93	2-chlorotoluene	1.305	1.273	2.5	90	0.00
94	n-propylbenzene	1.506	1.477	1.9	90	0.00
95	4-chlorotoluene	1.307	1.268	3.0	90	0.00
96	4-ethyl toluene	4.509	4.620	-2.5	95	0.00
97	1,3,5-trimethylbenzene	3.823	4.108	-7.5	97	0.00
98	tert-butylbenzene	4.111	4.223	-2.7	90	0.00
99	1,2,4-trimethylbenzene	3.682	4.124	-12.0	98	0.00
100	decane	4.036	4.083	-1.2	90	0.00
101 C	Benzyl Chloride	2.365	2.435	-3.0	91	0.00
102	1,3-dichlorobenzene	2.500	2.653	-6.1	95	0.00
103 C	1,4-dichlorobenzene	2.463	2.646	-7.4	95	0.00
104	sec-butylbenzene	5.441	5.568	-2.3	93	0.00
106	p-isopropyltoluene	4.957	4.912	0.9	87	0.00
107	1,2-dichlorobenzene	2.376	2.557	-7.6	97	0.00
108	n-butylbenzene	4.823	5.283	-9.5	97	0.00
111 C	1,2-dibromo-3-chloropropane	1.002	1.004	-0.2	87	0.00
112	undecane	4.385	4.771	-8.8	92	0.00
114	dodecane	4.281	4.998	-16.7	89	0.00
115 C	1,2,4-trichlorobenzene	1.745	2.167	-24.2	99	0.00
116	naphthalene	5.336	6.365	-19.3	98	0.00
117	1,2,3-trichlorobenzene	1.703	1.996	-17.2	95	0.00
119 C	hexachlorobutadiene	1.450	1.677	-15.7	95	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529901.D
 Acq On : 22 Dec 2021 2:28 PM
 Operator : AIRLAB15:TS
 Sample : CT015-LLSTD10
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:37:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.617	49	321290	10.000	ppbV	0.00
Standard Area = 354329			Recovery =	90.68%		
43) 1,4-difluorobenzene	11.890	114	777019	10.000	ppbV	0.00
Standard Area = 820934			Recovery =	94.65%		
67) chlorobenzene-D5	16.600	54	173480	10.000	ppbV	0.00
Standard Area = 194813			Recovery =	89.05%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.508	65	218641	9.703	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.03%		
69) toluene-D8	14.725	98	772192	10.609	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.09%		
90) bromofluorobenzene	17.933	95	542191	10.221	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.21%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.880	51	183147	8.114	ppbV	99
3) propylene	3.910	41	139255M6	10.905	ppbV	
4) propane	3.940	29	157155	8.161	ppbV	94
5) dichlorodifluoromethane	3.994	85	223592	9.409	ppbV	100
6) chloromethane	4.174	50	109729	9.266	ppbV	100
7) Freon-114	4.306	85	266550	9.401	ppbV	98
8) methanol	4.372	31	279865	42.232	ppbV	100
9) vinyl chloride	4.438	62	143507	9.226	ppbV	99
10) 1,3-butadiene	4.606	54	107251	9.286	ppbV	95
11) butane	4.672	43	213549	8.927	ppbV	99
13) bromomethane	4.924	94	106393	9.050	ppbV	98
14) chloroethane	5.146	64	74320	9.669	ppbV	99
15) ethanol	5.320	31	469812	50.996	ppbV	91
16) dichlorofluoromethane	5.290	67	237824	8.861	ppbV	99
17) vinyl bromide	5.580	106	99348	9.443	ppbV	94
18) acrolein	5.733	56	56397	8.915	ppbV	98
19) acetone	5.893	43	861893	46.954	ppbV	95
20) acetonitrile	5.577	41	132768	9.215	ppbV	99
21) trichlorofluoromethane	6.107	101	215742	9.465	ppbV	96
22) isopropyl alcohol	6.223	45	552305	27.842	ppbV	99
23) acrylonitrile	6.483	53	100822	8.987	ppbV	97
24) pentane	6.560	43	322812	9.625	ppbV	98
25) ethyl ether	6.600	31	167132	7.355	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529901.D
 Acq On : 22 Dec 2021 2:28 PM
 Operator : AIRLAB15:TS
 Sample : CT015-LLSTD10
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:37:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	6.882	61	250206	11.444	ppbV	100
27) tertiary butyl alcohol	6.954	59	336907M6	13.130	ppbV	
28) methylene chloride	7.056	49	180154	11.969	ppbV	96
29) 3-chloropropene	7.194	41	225674	11.599	ppbV	99
30) carbon disulfide	7.350	76	359420	11.510	ppbV	97
31) Freon 113	7.386	101	253800	11.056	ppbV	94
32) trans-1,2-dichloroethene	8.192	61	237844	9.641	ppbV	99
33) 1,1-dichloroethane	8.425	63	298288	10.377	ppbV	99
34) MTBE	8.508	73	336440	10.047	ppbV	99
35) vinyl acetate	8.650	43	283487	9.275	ppbV	100
36) 2-butanone	8.908	43	352076	10.743	ppbV	99
37) cis-1,2-dichloroethene	9.425	61	236409	10.345	ppbV	98
38) Ethyl Acetate	9.725	61	63947	10.767	ppbV	97
39) chloroform	9.783	83	258365	9.504	ppbV	98
40) Tetrahydrofuran	10.225	42	218517	10.727	ppbV	98
41) 2,2-dichloropropane	9.800	77	165549	9.038	ppbV	96
42) 1,2-dichloroethane	10.633	62	186192	9.523	ppbV	97
44) hexane	9.692	57	314141	9.585	ppbV	91
45) diisopropyl ether	9.700	87	135184	9.252	ppbV	97
46) tert-butyl ethyl ether	10.325	59	508813	9.250	ppbV	98
48) 1,1,1-trichloroethane	10.923	97	222586	9.967	ppbV	98
49) 1,1-dichloropropene	11.297	75	206879	9.287	ppbV	97
50) benzene	11.457	78	480318	8.804	ppbV	99
52) carbon tetrachloride	11.630	117	189686	9.591	ppbV	99
53) cyclohexane	11.777	56	334953	9.548	ppbV	99
54) tert-amyl methyl ether	12.157	73	384096	9.432	ppbV	99
55) dibromomethane	12.377	93	154701	9.038	ppbV	99
56) 1,2-dichloropropane	12.410	63	205448	10.102	ppbV	97
57) bromodichloromethane	12.643	83	271183	9.625	ppbV	98
58) 1,4-dioxane	12.677	88	148306	11.768	ppbV	97
59) trichloroethene	12.690	130	208961	10.178	ppbV	98
60) 2,2,4-trimethylpentane	12.743	57	1035557M6	9.526	ppbV	
61) methyl methacrylate	12.943	41	228190	9.996	ppbV	97
62) heptane	13.063	43	348027	9.661	ppbV	100
63) cis-1,3-dichloropropene	13.708	75	245113	10.653	ppbV	98
64) 4-methyl-2-pentanone	13.742	43	451414	11.135	ppbV	99
65) trans-1,3-dichloropropene	14.325	75	193558	9.141	ppbV	99
66) 1,1,2-trichloroethane	14.525	97	196900	10.270	ppbV	93
68) toluene	14.842	91	628759	9.733	ppbV	99
71) 1,3-dichloropropane	14.867	76	247367	9.188	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529901.D
 Acq On : 22 Dec 2021 2:28 PM
 Operator : AIRLAB15:TS
 Sample : CT015-LLSTD10
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:37:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	15.117	43	424747	11.652	ppbV	97
74) dibromochloromethane	15.283	129	268299	11.062	ppbV	99
75) 1,2-dibromoethane	15.533	107	264136	10.379	ppbV	99
76) butyl acetate	15.767	73	60147	9.315	ppbV	96
77) octane	15.867	85	221271	9.449	ppbV	95
78) tetrachloroethene	15.992	166	226123	10.089	ppbV	96
79) 1,1,1,2-tetrachloroethane	16.625	131	195777	10.053	ppbV	98
80) chlorobenzene	16.633	112	451227	10.328	ppbV	97
81) ethylbenzene	16.975	91	822495	10.752	ppbV	100
83) m+p-xylene	17.142	91	1329837	21.392	ppbV	97
84) bromoform	17.200	173	220532	11.263	ppbV	99
85) styrene	17.450	104	472202	10.714	ppbV	97
86) 1,1,2,2-tetrachloroethane	17.542	83	472008	10.387	ppbV	99
87) o-xylene	17.550	91	672793	10.900	ppbV	99
88) 1,2,3-trichloropropane	17.658	75	321237	9.454	ppbV	99
89) nonane	17.733	43	503418	9.472	ppbV	100
91) isopropylbenzene	18.042	105	759705	10.211	ppbV	97
92) bromobenzene	18.125	77	421769	9.545	ppbV	96
93) 2-chlorotoluene	18.442	126	220846	9.755	ppbV	94
94) n-propylbenzene	18.467	120	256263	9.808	ppbV	98
95) 4-chlorotoluene	18.500	126	219909	9.700	ppbV	90
96) 4-ethyl toluene	18.583	105	801486	10.246	ppbV	97
97) 1,3,5-trimethylbenzene	18.650	105	712706	10.746	ppbV	97
98) tert-butylbenzene	18.973	119	732587	10.272	ppbV	98
99) 1,2,4-trimethylbenzene	18.973	105	715471	11.201	ppbV	95
100) decane	19.048	57	708309	10.117	ppbV	100
101) Benzyl Chloride	19.090	91	422430	10.296	ppbV	99
102) 1,3-dichlorobenzene	19.107	146	460264	10.612	ppbV	97
103) 1,4-dichlorobenzene	19.157	146	459095	10.745	ppbV	98
104) sec-butylbenzene	19.190	105	965957	10.234	ppbV	98
106) p-isopropyltoluene	19.315	119	852075	9.909	ppbV	96
107) 1,2-dichlorobenzene	19.432	146	443658	10.763	ppbV	98
108) n-butylbenzene	19.657	91	916413	10.954	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.798	75	174098	10.015	ppbV	98
112) undecane	20.057	57	827741	10.882	ppbV	99
114) dodecane	20.967	57	867098	11.677	ppbV	97
115) 1,2,4-trichlorobenzene	20.917	180	375909	12.417	ppbV	95
116) naphthalene	21.033	128	1104146	11.927	ppbV	100
117) 1,2,3-trichlorobenzene	21.283	180	346285	11.724	ppbV	96
119) hexachlorobutadiene	21.350	225	290853	11.559	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\
 Data File : r1529901.D
 Acq On : 22 Dec 2021 2:28 PM
 Operator : AIRLAB15:TS
 Sample : CT015-LLSTD10
 Misc : WG1587794
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 16:37:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

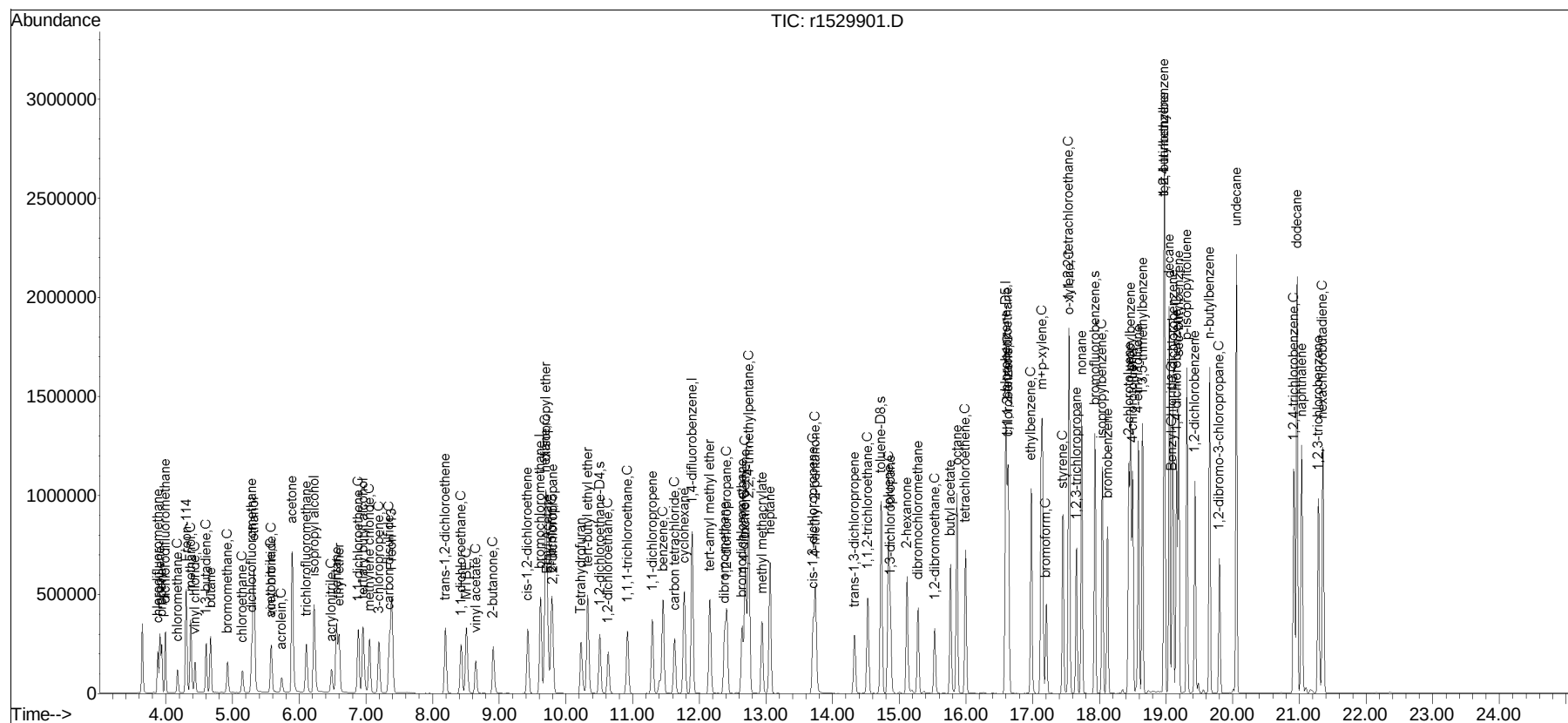
CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222T_I\r1529895.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

```
Data Path : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\
Data File : r1529901.D
Acq On    : 22 Dec 2021    2:28 PM
Operator  : AIRLAB15:TS
Sample    : CT015-LLSTD10
Misc      : WG1587794
ALS Vial  : 0    Sample Multiplier: 1
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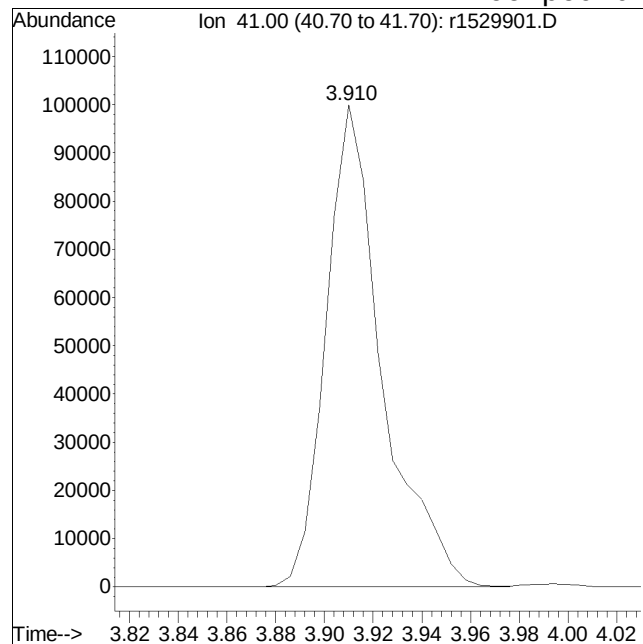
Quant Time: Dec 22 16:37:02 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222T_I\TFS15_211222.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 16:29:20 2021
Response via : Initial Calibration



Manual Integration Report

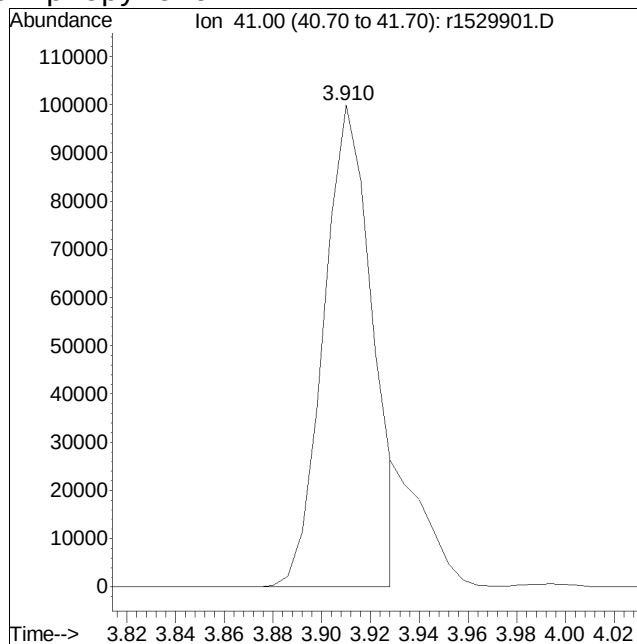
Data Path : 0:\Forensics\Data\AirLab15QMethod : TFS15_211222.M
Data File : r1529901.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:2: 8 Instrument :
Sample : CT015-LLSTD10 Quant Date : 12/22/2021 4:32 pm

Compound #3: propylene



Original Peak Response = 160023

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

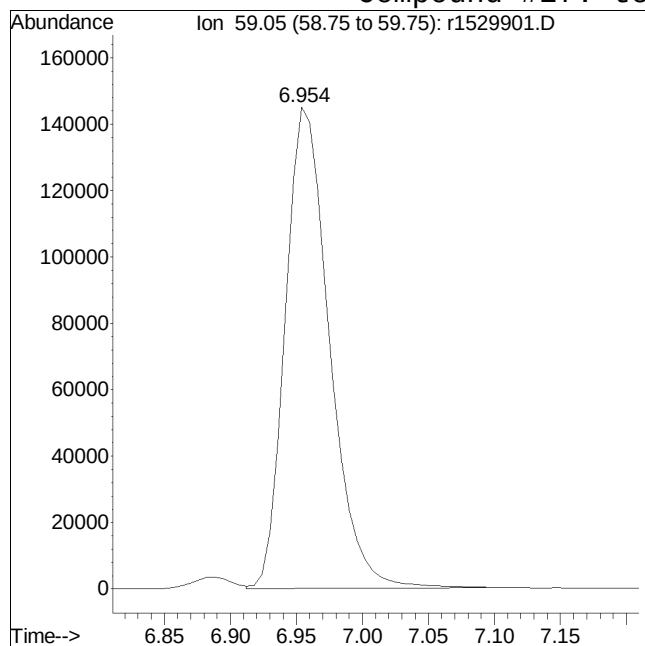


Manual Peak Response = 139255 M6

Manual Integration Report

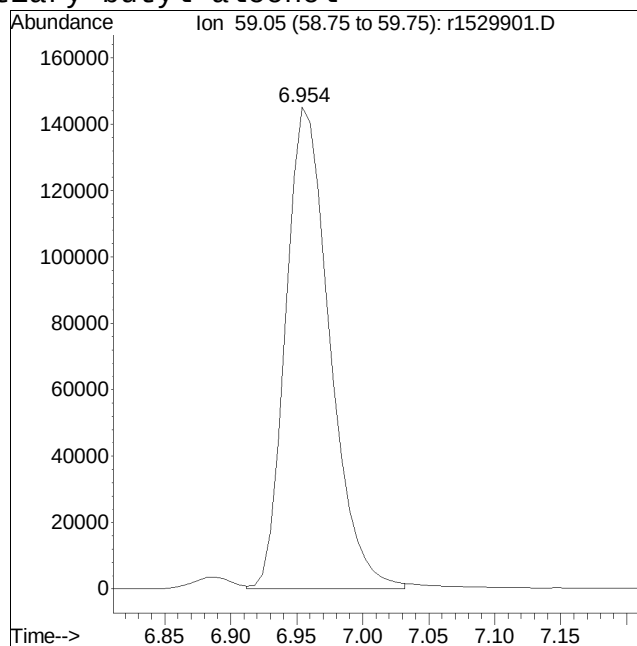
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529901.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:2: 8 Instrument :
Sample : CT015-LLSTD10 Quant Date : 12/22/2021 4:32 pm

Compound #27: tertiary butyl alcohol



Original Peak Response = 337506

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

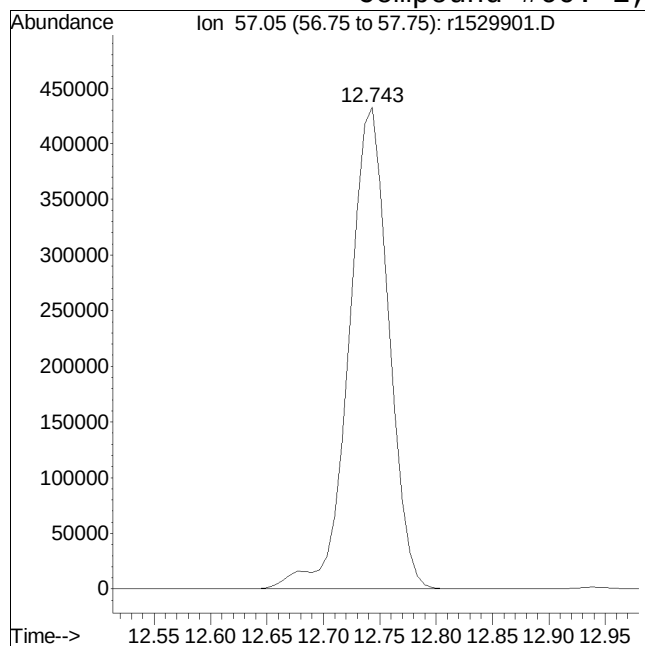


Manual Peak Response = 336907 M6

Manual Integration Report

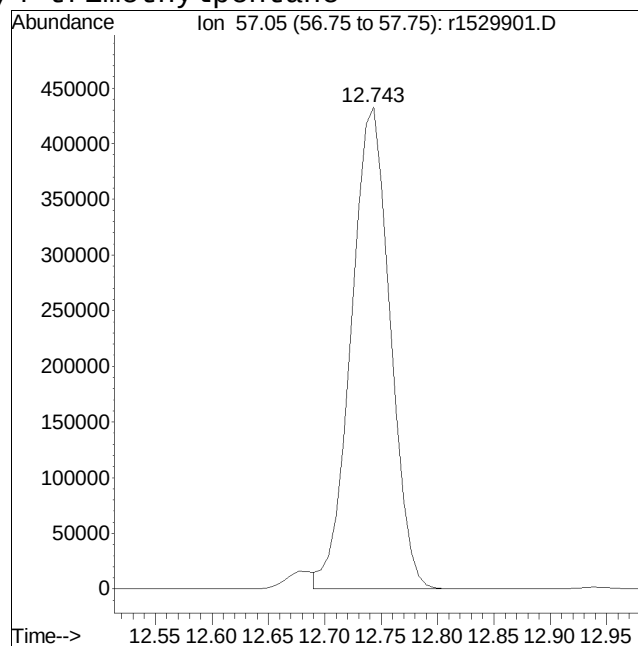
Data Path : 0:\Forensics\Data\Airlab15QMethod : TFS15_211222.M
Data File : r1529901.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:2: 8 Instrument :
Sample : CT015-LLSTD10 Quant Date : 12/22/2021 4:32 pm

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 1063936

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 1035557 M6

Continuing Calibration

Calibration Verification Summary

Form 7

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2213657
Project Name : FORMER CLEAN ZONE DRY CLEANERS	Project Number : 2546.0007Y002
Instrument ID : AIRLAB15	Calibration Date : 03/20/22 13:18
Lab File ID : R1531778	Init. Calib. Date(s) : 12/22/21 12/22/21
Sample No : WG1617728-2	Init. Calib. Times : 06:12 10:49
Channel :	

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	108	-.03
chlorodifluoromethane	0.703	0.571	-	18.8	30	95	-.02
propylene	0.397	0.345	-	13.1	30	99	-.02
propane	0.599	0.526	-	12.2	30	102	-.02
dichlorodifluoromethane	0.74	0.58	-	21.6	30	89	-.02
chloromethane	0.369	0.298	-	19.2	30	92	-.02
Freon-114	0.883	0.717	-	18.8	30	91	-.02
methanol	0.206	0.186	-	9.7	30	102	-.02
vinyl chloride	0.484	0.395	-	18.4	30	91	-.02
1,3-butadiene	0.359	0.328	-	8.6	30	105	-.02
butane	0.745	0.658	-	11.7	30	105	-.02
bromomethane	0.366	0.283	-	22.7	30	86	-.02
chloroethane	0.239	0.202	-	15.5	30	93	-.02
ethanol	0.287	0.336	-	-17.1	30	114	-.02
dichlorofluoromethane	0.835	0.756	-	9.5	30	100	-.02
vinyl bromide	0.327	0.304	-	7	30	107	-.02
acrolein	0.197	0.172	-	12.7	30	98	-.02
acetone	0.571	0.595	-	-4.2	30	121	-.02
acetonitrile	0.448	0.414	-	7.6	30	107	-.02
trichlorofluoromethane	0.709	0.592	-	16.5	30	94	-.02
isopropyl alcohol	0.617	0.614	-	0.5	30	115	-.02
acrylonitrile	0.349	0.315	-	9.7	30	102	-.03
pentane	1.044	0.958	-	8.2	30	106	-.03
ethyl ether	0.707	1.023	-	-44.7*	30	162	-.03
1,1-dichloroethene	0.68	0.587	-	13.7	30	95	-.03
tertiary butyl alcohol	0.799	0.714	-	10.6	30	100	-.02
methylene chloride	0.468	0.453	-	3.2	30	107	-.02
3-chloropropene	0.606	0.663	-	-9.4	30	128	-.03
carbon disulfide	0.972	1.133	-	-16.6	30	128	-.02
Freon 113	0.714	0.688	-	3.6	30	108	-.03
trans-1,2-dichloroethene	0.768	0.674	-	12.2	30	103	-.03
1,1-dichloroethane	0.895	0.77	-	14	30	96	-.02
MTBE	1.042	0.888	-	14.8	30	97	-.03
vinyl acetate	0.951	0.842	-	11.5	30	101	-.03
2-butanone	1.02	0.939	-	7.9	30	104	-.03
cis-1,2-dichloroethene	0.711	0.59	-	17	30	93	-.02
Ethyl Acetate	0.185	0.185	-	0	30	115	-.03
chloroform	0.846	0.709	-	16.2	30	91	-.03
Tetrahydrofuran	0.634	0.555	-	12.5	30	99	-.03
2,2-dichloropropane	0.57	0.53	-	7	30	103	-.03
1,2-dichloroethane	0.609	0.502	-	17.6	30	94	-.03
1,4-difluorobenzene	1	1	-	0	30	105	-.02
hexane	0.422	0.419	-	0.7	30	107	-.03

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2213657
Project Name : FORMER CLEAN ZONE DRY CLEANERS	Project Number : 2546.0007Y002
Instrument ID : AIRLAB15	Calibration Date : 03/20/22 13:18
Lab File ID : R1531778	Init. Calib. Date(s) : 12/22/21 12/22/21
Sample No : WG1617728-2	Init. Calib. Times : 06:12 10:49
Channel :	

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.188	0.17	-	9.6	30	98	-.03
tert-butyl ethyl ether	0.708	0.608	-	14.1	30	94	-.03
1,1,1-trichloroethane	0.287	0.262	-	8.7	30	96	-.03
1,1-dichloropropene	0.287	0.264	-	8	30	100	-.03
benzene	0.702	0.571	-	18.7	30	92	-.03
carbon tetrachloride	0.255	0.228	-	10.6	30	92	-.03
cyclohexane	0.451	0.437	-	3.1	30	105	-.03
tert-amyl methyl ether	0.524	0.429	-	18.1	30	89	-.03
dibromomethane	0.22	0.203	-	7.7	30	102	-.02
1,2-dichloropropane	0.262	0.235	-	10.3	30	98	-.02
bromodichloromethane	0.363	0.368	-	-1.4	30	106	-.03
1,4-dioxane	0.162	0.158	-	2.5	30	104	-.03
trichloroethene	0.264	0.233	-	11.7	30	93	-.02
2,2,4-trimethylpentane	1.399	1.427	-	-2	30	111	-.03
methyl methacrylate	0.294	0.287	-	2.4	30	104	-.03
heptane	0.464	0.462	-	0.4	30	109	-.03
cis-1,3-dichloropropene	0.296	0.266	-	10.1	30	91	-.02
4-methyl-2-pentanone	0.522	0.522	-	0	30	107	-.03
trans-1,3-dichloropropene	0.273	0.212	-	22.3	30	78	-.02
1,1,2-trichloroethane	0.247	0.226	-	8.5	30	99	-.03
chlorobenzene-D5	1	1	-	0	30	103	-.02
toluene	3.724	3.038	-	18.4	30	91	-.03
1,3-dichloropropane	1.552	1.424	-	8.2	30	101	-.02
2-hexanone	2.101	2.035	-	3.1	30	103	-.02
dibromochloromethane	1.398	1.511	-	-8.1	30	110	-.02
1,2-dibromoethane	1.467	1.303	-	11.2	30	95	-.02
butyl acetate	0.372	0.322	-	13.4	30	93	-.02
octane	1.35	1.206	-	10.7	30	94	-.02
tetrachloroethene	1.292	1.098	-	15	30	89	-.02
1,1,1,2-tetrachloroethane	1.123	1.079	-	3.9	30	100	-.02
chlorobenzene	2.518	2.165	-	14	30	90	-.02
ethylbenzene	4.41	3.843	-	12.9	30	90	-.02
m+p-xylene	3.583	3.161	-	11.8	30	91	-.02
bromoform	1.129	1.236	-	-9.5	30	109	-.02
styrene	2.54	2.203	-	13.3	30	90	-.02
1,1,2,2-tetrachloroethane	2.619	2.359	-	9.9	30	91	-.02
o-xylene	3.558	3.247	-	8.7	30	92	-.02
1,2,3-trichloropropane	1.959	1.806	-	7.8	30	100	-.02
nonane	3.064	2.857	-	6.8	30	100	-.02
isopropylbenzene	4.289	4.179	-	2.6	30	106	0
bromobenzene	2.547	2.324	-	8.8	30	99	0
2-chlorotoluene	1.305	1.181	-	9.5	30	97	-.02
n-propylbenzene	1.506	1.377	-	8.6	30	97	-.02

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Calibration Date	: 03/20/22 13:18
Lab File ID	: R1531778	Init. Calib. Date(s)	: 12/22/21 12/22/21
Sample No	: WG1617728-2	Init. Calib. Times	: 06:12 10:49
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	1.307	1.162	-	11.1	30	96	-.02
4-ethyl toluene	4.509	4.34	-	3.7	30	104	0
1,3,5-trimethylbenzene	3.823	3.418	-	10.6	30	94	0
tert-butylbenzene	4.111	3.89	-	5.4	30	96	0
1,2,4-trimethylbenzene	3.682	3.49	-	5.2	30	96	0
decane	4.036	4.017	-	0.5	30	102	0
Benzyl Chloride	2.365	2.66	-	-12.5	30	115	0
1,3-dichlorobenzene	2.5	2.241	-	10.4	30	92	-.02
1,4-dichlorobenzene	2.463	2.241	-	9	30	93	0
sec-butylbenzene	5.441	5.325	-	2.1	30	103	-.02
p-isopropyltoluene	4.957	4.319	-	12.9	30	88	-.02
1,2-dichlorobenzene	2.376	2.123	-	10.6	30	93	0
n-butylbenzene	4.823	4.763	-	1.2	30	101	0
1,2-dibromo-3-chloropropan	1.002	1.011	-	-0.9	30	102	0
undecane	4.385	4.47	-	-1.9	30	100	0
dodecane	4.281	4.539	-	-6	30	93	0
1,2,4-trichlorobenzene	1.745	1.516	-	13.1	30	80	0
naphthalene	5.336	5.208	-	2.4	30	93	0
1,2,3-trichlorobenzene	1.703	1.649	-	3.2	30	91	0
hexachlorobutadiene	1.45	1.24	-	14.5	30	81	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531778.D
 Acq On : 20 Mar 2022 1:18 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-2,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:00:24 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	108	-0.03
2	chlorodifluoromethane	0.703	0.571	18.8	95	-0.02
3	propylene	0.397	0.345	13.1	99	-0.02
4	propane	0.599	0.526	12.2	102	-0.02
5	dichlorodifluoromethane	0.740	0.580	21.6	89	-0.02
6 C	chloromethane	0.369	0.298	19.2	92	-0.02
7	Freon-114	0.883	0.717	18.8	91	-0.02
8 C	methanol	0.206	0.186	9.7	102	-0.02
9 C	vinyl chloride	0.484	0.395	18.4	91	-0.02
10 C	1,3-butadiene	0.359	0.328	8.6	105	-0.02
11	butane	0.745	0.658	11.7	105	-0.02
13 C	bromomethane	0.366	0.283	22.7	86	-0.02
14 C	chloroethane	0.239	0.202	15.5	93	-0.02
15	ethanol	0.287	0.336	-17.1	114	-0.02
16	dichlorofluoromethane	0.835	0.756	9.5	100	-0.02
17 C	vinyl bromide	0.327	0.304	7.0	107	-0.02
18 C	acrolein	0.197	0.172	12.7	98	-0.02
19	acetone	0.571	0.595	-4.2	121	-0.02
20 C	acetonitrile	0.448	0.414	7.6	107	-0.02
21	trichlorofluoromethane	0.709	0.592	16.5	94	-0.02
22	isopropyl alcohol	0.617	0.614	0.5	115	-0.02
23 C	acrylonitrile	0.349	0.315	9.7	102	-0.03
24	pentane	1.044	0.958	8.2	106	-0.03
25	ethyl ether	0.707	1.023	-44.7#	162#	-0.03
26 C	1,1-dichloroethene	0.680	0.587	13.7	95	-0.03
27	tertiary butyl alcohol	0.799	0.714	10.6	100	-0.02
28 C	methylene chloride	0.468	0.453	3.2	107	-0.02
29 C	3-chloropropene	0.606	0.663	-9.4	128	-0.03
30 C	carbon disulfide	0.972	1.133	-16.6	128	-0.02
31	Freon 113	0.714	0.688	3.6	108	-0.03
32	trans-1,2-dichloroethene	0.768	0.674	12.2	103	-0.03
33 C	1,1-dichloroethane	0.895	0.770	14.0	96	-0.02
34 C	MTBE	1.042	0.888	14.8	97	-0.03
35 C	vinyl acetate	0.951	0.842	11.5	101	-0.03
36 C	2-butanone	1.020	0.939	7.9	104	-0.03
37	cis-1,2-dichloroethene	0.711	0.590	17.0	93	-0.02
38	Ethyl Acetate	0.185	0.185	0.0	115	-0.03
39 C	chloroform	0.846	0.709	16.2	91	-0.03
40	Tetrahydrofuran	0.634	0.555	12.5	99	-0.03

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531778.D
 Acq On : 20 Mar 2022 1:18 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-2,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:00:24 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.570	0.530	7.0	103	-0.03
42 C	1,2-dichloroethane	0.609	0.502	17.6	94	-0.03
43 I	1,4-difluorobenzene	1.000	1.000	0.0	105	-0.02
44 C	hexane	0.422	0.419	0.7	107	-0.03
45	diisopropyl ether	0.188	0.170	9.6	98	-0.03
46	tert-butyl ethyl ether	0.708	0.608	14.1	94	-0.03
48 C	1,1,1-trichloroethane	0.287	0.262	8.7	96	-0.03
49	1,1-dichloropropene	0.287	0.264	8.0	100	-0.03
50 C	benzene	0.702	0.571	18.7	92	-0.03
52 C	carbon tetrachloride	0.255	0.228	10.6	92	-0.03
53	cyclohexane	0.451	0.437	3.1	105	-0.03
54	tert-amyl methyl ether	0.524	0.429	18.1	89	-0.03
55	dibromomethane	0.220	0.203	7.7	102	-0.02
56 C	1,2-dichloropropane	0.262	0.235	10.3	98	-0.02
57	bromodichloromethane	0.363	0.368	-1.4	106	-0.03
58 C	1,4-dioxane	0.162	0.158	2.5	104	-0.03
59 C	trichloroethene	0.264	0.233	11.7	93	-0.02
60 C	2,2,4-trimethylpentane	1.399	1.427	-2.0	111	-0.03
61	methyl methacrylate	0.294	0.287	2.4	104	-0.03
62	heptane	0.464	0.462	0.4	109	-0.03
63 C	cis-1,3-dichloropropene	0.296	0.266	10.1	91	-0.02
64 C	4-methyl-2-pentanone	0.522	0.522	0.0	107	-0.03
65	trans-1,3-dichloropropene	0.273	0.212	22.3	78	-0.02
66 C	1,1,2-trichloroethane	0.247	0.226	8.5	99	-0.03
67 I	chlorobenzene-D5	1.000	1.000	0.0	103	-0.02
68 C	toluene	3.724	3.038	18.4	91	-0.03
71	1,3-dichloropropane	1.552	1.424	8.2	101	-0.02
72	2-hexanone	2.101	2.035	3.1	103	-0.02
74	dibromochloromethane	1.398	1.511	-8.1	110	-0.02
75 C	1,2-dibromoethane	1.467	1.303	11.2	95	-0.02
76	butyl acetate	0.372	0.322	13.4	93	-0.02
77	octane	1.350	1.206	10.7	94	-0.02
78 C	tetrachloroethene	1.292	1.098	15.0	89	-0.02
79	1,1,1,2-tetrachloroethane	1.123	1.079	3.9	100	-0.02
80 C	chlorobenzene	2.518	2.165	14.0	90	-0.02
81 C	ethylbenzene	4.410	3.843	12.9	90	-0.02
83 C	m+p-xylene	3.583	3.161	11.8	91	-0.02

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531778.D
 Acq On : 20 Mar 2022 1:18 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-2,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:00:24 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84 C	bromoform	1.129	1.236	-9.5	109	-0.02
85 C	styrene	2.540	2.203	13.3	90	-0.02
86 C	1,1,2,2-tetrachloroethane	2.619	2.359	9.9	91	-0.02
87 C	o-xylene	3.558	3.247	8.7	92	-0.02
88	1,2,3-trichloropropane	1.959	1.806	7.8	100	-0.02
89	nonane	3.064	2.857	6.8	100	-0.02
91 C	isopropylbenzene	4.289	4.179	2.6	106	0.00
92	bromobenzene	2.547	2.324	8.8	99	0.00
93	2-chlorotoluene	1.305	1.181	9.5	97	-0.02
94	n-propylbenzene	1.506	1.377	8.6	97	-0.02
95	4-chlorotoluene	1.307	1.162	11.1	96	-0.02
96	4-ethyl toluene	4.509	4.340	3.7	104	0.00
97	1,3,5-trimethylbenzene	3.823	3.418	10.6	94	0.00
98	tert-butylbenzene	4.111	3.890	5.4	96	0.00
99	1,2,4-trimethylbenzene	3.682	3.490	5.2	96	0.00
100	decane	4.036	4.017	0.5	102	0.00
101 C	Benzyl Chloride	2.365	2.660	-12.5	115	0.00
102	1,3-dichlorobenzene	2.500	2.241	10.4	92	-0.02
103 C	1,4-dichlorobenzene	2.463	2.241	9.0	93	0.00
104	sec-butylbenzene	5.441	5.325	2.1	103	-0.02
106	p-isopropyltoluene	4.957	4.319	12.9	88	-0.02
107	1,2-dichlorobenzene	2.376	2.123	10.6	93	0.00
108	n-butylbenzene	4.823	4.763	1.2	101	0.00
111 C	1,2-dibromo-3-chloropropane	1.002	1.011	-0.9	102	0.00
112	undecane	4.385	4.470	-1.9	100	0.00
114	dodecane	4.281	4.539	-6.0	93	0.00
115 C	1,2,4-trichlorobenzene	1.745	1.516	13.1	80	0.00
116	naphthalene	5.336	5.208	2.4	93	0.00
117	1,2,3-trichlorobenzene	1.703	1.649	3.2	91	0.00
119 C	hexachlorobutadiene	1.450	1.240	14.5	81	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531778.D
 Acq On : 20 Mar 2022 1:18 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-2,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:00:24 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.58	49	382239	10.000	ppbV	-0.03
Standard Area = 382239			Recovery	=	100.00%	
43) 1,4-difluorobenzene	11.86	114	859136	10.000	ppbV	-0.02
Standard Area = 859136			Recovery	=	100.00%	
67) chlorobenzene-D5	16.57	54	200634	10.000	ppbV	-0.02
Standard Area = 200634			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) chlorodifluoromethane	3.85	51	218338	8.131	ppbV	100
3) propylene	3.88	41	131970M6	8.687	ppbV	
4) propane	3.91	29	201078	8.777	ppbV	99
5) dichlorodifluoromethane	3.96	85	221742	7.843	ppbV	99
6) chloromethane	4.14	50	113847	8.081	ppbV	99
7) Freon-114	4.28	85	273976	8.122	ppbV	97
8) methanol	4.34	31	355266	45.062	ppbV	99
9) vinyl chloride	4.41	62	150807	8.149	ppbV	100
10) 1,3-butadiene	4.58	54	125316	9.120	ppbV	91
11) butane	4.64	43	251482	8.836	ppbV	98
13) bromomethane	4.89	94	108262	7.740	ppbV	99
14) chloroethane	5.12	64	77243	8.447	ppbV	99
15) ethanol	5.28	31	642221	58.595	ppbV	98
16) dichlorofluoromethane	5.25	67	288821	9.045	ppbV	99
17) vinyl bromide	5.55	106	116069	9.274	ppbV	96
18) acrolein	5.70	56	65798	8.743	ppbV	94
19) acetone	5.86	43	1137940	52.107	ppbV	94
20) acetonitrile	5.54	41	158118	9.224	ppbV	96
21) trichlorofluoromethane	6.07	101	226228	8.342	ppbV	97
22) isopropyl alcohol	6.19	45	586568	24.854	ppbV	99
23) acrylonitrile	6.45	53	120371	9.019	ppbV	99
24) pentane	6.52	43	366371	9.182	ppbV	98
25) ethyl ether	6.56	31	391024	14.464	ppbV	95
26) 1,1-dichloroethene	6.85	61	224415	8.628	ppbV	98
27) tertiary butyl alcohol	6.92	59	272923	8.941	ppbV #	89
28) methylene chloride	7.02	49	173067	9.665	ppbV	98
29) 3-chloropropene	7.16	41	253320	10.944	ppbV	99
30) carbon disulfide	7.31	76	433001	11.656	ppbV	99
31) Freon 113	7.35	101	263159	9.636	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531778.D
 Acq On : 20 Mar 2022 1:18 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-2,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:00:24 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) trans-1,2-dichloroethene	8.16	61	257745	8.782	ppbV	99
33) 1,1-dichloroethane	8.39	63	294227	8.603	ppbV	100
34) MTBE	8.47	73	339490	8.522	ppbV	99
35) vinyl acetate	8.61	43	321918	8.853	ppbV	100
36) 2-butanone	8.88	43	358733	9.201	ppbV	99
37) cis-1,2-dichloroethene	9.39	61	225336	8.288	ppbV	100
38) Ethyl Acetate	9.69	61	70648	9.999	ppbV	94
39) chloroform	9.75	83	270822	8.373	ppbV	98
40) Tetrahydrofuran	10.19	42	212138	8.754	ppbV	98
41) 2,2-dichloropropane	9.76	77	202396	9.288	ppbV	99
42) 1,2-dichloroethane	10.60	62	192043	8.256	ppbV	99
44) hexane	9.66	57	360206	9.940	ppbV	95
45) diisopropyl ether	9.67	87	146442	9.065	ppbV	91
46) tert-butyl ethyl ether	10.29	59	522111	8.584	ppbV	97
48) 1,1,1-trichloroethane	10.89	97	224778	9.103	ppbV	98
49) 1,1-dichloropropene	11.26	75	226570	9.198	ppbV	97
50) benzene	11.42	78	490838	8.137	ppbV	99
52) carbon tetrachloride	11.60	117	195941	8.960	ppbV	100
53) cyclohexane	11.74	56	375801	9.689	ppbV	98
54) tert-amyl methyl ether	12.13	73	368416	8.182	ppbV	98
55) dibromomethane	12.35	93	174054	9.197	ppbV	95
56) 1,2-dichloropropane	12.38	63	201586	8.965	ppbV	99
57) bromodichloromethane	12.61	83	315957	10.142	ppbV	100
58) 1,4-dioxane	12.65	88	135436	9.719	ppbV	97
59) trichloroethene	12.66	130	200079	8.814	ppbV	95
60) 2,2,4-trimethylpentane	12.71	57	1225946	10.200	ppbV	99
61) methyl methacrylate	12.91	41	246350	9.761	ppbV	99
62) heptane	13.03	43	396751	9.960	ppbV	99
63) cis-1,3-dichloropropene	13.68	75	228456	8.980	ppbV	97
64) 4-methyl-2-pentanone	13.72	43	448679	10.009	ppbV	99
65) trans-1,3-dichloropropene	14.30	75	181954	7.771	ppbV	97
66) 1,1,2-trichloroethane	14.50	97	193890	9.146	ppbV	96
68) toluene	14.81	91	609621	8.159	ppbV	99
71) 1,3-dichloropropane	14.84	76	285769	9.178	ppbV	97
72) 2-hexanone	15.09	43	408384	9.687	ppbV	96
74) dibromochloromethane	15.26	129	303200	10.809	ppbV	97
75) 1,2-dibromoethane	15.51	107	261464	8.883	ppbV	97
76) butyl acetate	15.75	73	64607	8.651	ppbV	93
77) octane	15.84	85	242033	8.937	ppbV	90
78) tetrachloroethene	15.98	166	220329	8.500	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531778.D
 Acq On : 20 Mar 2022 1:18 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-2,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:00:24 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : Default-LCS-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	1,1,1,2-tetrachloroethane	16.60	131	216391	9.608	ppbV	97
80)	chlorobenzene	16.62	112	434345	8.596	ppbV	100
81)	ethylbenzene	16.96	91	771122	8.716	ppbV	98
83)	m+p-xylene	17.13	91	1268438	17.643	ppbV	95
84)	bromoform	17.18	173	248065	10.954	ppbV	96
85)	styrene	17.43	104	441941	8.671	ppbV	98
86)	1,1,2,2-tetrachloroethane	17.52	83	473341	9.007	ppbV	99
87)	o-xylene	17.52	91	651431	9.126	ppbV	99
88)	1,2,3-trichloropropane	17.64	75	362436	9.222	ppbV	98
89)	nonane	17.72	43	573116	9.324	ppbV	100
91)	isopropylbenzene	18.03	105	838539	9.745	ppbV	95
92)	bromobenzene	18.11	77	466349	9.126	ppbV	98
93)	2-chlorotoluene	18.43	126	236986	9.051	ppbV	91
94)	n-propylbenzene	18.45	120	276290	9.143	ppbV	94
95)	4-chlorotoluene	18.48	126	233225	8.895	ppbV	95
96)	4-ethyl toluene	18.57	105	870790	9.625	ppbV	96
97)	1,3,5-trimethylbenzene	18.63	105	685812	8.941	ppbV	98
98)	tert-butylbenzene	18.97	119	780384	9.461	ppbV	100
99)	1,2,4-trimethylbenzene	18.97	105	700302	9.480	ppbV	94
100)	decane	19.04	57	806020	9.954	ppbV	99
101)	Benzyl Chloride	19.08	91	533611	11.246	ppbV	99
102)	1,3-dichlorobenzene	19.09	146	449576	8.962	ppbV	97
103)	1,4-dichlorobenzene	19.15	146	449641	9.099	ppbV	98
104)	sec-butylbenzene	19.17	105	1068378	9.787	ppbV	100
106)	p-isopropyltoluene	19.30	119	866509	8.713	ppbV	96
107)	1,2-dichlorobenzene	19.42	146	426028	8.937	ppbV	98
108)	n-butylbenzene	19.64	91	955539	9.876	ppbV	98
111)	1,2-dibromo-3-chloropr...	19.79	75	202910	10.092	ppbV	96
112)	undecane	20.05	57	896839	10.195	ppbV	99
114)	dodecane	20.95	57	910663	10.604	ppbV	98
115)	1,2,4-trichlorobenzene	20.91	180	304188	8.688	ppbV	97
116)	naphthalene	21.02	128	1044840	9.759	ppbV	98
117)	1,2,3-trichlorobenzene	21.27	180	330893	9.687	ppbV	99
119)	hexachlorobutadiene	21.34	225	248788	8.549	ppbV	98

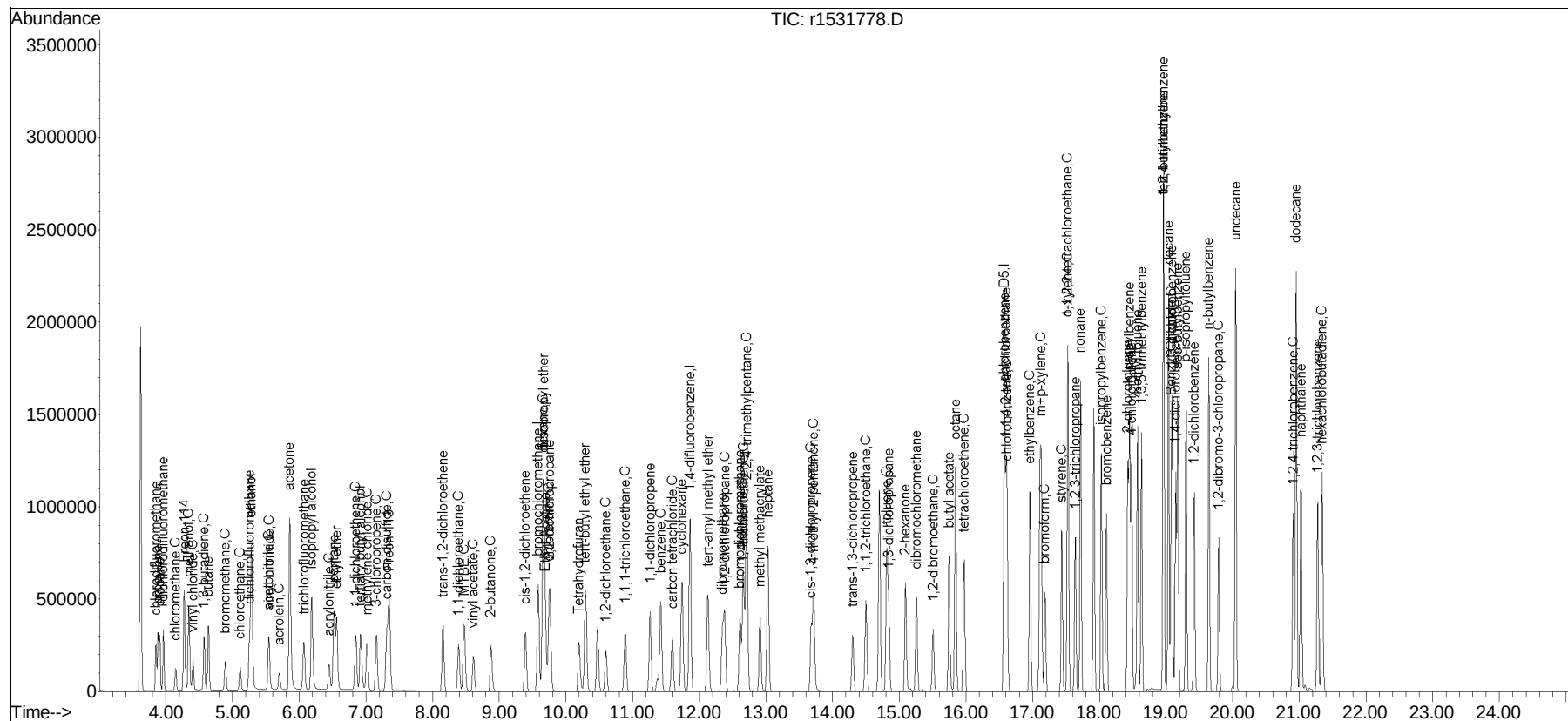
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : 0:\Forensics\Data\AirLab15\2022\03\0320T\
Data File : r1531778.D
Acq On    : 20 Mar 2022    1:18 PM
Operator  : AIRLAB15:RY
Sample    : WG1617728-2,3,250,250
Misc      : WG1617728,ICAL18600
ALS Vial  : 0    Sample Multiplier: 1
```

Quant Time: Mar 20 14:00:24 2022
Quant Method : 0:\Forensics\Data\AirLab15\2022\03\0320T\TFS15_211222.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 16:29:20 2021
Response via : Initial Calibration

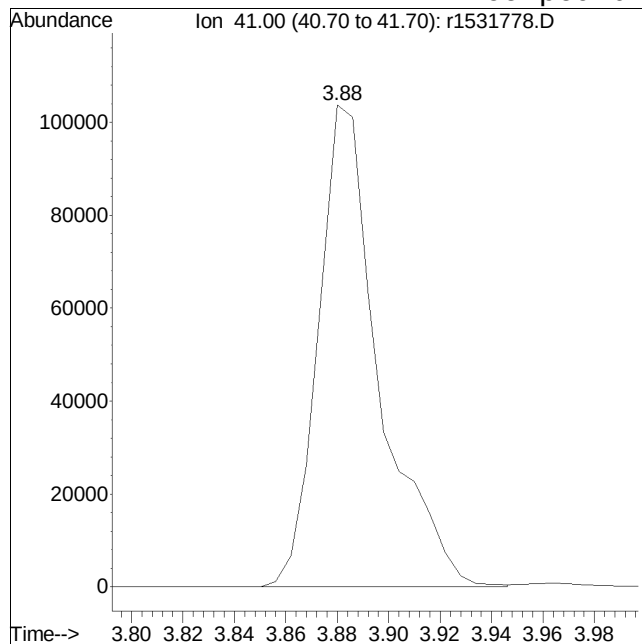
Sub List : Default-LCS-AP2 - All compounds listed0T\r1531778.D



Manual Integration/Negative Proof Report

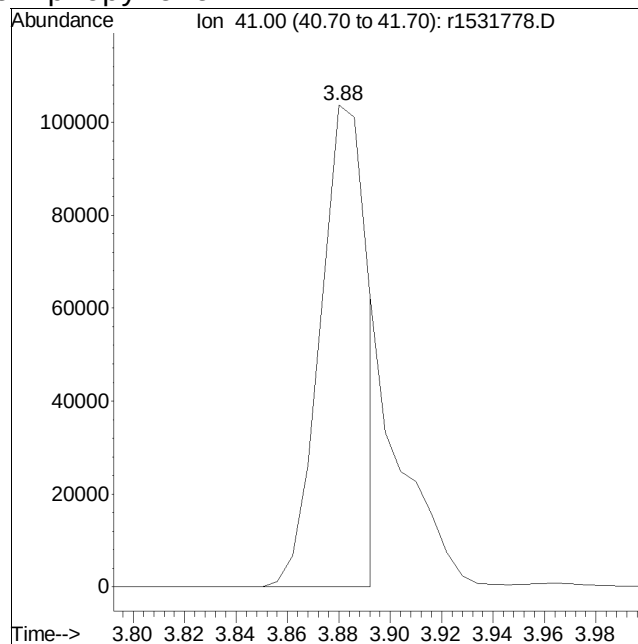
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TFS15_211222.M
Data File : r1531778.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:1: 8 Instrument :
Sample : WG1617728-2,3,250,250 Quant Date : 3/20/2022 12:59 pm

Compound #3: propylene



Original Peak Response = 170906

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



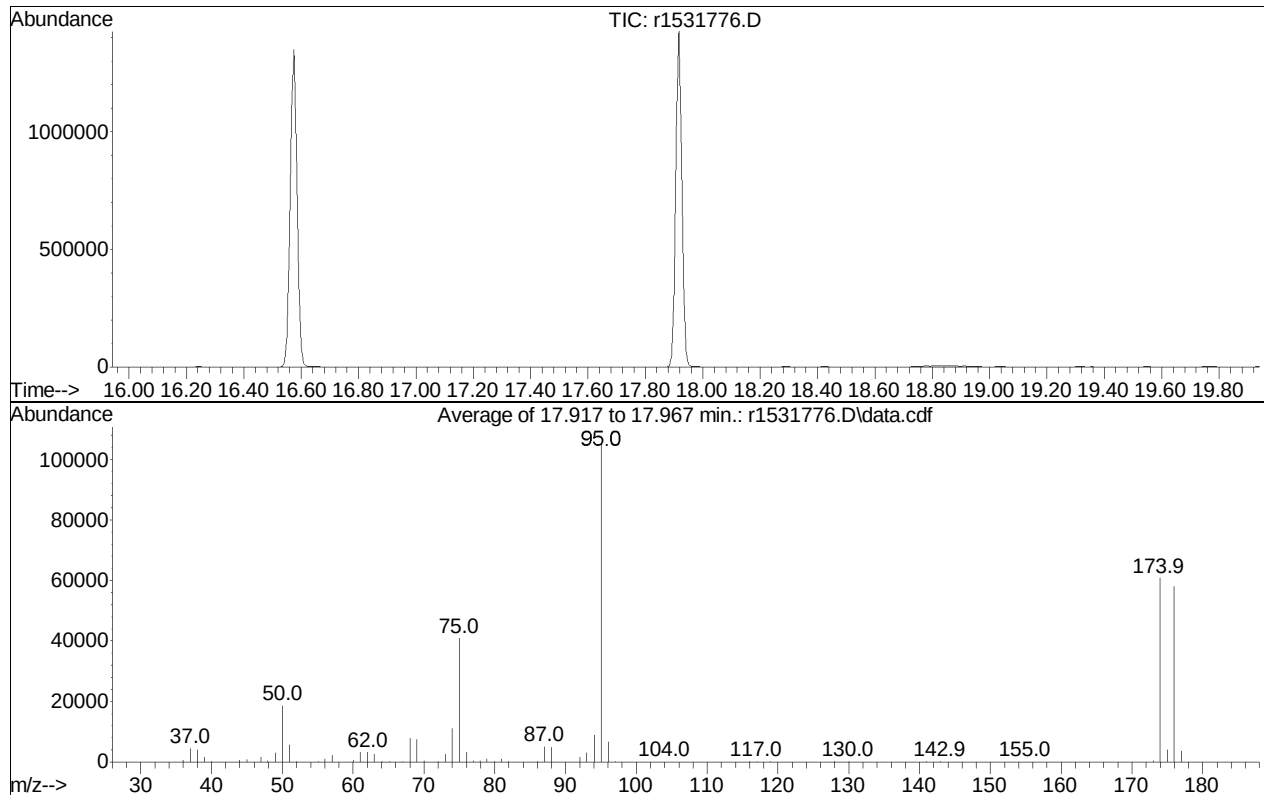
Manual Peak Response = 131970 M6

BFB

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531776.D
 Acq On : 20 Mar 2022 11:40 AM
 Operator : AIRLAB15:RY
 Sample : WG1617728-1,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Wed Dec 22 16:29:20 2021



Spectrum Information: Average of 17.917 to 17.967 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.6	18604	PASS
75	95	30	66	38.7	40864	PASS
95	95	100	100	100.0	105517	PASS
96	95	5	9	6.3	6609	PASS
173	174	0.00	2	0.7	412	PASS
174	95	50	120	57.7	60908	PASS
175	174	4	9	6.8	4148	PASS
176	174	93	101	95.3	58019	PASS
177	176	5	9	6.3	3627	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531780.D
 Acq On : 20 Mar 2022 3:20 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-4,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 08:45:13 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.59	49	380489	10.000	ppbV	-0.03
Standard Area = 382239			Recovery =		99.54%	
43) 1,4-difluorobenzene	11.86	114	820809	10.000	ppbV	-0.02
Standard Area = 859136			Recovery =		95.54%	
67) chlorobenzene-D5	16.58	54	191501	10.000	ppbV	0.00
Standard Area = 200634			Recovery =		95.45%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) propylene	3.90		0		N.D.	
5) dichlorodifluoromethane	0.00		0		N.D.	
6) chloromethane	0.00		0		N.D.	
7) Freon-114	0.00		0		N.D.	
9) vinyl chloride	0.00		0		N.D.	
10) 1,3-butadiene	0.00		0		N.D.	
13) bromomethane	0.00		0		N.D.	
14) chloroethane	0.00		0		N.D.	
15) ethanol	5.31	31	31399	2.878	ppbV	95
17) vinyl bromide	5.54		0		N.D.	
19) acetone	5.86		0		N.D.	
21) trichlorofluoromethane	6.13		0		N.D.	
22) isopropyl alcohol	6.20		0		N.D.	
26) 1,1-dichloroethene	0.00		0		N.D.	
27) tertiary butyl alcohol	6.98		0		N.D.	
28) methylene chloride	7.02		0		N.D.	
29) 3-chloropropene	0.00		0		N.D.	
30) carbon disulfide	0.00		0		N.D.	
31) Freon 113	0.00		0		N.D.	
32) trans-1,2-dichloroethene	0.00		0		N.D.	
33) 1,1-dichloroethane	0.00		0		N.D.	
34) MTBE	0.00		0		N.D.	
35) vinyl acetate	0.00		0		N.D.	
36) 2-butanone	0.00		0		N.D.	
37) cis-1,2-dichloroethene	0.00		0		N.D.	
38) Ethyl Acetate	0.00		0		N.D.	
39) chloroform	0.00		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531780.D
 Acq On : 20 Mar 2022 3:20 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-4,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 08:45:13 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Tetrahydrofuran	0.00		0		N.D.	
42) 1,2-dichloroethane	0.00		0		N.D.	
44) hexane	0.00		0		N.D.	
48) 1,1,1-trichloroethane	0.00		0		N.D.	
50) benzene	0.00		0		N.D.	
52) carbon tetrachloride	0.00		0		N.D.	
53) cyclohexane	0.00		0		N.D.	d
56) 1,2-dichloropropane	0.00		0		N.D.	
57) bromodichloromethane	0.00		0		N.D.	
58) 1,4-dioxane	0.00		0		N.D.	
59) trichloroethene	0.00		0		N.D.	
60) 2,2,4-trimethylpentane	0.00		0		N.D.	
62) heptane	0.00		0		N.D.	
63) cis-1,3-dichloropropene	0.00		0		N.D.	
64) 4-methyl-2-pentanone	0.00		0		N.D.	
65) trans-1,3-dichloropropene	0.00		0		N.D.	
66) 1,1,2-trichloroethane	0.00		0		N.D.	
68) toluene	14.81		0		N.D.	
72) 2-hexanone	0.00		0		N.D.	
74) dibromochloromethane	0.00		0		N.D.	
75) 1,2-dibromoethane	0.00		0		N.D.	
78) tetrachloroethene	0.00		0		N.D.	
80) chlorobenzene	0.00		0		N.D.	
81) ethylbenzene	17.11		0		N.D.	
83) m+p-xylene	17.11		0		N.D.	
84) bromoform	0.00		0		N.D.	
85) styrene	0.00		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.00		0		N.D.	
87) o-xylene	0.00		0		N.D.	
96) 4-ethyl toluene	0.00		0		N.D.	
97) 1,3,5-trimethylbenzene	0.00		0		N.D.	
99) 1,2,4-trimethylbenzene	18.97		0		N.D.	
101) Benzyl Chloride	19.08		0		N.D.	
102) 1,3-dichlorobenzene	19.10		0		N.D.	
103) 1,4-dichlorobenzene	19.16		0		N.D.	
107) 1,2-dichlorobenzene	19.42		0		N.D.	
115) 1,2,4-trichlorobenzene	20.91		0		N.D.	
119) hexachlorobutadiene	21.33		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531780.D
 Acq On : 20 Mar 2022 3:20 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-4,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 08:45:13 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

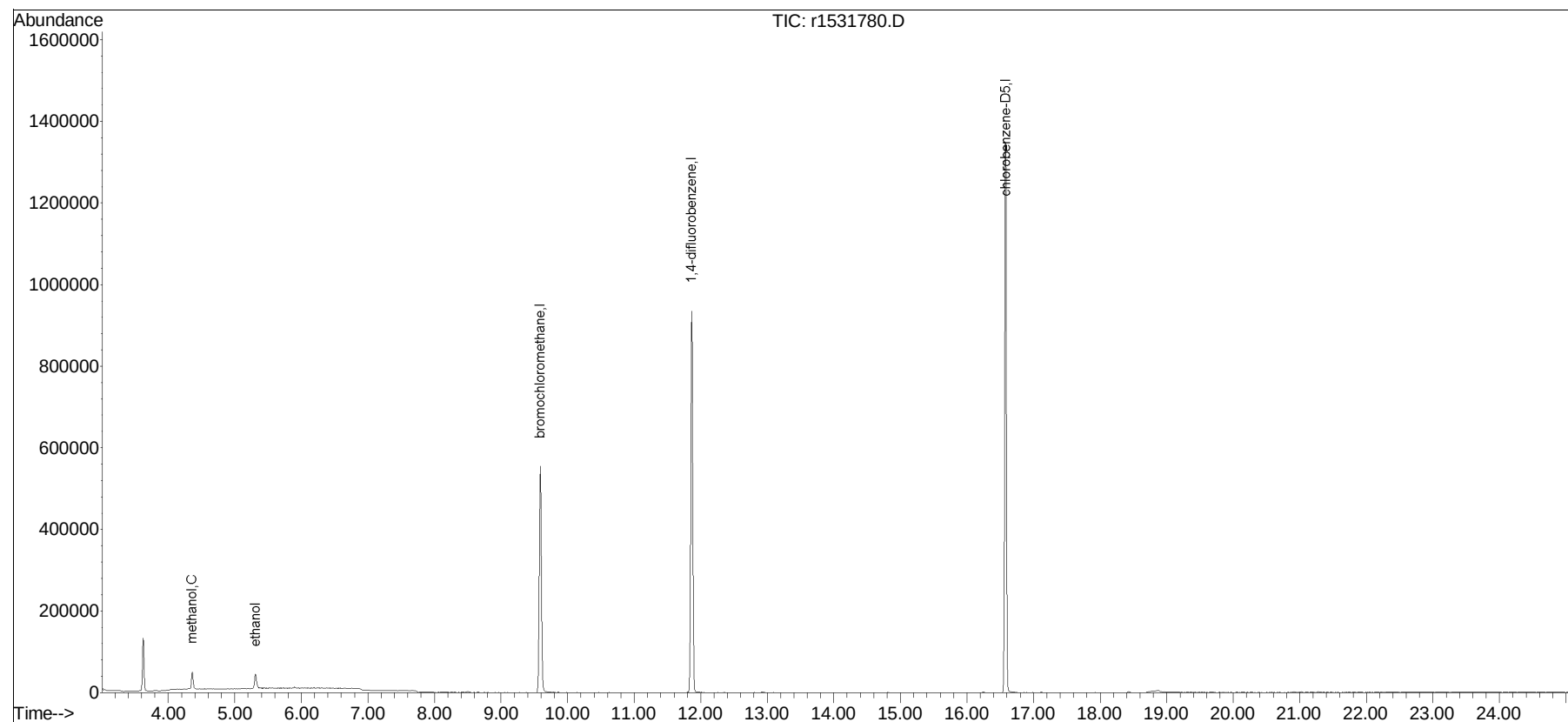
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

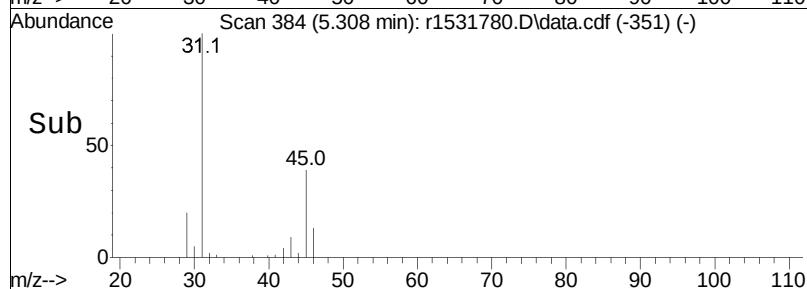
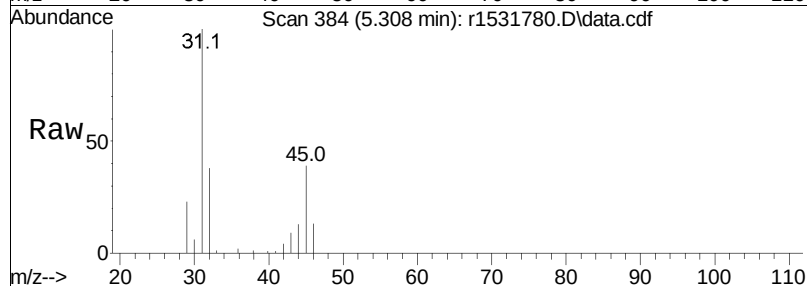
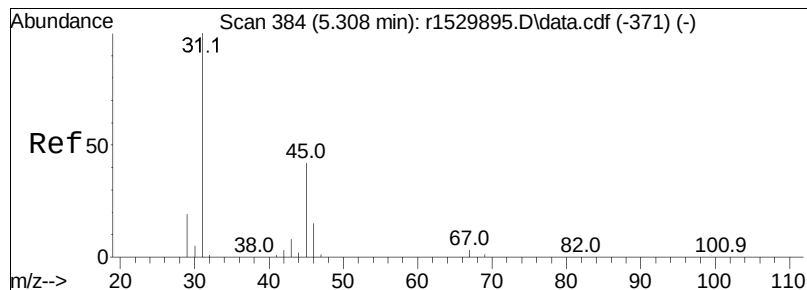
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
Data File : r1531780.D
Acq On : 20 Mar 2022 3:20 PM
Operator : AIRLAB15:RY
Sample : WG1617728-4,3,250,250
Misc : WG1617728,ICAL18600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 08:45:13 2022
Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 16:29:20 2021
Response via : Initial Calibration

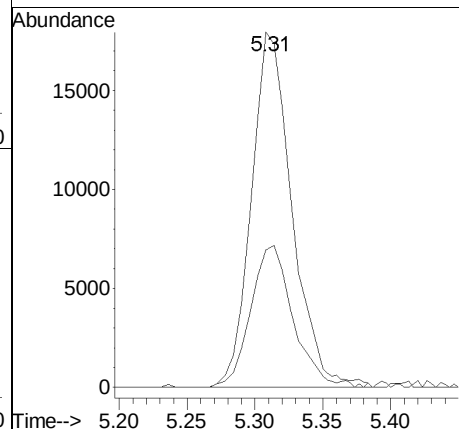
Sub List : Default-LCS-AP2 - All compounds listed0T\r1531778.D





#15
ethanol
Concen: 2.88 ppbV
RT: 5.31 min Scan# 384
Delta R.T. 0.000 min
Lab File: r1531780.D
Acq: 20 Mar 2022 3:20 PM

Tgt	Ion	Ratio	Lower	Upper
31	100			
45	38.7		33.4	50.2



Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\Airlab15\QMethod	: TFS15_211222.M
Data File	: r1531780.D	Operator : AIRLAB15:RY
Date Inj'd	: 3/20/2020 0:3: 0	Instrument :
Sample	: WG1617728-4,3,250,250	Quant Date : 3/21/2022 8:44 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531778.D
 Acq On : 20 Mar 2022 1:18 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-3,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:00:24 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	108	-0.03
2	chlorodifluoromethane	10.000	8.131	18.7	95	-0.02
3	propylene	10.000	8.687	13.1	99	-0.02
4	propane	10.000	8.777	12.2	102	-0.02
5	dichlorodifluoromethane	10.000	7.843	21.6	89	-0.02
6 C	chloromethane	10.000	8.081	19.2	92	-0.02
7	Freon-114	10.000	8.122	18.8	91	-0.02
8 C	methanol	50.000	45.062	9.9	102	-0.02
9 C	vinyl chloride	10.000	8.149	18.5	91	-0.02
10 C	1,3-butadiene	10.000	9.120	8.8	105	-0.02
11	butane	10.000	8.836	11.6	105	-0.02
13 C	bromomethane	10.000	7.740	22.6	86	-0.02
14 C	chloroethane	10.000	8.447	15.5	93	-0.02
15	ethanol	50.000	58.595	-17.2	114	-0.02
16	dichlorofluoromethane	10.000	9.045	9.6	100	-0.02
17 C	vinyl bromide	10.000	9.274	7.3	107	-0.02
18 C	acrolein	10.000	8.743	12.6	98	-0.02
19	acetone	50.000	52.107	-4.2	121	-0.02
20 C	acetonitrile	10.000	9.224	7.8	107	-0.02
21	trichlorofluoromethane	10.000	8.342	16.6	94	-0.02
22	isopropyl alcohol	25.000	24.854	0.6	115	-0.02
23 C	acrylonitrile	10.000	9.019	9.8	102	-0.03
24	pentane	10.000	9.182	8.2	106	-0.03
25	ethyl ether	10.000	14.464	-44.6#	162	-0.03
26 C	1,1-dichloroethene	10.000	8.628	13.7	95	-0.03
27	tertiary butyl alcohol	10.000	8.941	10.6	100	-0.02
28 C	methylene chloride	10.000	9.665	3.4	107	-0.02
29 C	3-chloropropene	10.000	10.944	-9.4	128	-0.03
30 C	carbon disulfide	10.000	11.656	-16.6	128	-0.02
31	Freon 113	10.000	9.636	3.6	108	-0.03
32	trans-1,2-dichloroethene	10.000	8.782	12.2	103	-0.03
33 C	1,1-dichloroethane	10.000	8.603	14.0	96	-0.02
34 C	MTBE	10.000	8.522	14.8	97	-0.03
35 C	vinyl acetate	10.000	8.853	11.5	101	-0.03
36 C	2-butanone	10.000	9.201	8.0	104	-0.03
37	cis-1,2-dichloroethene	10.000	8.288	17.1	93	-0.02
38	Ethyl Acetate	10.000	9.999	0.0	115	-0.03
39 C	chloroform	10.000	8.373	16.3	91	-0.03
40	Tetrahydrofuran	10.000	8.754	12.5	99	-0.03

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531778.D
 Acq On : 20 Mar 2022 1:18 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-3,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:00:24 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	10.000	9.288	7.1	103	-0.03
42 C	1,2-dichloroethane	10.000	8.256	17.4	94	-0.03
43 I	1,4-difluorobenzene	10.000	10.000	0.0	105	-0.02
44 C	hexane	10.000	9.940	0.6	107	-0.03
45	diisopropyl ether	10.000	9.065	9.4	98	-0.03
46	tert-butyl ethyl ether	10.000	8.584	14.2	94	-0.03
48 C	1,1,1-trichloroethane	10.000	9.103	9.0	96	-0.03
49	1,1-dichloropropene	10.000	9.198	8.0	100	-0.03
50 C	benzene	10.000	8.137	18.6	92	-0.03
52 C	carbon tetrachloride	10.000	8.960	10.4	92	-0.03
53	cyclohexane	10.000	9.689	3.1	105	-0.03
54	tert-amyl methyl ether	10.000	8.182	18.2	89	-0.03
55	dibromomethane	10.000	9.197	8.0	102	-0.02
56 C	1,2-dichloropropane	10.000	8.965	10.4	98	-0.02
57	bromodichloromethane	10.000	10.142	-1.4	106	-0.03
58 C	1,4-dioxane	10.000	9.719	2.8	104	-0.03
59 C	trichloroethene	10.000	8.814	11.9	93	-0.02
60 C	2,2,4-trimethylpentane	10.000	10.200	-2.0	111	-0.03
61	methyl methacrylate	10.000	9.761	2.4	104	-0.03
62	heptane	10.000	9.960	0.4	109	-0.03
63 C	cis-1,3-dichloropropene	10.000	8.980	10.2	91	-0.02
64 C	4-methyl-2-pentanone	10.000	10.009	-0.1	107	-0.03
65	trans-1,3-dichloropropene	10.000	7.771	22.3	78	-0.02
66 C	1,1,2-trichloroethane	10.000	9.146	8.5	99	-0.03
67 I	chlorobenzene-D5	10.000	10.000	0.0	103	-0.02
68 C	toluene	10.000	8.159	18.4	91	-0.03
71	1,3-dichloropropane	10.000	9.178	8.2	101	-0.02
72	2-hexanone	10.000	9.687	3.1	103	-0.02
74	dibromochloromethane	10.000	10.809	-8.1	110	-0.02
75 C	1,2-dibromoethane	10.000	8.883	11.2	95	-0.02
76	butyl acetate	10.000	8.651	13.5	93	-0.02
77	octane	10.000	8.937	10.6	94	-0.02
78 C	tetrachloroethene	10.000	8.500	15.0	89	-0.02
79	1,1,1,2-tetrachloroethane	10.000	9.608	3.9	100	-0.02
80 C	chlorobenzene	10.000	8.596	14.0	90	-0.02
81 C	ethylbenzene	10.000	8.716	12.8	90	-0.02
83 C	m+p-xylene	20.000	17.643	11.8	91	-0.02

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531778.D
 Acq On : 20 Mar 2022 1:18 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-3,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:00:24 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84 C	bromoform	10.000	10.954	-9.5	109	-0.02
85 C	styrene	10.000	8.671	13.3	90	-0.02
86 C	1,1,2,2-tetrachloroethane	10.000	9.007	9.9	91	-0.02
87 C	o-xylene	10.000	9.126	8.7	92	-0.02
88	1,2,3-trichloropropane	10.000	9.222	7.8	100	-0.02
89	nonane	10.000	9.324	6.8	100	-0.02
91 C	isopropylbenzene	10.000	9.745	2.6	106	0.00
92	bromobenzene	10.000	9.126	8.7	99	0.00
93	2-chlorotoluene	10.000	9.051	9.5	97	-0.02
94	n-propylbenzene	10.000	9.143	8.6	97	-0.02
95	4-chlorotoluene	10.000	8.895	11.1	96	-0.02
96	4-ethyl toluene	10.000	9.625	3.8	104	0.00
97	1,3,5-trimethylbenzene	10.000	8.941	10.6	94	0.00
98	tert-butylbenzene	10.000	9.461	5.4	96	0.00
99	1,2,4-trimethylbenzene	10.000	9.480	5.2	96	0.00
100	decane	10.000	9.954	0.5	102	0.00
101 C	Benzyl Chloride	10.000	11.246	-12.5	115	0.00
102	1,3-dichlorobenzene	10.000	8.962	10.4	92	-0.02
103 C	1,4-dichlorobenzene	10.000	9.099	9.0	93	0.00
104	sec-butylbenzene	10.000	9.787	2.1	103	-0.02
106	p-isopropyltoluene	10.000	8.713	12.9	88	-0.02
107	1,2-dichlorobenzene	10.000	8.937	10.6	93	0.00
108	n-butylbenzene	10.000	9.876	1.2	101	0.00
111 C	1,2-dibromo-3-chloropropane	10.000	10.092	-0.9	102	0.00
112	undecane	10.000	10.195	-2.0	100	0.00
114	dodecane	10.000	10.604	-6.0	93	0.00
115 C	1,2,4-trichlorobenzene	10.000	8.688	13.1	80	0.00
116	naphthalene	10.000	9.759	2.4	93	0.00
117	1,2,3-trichlorobenzene	10.000	9.687	3.1	91	0.00
119 C	hexachlorobutadiene	10.000	8.549	14.5	81	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531778.D
 Acq On : 20 Mar 2022 1:18 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-3,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:00:24 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.58	49	382239	10.000	ppbV	-0.03
Standard Area = 382239			Recovery	=	100.00%	
43) 1,4-difluorobenzene	11.86	114	859136	10.000	ppbV	-0.02
Standard Area = 859136			Recovery	=	100.00%	
67) chlorobenzene-D5	16.57	54	200634	10.000	ppbV	-0.02
Standard Area = 200634			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) propylene	3.88	41	131970M6	8.687	ppbV	
5) dichlorodifluoromethane	3.96	85	221742	7.843	ppbV	99
6) chloromethane	4.14	50	113847	8.081	ppbV	99
7) Freon-114	4.28	85	273976	8.122	ppbV	97
9) vinyl chloride	4.41	62	150807	8.149	ppbV	100
10) 1,3-butadiene	4.58	54	125316	9.120	ppbV	91
13) bromomethane	4.89	94	108262	7.740	ppbV	99
14) chloroethane	5.12	64	77243	8.447	ppbV	99
15) ethanol	5.28	31	642221	58.595	ppbV	98
17) vinyl bromide	5.55	106	116069	9.274	ppbV	96
19) acetone	5.86	43	1137940	52.107	ppbV	94
21) trichlorofluoromethane	6.07	101	226228	8.342	ppbV	97
22) isopropyl alcohol	6.19	45	586568	24.854	ppbV	99
26) 1,1-dichloroethene	6.85	61	224415	8.628	ppbV	98
27) tertiary butyl alcohol	6.92	59	272923	8.941	ppbV #	89
28) methylene chloride	7.02	49	173067	9.665	ppbV	98
29) 3-chloropropene	7.16	41	253320	10.944	ppbV	99
30) carbon disulfide	7.31	76	433001	11.656	ppbV	99
31) Freon 113	7.35	101	263159	9.636	ppbV	96
32) trans-1,2-dichloroethene	8.16	61	257745	8.782	ppbV	99
33) 1,1-dichloroethane	8.39	63	294227	8.603	ppbV	100
34) MTBE	8.47	73	339490	8.522	ppbV	99
35) vinyl acetate	8.61	43	321918	8.853	ppbV	100
36) 2-butanone	8.88	43	358733	9.201	ppbV	99
37) cis-1,2-dichloroethene	9.39	61	225336	8.288	ppbV	100
38) Ethyl Acetate	9.69	61	70648	9.999	ppbV	94
39) chloroform	9.75	83	270822	8.373	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531778.D
 Acq On : 20 Mar 2022 1:18 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-3,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:00:24 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Tetrahydrofuran	10.19	42	212138	8.754	ppbV	98
42) 1,2-dichloroethane	10.60	62	192043	8.256	ppbV	99
44) hexane	9.66	57	360206	9.940	ppbV	95
48) 1,1,1-trichloroethane	10.89	97	224778	9.103	ppbV	98
50) benzene	11.42	78	490838	8.137	ppbV	99
52) carbon tetrachloride	11.60	117	195941	8.960	ppbV	100
53) cyclohexane	11.74	56	375801	9.689	ppbV	98
56) 1,2-dichloropropane	12.38	63	201586	8.965	ppbV	99
57) bromodichloromethane	12.61	83	315957	10.142	ppbV	100
58) 1,4-dioxane	12.65	88	135436	9.719	ppbV	97
59) trichloroethene	12.66	130	200079	8.814	ppbV	95
60) 2,2,4-trimethylpentane	12.71	57	1225946	10.200	ppbV	99
62) heptane	13.03	43	396751	9.960	ppbV	99
63) cis-1,3-dichloropropene	13.68	75	228456	8.980	ppbV	97
64) 4-methyl-2-pentanone	13.72	43	448679	10.009	ppbV	99
65) trans-1,3-dichloropropene	14.30	75	181954	7.771	ppbV	97
66) 1,1,2-trichloroethane	14.50	97	193890	9.146	ppbV	96
68) toluene	14.81	91	609621	8.159	ppbV	99
72) 2-hexanone	15.09	43	408384	9.687	ppbV	96
74) dibromochloromethane	15.26	129	303200	10.809	ppbV	97
75) 1,2-dibromoethane	15.51	107	261464	8.883	ppbV	97
78) tetrachloroethene	15.98	166	220329	8.500	ppbV	97
80) chlorobenzene	16.62	112	434345	8.596	ppbV	100
81) ethylbenzene	16.96	91	771122	8.716	ppbV	98
83) m+p-xylene	17.13	91	1268438	17.643	ppbV	95
84) bromoform	17.18	173	248065	10.954	ppbV	96
85) styrene	17.43	104	441941	8.671	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.52	83	473341	9.007	ppbV	99
87) o-xylene	17.52	91	651431	9.126	ppbV	99
96) 4-ethyl toluene	18.57	105	870790	9.625	ppbV	96
97) 1,3,5-trimethylbenzene	18.63	105	685812	8.941	ppbV	98
99) 1,2,4-trimethylbenzene	18.97	105	700302	9.480	ppbV	94
101) Benzyl Chloride	19.08	91	533611	11.246	ppbV	99
102) 1,3-dichlorobenzene	19.09	146	449576	8.962	ppbV	97
103) 1,4-dichlorobenzene	19.15	146	449641	9.099	ppbV	98
107) 1,2-dichlorobenzene	19.42	146	426028	8.937	ppbV	98
115) 1,2,4-trichlorobenzene	20.91	180	304188	8.688	ppbV	97
119) hexachlorobutadiene	21.34	225	248788	8.549	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531778.D
 Acq On : 20 Mar 2022 1:18 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-3,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:00:24 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

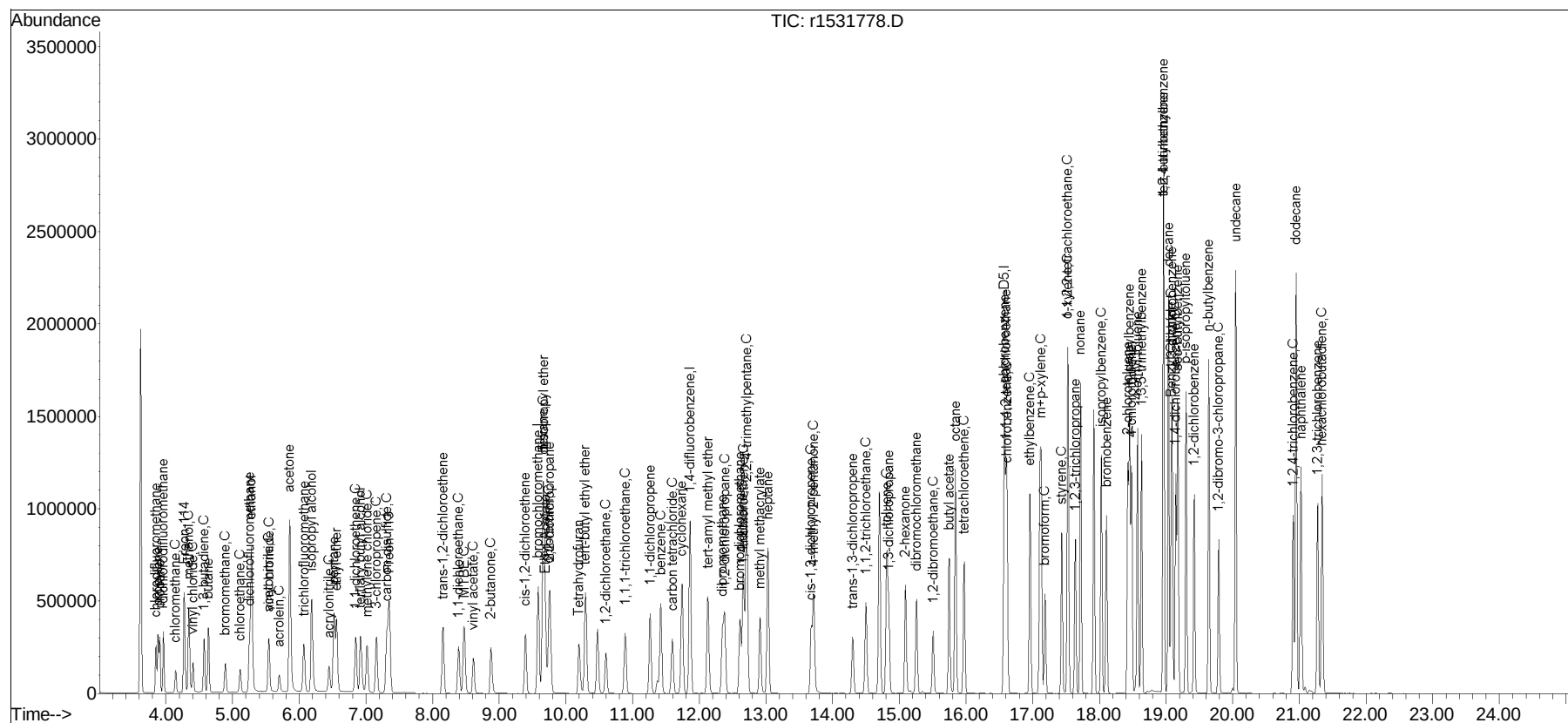
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

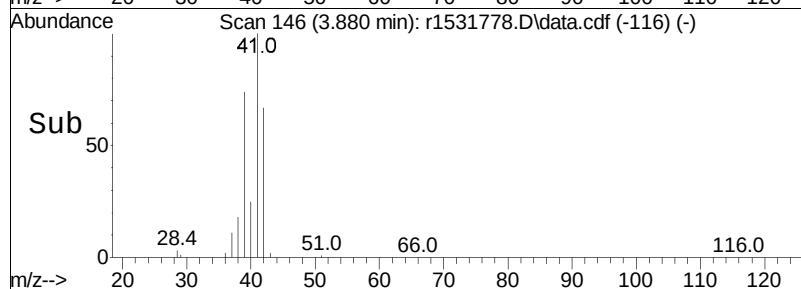
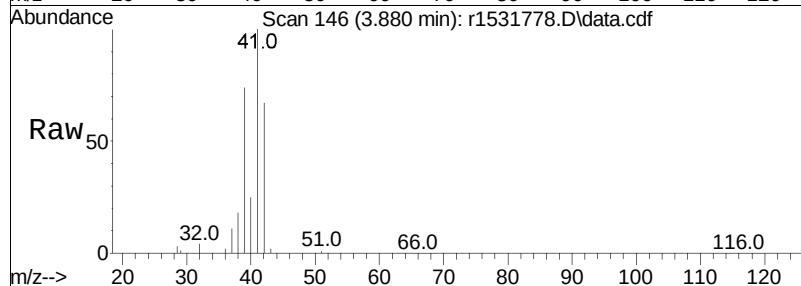
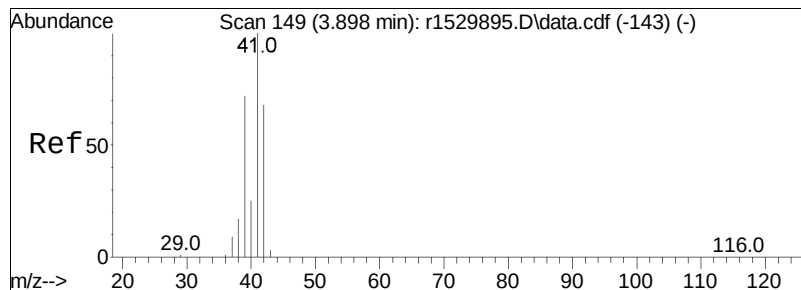
Quantitation Report (QT Reviewed)

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Data Path : 0:\Forensics\Data\AirLab15\2022\03\0320T\
Data File : r1531778.D
Acq On    : 20 Mar 2022    1:18 PM
Operator  : AIRLAB15:RY
Sample    : WG1617728-3,3,250,250
Misc      : WG1617728,ICAL18600
ALS Vial  : 0    Sample Multiplier: 1
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Quant Time: Mar 20 14:00:24 2022
Quant Method : 0:\Forensics\Data\AirLab15\2022\03\0320T\TFS15_211222.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 16:29:20 2021
Response via : Initial Calibration

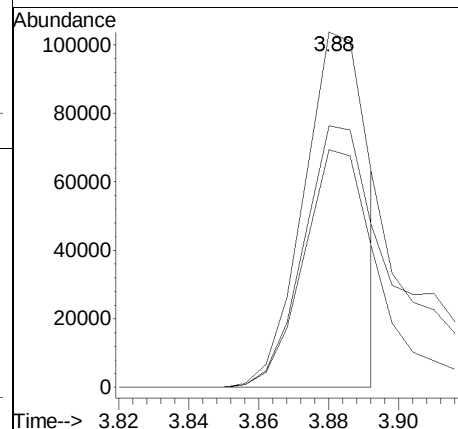
Sub List : Default-LCS-AP2 - All compounds listed0T\r1531778.D

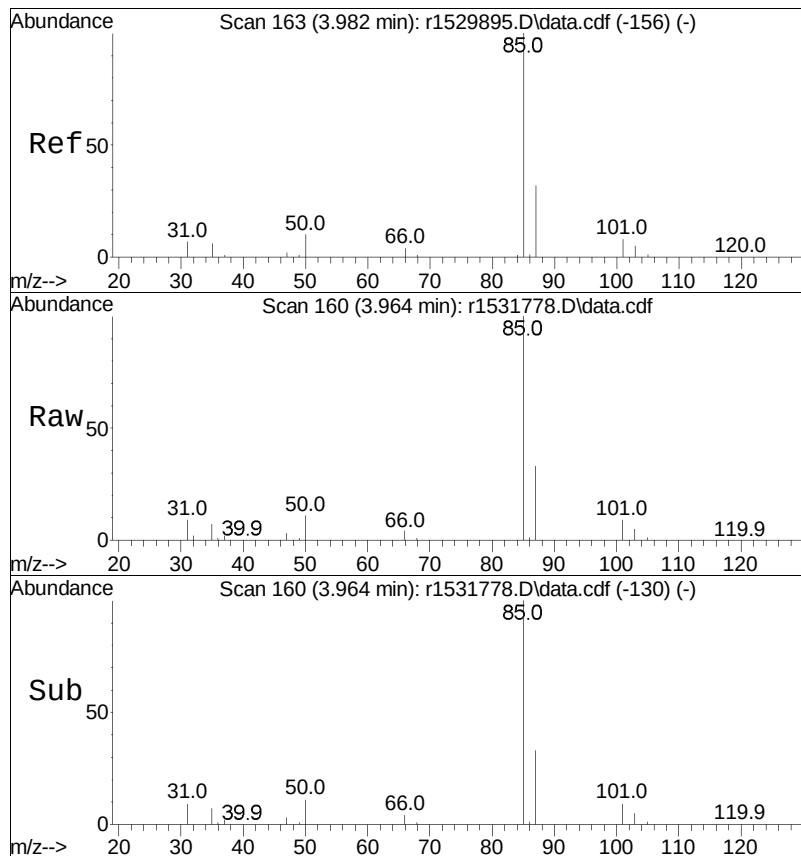




#3
propylene
Concen: 8.69 ppbV m
RT: 3.88 min Scan# 146
Delta R.T. -0.018 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

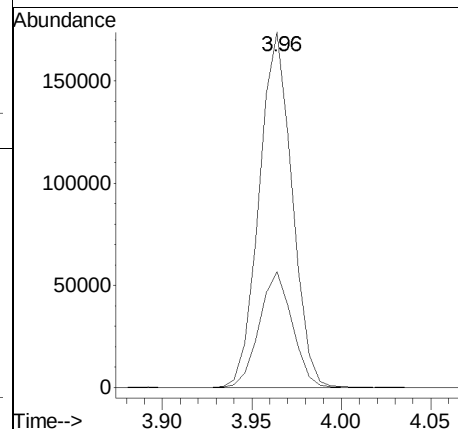
Tgt Ion	Ratio	Lower	Upper
41	100		
42	66.9	54.3	81.5
39	73.6	57.7	86.5

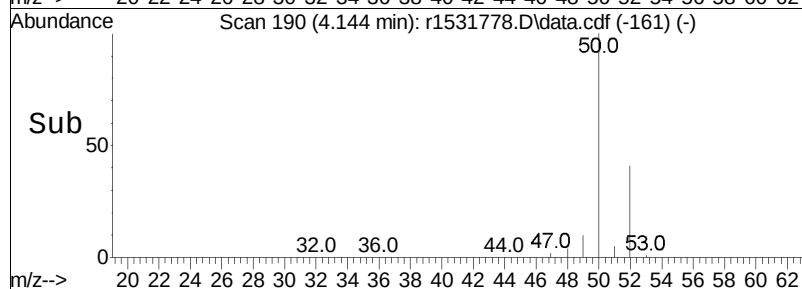
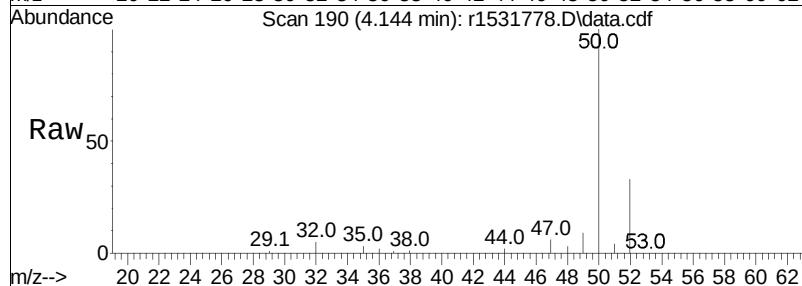
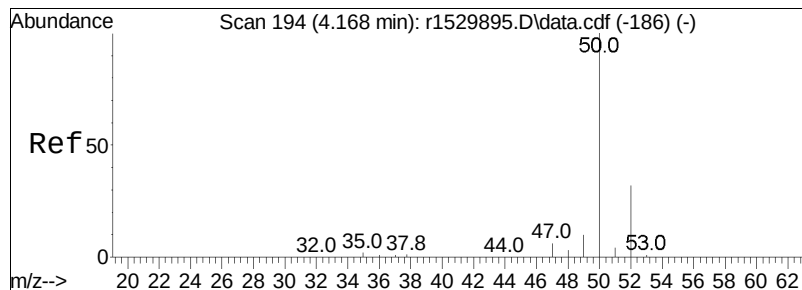




#5
dichlorodifluoromethane
Concen: 7.84 ppbV
RT: 3.96 min Scan# 160
Delta R.T. -0.018 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

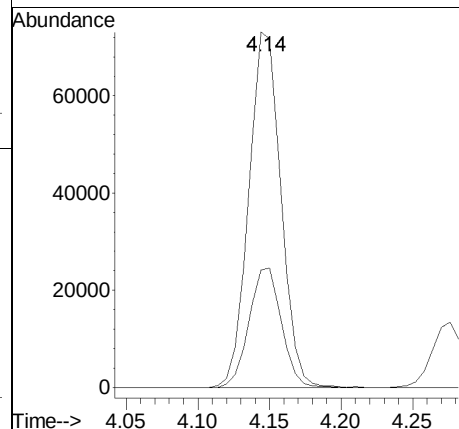
Tgt	Ion	Ratio	Lower	Upper
85	100			
87	32.6	25.6	38.4	

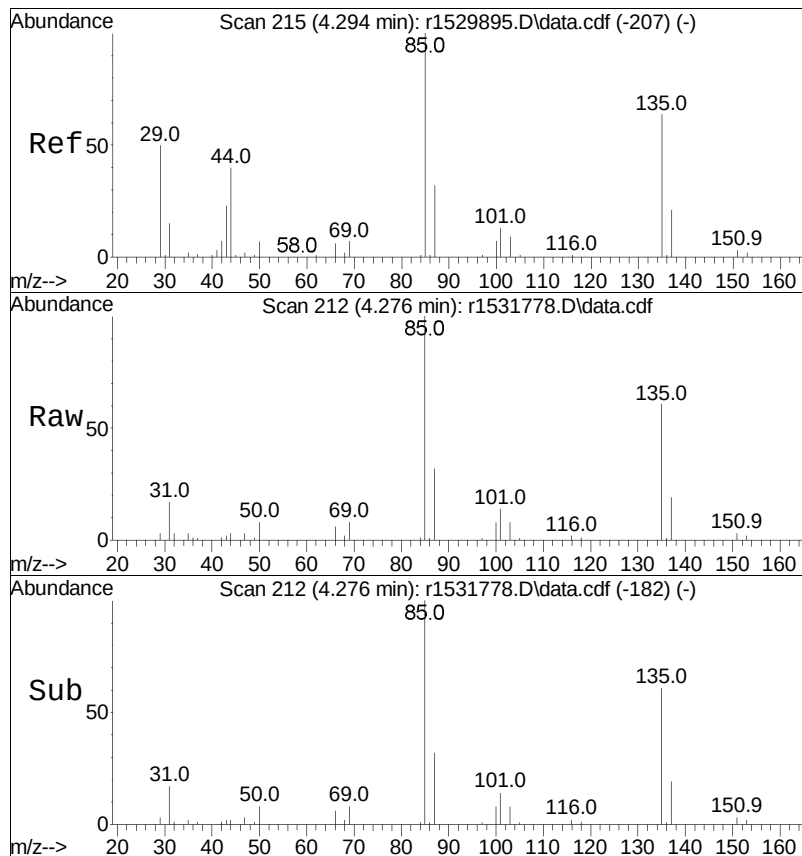




#6
chloromethane
Concen: 8.08 ppbV
RT: 4.14 min Scan# 190
Delta R.T. -0.024 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

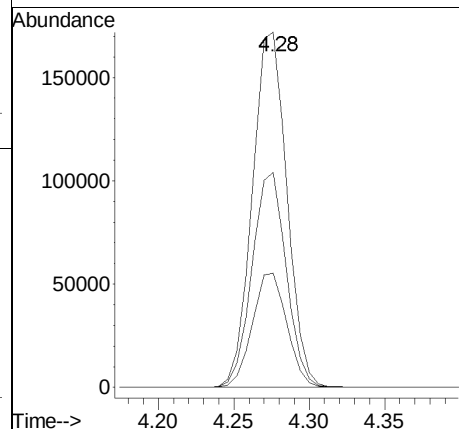
Tgt	Ion	Resp	Lower	Upper
50	100	113847		
52	33.0	25.9	38.9	

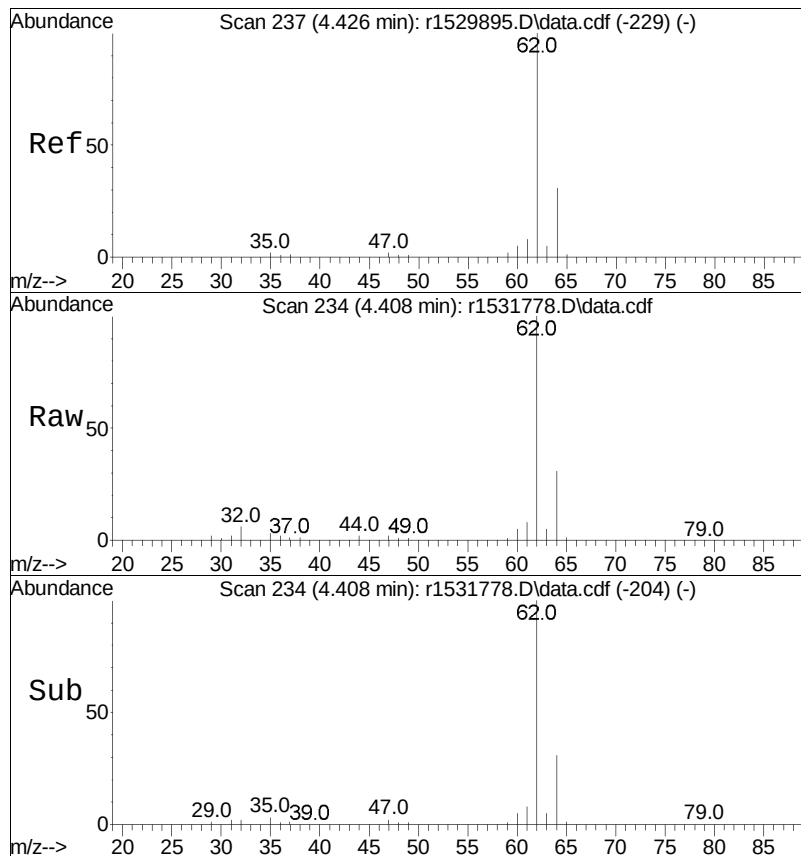




#7
 Freon-114
 Concen: 8.12 ppbV
 RT: 4.28 min Scan# 212
 Delta R.T. -0.018 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

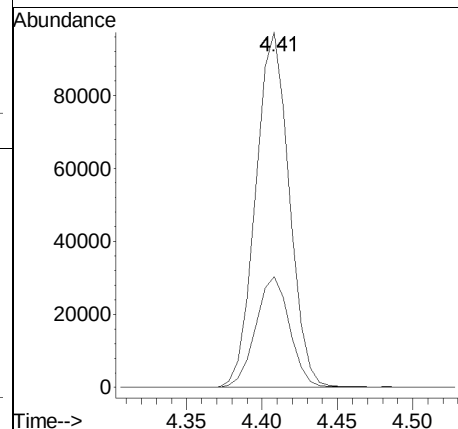
Tgt Ion:	85	Resp:	273976
Ion Ratio	Lower	Upper	
85	100		
87	32.1	25.6	38.4
135	60.5	51.1	76.7

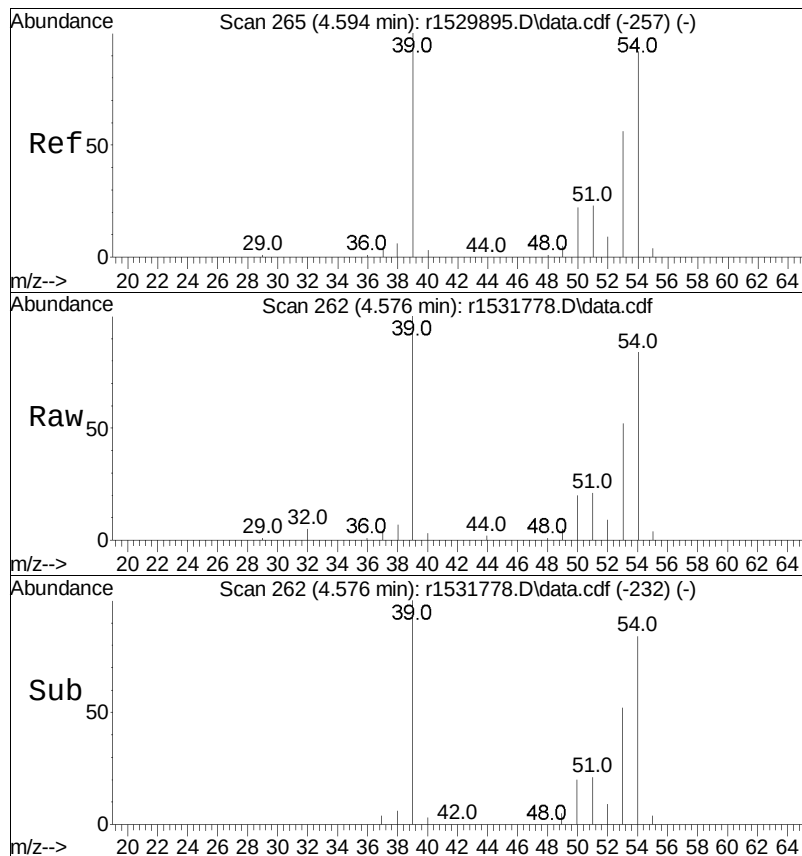




#9
 vinyl chloride
 Concen: 8.15 ppbV
 RT: 4.41 min Scan# 234
 Delta R.T. -0.018 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

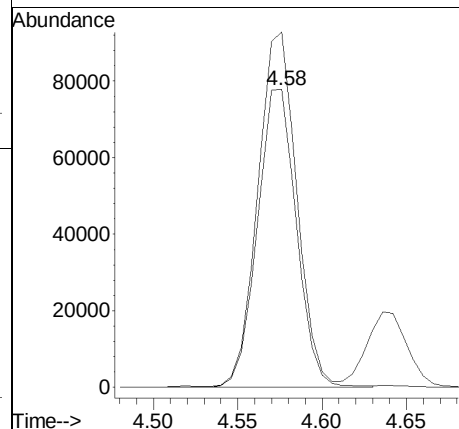
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.1	37.7

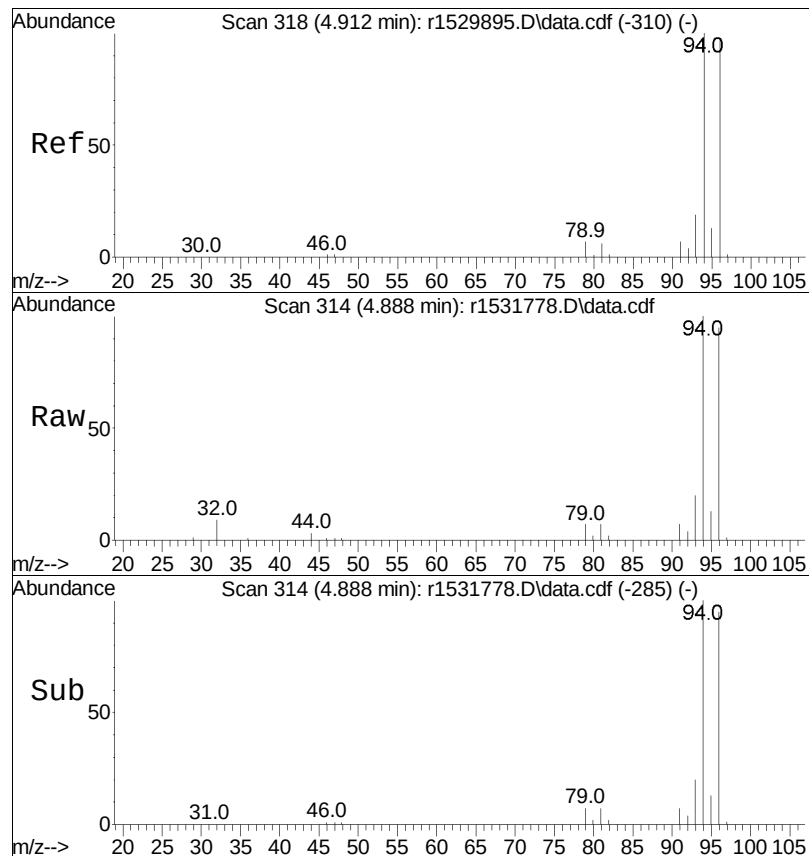




#10
 1,3-butadiene
 Concen: 9.12 ppbV
 RT: 4.58 min Scan# 262
 Delta R.T. -0.018 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

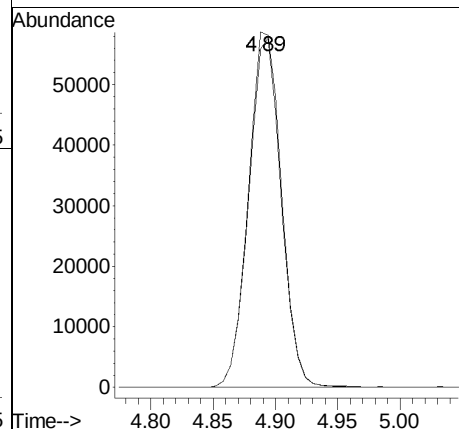
Tgt Ion	Ratio	Lower	Upper
54	100		
39	119.3	87.7	131.5

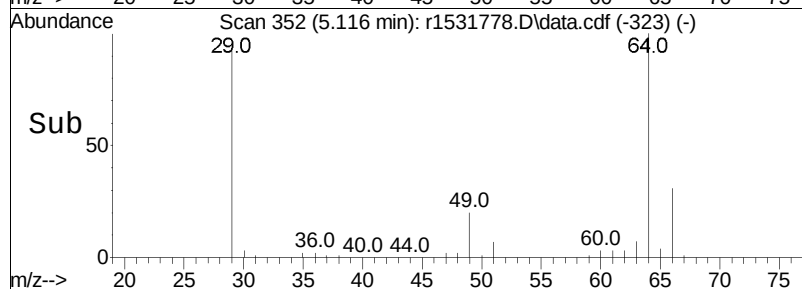
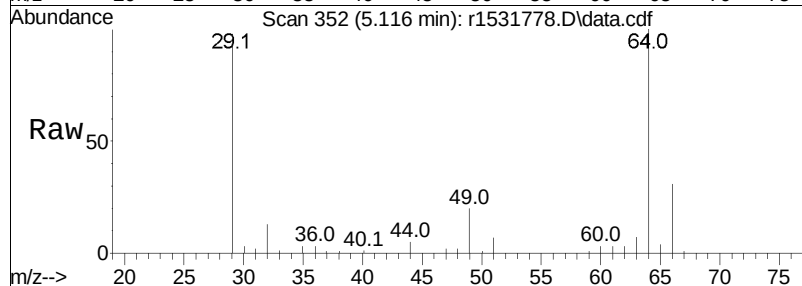
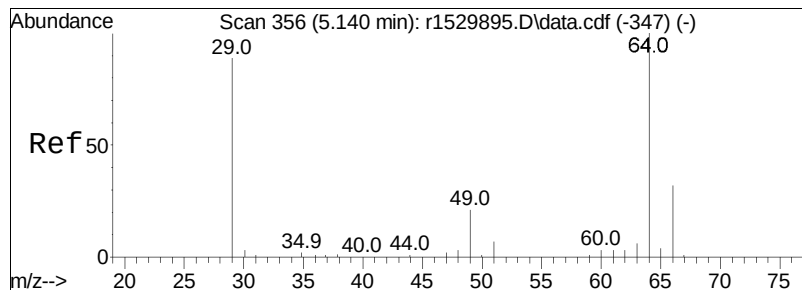




#13
bromomethane
Concen: 7.74 ppbV
RT: 4.89 min Scan# 314
Delta R.T. -0.024 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

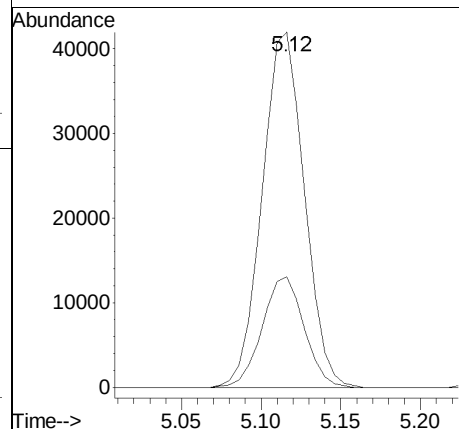
Tgt Ion:	94	Resp:	108262
Ion Ratio	Lower	Upper	
94	100		
96	95.3	77.3	115.9

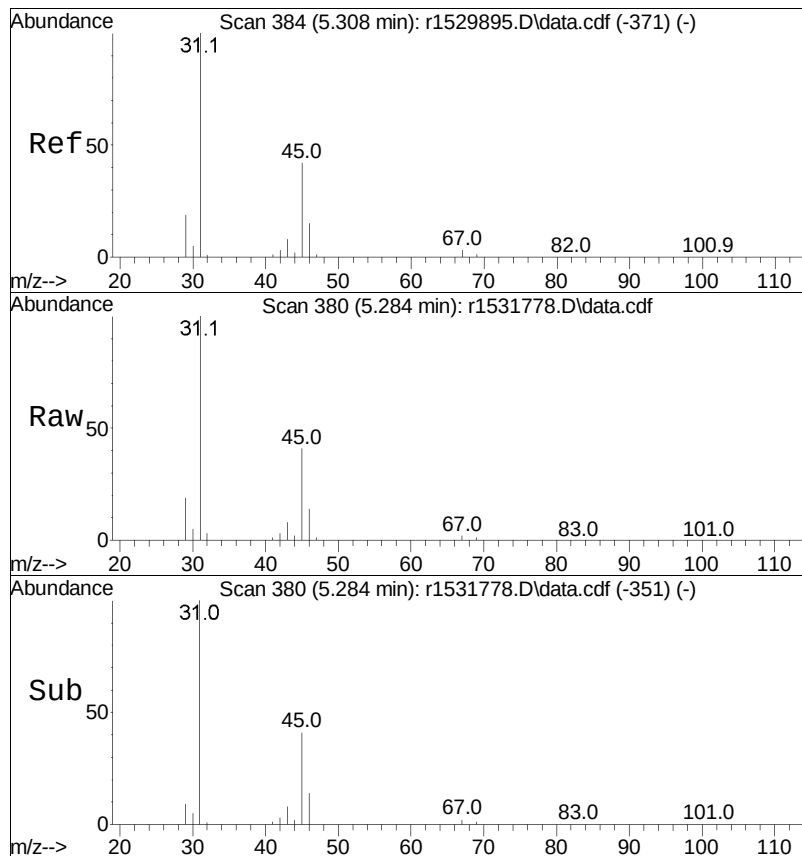




#14
chloroethane
Concen: 8.45 ppbV
RT: 5.12 min Scan# 352
Delta R.T. -0.024 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

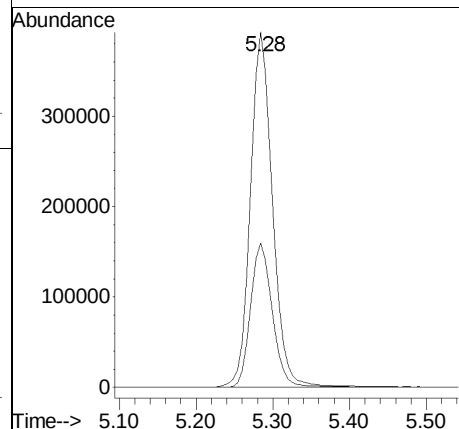
Tgt	Ion	Ratio	Lower	Upper
64	100			
66	31.1	25.3	37.9	

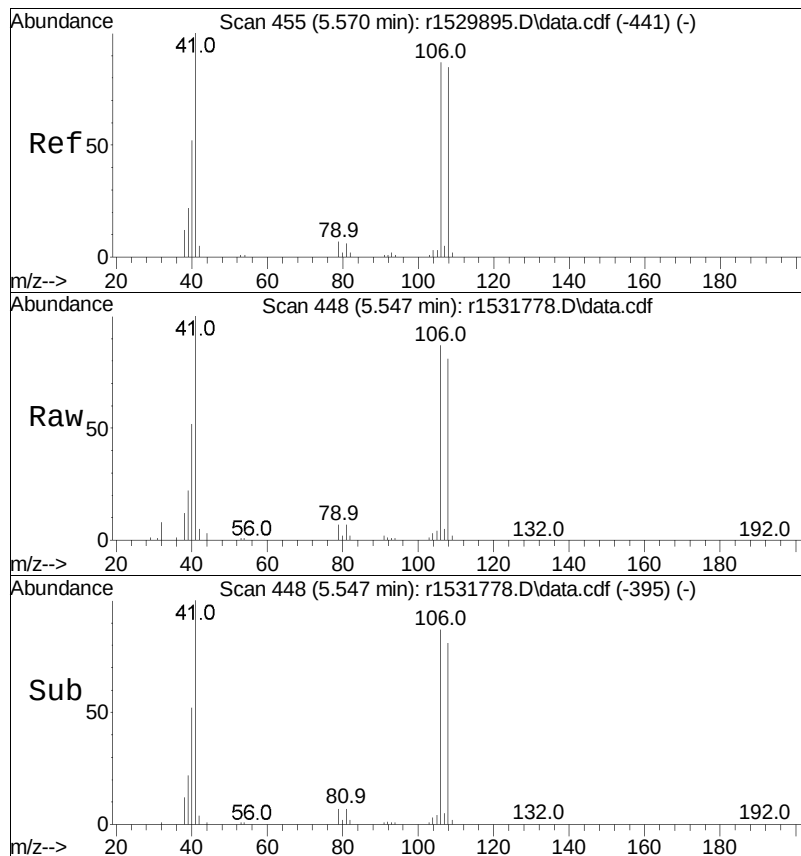




#15
 ethanol
 Concen: 58.59 ppbV
 RT: 5.28 min Scan# 380
 Delta R.T. -0.024 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

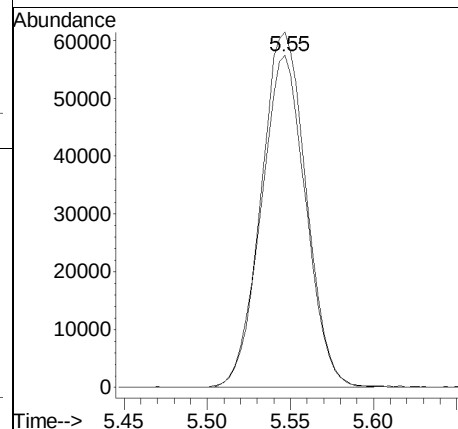
Tgt Ion	Ratio	Lower	Upper
31	100		
45	40.6	33.4	50.2

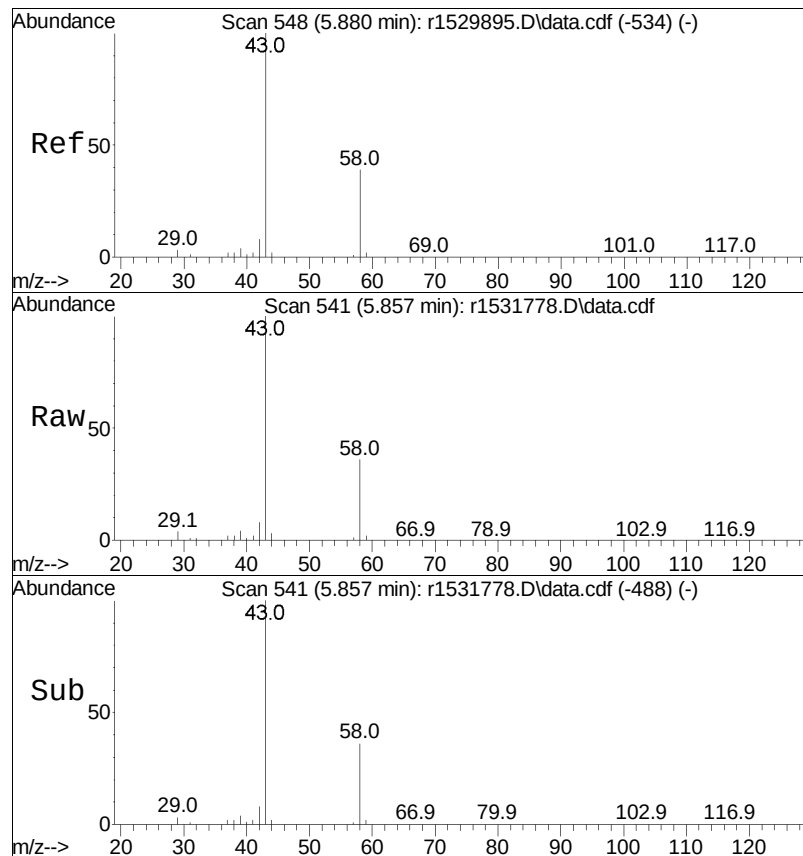




#17
 vinyl bromide
 Concen: 9.27 ppbV
 RT: 5.55 min Scan# 448
 Delta R.T. -0.023 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

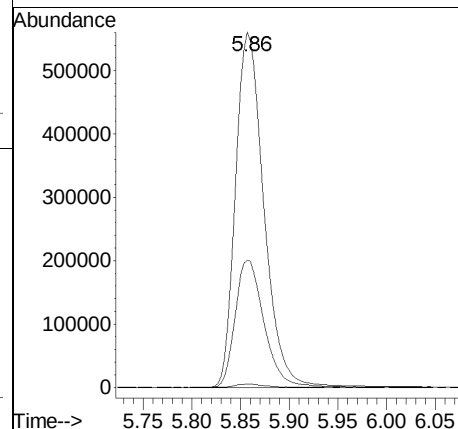
Tgt Ion	Ratio	Lower	Upper
106	100		
108	93.4	77.7	116.5

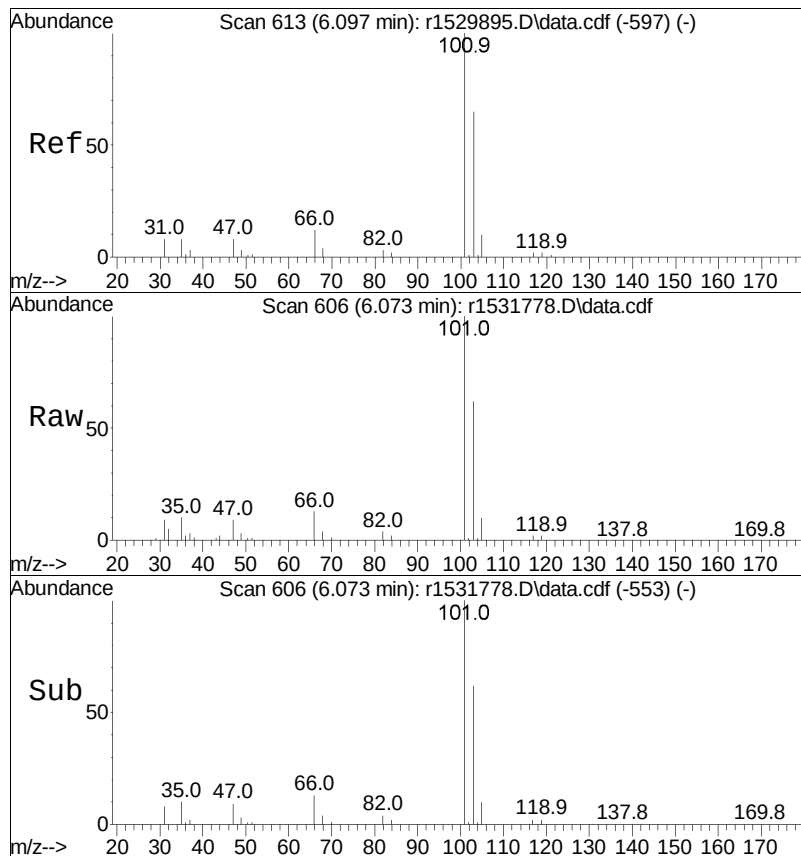




#19
acetone
Concen: 52.11 ppbV
RT: 5.86 min Scan# 541
Delta R.T. -0.023 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

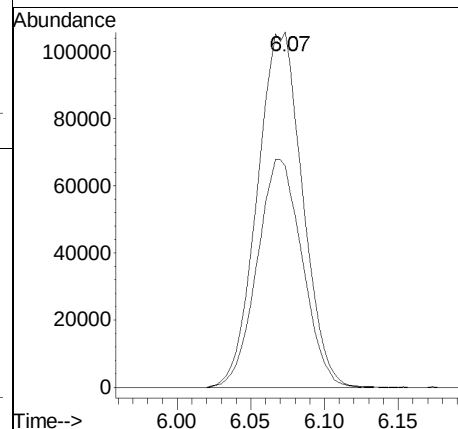
Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.8	31.6	47.4
57	0.9	0.8	1.2

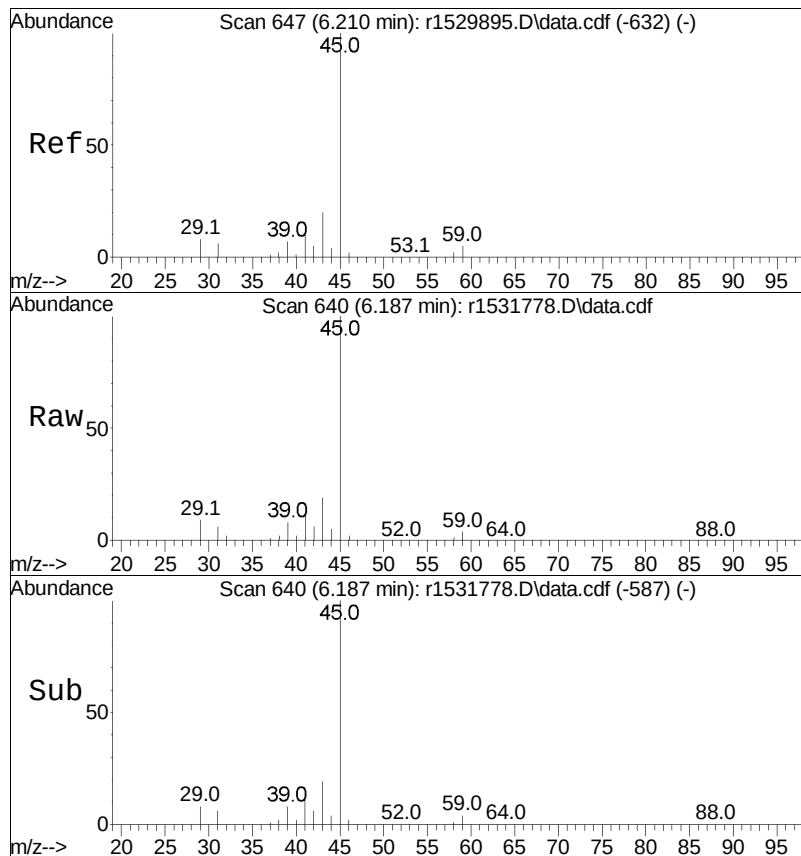




#21
 trichlorofluoromethane
 Concen: 8.34 ppbV
 RT: 6.07 min Scan# 606
 Delta R.T. -0.023 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

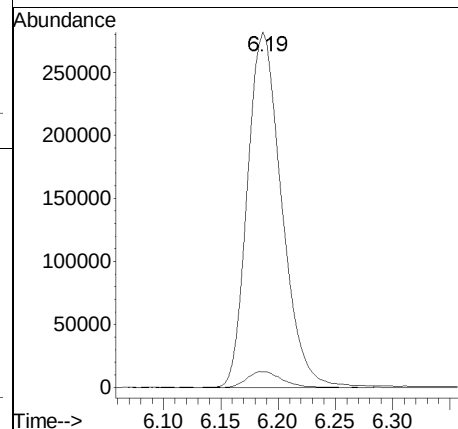
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	62.3	52.0	78.0	

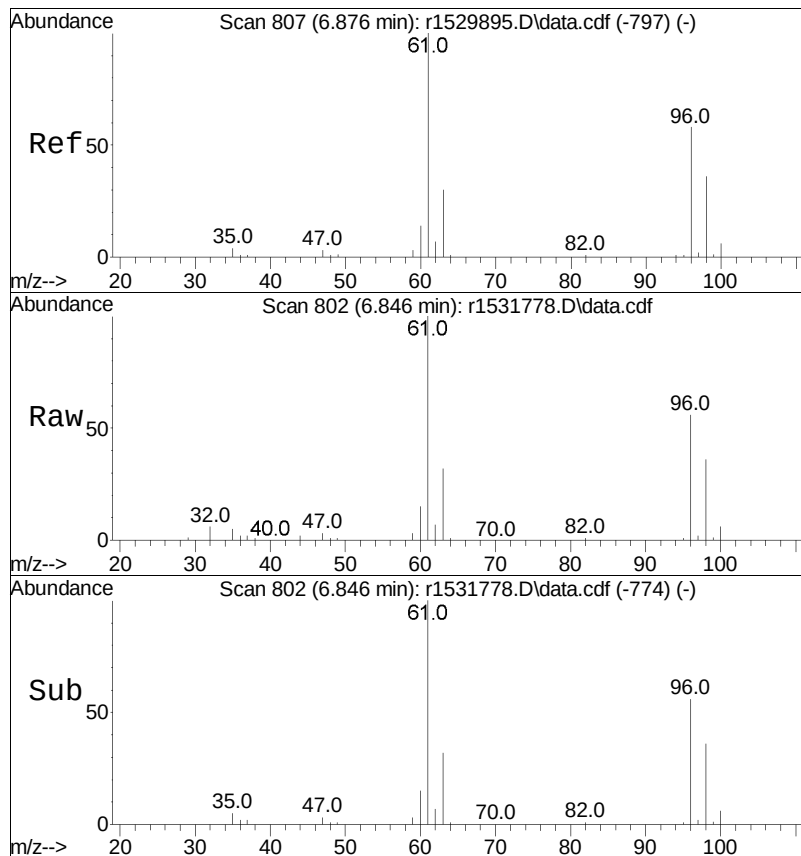




#22
 isopropyl alcohol
 Concen: 24.85 ppbV
 RT: 6.19 min Scan# 640
 Delta R.T. -0.023 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

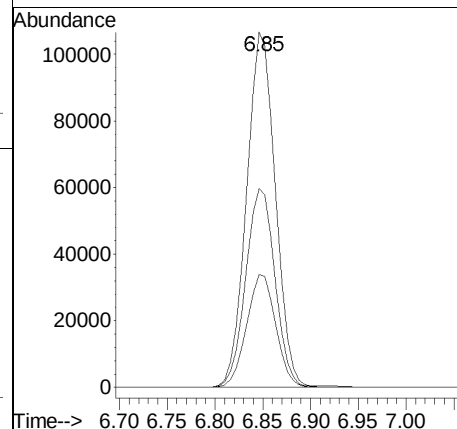
Tgt	Ion	Ratio	Lower	Upper
45	100			
59	4.5	3.8	5.8	

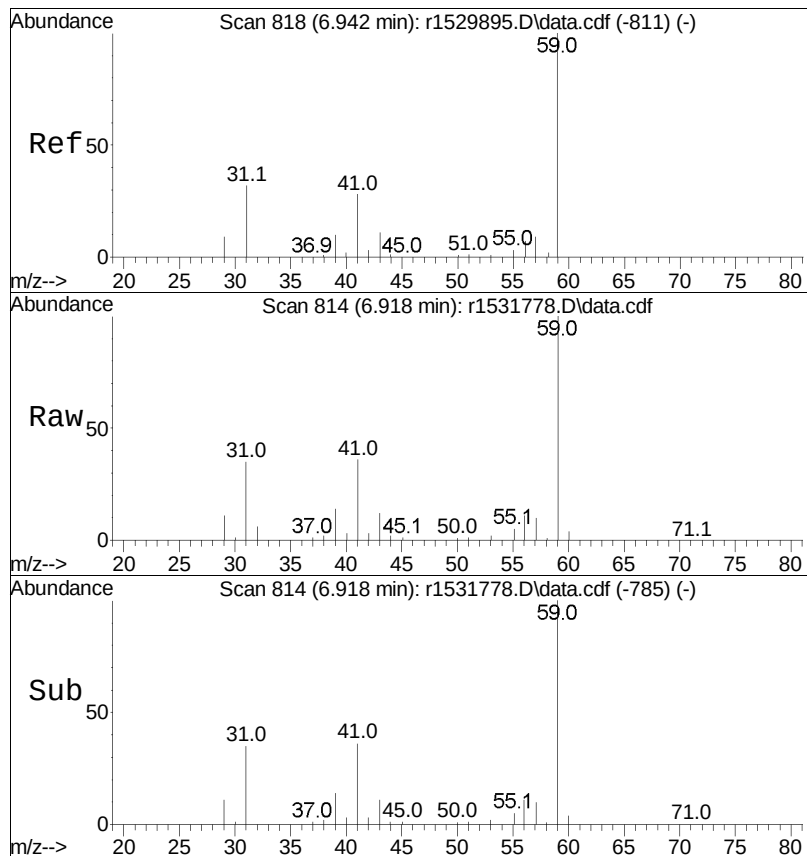




#26
 1,1-dichloroethene
 Concen: 8.63 ppbV
 RT: 6.85 min Scan# 802
 Delta R.T. -0.030 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

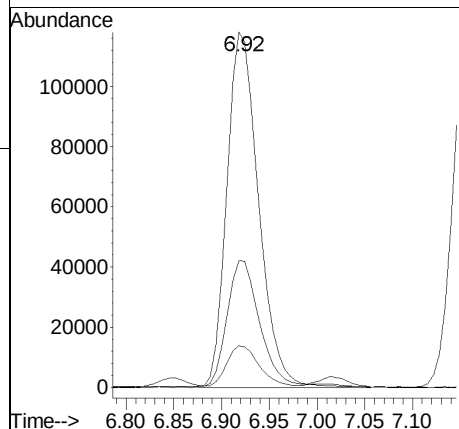
Tgt Ion:	61	Resp:	224415
Ion Ratio	Lower	Upper	
61	100		
96	56.0	46.0	69.0
63	31.7	24.3	36.5

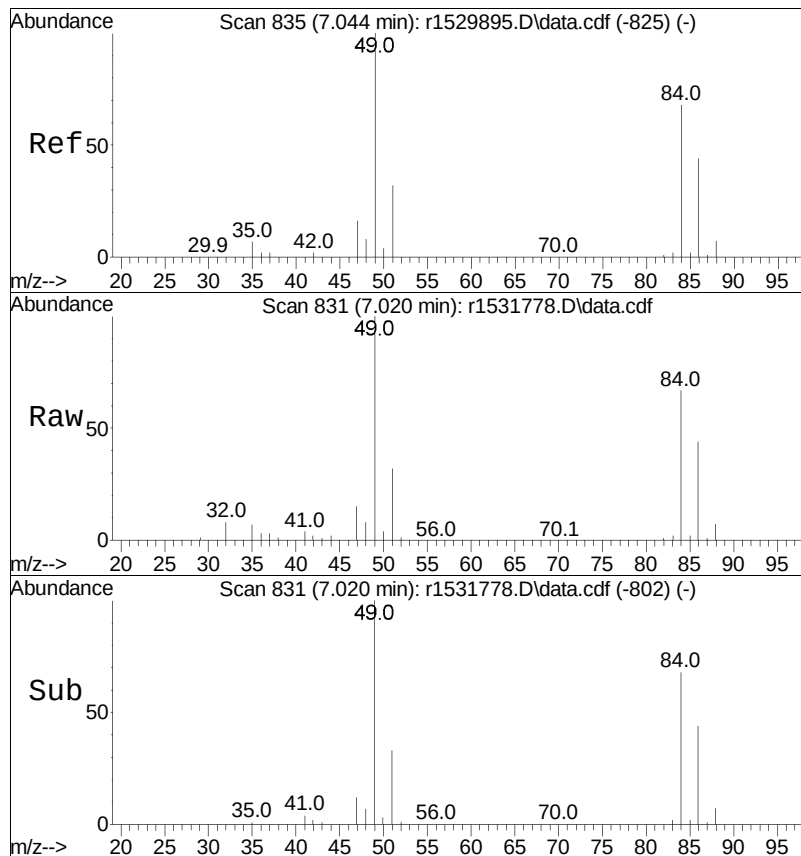




#27
 tertiary butyl alcohol
 Concen: 8.94 ppbV
 RT: 6.92 min Scan# 814
 Delta R.T. -0.024 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

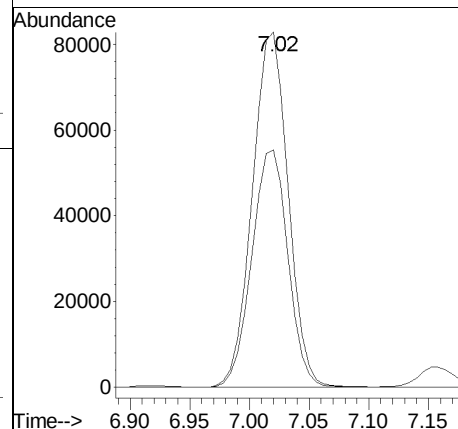
Tgt Ion:	59	Resp:	272923
Ion Ratio	Lower	Upper	
59	100		
41	35.7	22.2	33.4#
43	11.7	8.9	13.3

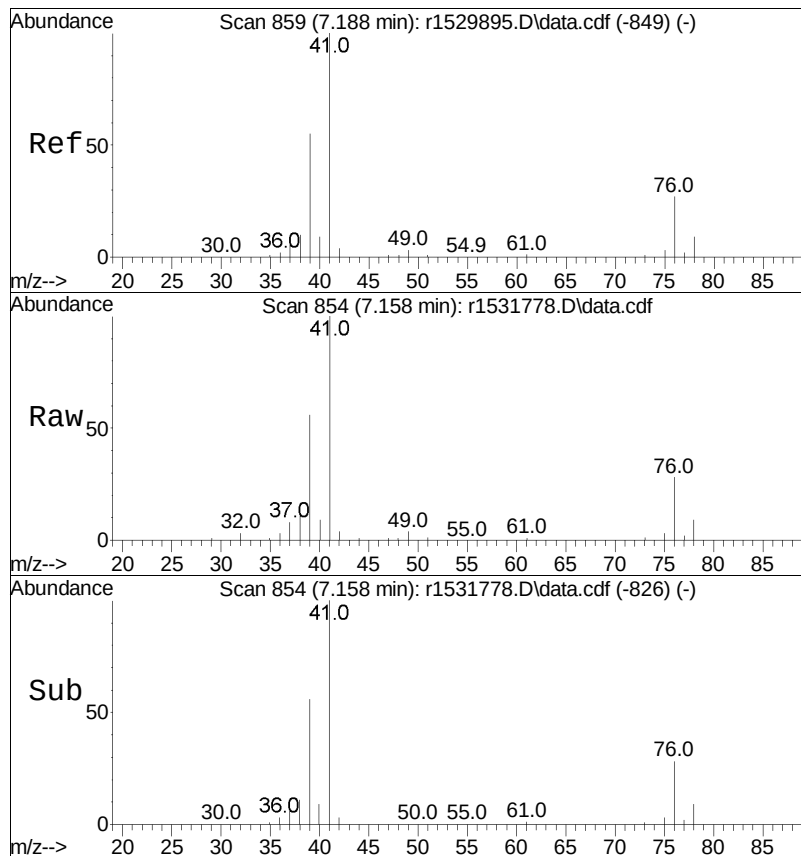




#28
 methylene chloride
 Concen: 9.66 ppbV
 RT: 7.02 min Scan# 831
 Delta R.T. -0.024 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

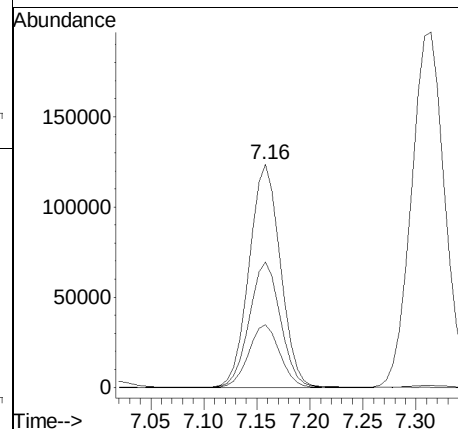
Tgt Ion:	49	84	Ratio	100	66.8	Resp:	173067	Lower	54.5	Upper	81.7
Ion	49	84	Ratio	100	66.8	Resp:	173067	Lower	54.5	Upper	81.7

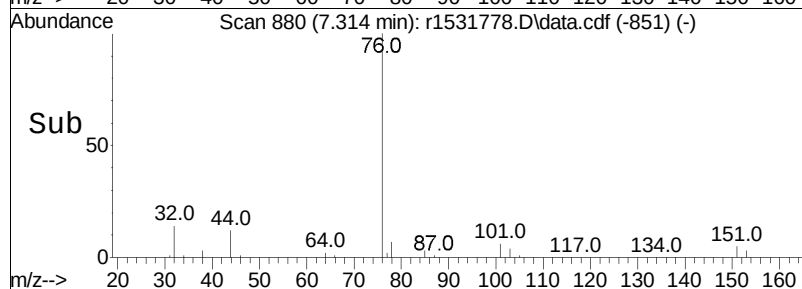
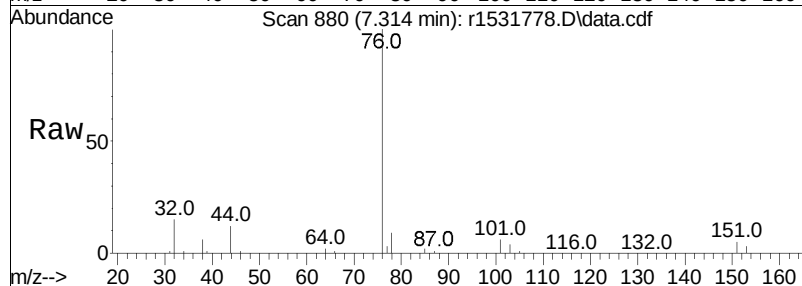
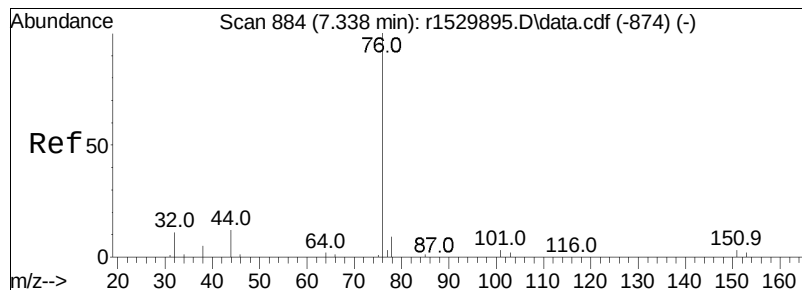




#29
 3-chloropropene
 Concen: 10.94 ppbV
 RT: 7.16 min Scan# 854
 Delta R.T. -0.030 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

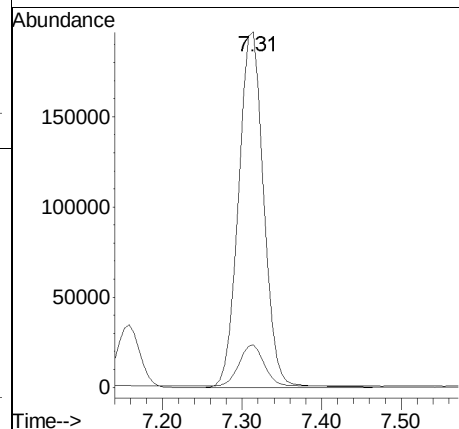
Tgt	Ion: 41	Resp: 253320
Ion	Ratio	Lower Upper
41	100	
39	56.2	44.4 66.6
76	28.1	21.8 32.6

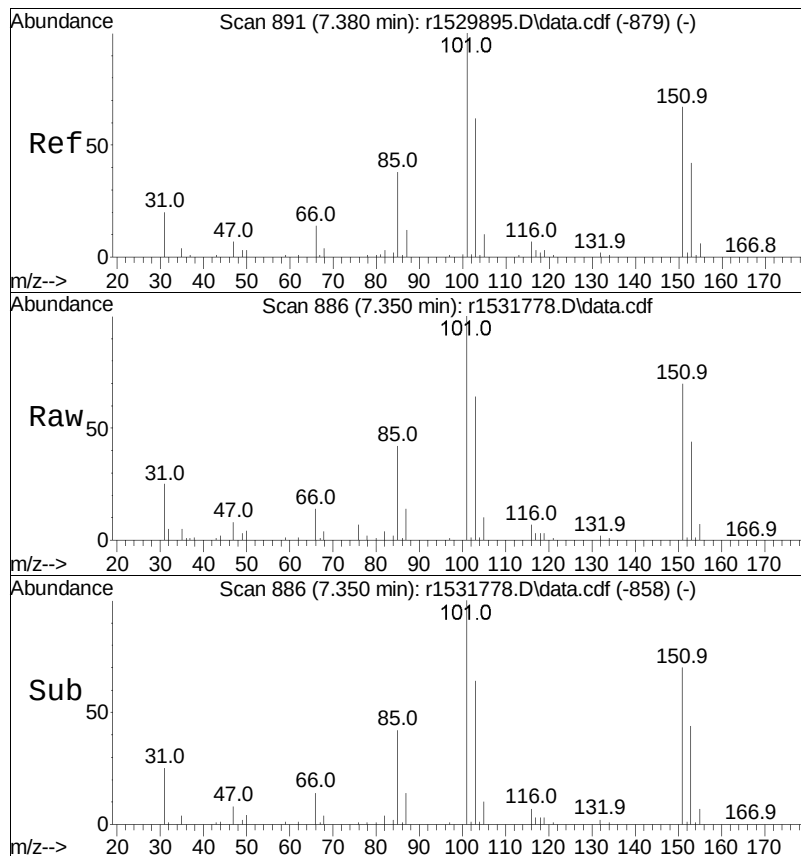




#30
carbon disulfide
Concen: 11.66 ppbV
RT: 7.31 min Scan# 880
Delta R.T. -0.024 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

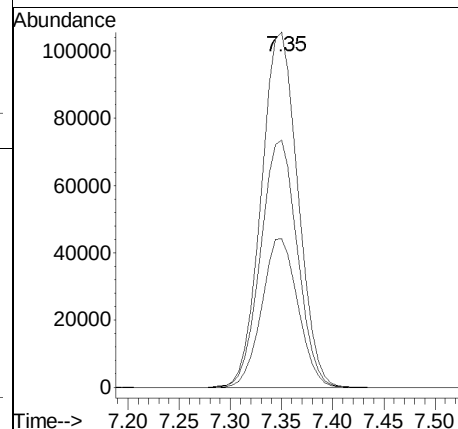
Tgt Ion	Ratio	Lower	Upper
76	100		
44	12.0	10.1	15.1

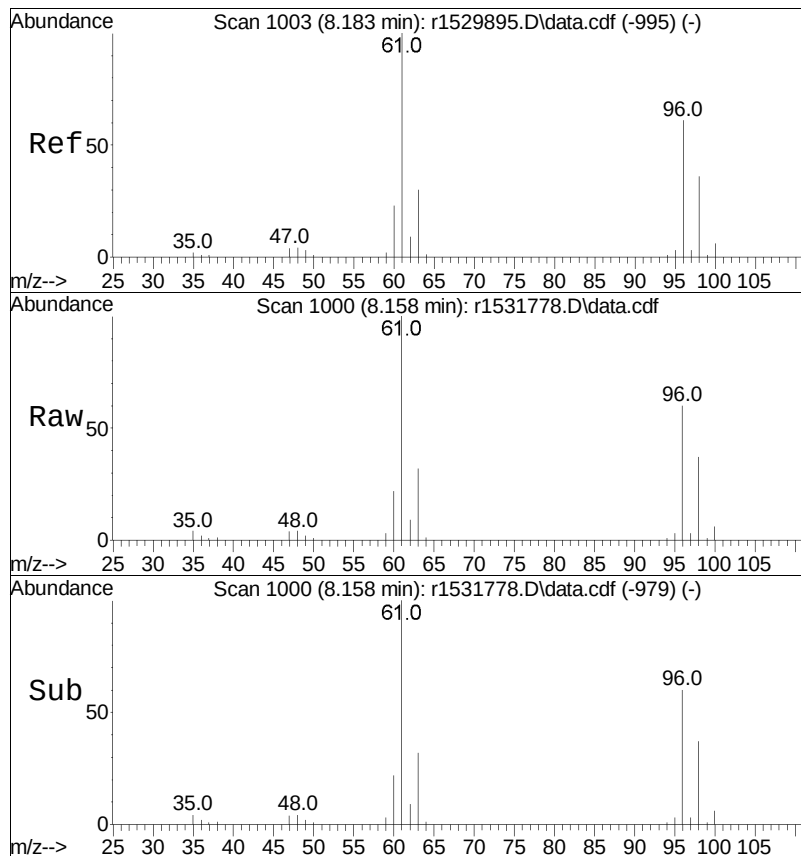




#31
 Freon 113
 Concen: 9.64 ppbV
 RT: 7.35 min Scan# 886
 Delta R.T. -0.030 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

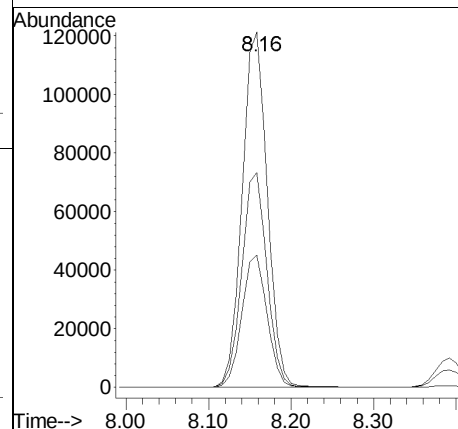
Tgt	Ion:101	Resp:	263159
Ion	Ratio	Lower	Upper
101	100		
85	41.8	30.6	46.0
151	69.6	53.5	80.3

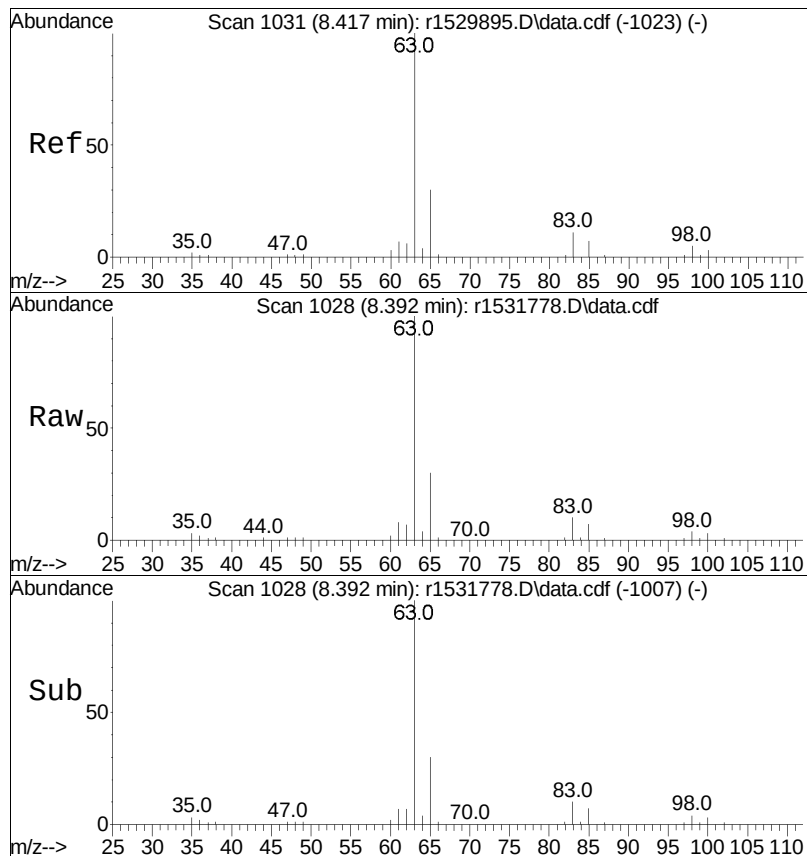




#32
 trans-1,2-dichloroethene
 Concen: 8.78 ppbV
 RT: 8.16 min Scan# 1000
 Delta R.T. -0.025 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

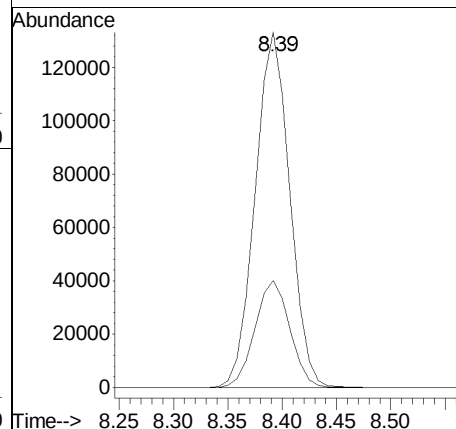
Tgt Ion:	61	Resp:	257745
Ion Ratio	Lower	Upper	
61	100		
96	60.5	49.0	73.4
98	37.2	28.9	43.3

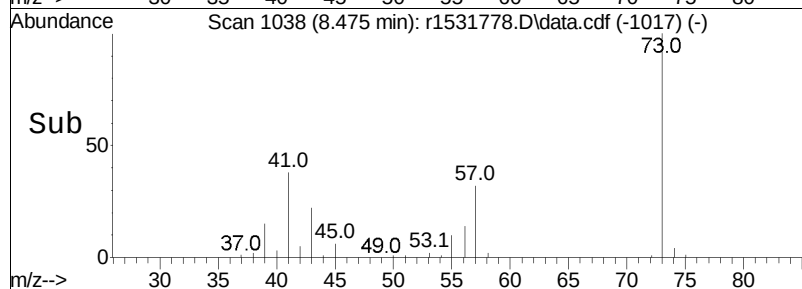
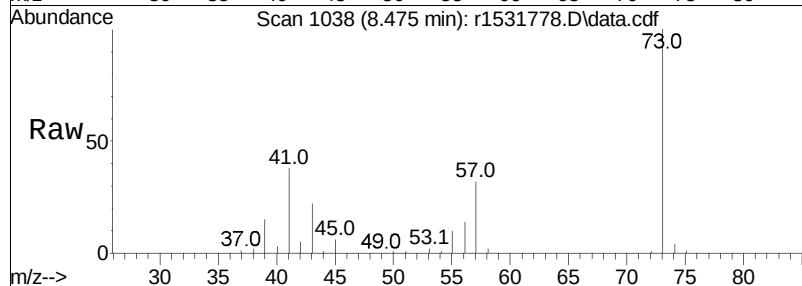
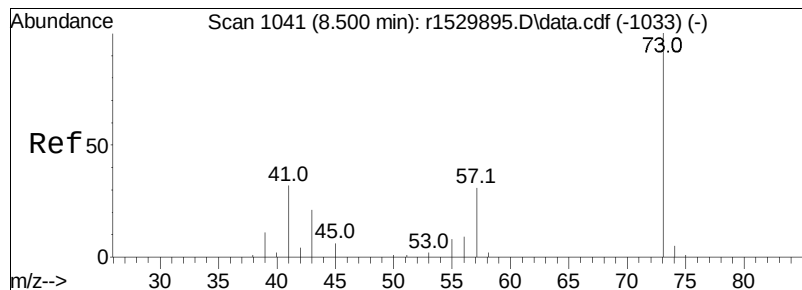




#33
 1,1-dichloroethane
 Concen: 8.60 ppbV
 RT: 8.39 min Scan# 1028
 Delta R.T. -0.025 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

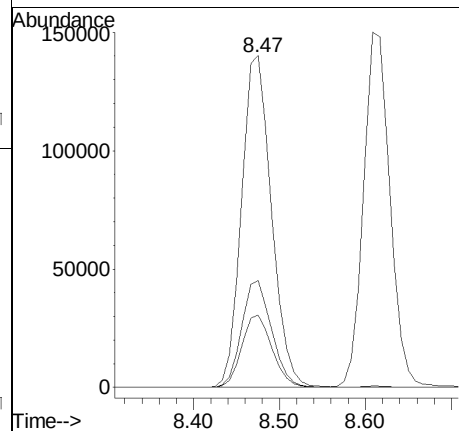
Tgt	Ion	Ratio	Lower	Upper
63	100			
65	30.1	24.2	36.2	

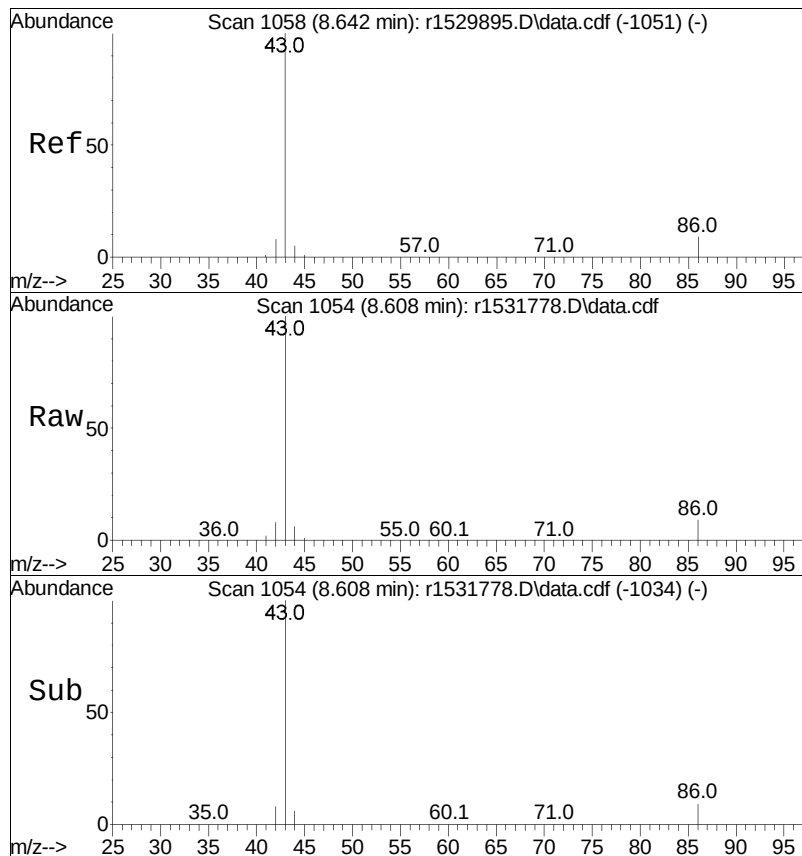




#34
MTBE
Concen: 8.52 ppbV
RT: 8.47 min Scan# 1038
Delta R.T. -0.025 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

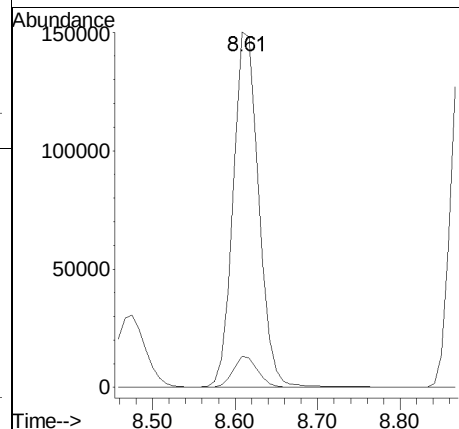
Tgt Ion	Ratio	Lower	Upper
73	100		
57	32.2	25.1	37.7
43	21.8	17.0	25.6

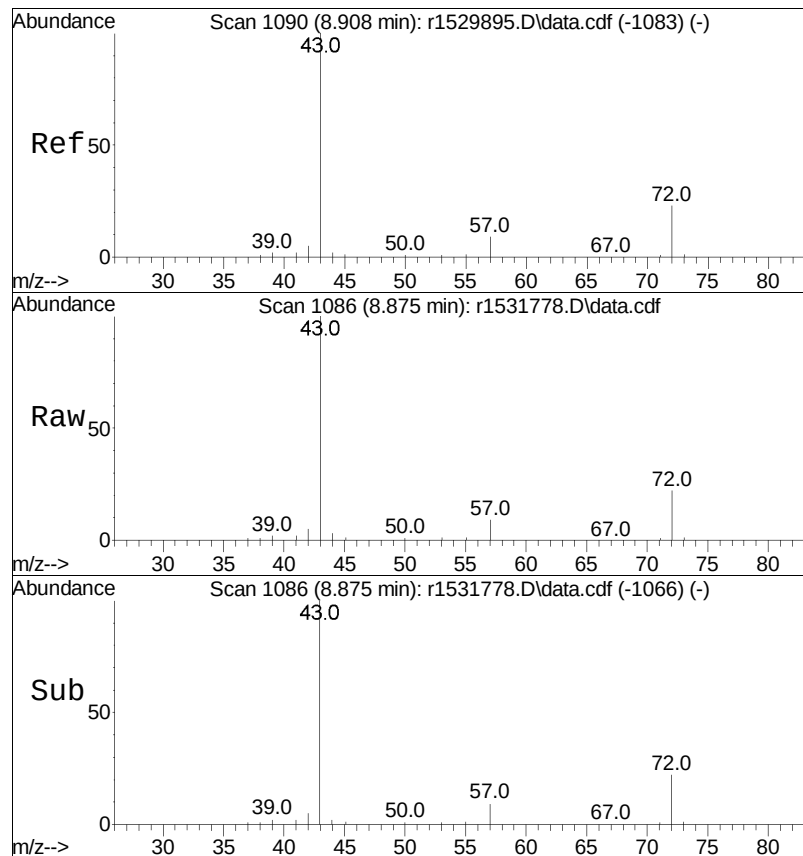




#35
 vinyl acetate
 Concen: 8.85 ppbV
 RT: 8.61 min Scan# 1054
 Delta R.T. -0.033 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

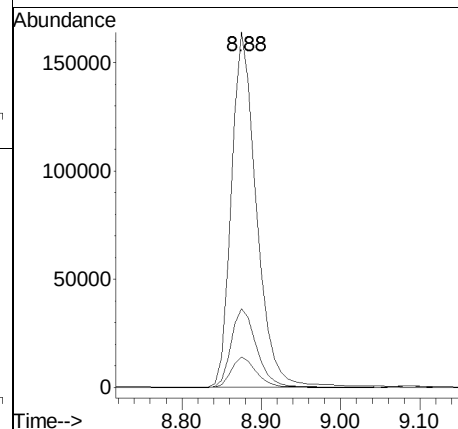
Tgt Ion	Ratio	Lower	Upper
43	100		
86	8.8	7.0	10.6

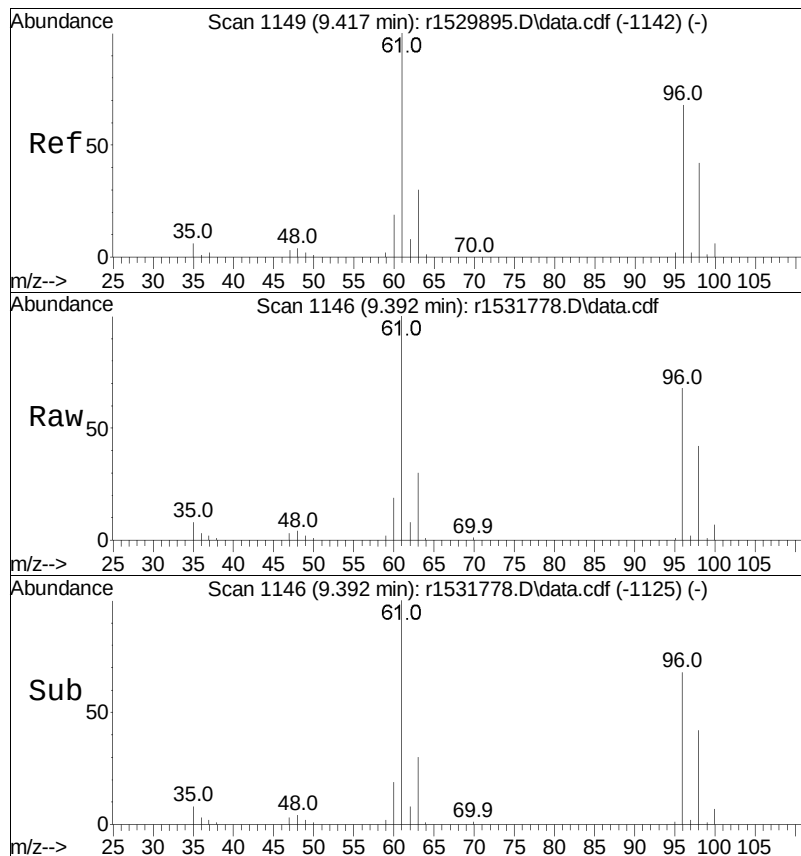




#36
 2-butanone
 Concen: 9.20 ppbV
 RT: 8.88 min Scan# 1086
 Delta R.T. -0.033 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

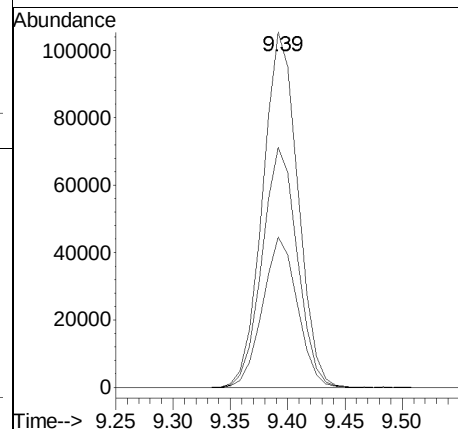
Tgt Ion:	43	72	57	Resp:	358733
Ion Ratio	100	22.2	8.6	Lower	Upper
		18.0	7.0		

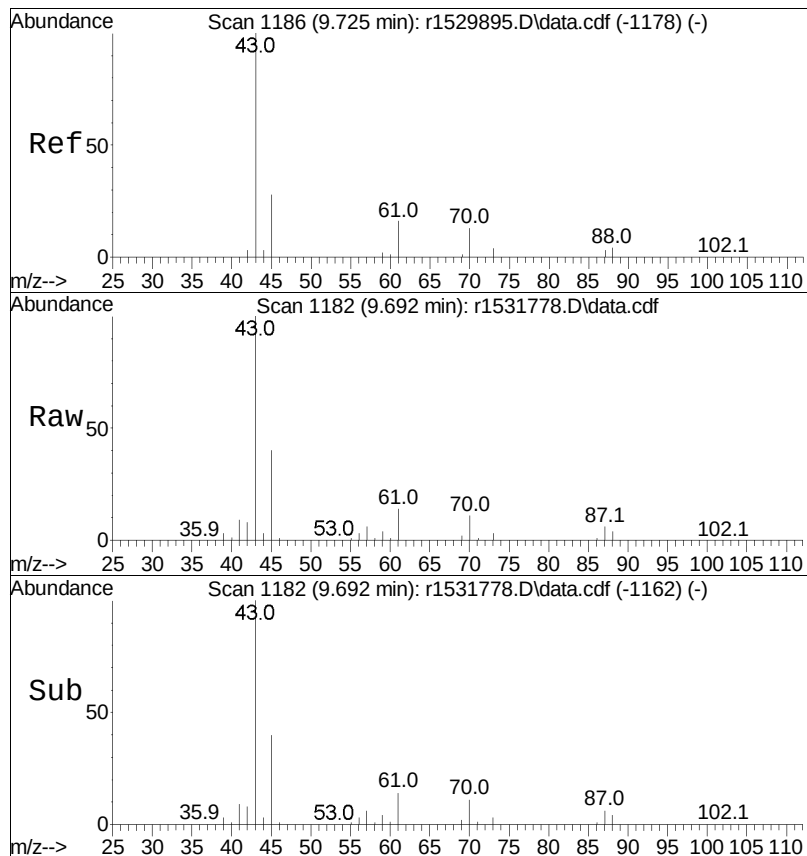




#37
 cis-1,2-dichloroethene
 Concen: 8.29 ppbV
 RT: 9.39 min Scan# 1146
 Delta R.T. -0.025 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

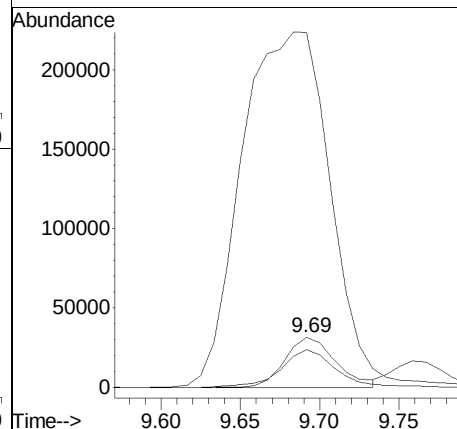
Tgt Ion:	61	Resp:	225336
Ion Ratio	Lower	Upper	
61	100		
96	67.5	54.2	81.2
98	42.3	33.9	50.9

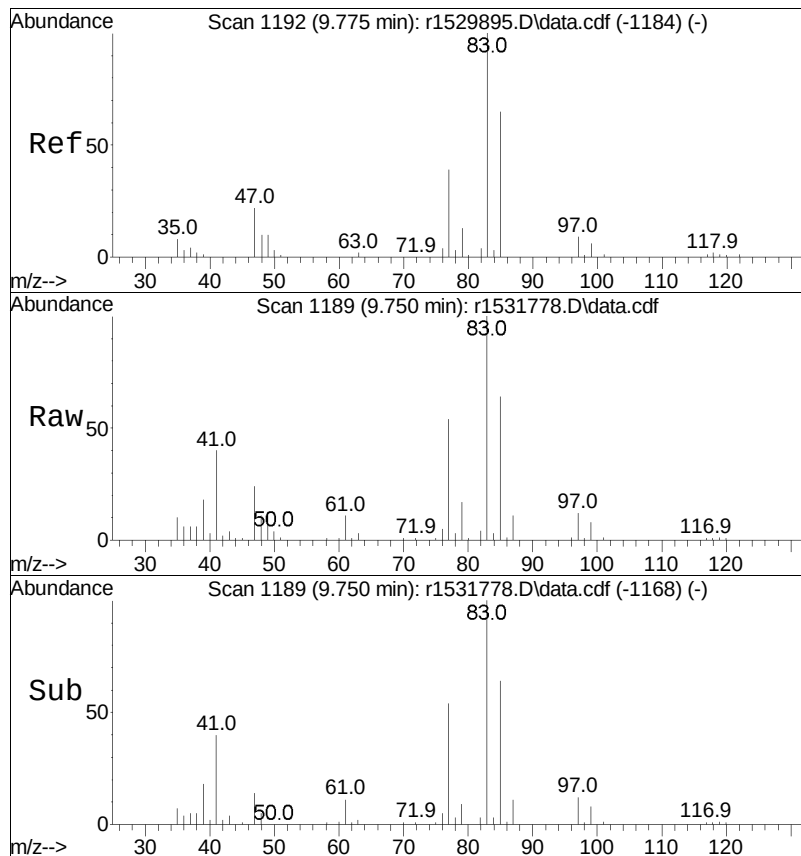




#38
 Ethyl Acetate
 Concen: 10.00 ppbV
 RT: 9.69 min Scan# 1182
 Delta R.T. -0.033 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

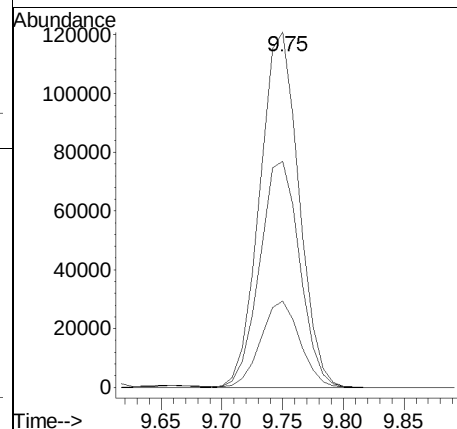
Tgt Ion:	61	Resp:	70648
Ion Ratio	Lower	Upper	
61	100		
70	75.6	62.7	94.1
43	710.4	551.8	827.8

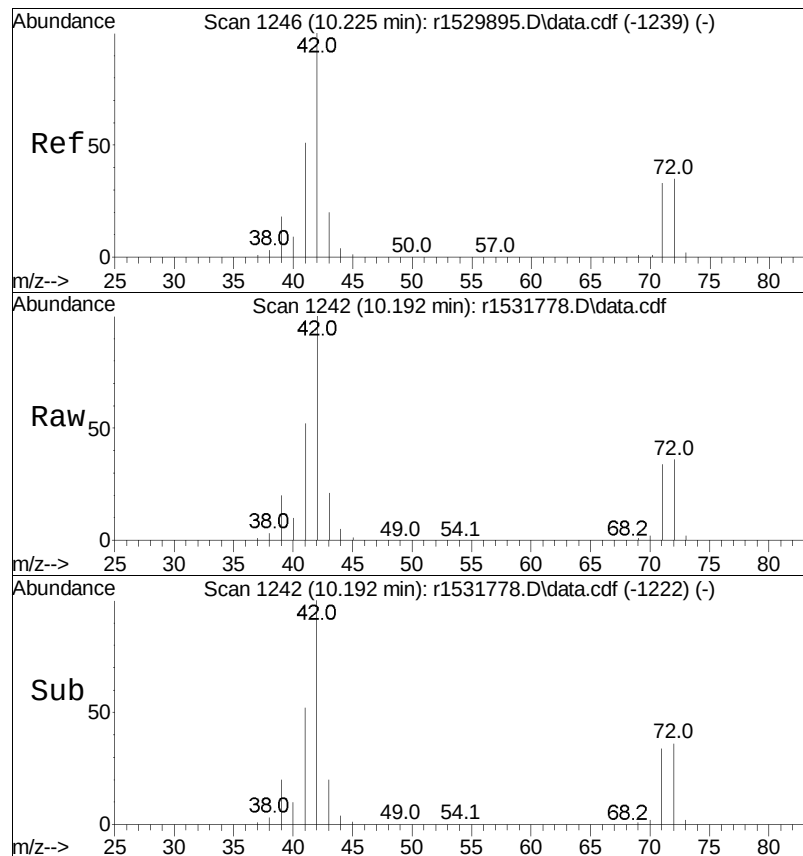




#39
 chloroform
 Concen: 8.37 ppbV
 RT: 9.75 min Scan# 1189
 Delta R.T. -0.025 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

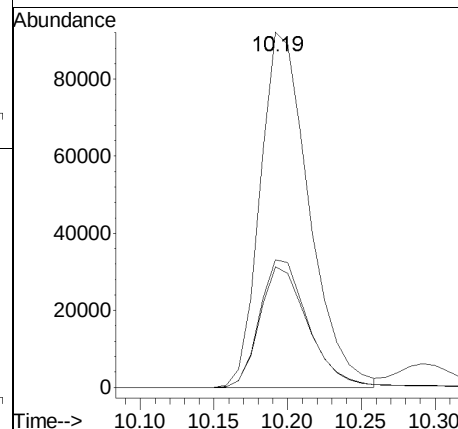
Tgt	Ion: 83	Resp:	270822
Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.8	77.8
47	24.3	17.9	26.9

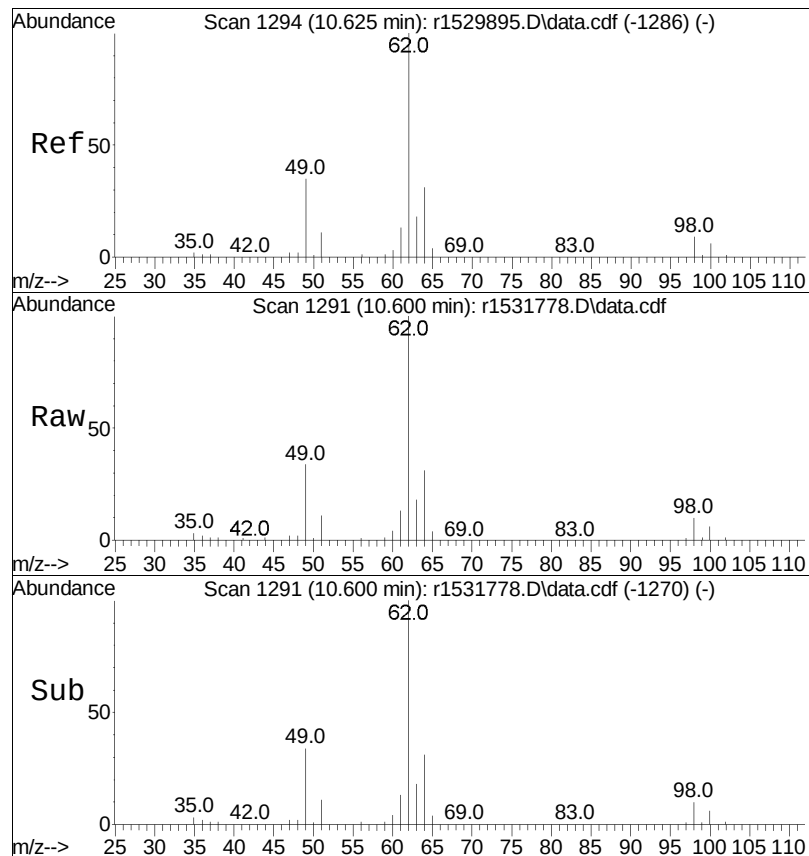




#40
 Tetrahydrofuran
 Concen: 8.75 ppbV
 RT: 10.19 min Scan# 1242
 Delta R.T. -0.033 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

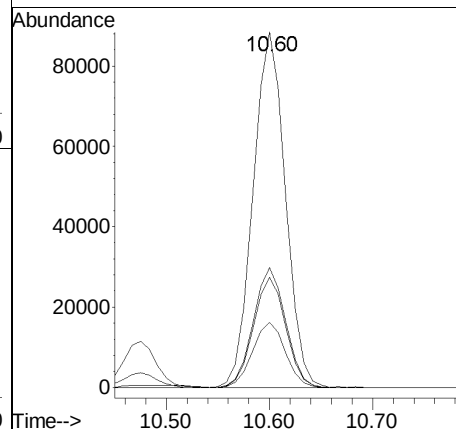
Tgt Ion	Ratio	Lower	Upper
42	100		
71	33.9	26.8	40.2
72	35.9	27.7	41.5

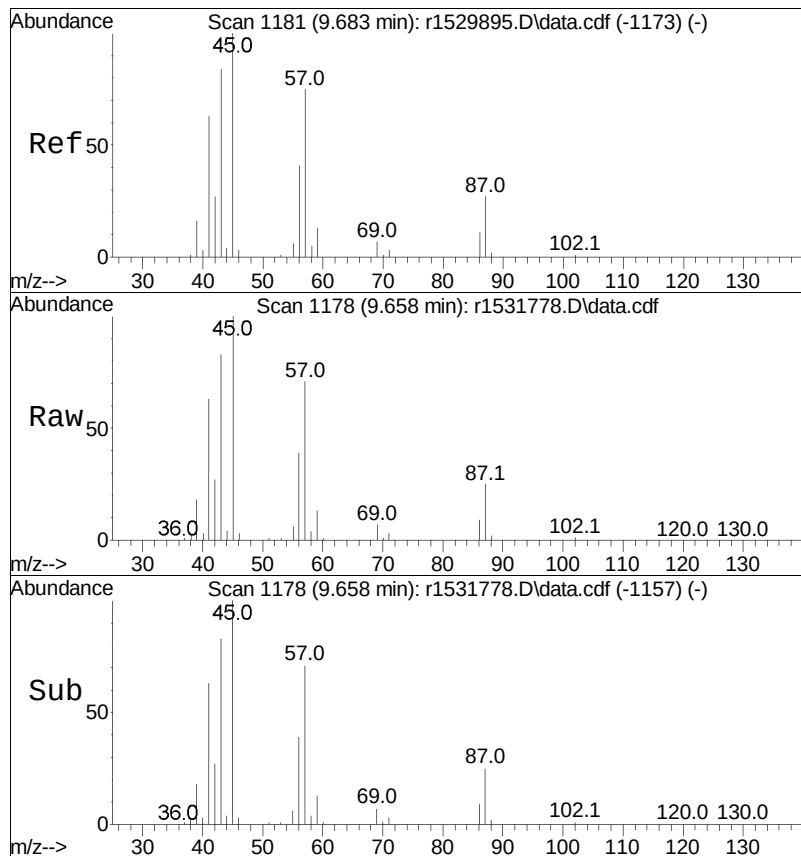




#42
 1,2-dichloroethane
 Concen: 8.26 ppbV
 RT: 10.60 min Scan# 1291
 Delta R.T. -0.025 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

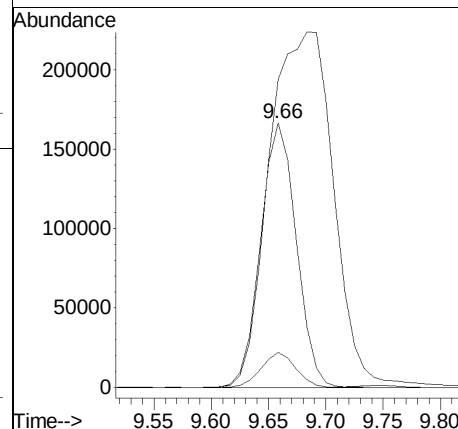
Tgt Ion:	62	Resp:	192043
Ion Ratio	Lower	Upper	
62	100		
64	31.0	25.0	37.4
49	33.7	27.8	41.8
63	18.3	14.4	21.6

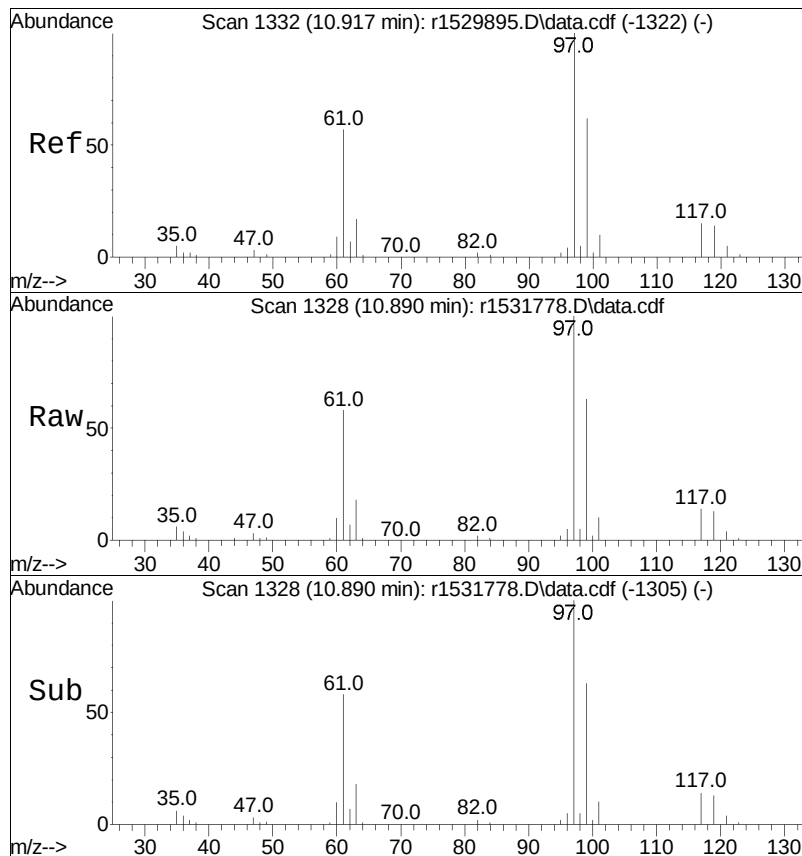




#44
 hexane
 Concen: 9.94 ppbV
 RT: 9.66 min Scan# 1178
 Delta R.T. -0.025 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

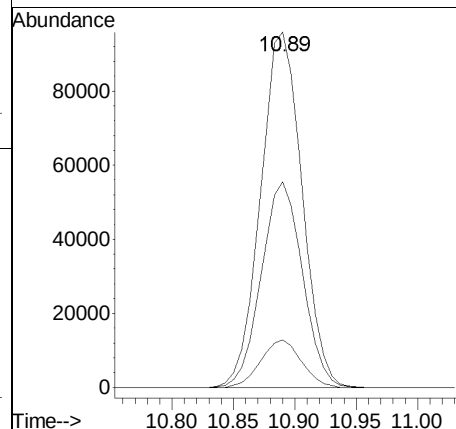
Tgt	Ion: 57	Resp: 360206
Ion	Ratio	Lower Upper
57	100	
43	116.6	88.8 133.2
86	13.3	11.4 17.0

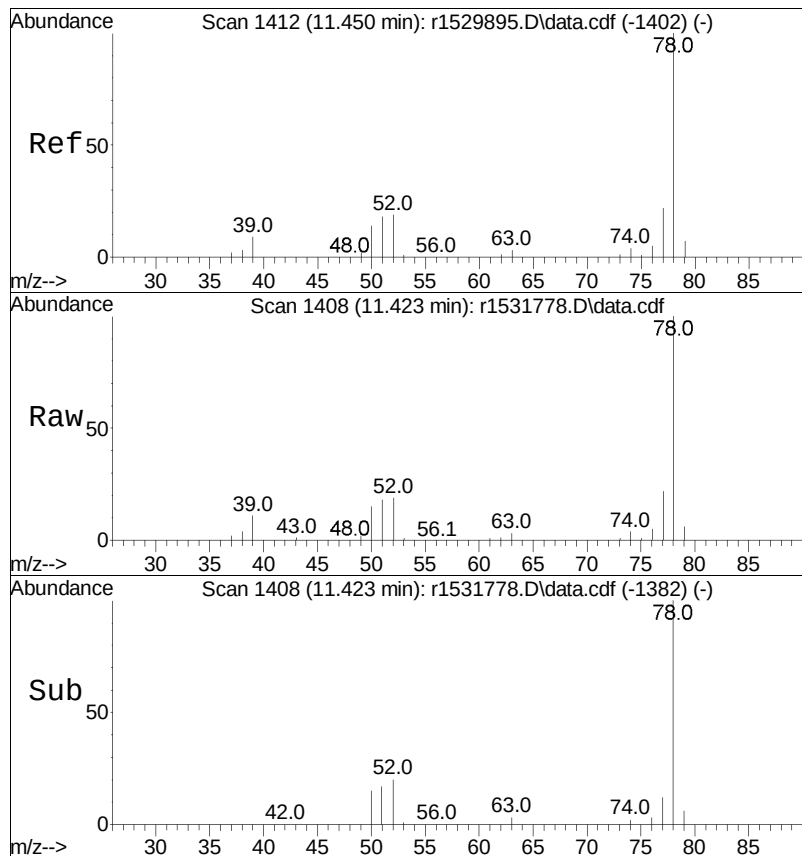




#48
 1,1,1-trichloroethane
 Concen: 9.10 ppbV
 RT: 10.89 min Scan# 1328
 Delta R.T. -0.027 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

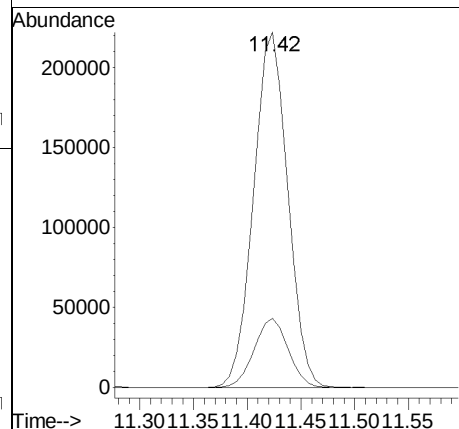
Tgt Ion	Ratio	Lower	Upper
97	100		
61	57.9	45.3	67.9
119	13.4	11.4	17.0

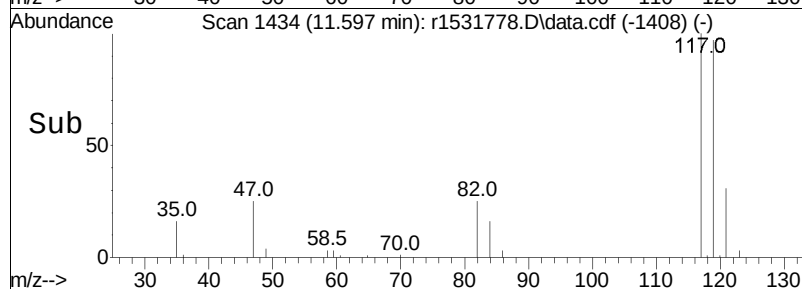
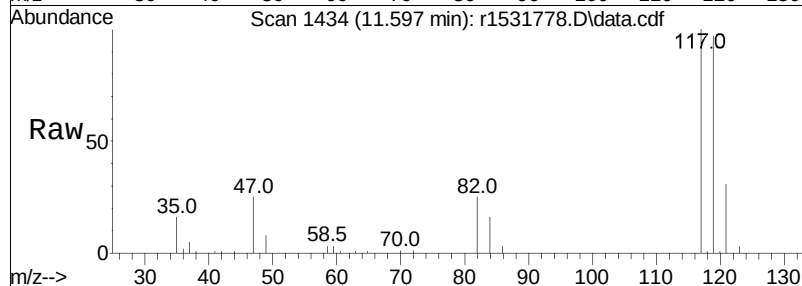
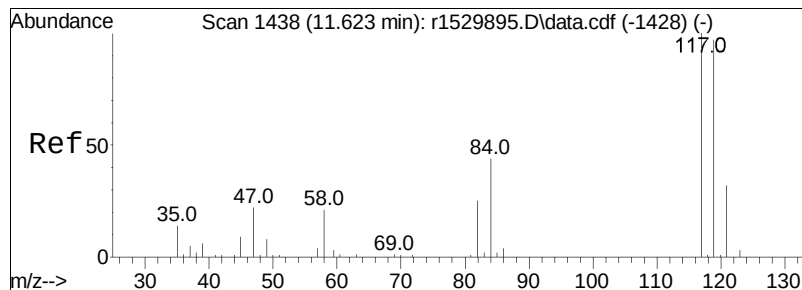




#50
benzene
Concen: 8.14 ppbV
RT: 11.42 min Scan# 1408
Delta R.T. -0.027 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

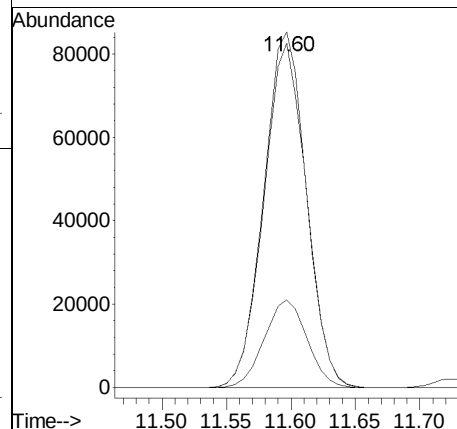
Tgt Ion	Ratio	Lower	Upper
78	100		
52	19.5	15.2	22.8

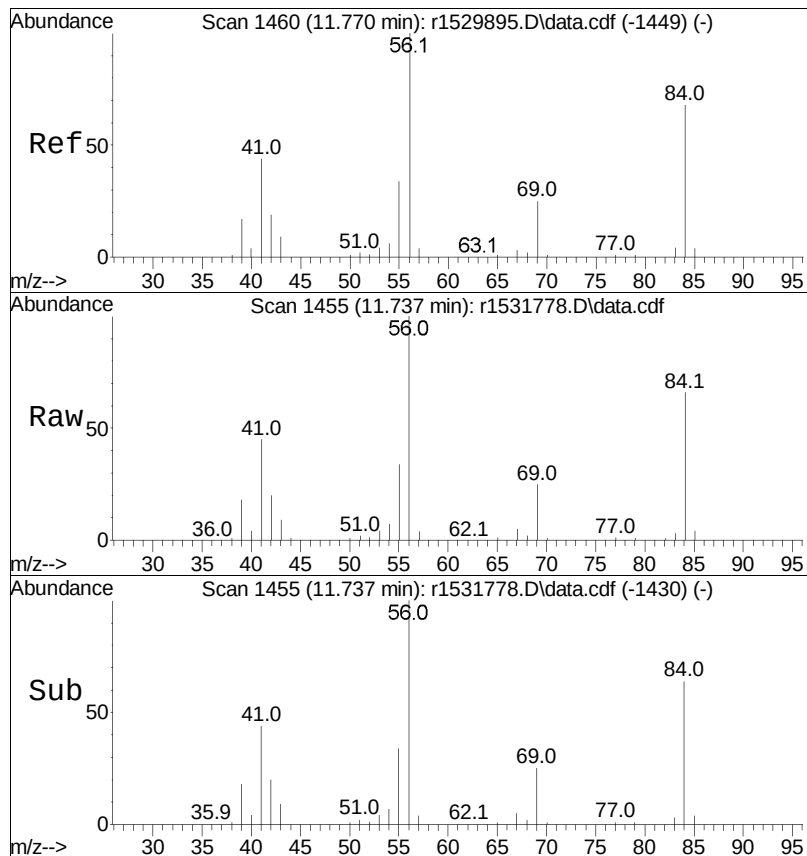




#52
carbon tetrachloride
Concen: 8.96 ppbV
RT: 11.60 min Scan# 1434
Delta R.T. -0.027 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

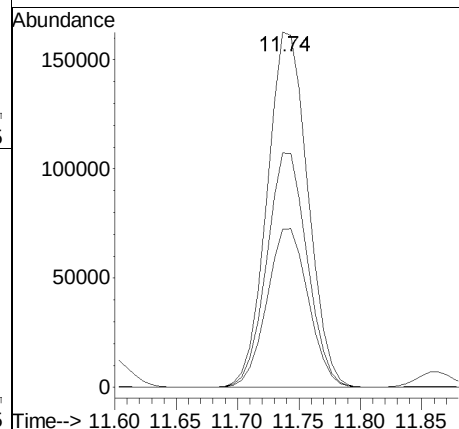
Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.5	116.3
82	24.6	20.0	30.0

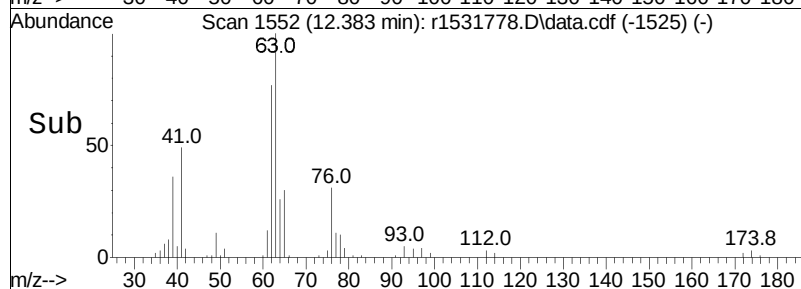
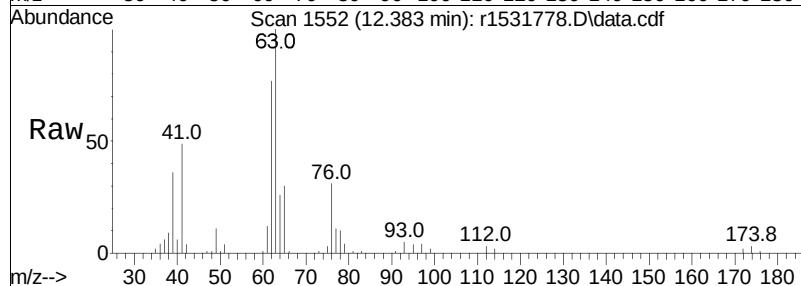
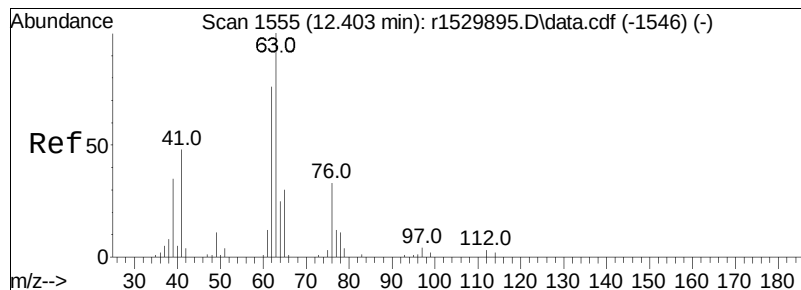




#53
cyclohexane
Concen: 9.69 ppbV
RT: 11.74 min Scan# 1455
Delta R.T. -0.033 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

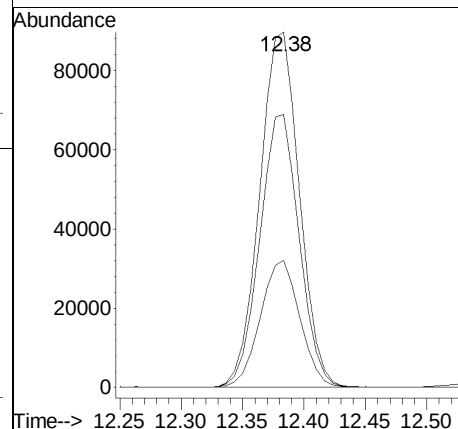
Tgt Ion	Ratio	Lower	Upper
56	100		
84	66.0	54.8	82.2
41	44.5	35.5	53.3

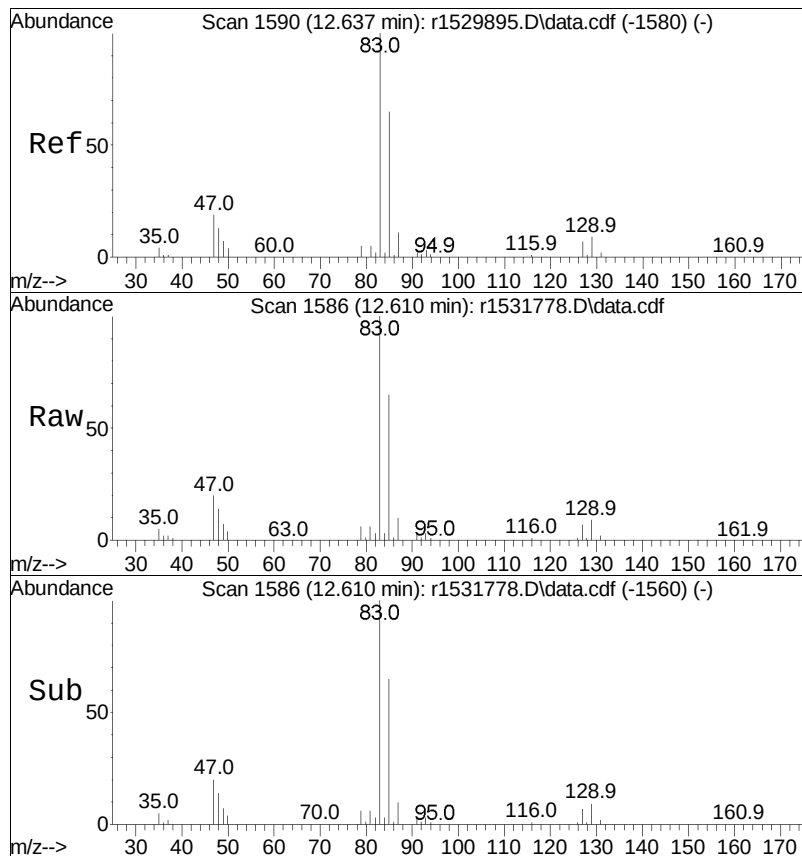




#56
 1,2-dichloropropane
 Concen: 8.96 ppbV
 RT: 12.38 min Scan# 1552
 Delta R.T. -0.020 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

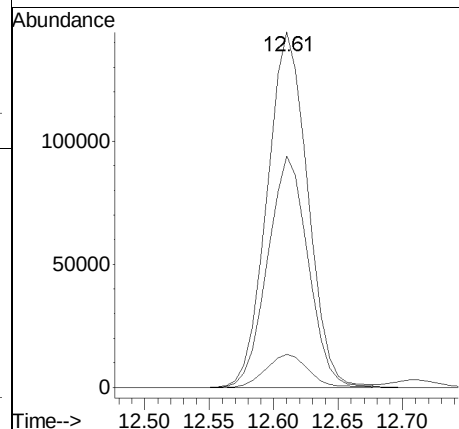
Tgt	Ion: 63	Resp:	201586
Ion	Ratio	Lower	Upper
63	100		
62	76.8	60.6	91.0
39	35.8	27.8	41.6

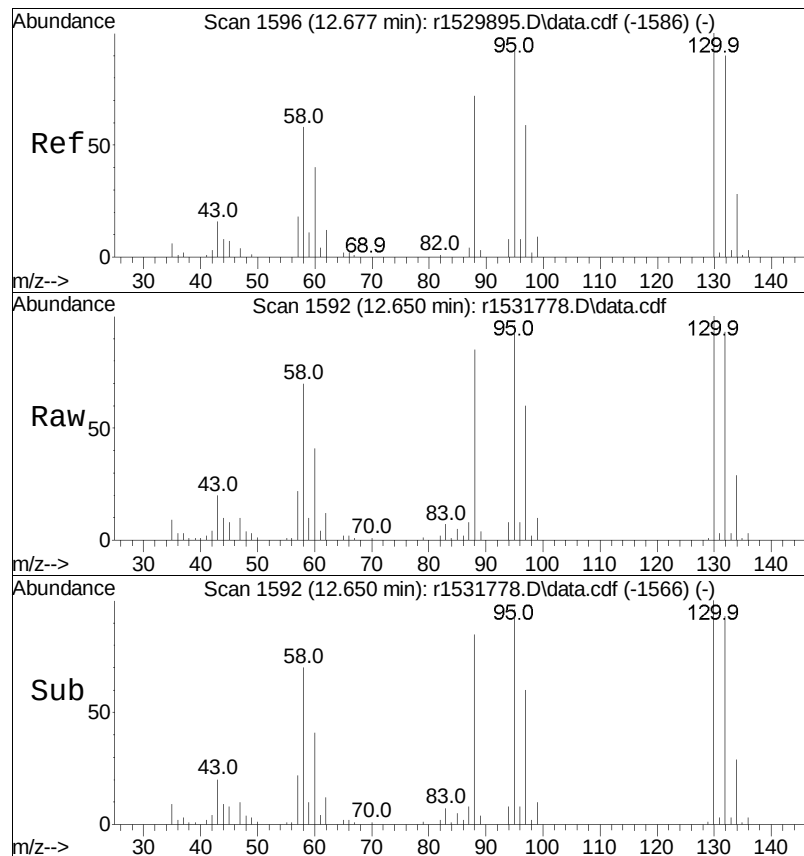




#57
 bromodichloromethane
 Concen: 10.14 ppbV
 RT: 12.61 min Scan# 1586
 Delta R.T. -0.027 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

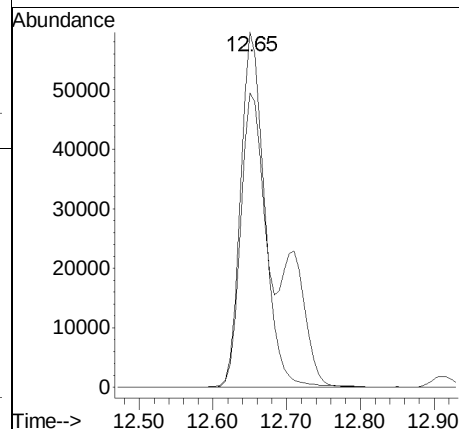
Tgt	Ion: 83	Resp:	315957
Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.2	78.2
129	9.3	7.3	10.9

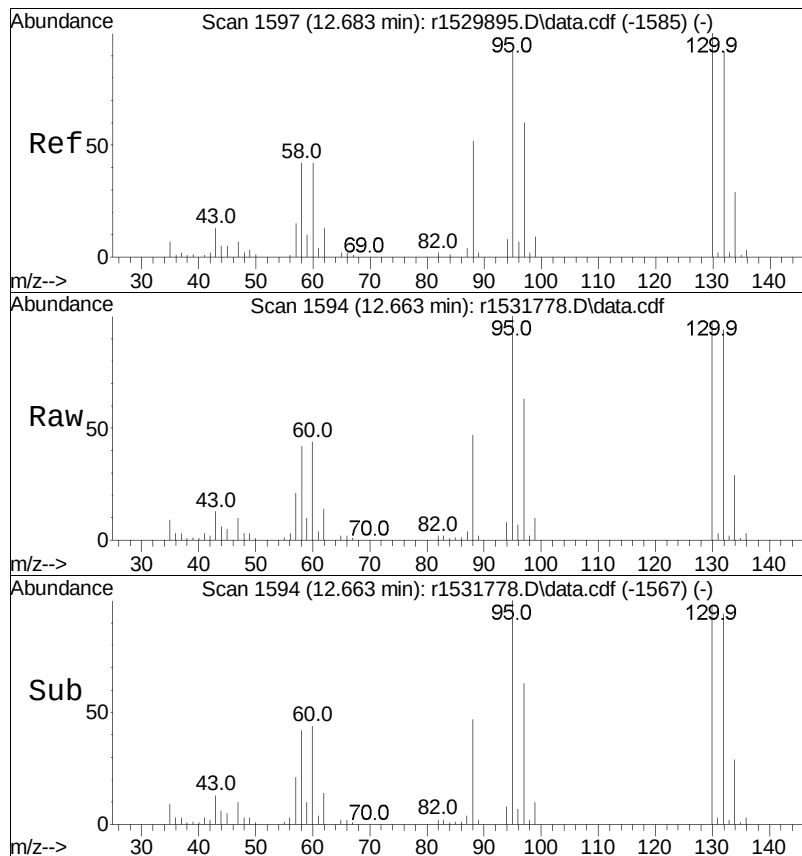




#58
 1,4-dioxane
 Concen: 9.72 ppbV
 RT: 12.65 min Scan# 1592
 Delta R.T. -0.027 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

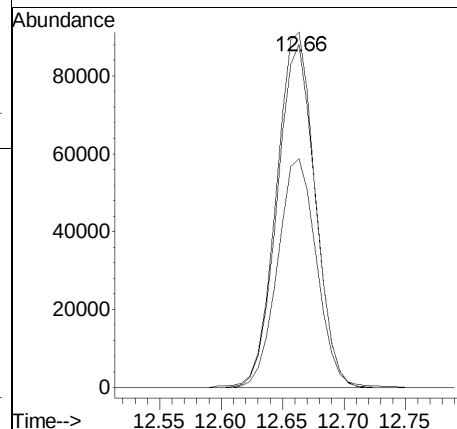
Tgt Ion	Ratio	Lower	Upper
88	100		
58	82.9	64.3	96.5

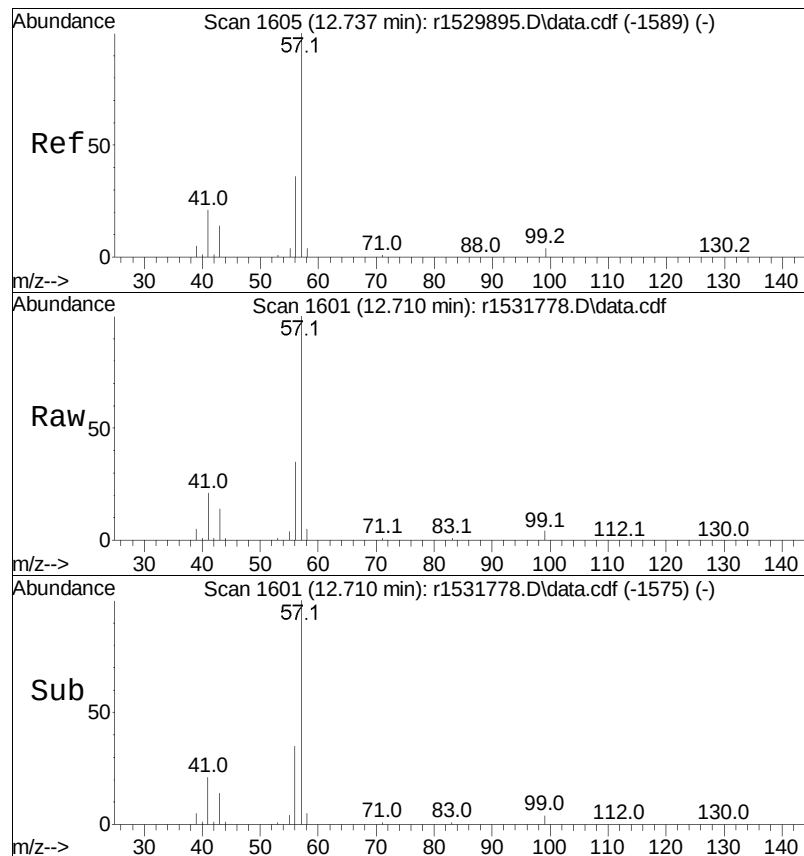




#59
trichloroethene
Concen: 8.81 ppbV
RT: 12.66 min Scan# 1594
Delta R.T. -0.020 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

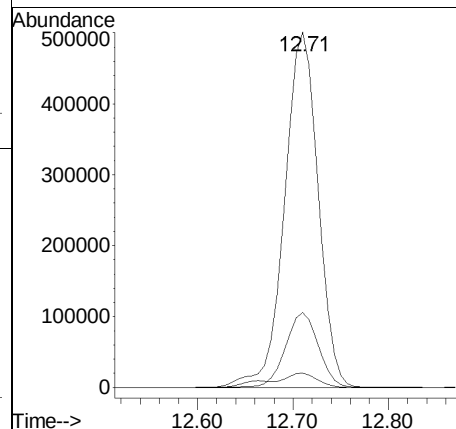
Tgt	Ion:130	Resp:	200079
Ion	Ratio	Lower	Upper
130	100		
132	96.5	73.9	110.9
97	64.4	47.8	71.8

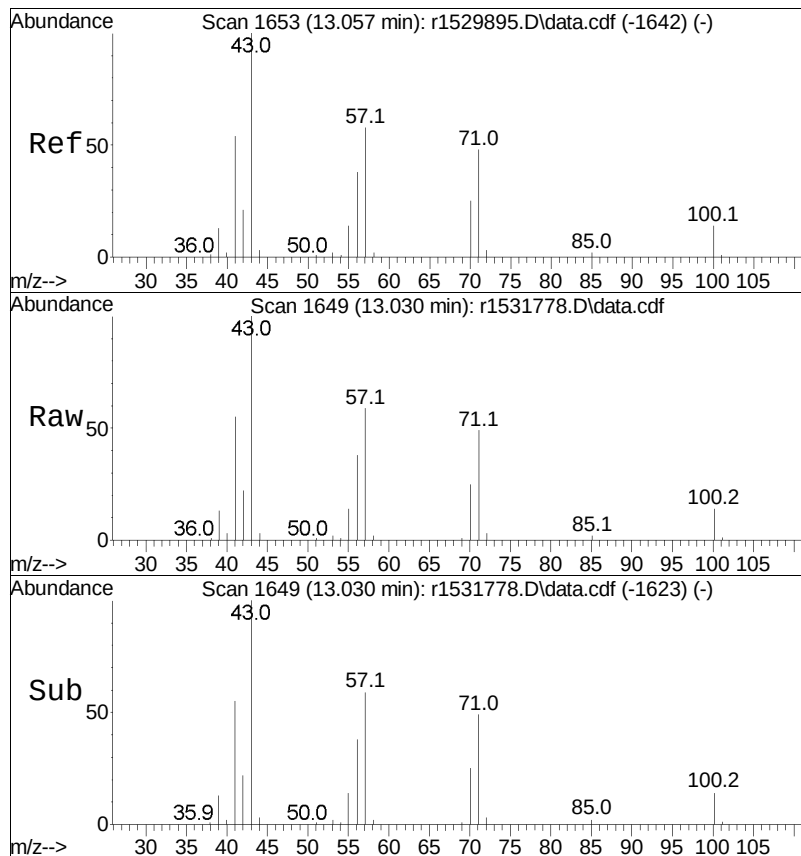




#60
 2,2,4-trimethylpentane
 Concen: 10.20 ppbV
 RT: 12.71 min Scan# 1601
 Delta R.T. -0.027 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

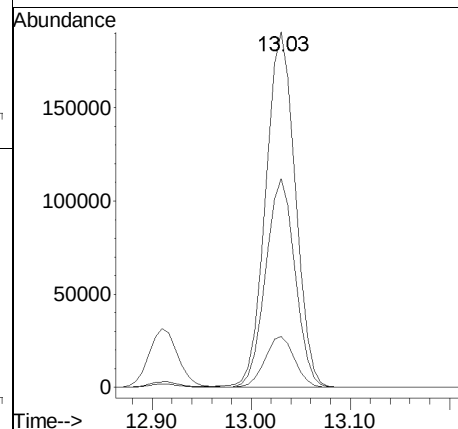
Tgt Ion:	57	Resp:	1225946
Ion Ratio	Lower	Upper	
57	100		
99	4.0	3.1	4.7
41	21.0	16.6	24.8

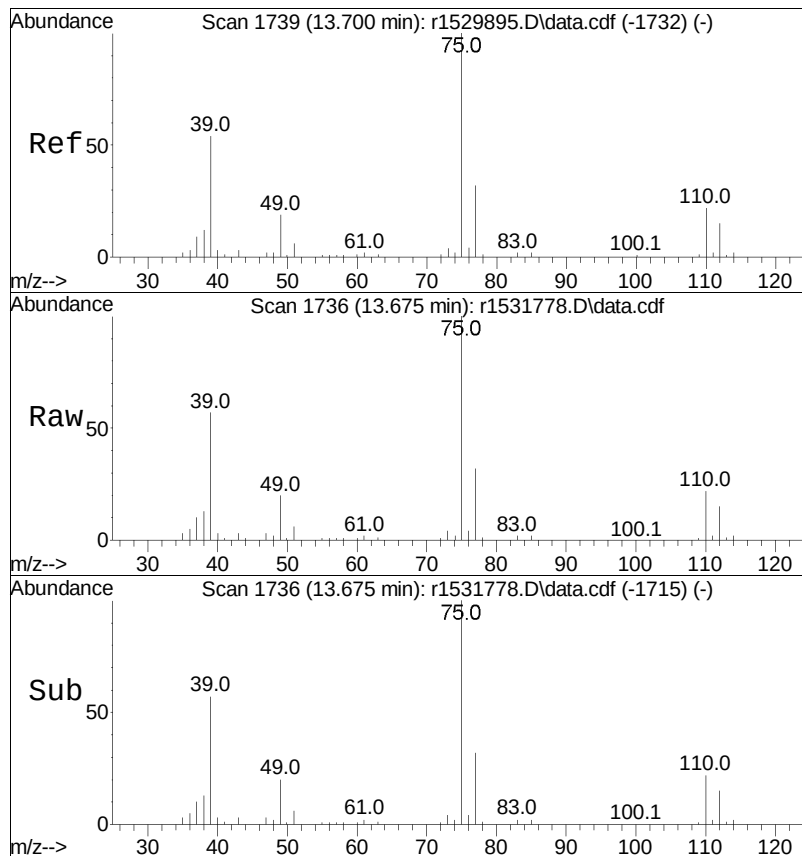




#62
 heptane
 Concen: 9.96 ppbV
 RT: 13.03 min Scan# 1649
 Delta R.T. -0.027 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

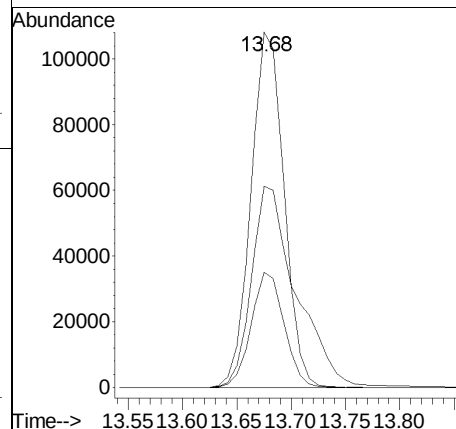
Tgt	Ion: 43	Resp:	396751
Ion	Ratio	Lower	Upper
43	100		
57	58.7	46.5	69.7
100	14.3	11.6	17.4

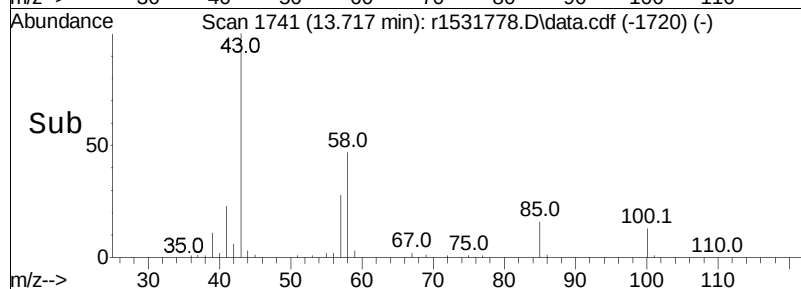
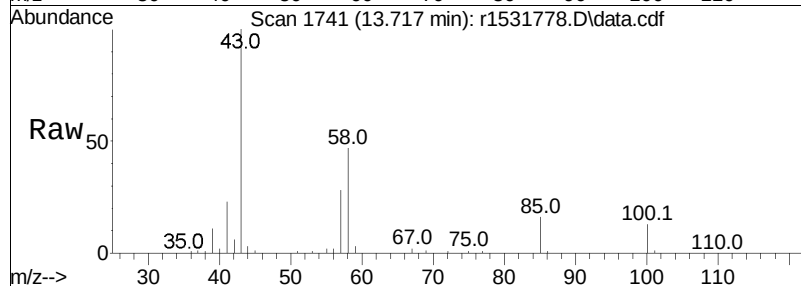
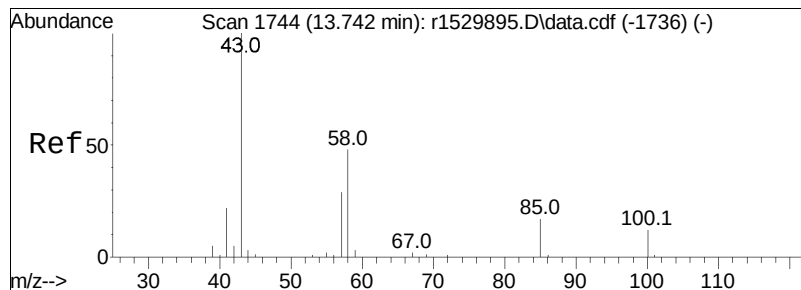




#63
 cis-1,3-dichloropropene
 Concen: 8.98 ppbV
 RT: 13.68 min Scan# 1736
 Delta R.T. -0.025 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

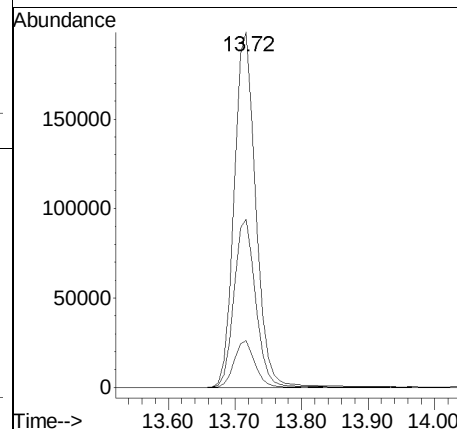
Tgt	Ion: 75	Resp:	228456
Ion	Ratio	Lower	Upper
75	100		
39	56.6	43.2	64.8
77	32.4	25.6	38.4

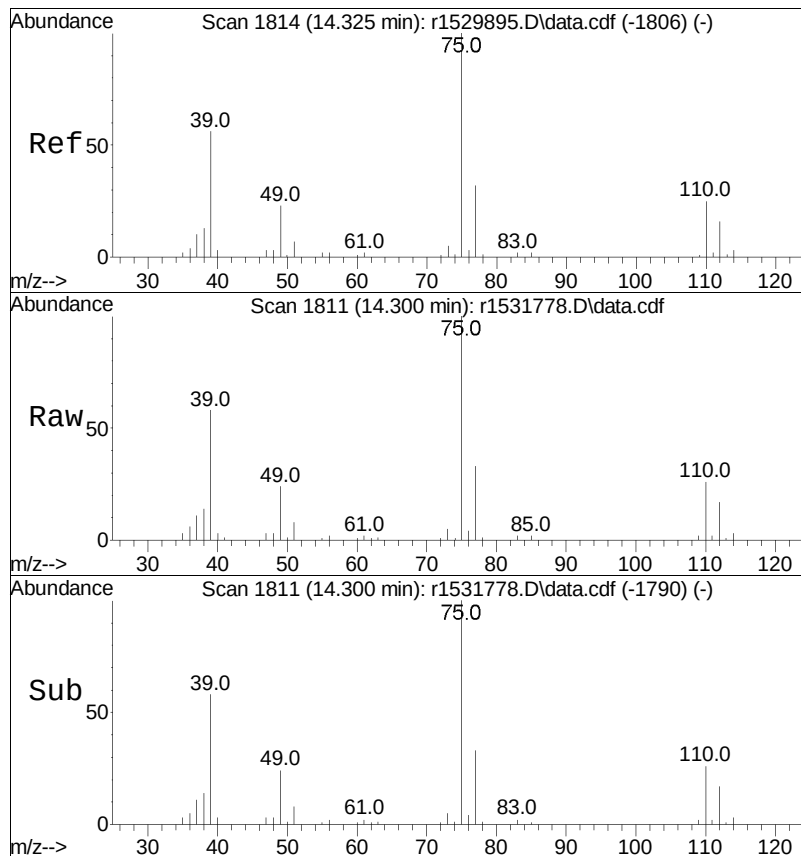




#64
 4-methyl-2-pentanone
 Concen: 10.01 ppbV
 RT: 13.72 min Scan# 1741
 Delta R.T. -0.025 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

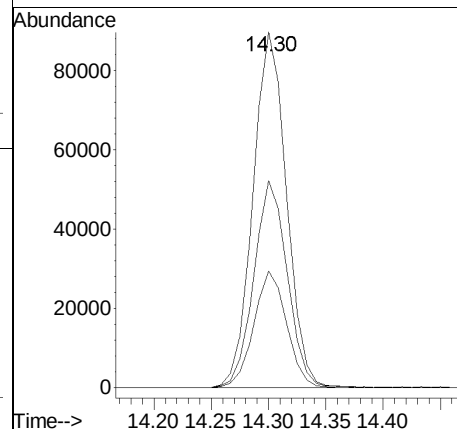
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	47.4	38.6	58.0	
100	13.2	9.9	14.9	

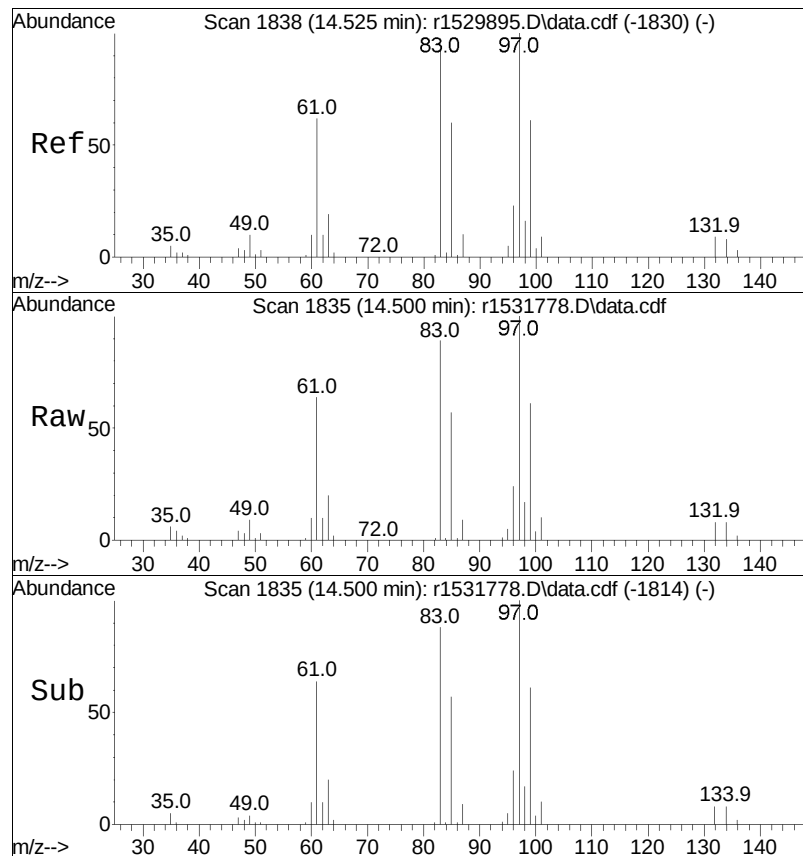




#65
 trans-1,3-dichloropropene
 Concen: 7.77 ppbV
 RT: 14.30 min Scan# 1811
 Delta R.T. -0.025 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

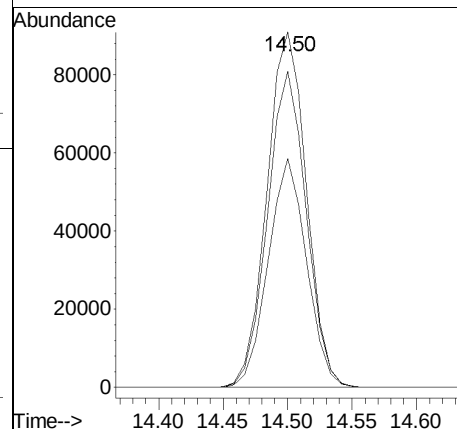
Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.4	38.0
39	58.2	44.5	66.7

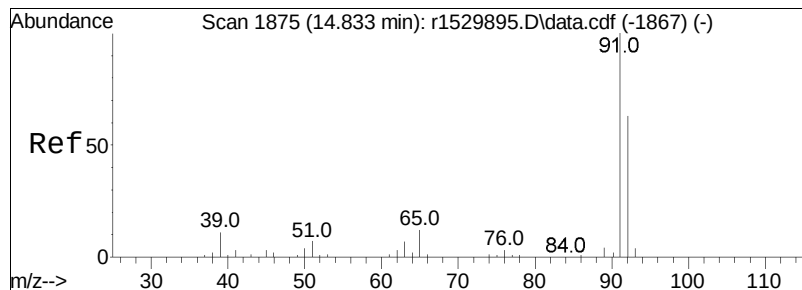




#66
 1,1,2-trichloroethane
 Concen: 9.15 ppbV
 RT: 14.50 min Scan# 1835
 Delta R.T. -0.025 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

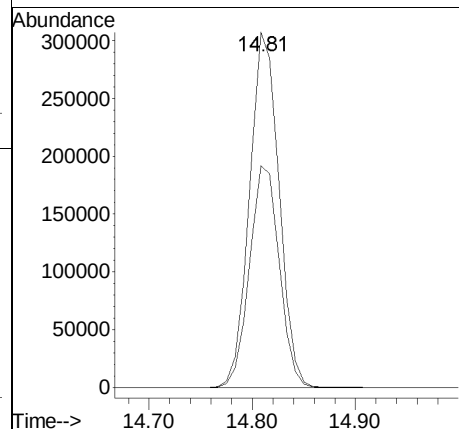
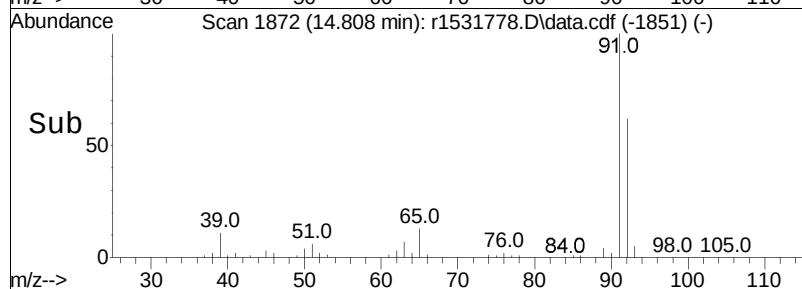
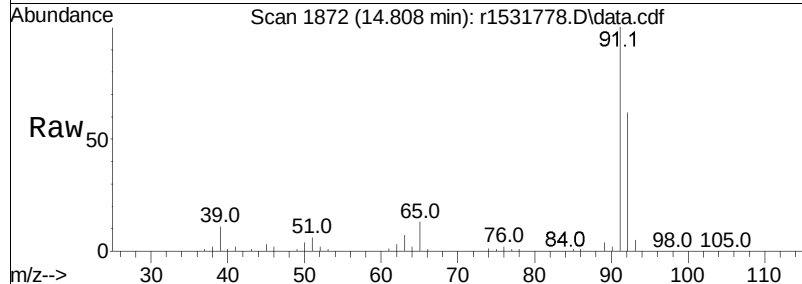
Tgt Ion:	97	Resp:	193890
Ion Ratio	Lower	Upper	
97	100		
83	89.0	74.6	111.8
61	64.4	49.8	74.8

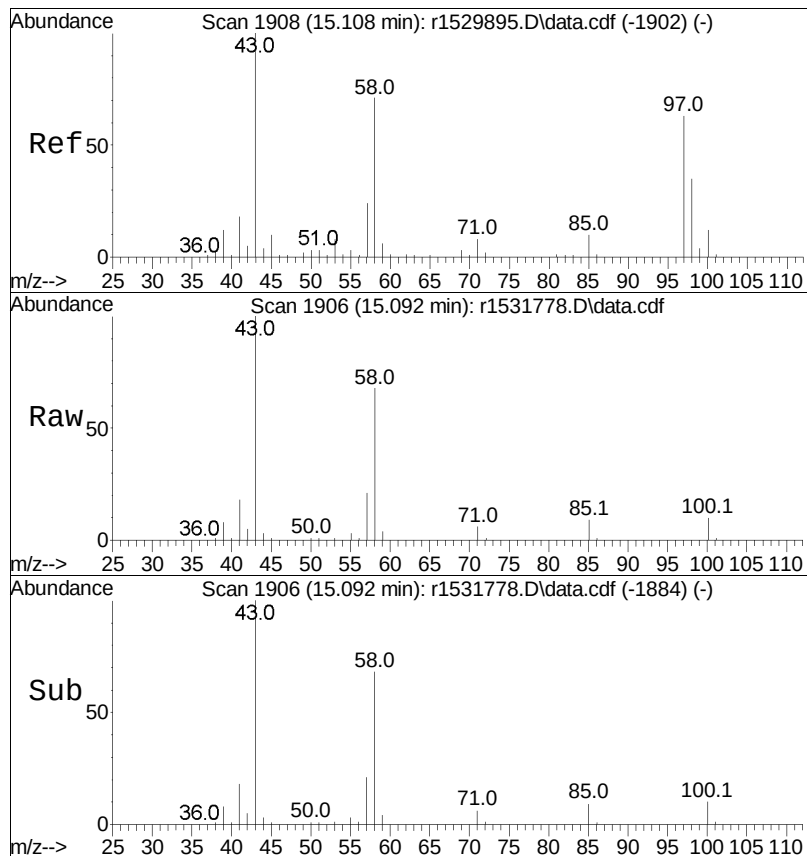




#68
toluene
Concen: 8.16 ppbV
RT: 14.81 min Scan# 1872
Delta R.T. -0.025 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

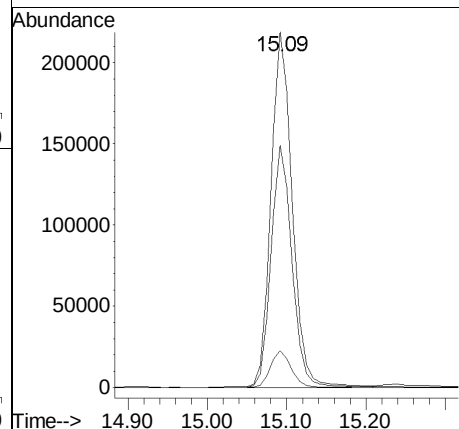
Tgt	Ion	Resp	Lower	Upper
91	100	609621		
92	62.4	50.3	75.5	

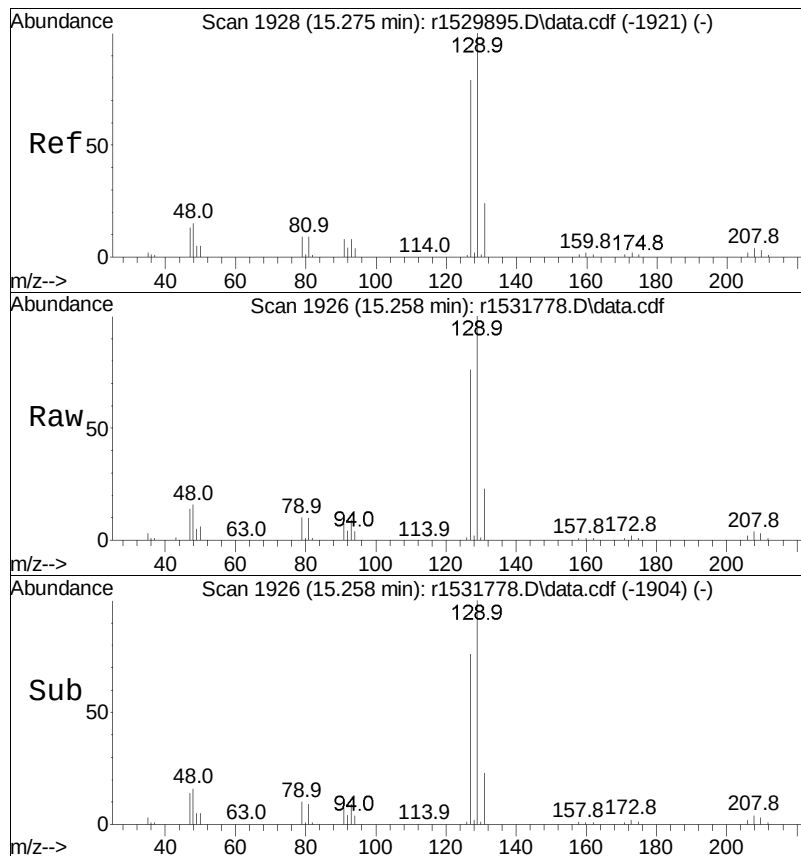




#72
 2-hexanone
 Concen: 9.69 ppbV
 RT: 15.09 min Scan# 1906
 Delta R.T. -0.017 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

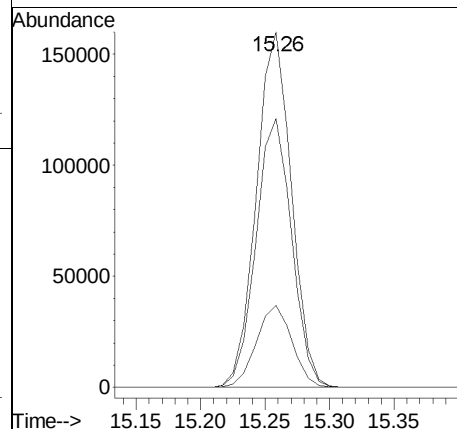
Tgt Ion:	43	58	100	Ratio	Lower	Upper
43	100					
58	68.1	56.6	85.0			
100	10.4	9.8	14.6			

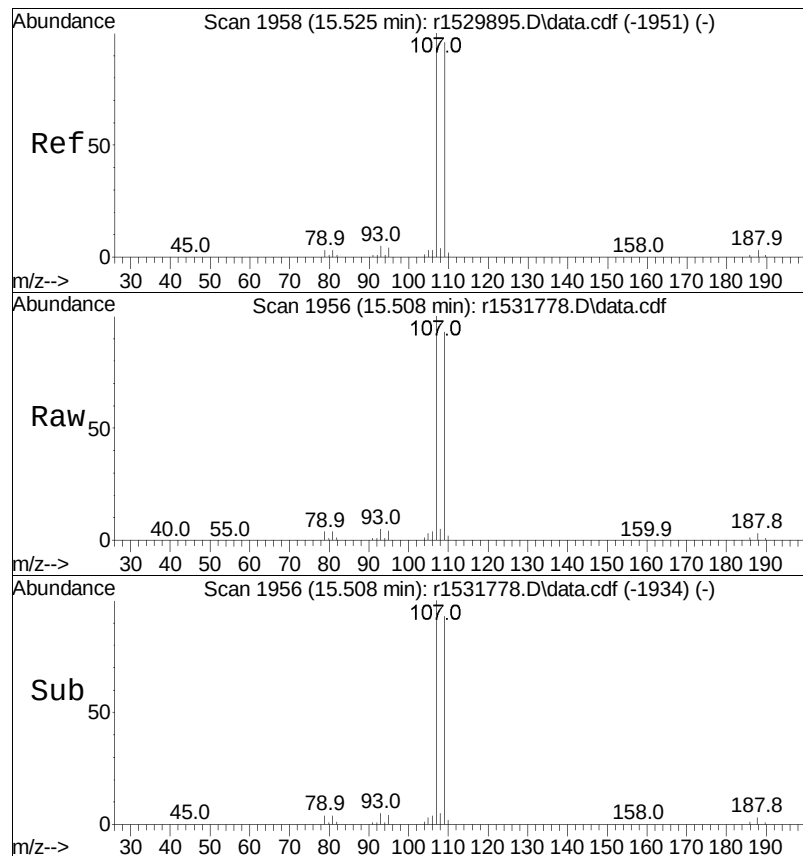




#74
 dibromochloromethane
 Concen: 10.81 ppbV
 RT: 15.26 min Scan# 1926
 Delta R.T. -0.017 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

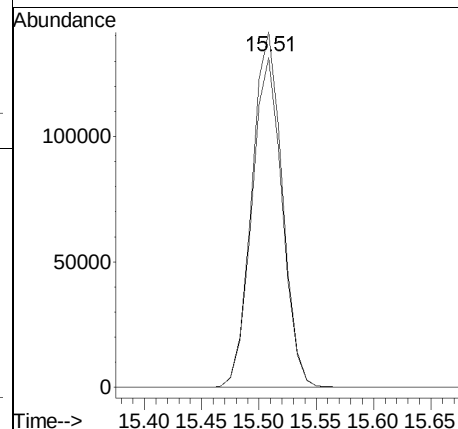
Tgt	Ion:129	Resp:	303200
Ion	Ratio	Lower	Upper
129	100		
127	75.7	63.2	94.8
131	23.1	18.8	28.2

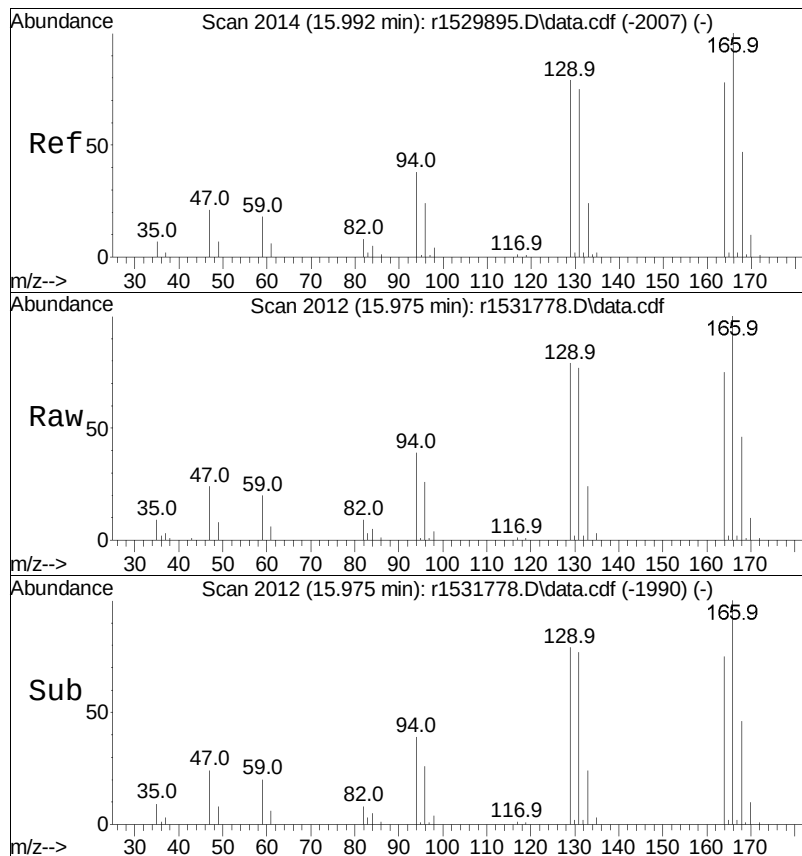




#75
 1,2-dibromoethane
 Concen: 8.88 ppbV
 RT: 15.51 min Scan# 1956
 Delta R.T. -0.017 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

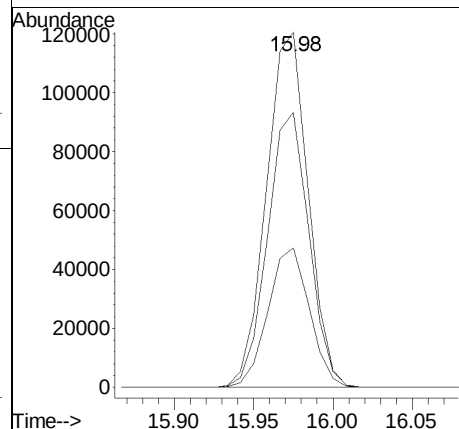
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.8	76.8	115.2

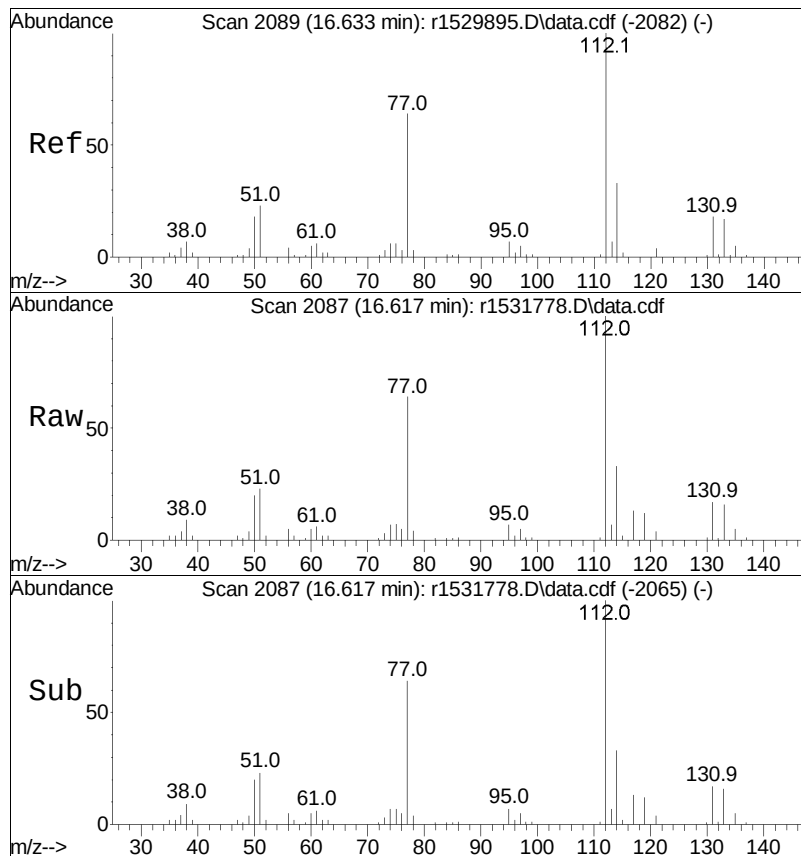




#78
 tetrachloroethene
 Concen: 8.50 ppbV
 RT: 15.98 min Scan# 2012
 Delta R.T. -0.017 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

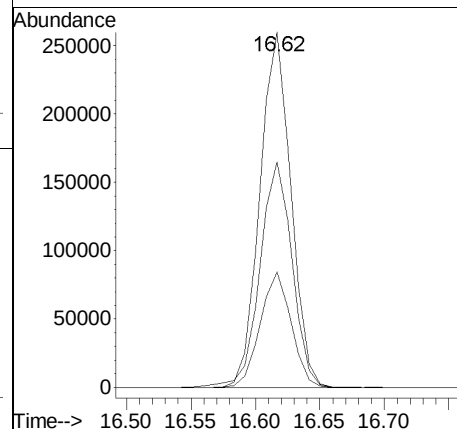
Tgt Ion	Ratio	Lower	Upper
166	100		
131	77.4	59.9	89.9
94	39.3	30.2	45.4

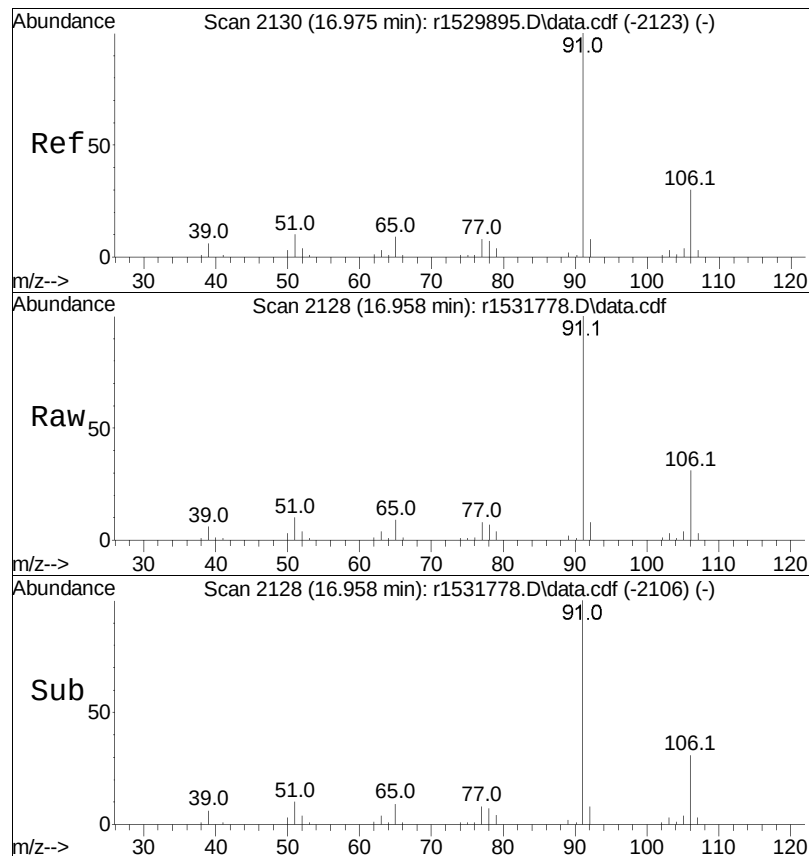




#80
chlorobenzene
Concen: 8.60 ppbV
RT: 16.62 min Scan# 2087
Delta R.T. -0.017 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

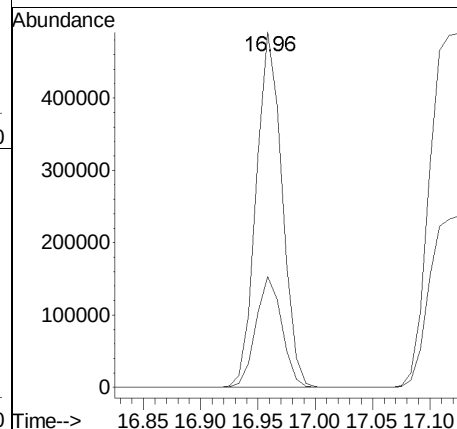
Tgt	Ion:112	Resp:	434345
Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.3	39.5
77	63.5	51.0	76.6

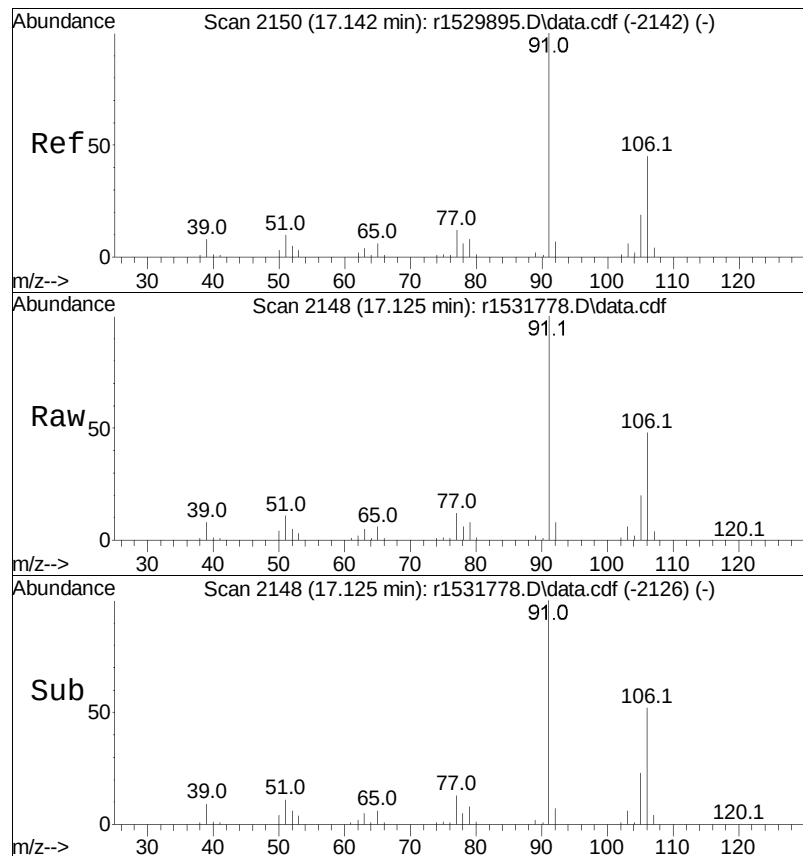




#81
ethylbenzene
Concen: 8.72 ppbV
RT: 16.96 min Scan# 2128
Delta R.T. -0.017 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

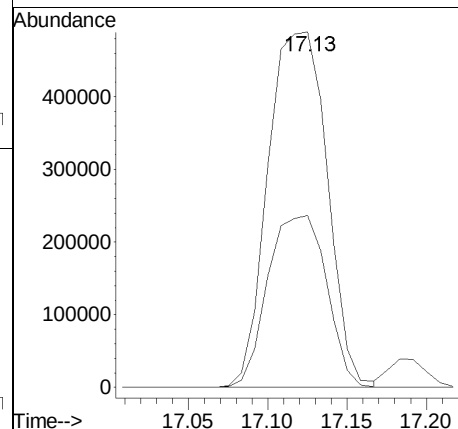
Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.1	36.1

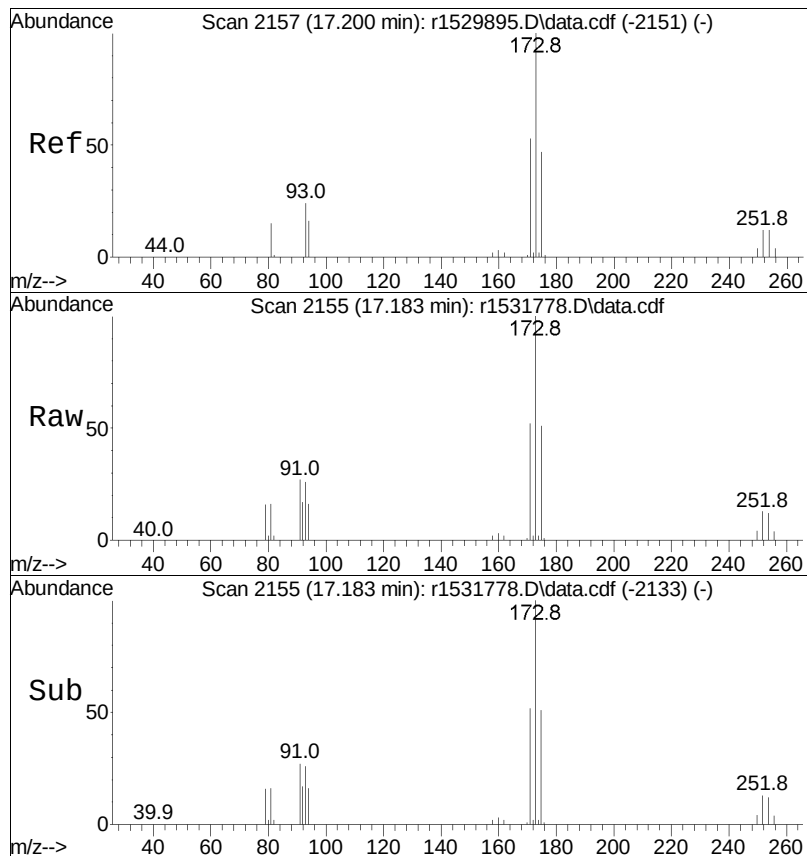




#83
 m+p-xylene
 Concen: 17.64 ppbV
 RT: 17.13 min Scan# 2148
 Delta R.T. -0.017 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

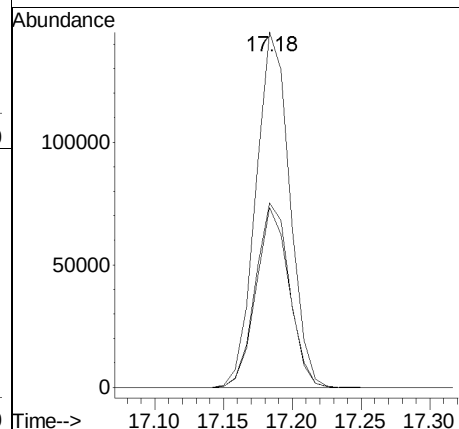
Tgt	Ion	Resp	Lower	Upper
91	100	1268438		
106	48.4	36.2	54.2	

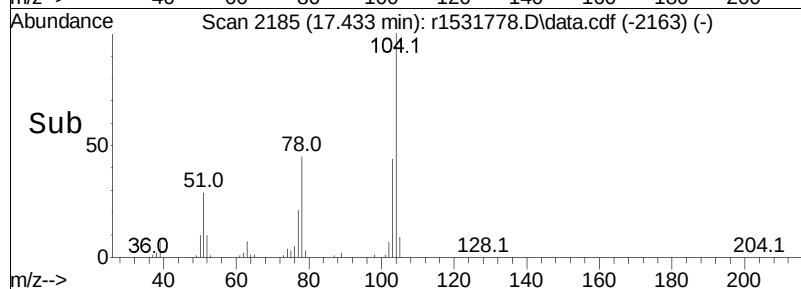
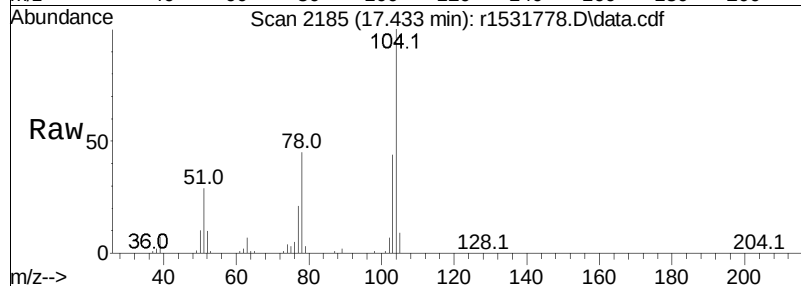
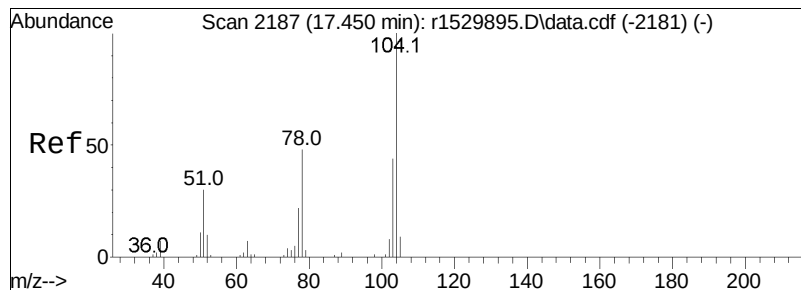




#84
bromoform
Concen: 10.95 ppbV
RT: 17.18 min Scan# 2155
Delta R.T. -0.017 min
Lab File: r1531778.D
Acq: 20 Mar 2022 1:18 PM

Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.7	37.8	56.8
171	51.9	42.8	64.2





#85

styrene

Concen: 8.67 ppbV

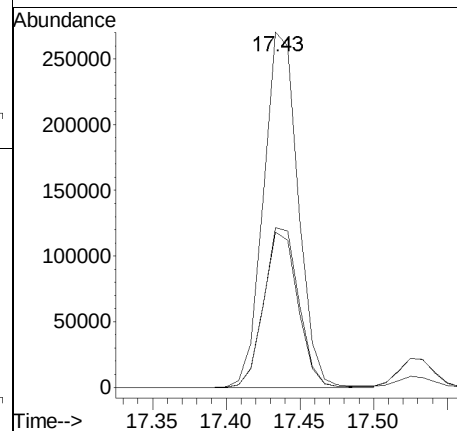
RT: 17.43 min Scan# 2185

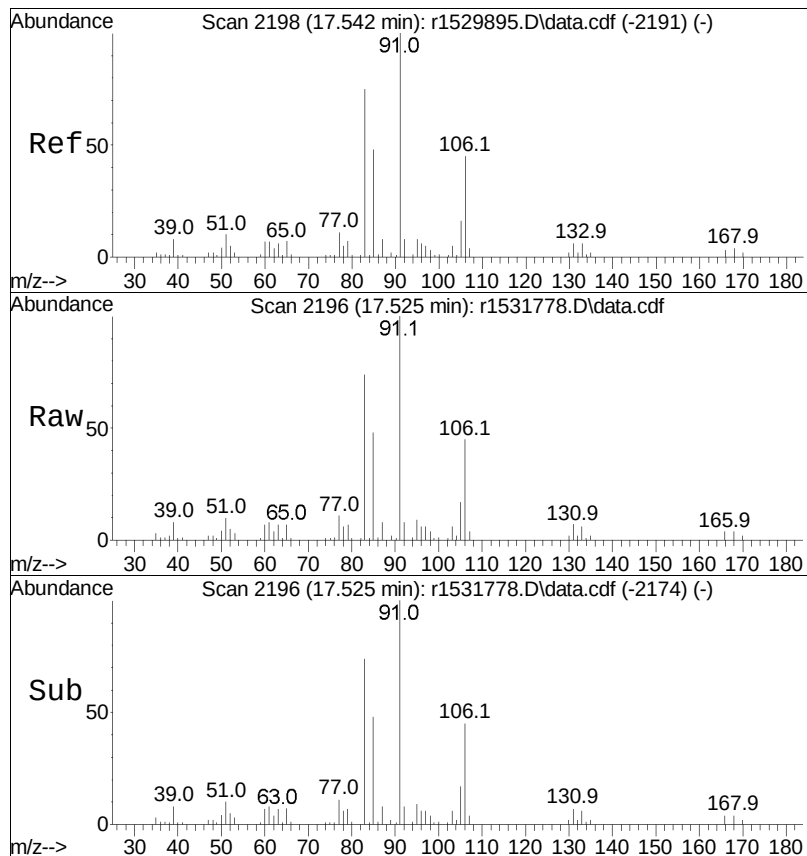
Delta R.T. -0.017 min

Lab File: r1531778.D

Acq: 20 Mar 2022 1:18 PM

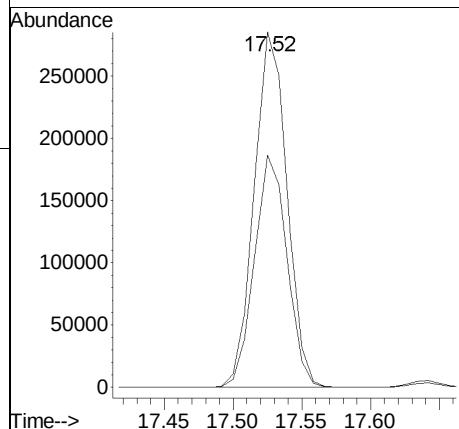
Tgt	Ion:104	Resp:	441941
Ion	Ratio	Lower	Upper
104	100		
103	43.7	35.0	52.6
78	45.0	38.3	57.5

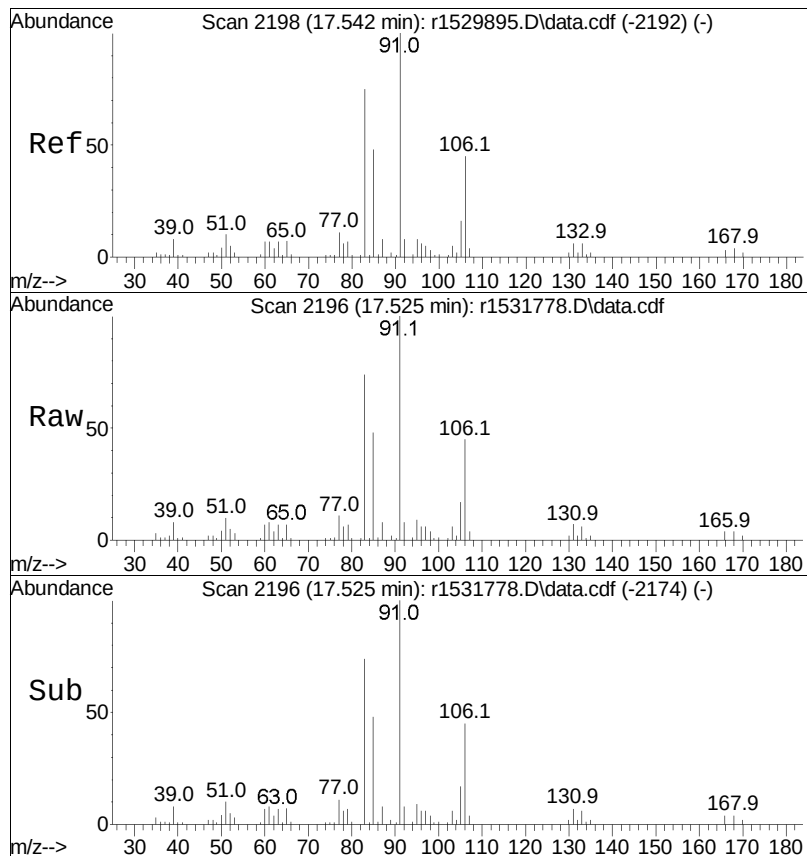




#86
 1,1,2,2-tetrachloroethane
 Concen: 9.01 ppbV
 RT: 17.52 min Scan# 2196
 Delta R.T. -0.017 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

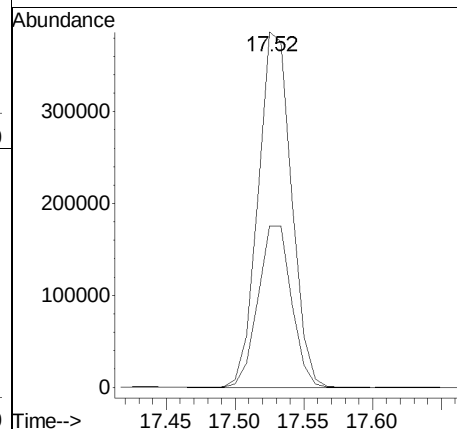
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.5	77.3

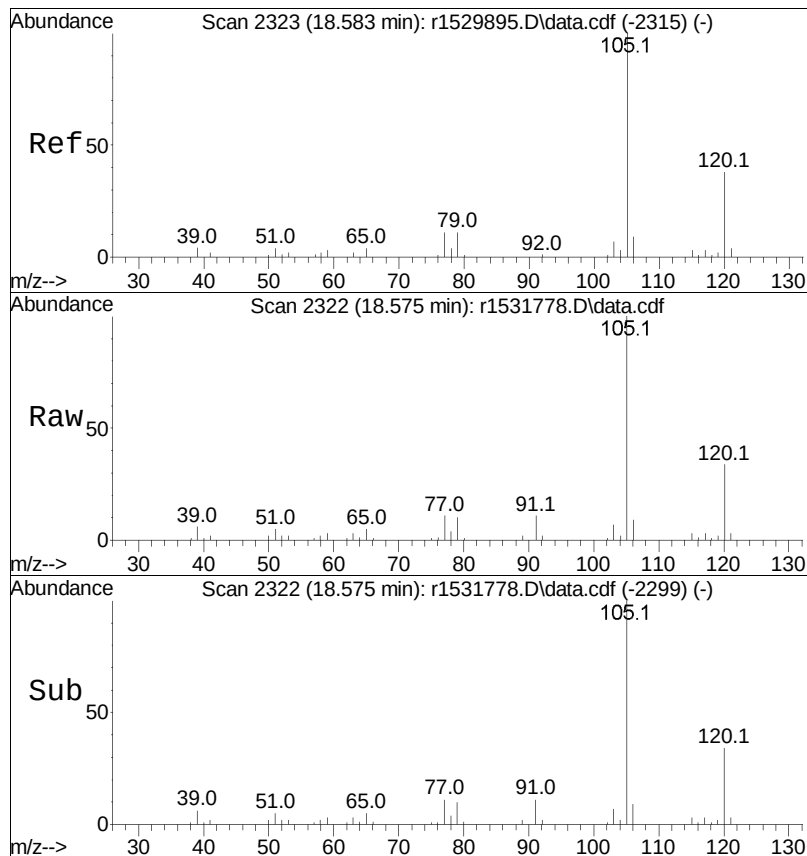




#87
 o-xylene
 Concen: 9.13 ppbV
 RT: 17.52 min Scan# 2196
 Delta R.T. -0.017 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

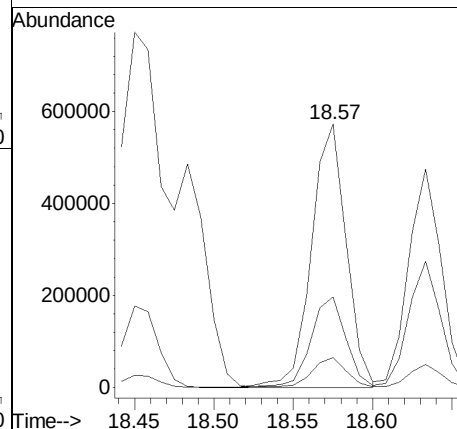
Tgt Ion	Ratio	Lower	Upper
91	100		
106	45.5	35.8	53.8

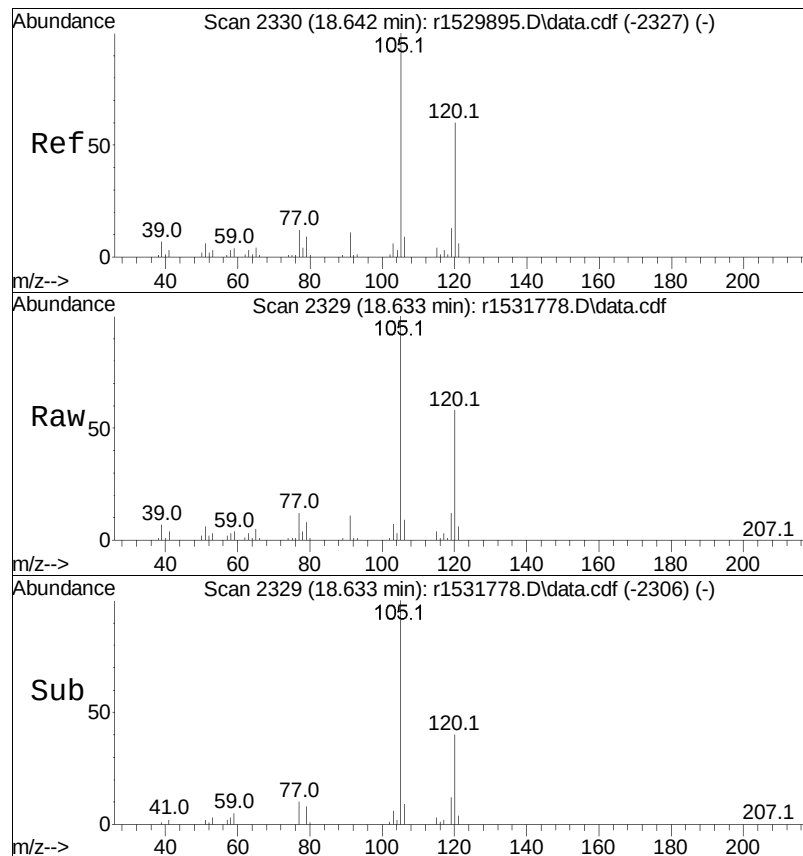




#96
 4-ethyl toluene
 Concen: 9.63 ppbV
 RT: 18.57 min Scan# 2322
 Delta R.T. -0.008 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

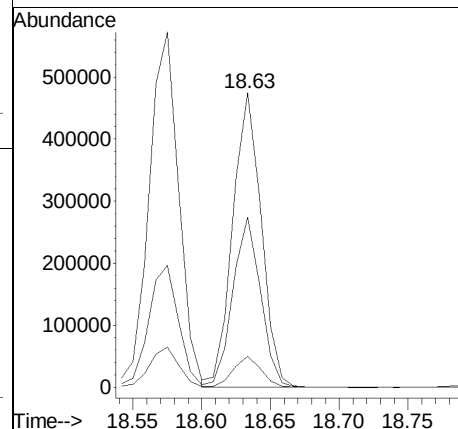
Tgt	Ion:105	Resp:	870790
Ion	Ratio	Lower	Upper
105	100		
120	34.4	30.1	45.1
91	11.3	9.1	13.7

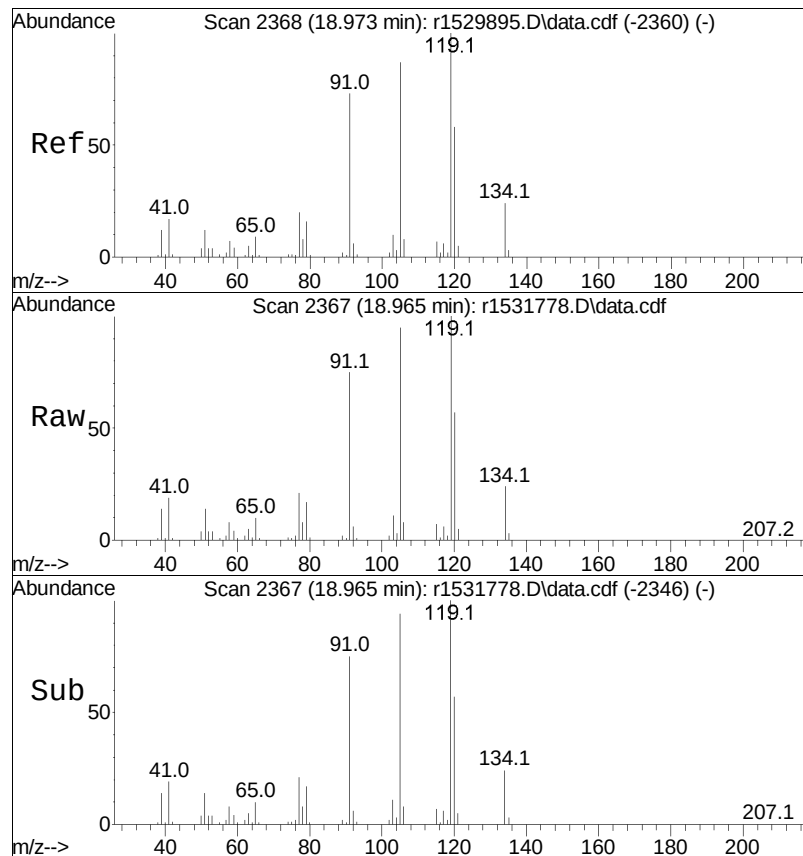




#97
 1,3,5-trimethylbenzene
 Concen: 8.94 ppbV
 RT: 18.63 min Scan# 2329
 Delta R.T. -0.008 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

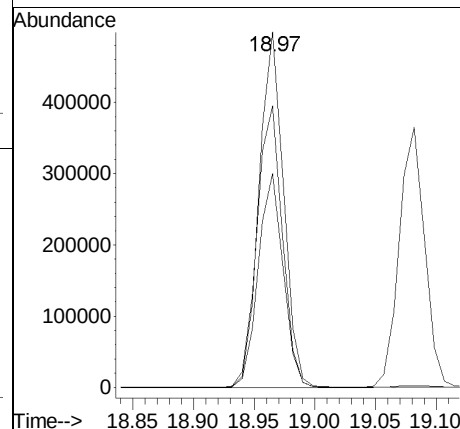
Tgt	Ion	Ratio	Resp	Lower	Upper
105	105	100	685812		
120	120	57.8		47.7	71.5
91	91	10.6		8.5	12.7

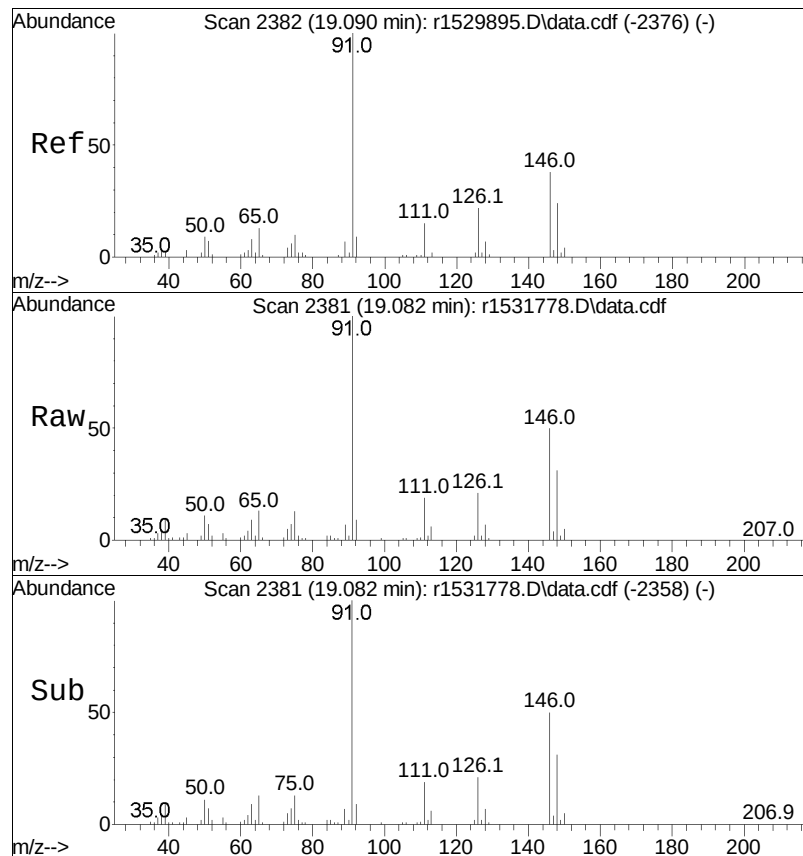




#99
 1,2,4-trimethylbenzene
 Concen: 9.48 ppbV
 RT: 18.97 min Scan# 2367
 Delta R.T. -0.008 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

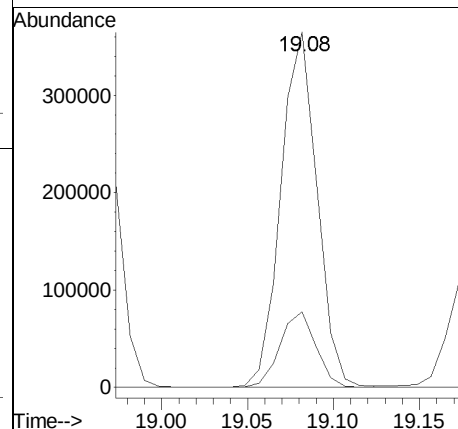
Tgt	Ion	Ratio	Resp	Lower	Upper
105	100		700302		
120	60.2	52.7	79.1		
91	79.2	67.2	100.8		

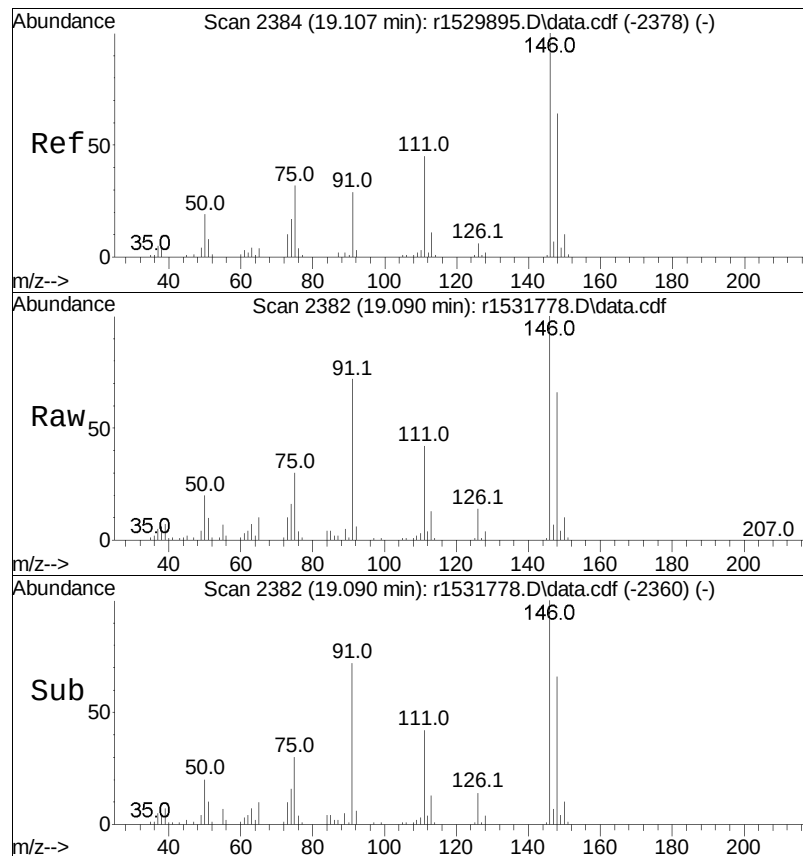




#101
 Benzyl Chloride
 Concen: 11.25 ppbV
 RT: 19.08 min Scan# 2381
 Delta R.T. -0.008 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

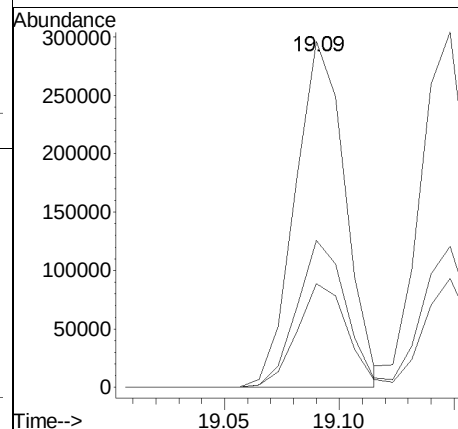
Tgt Ion	Ratio	Lower	Upper
91	100		
126	21.3	17.6	26.4

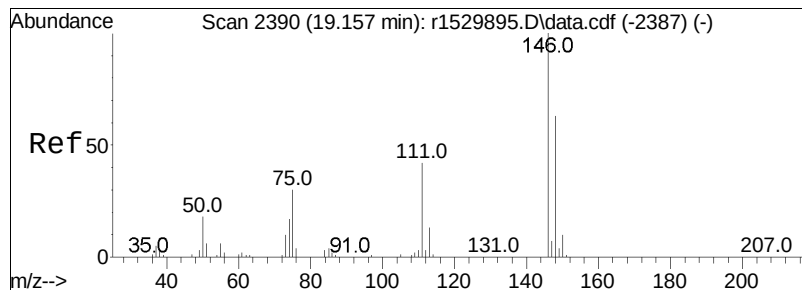




#102
 1,3-dichlorobenzene
 Concen: 8.96 ppbV
 RT: 19.09 min Scan# 2382
 Delta R.T. -0.017 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

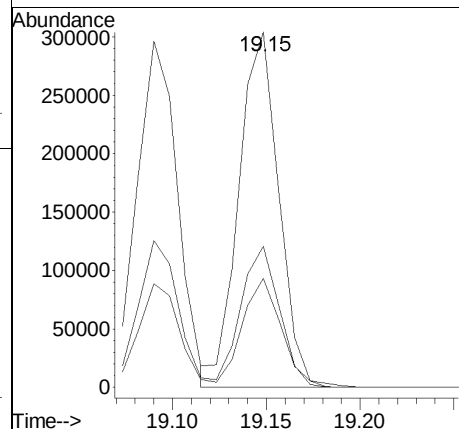
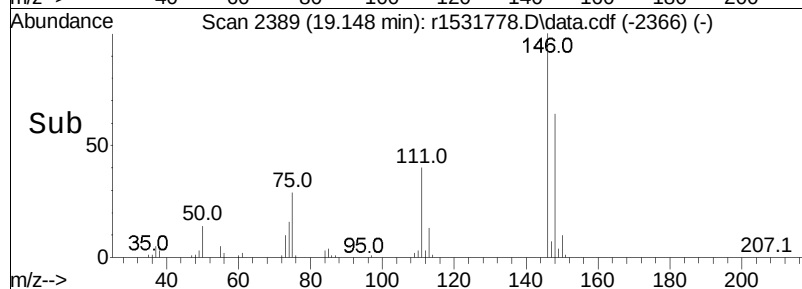
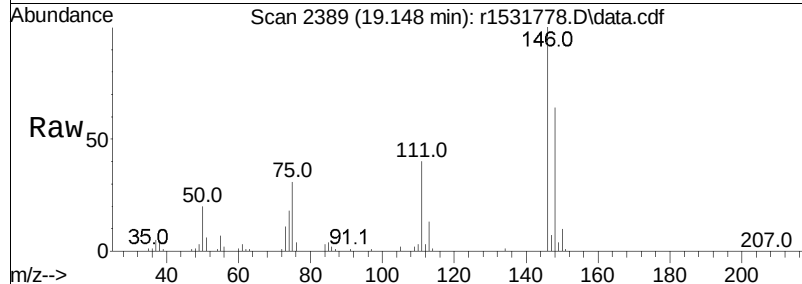
Tgt Ion:	146	Resp:	449576
Ion Ratio	Lower	Upper	
146	100		
111	42.5	35.7	53.5
75	30.0	25.4	38.0

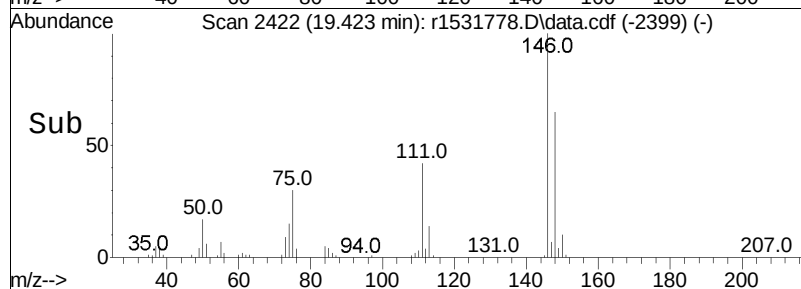
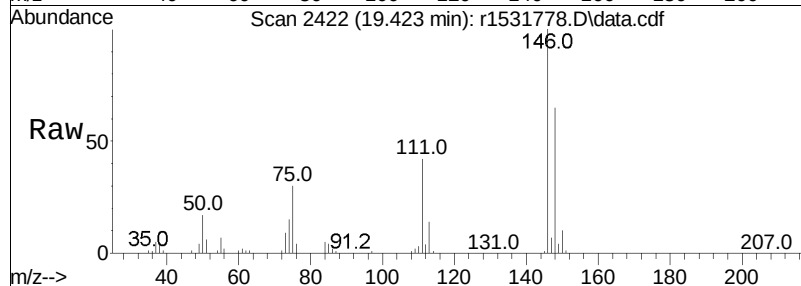
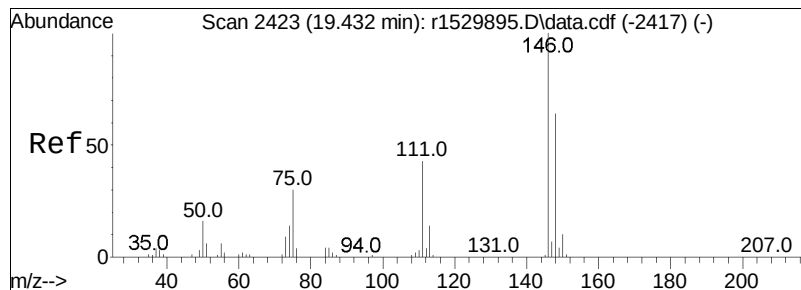




#103
 1,4-dichlorobenzene
 Concen: 9.10 ppbV
 RT: 19.15 min Scan# 2389
 Delta R.T. -0.008 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

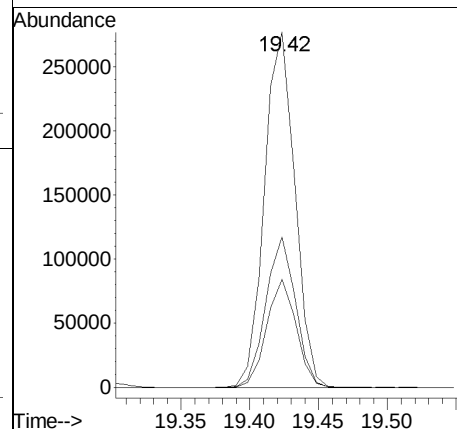
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	33.4	50.2
75	30.7	24.0	36.0

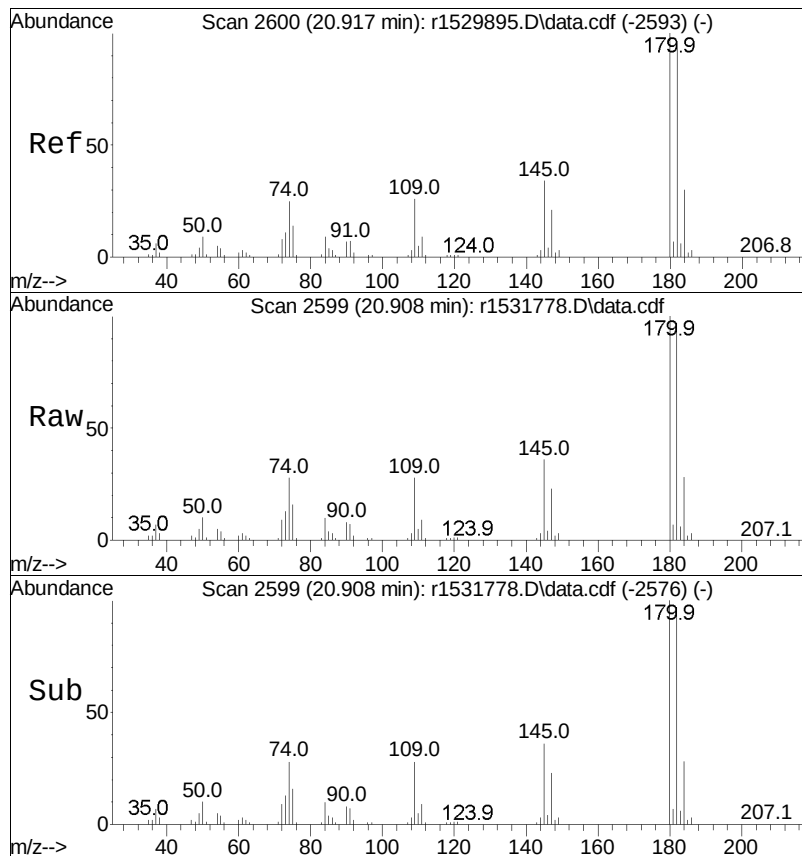




#107
 1,2-dichlorobenzene
 Concen: 8.94 ppbV
 RT: 19.42 min Scan# 2422
 Delta R.T. -0.008 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

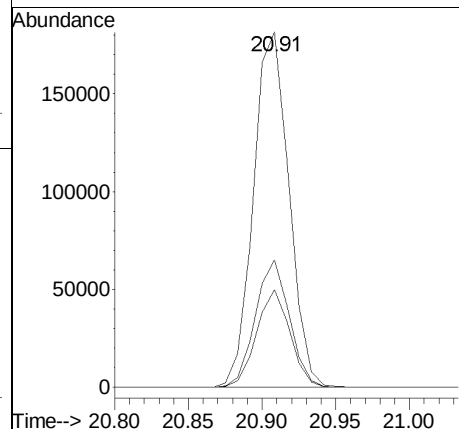
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	426028		
111	42.4		34.8	52.2
75	30.5		23.6	35.4

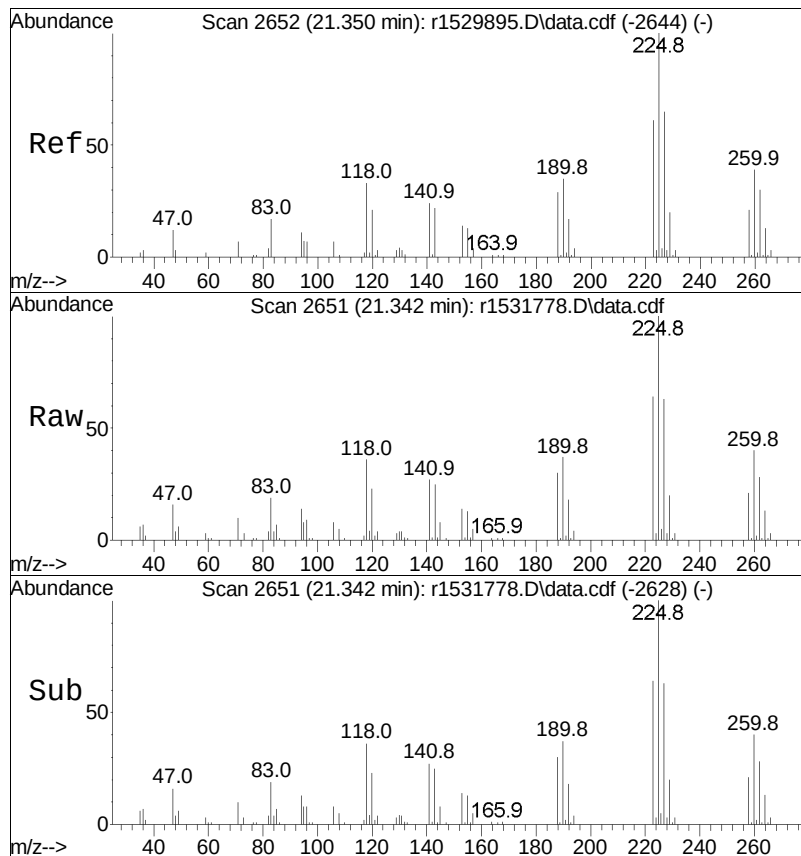




#115
 1,2,4-trichlorobenzene
 Concen: 8.69 ppbV
 RT: 20.91 min Scan# 2599
 Delta R.T. -0.008 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

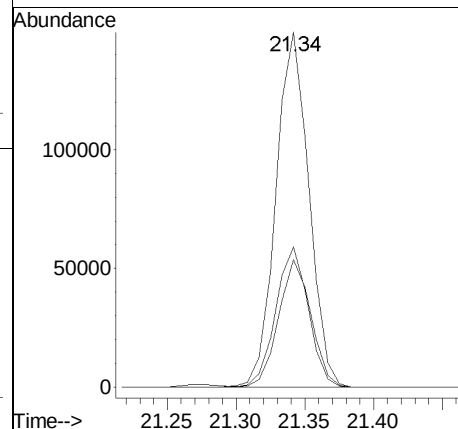
Tgt	Ion:180	Resp:	304188
Ion	Ratio	Lower	Upper
180	100		
145	35.9	27.2	40.8
109	27.5	20.7	31.1





#119
 hexachlorobutadiene
 Concen: 8.55 ppbV
 RT: 21.34 min Scan# 2651
 Delta R.T. -0.008 min
 Lab File: r1531778.D
 Acq: 20 Mar 2022 1:18 PM

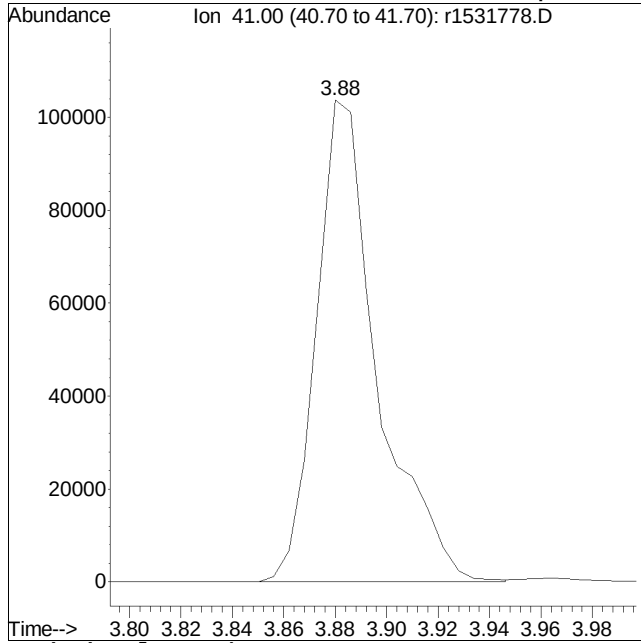
Tgt Ion	Ratio	Resp	Lower	Upper
225	100	248788		
260	39.6		31.1	46.7
118	36.0		27.0	40.4



Manual Integration/Negative Proof Report

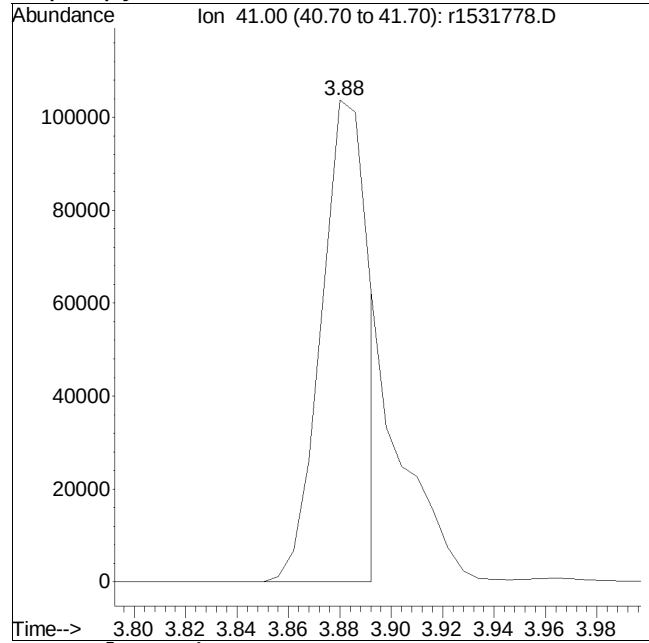
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_211222.M
Data File : r1531778.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:1: 8 Instrument :
Sample : WG1617728-3,3,250,250 Quant Date : 3/20/2022 12:59 pm

Compound #3: propylene



Original Peak Response = 170906

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 131970 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531790.D
 Acq On : 20 Mar 2022 10:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-5,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:44:39 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.58	49	380390	10.000	ppbV	-0.03
Standard Area = 382239			Recovery =		99.52%	
43) 1,4-difluorobenzene	11.86	114	844066	10.000	ppbV	-0.03
Standard Area = 859136			Recovery =		98.25%	
67) chlorobenzene-D5	16.57	54	199949	10.000	ppbV	-0.02
Standard Area = 200634			Recovery =		99.66%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.96	85	13932	0.495	ppbV	99
6) chloromethane	4.14	50	7911	0.564	ppbV	97
7) Freon-114	4.26		0	N.D.		
10) 1,3-butadiene	4.56		0	N.D.		
13) bromomethane	4.89		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	5.29	31	3353335	307.438	ppbV	99
17) vinyl bromide	0.00		0	N.D.		
19) acetone	5.87	43	215284	9.906	ppbV #	89
21) trichlorofluoromethane	6.07	101	8531	0.316	ppbV	99
22) isopropyl alcohol	6.19	45	294550	12.542	ppbV	100
27) tertiary butyl alcohol	6.94	59	5558	0.183	ppbV #	79
28) methylene chloride	7.02	49	10152	0.570	ppbV	95
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	7.30		0	N.D.		
31) Freon 113	7.35	101	1847	0.068	ppbV	92
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	0.00		0	N.D.	d	
36) 2-butanone	8.88	43	67099	1.729	ppbV	99
38) Ethyl Acetate	9.70	61	10197	1.450	ppbV	75
39) chloroform	9.74	83	4258	0.132	ppbV #	89
40) Tetrahydrofuran	10.21	42	9283	0.385	ppbV #	93
42) 1,2-dichloroethane	10.60	62	5984	0.259	ppbV	96
44) hexane	9.66	57	4926	0.138	ppbV #	76
50) benzene	11.42	78	9326	0.157	ppbV	97
53) cyclohexane	11.74	56	7905	0.207	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531790.D
 Acq On : 20 Mar 2022 10:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-5,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:44:39 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320T\r1531778.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1,2-dichloropropane	12.38	63	1312	0.059	ppbV	98
57) bromodichloromethane	0.00		0	N.D.		
58) 1,4-dioxane	0.00		0	N.D.		
60) 2,2,4-trimethylpentane	12.70		0	N.D.		
62) heptane	13.02	43	2916	0.075	ppbV	99
63) cis-1,3-dichloropropene	0.00		0	N.D.		
64) 4-methyl-2-pentanone	13.73		0	N.D.		
65) trans-1,3-dichloropropene	0.00		0	N.D.		
66) 1,1,2-trichloroethane	0.00		0	N.D.		
68) toluene	14.81	91	405241	5.442	ppbV	100
72) 2-hexanone	0.00		0	N.D.	d	
74) dibromochloromethane	0.00		0	N.D.		
75) 1,2-dibromoethane	0.00		0	N.D.		
80) chlorobenzene	16.62		0	N.D.		
81) ethylbenzene	16.96	91	49241	0.558	ppbV	93
83) m+p-xylene	17.11	91	102635	1.432	ppbV	96
84) bromoform	0.00		0	N.D.		
85) styrene	17.43	104	103384	2.035	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.52		0	N.D.		
87) o-xylene	17.52	91	59670	0.839	ppbV	96
96) 4-ethyl toluene	18.57		0	N.D.		
97) 1,3,5-trimethylbenzene	18.63	105	7464	0.098	ppbV #	91
99) 1,2,4-trimethylbenzene	18.97	105	56361	0.766	ppbV #	48
101) Benzyl Chloride	0.00		0	N.D.	d	
102) 1,3-dichlorobenzene	19.14		0	N.D.		
103) 1,4-dichlorobenzene	19.14		0	N.D.		
107) 1,2-dichlorobenzene	19.41		0	N.D.		
115) 1,2,4-trichlorobenzene	0.00		0	N.D.		
119) hexachlorobutadiene	0.00		0	N.D.		

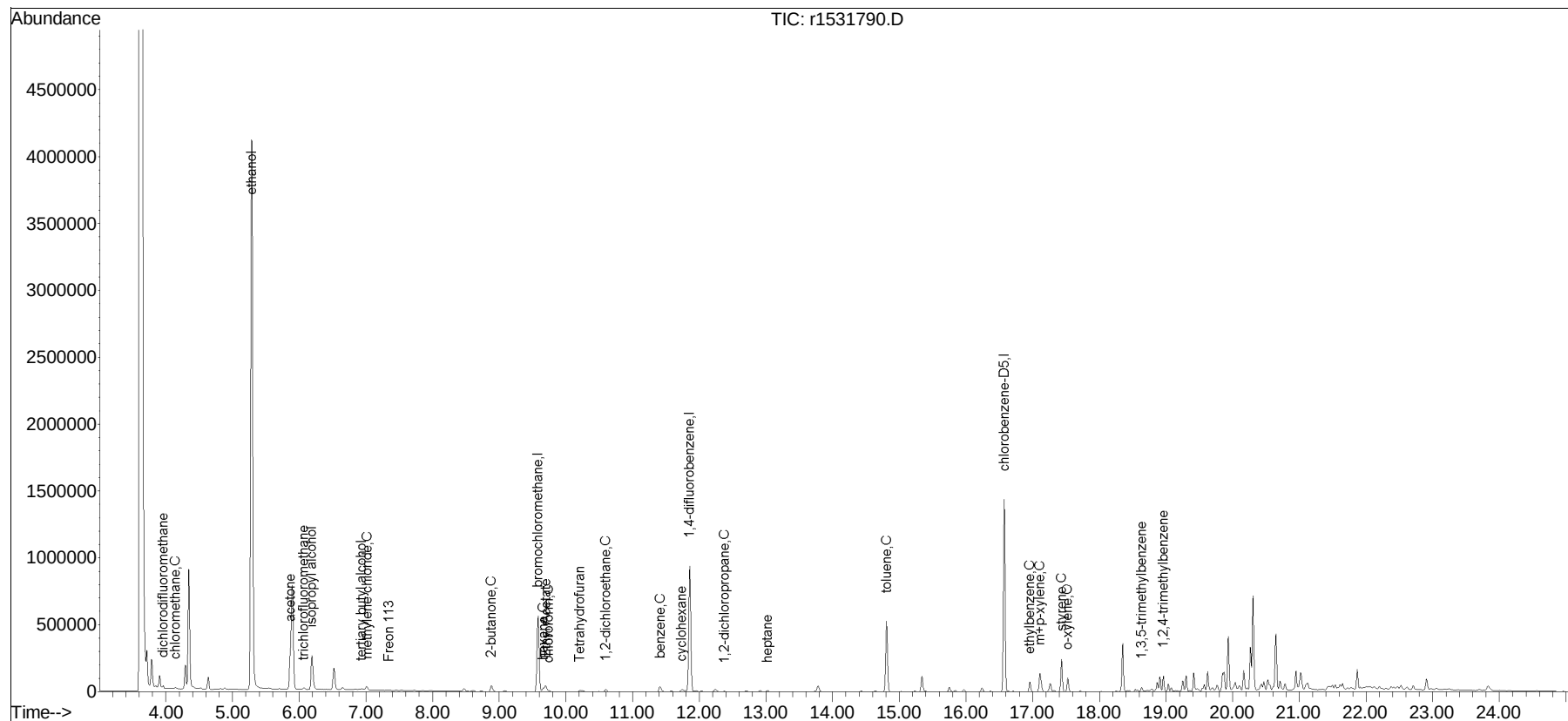
(#) = qualifier out of range (m) = manual integration (+) = signals summed

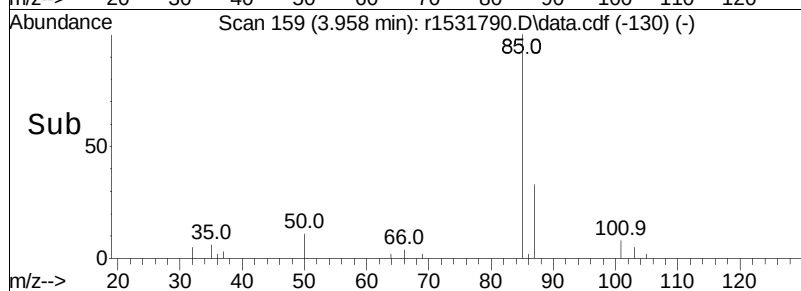
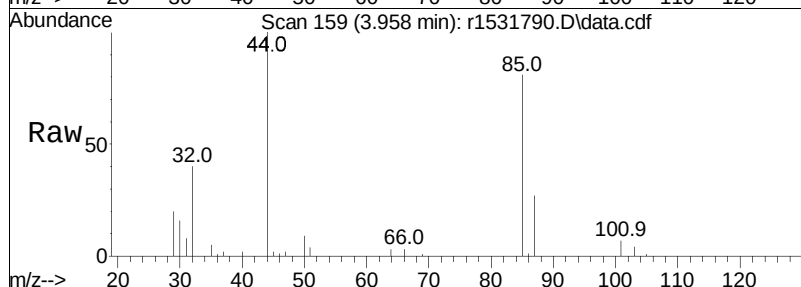
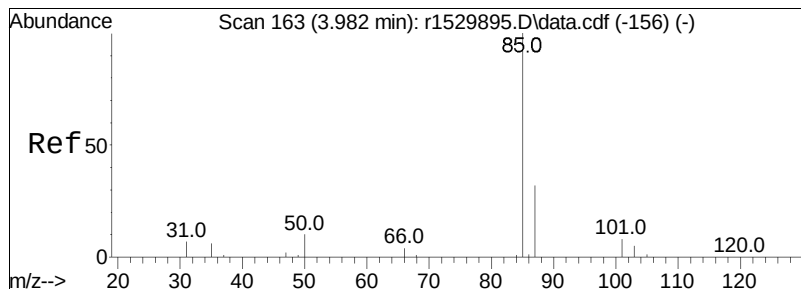
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320T\
 Data File : r1531790.D
 Acq On : 20 Mar 2022 10:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1617728-5,3,250,250
 Misc : WG1617728,ICAL18600
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:44:39 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320T\TFS15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 16:29:20 2021
 Response via : Initial Calibration

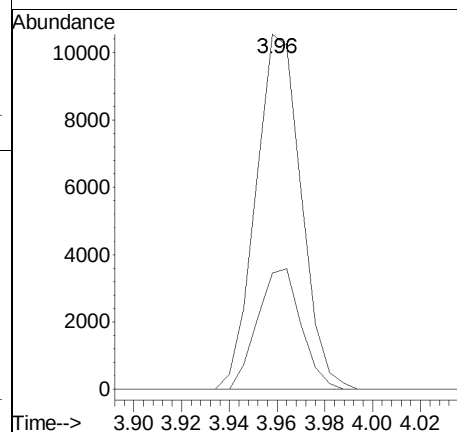
Sub List : T015-NY-7-SIM - .\Airlab15\2022\03\0320T\r1531778.D

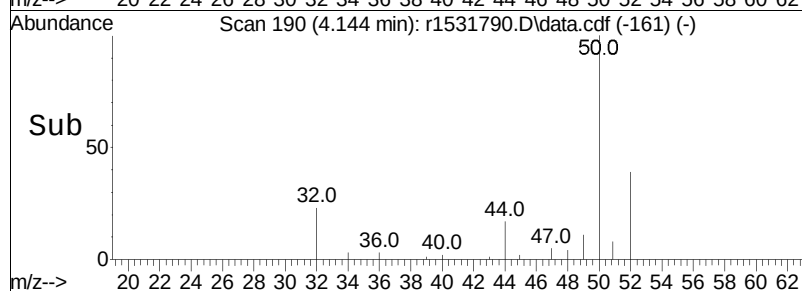
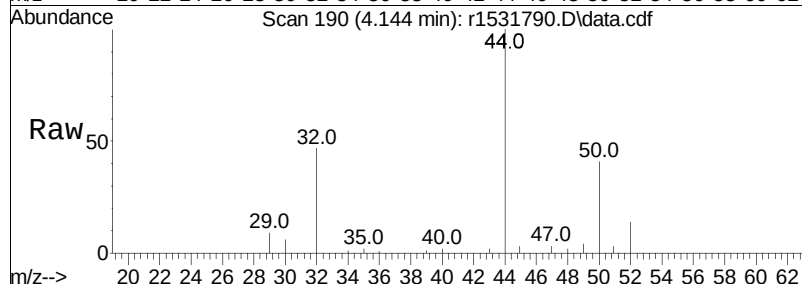
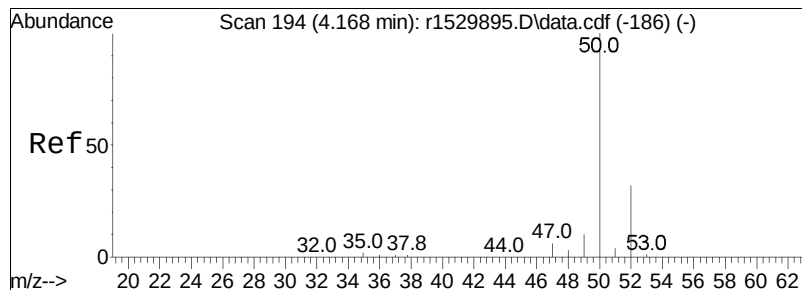




#5
dichlorodifluoromethane
Concen: 0.50 ppbV
RT: 3.96 min Scan# 159
Delta R.T. -0.024 min
Lab File: r1531790.D
Acq: 20 Mar 2022 10:25 PM

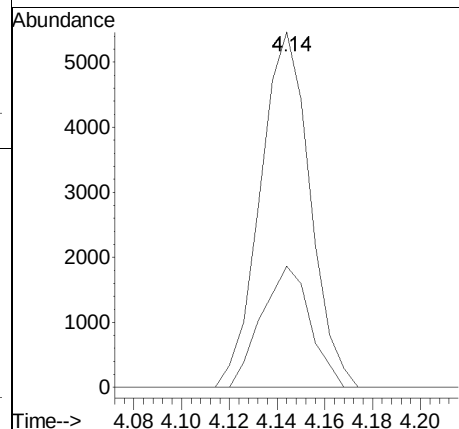
Tgt Ion	85	87	Ratio	Lower	Upper
Resp:	13932				
85	100				
87	32.7	25.6	38.4		

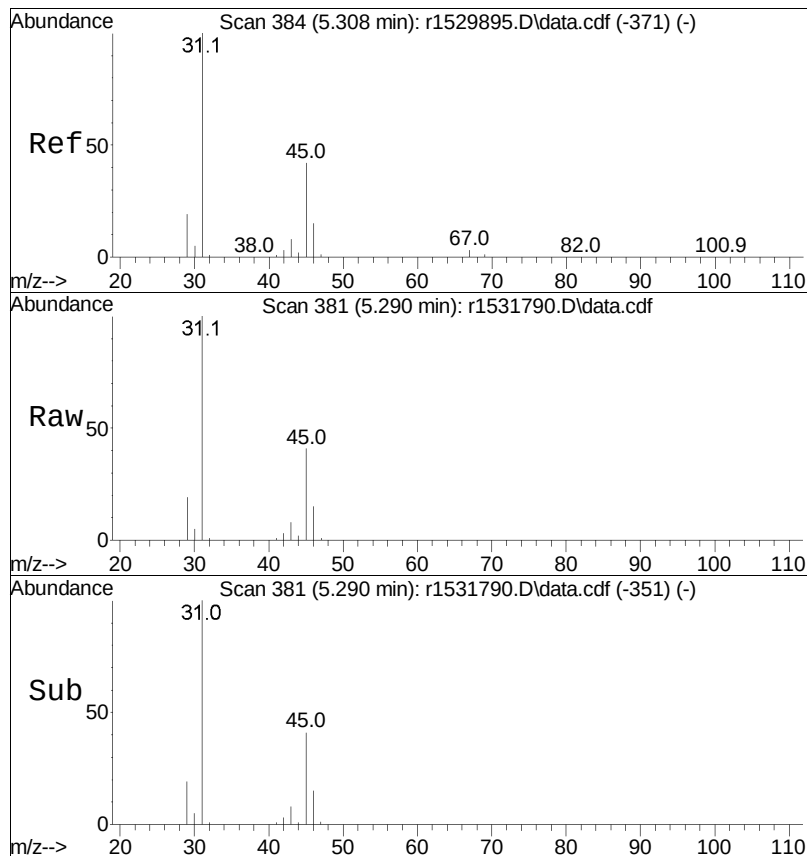




#6
 chloromethane
 Concen: 0.56 ppbV
 RT: 4.14 min Scan# 190
 Delta R.T. -0.024 min
 Lab File: r1531790.D
 Acq: 20 Mar 2022 10:25 PM

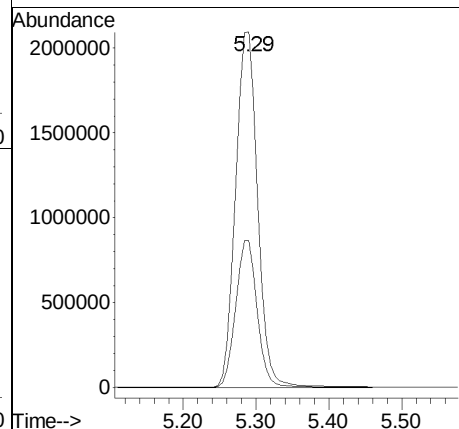
Tgt	Ion	Resp	Lower	Upper
50	100	7911		
52	34.1	25.9	38.9	

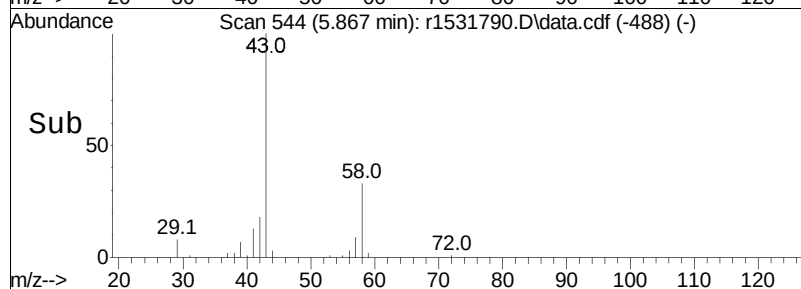
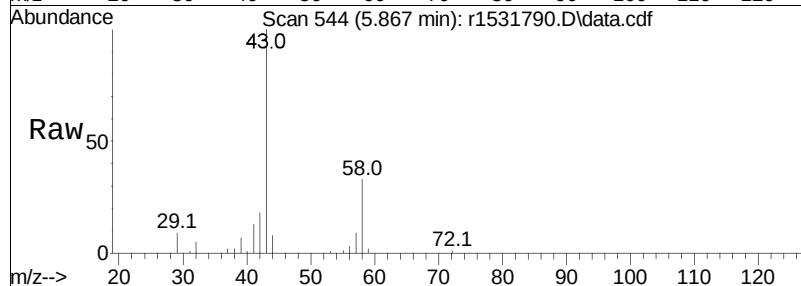
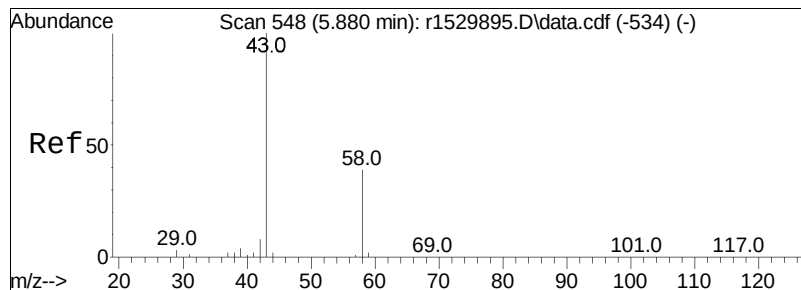




#15
 ethanol
 Concen: 307.44 ppbV
 RT: 5.29 min Scan# 381
 Delta R.T. -0.018 min
 Lab File: r1531790.D
 Acq: 20 Mar 2022 10:25 PM

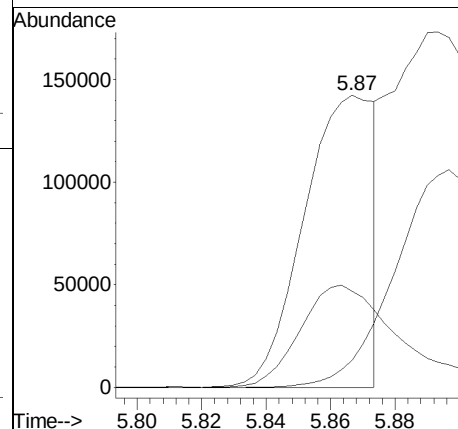
Tgt	Ion	Resp	Lower	Upper
31	100	3353335		
45	41.2	33.4	50.2	

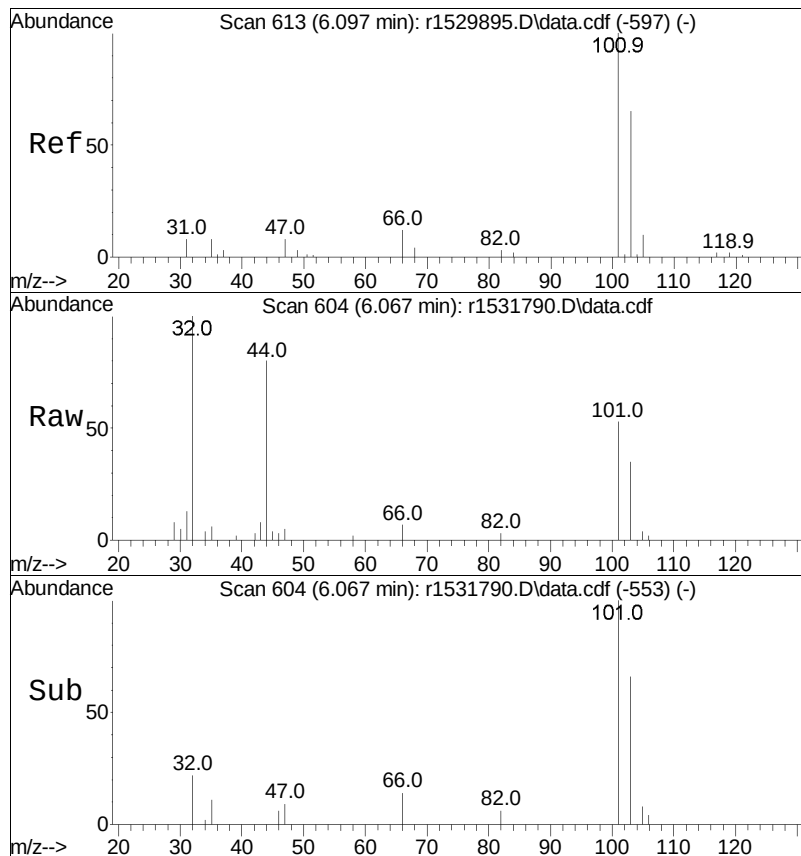




#19
acetone
Concen: 9.91 ppbV
RT: 5.87 min Scan# 544
Delta R.T. -0.013 min
Lab File: r1531790.D
Acq: 20 Mar 2022 10:25 PM

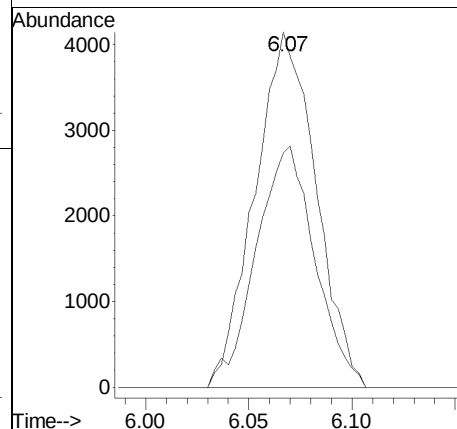
Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.9	31.6	47.4
57	9.4	0.8	1.2#

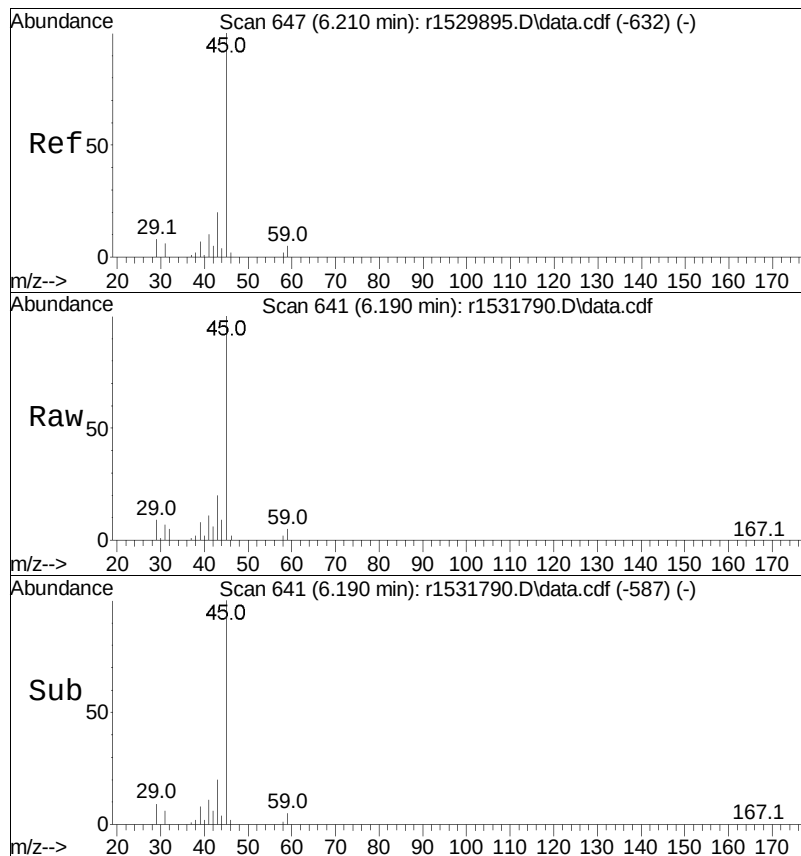




#21
trichlorofluoromethane
Concen: 0.32 ppbV
RT: 6.07 min Scan# 604
Delta R.T. -0.030 min
Lab File: r1531790.D
Acq: 20 Mar 2022 10:25 PM

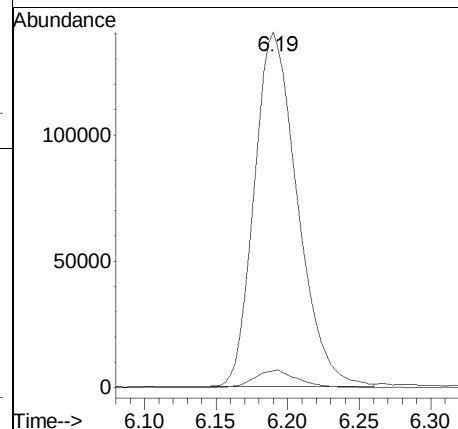
Tgt	Ion	Ratio	Resp	Lower	Upper
101	101	100	8531		
103	66.0	52.0	78.0		

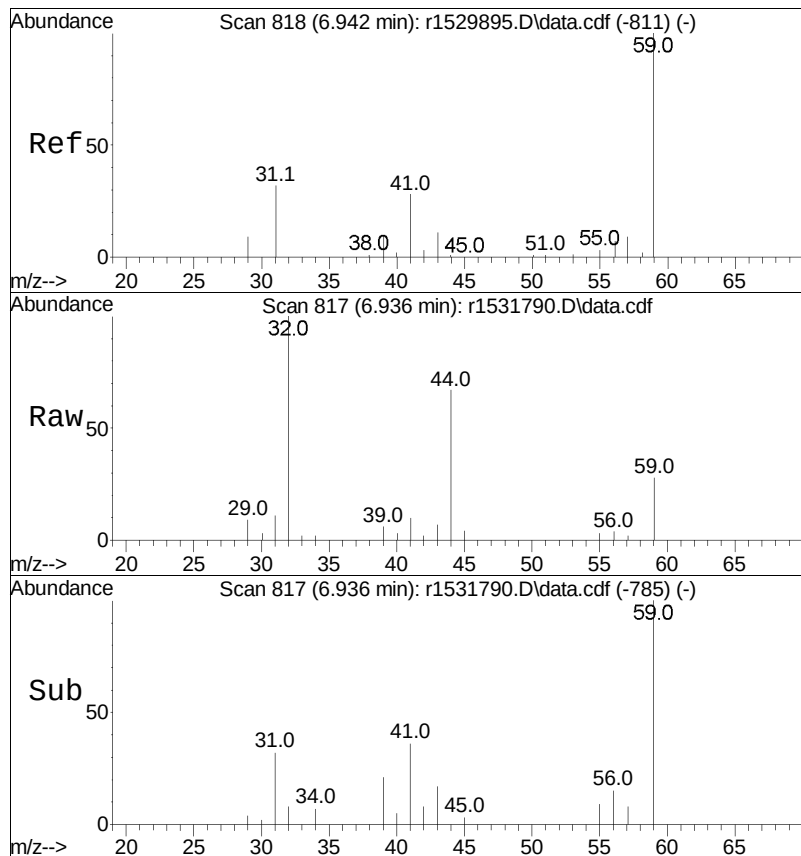




#22
 isopropyl alcohol
 Concen: 12.54 ppbV
 RT: 6.19 min Scan# 641
 Delta R.T. -0.020 min
 Lab File: r1531790.D
 Acq: 20 Mar 2022 10:25 PM

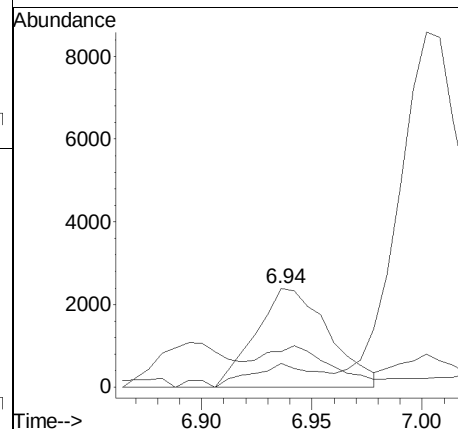
Tgt Ion	Ratio	Lower	Upper
45	100		
59	4.7	3.8	5.8

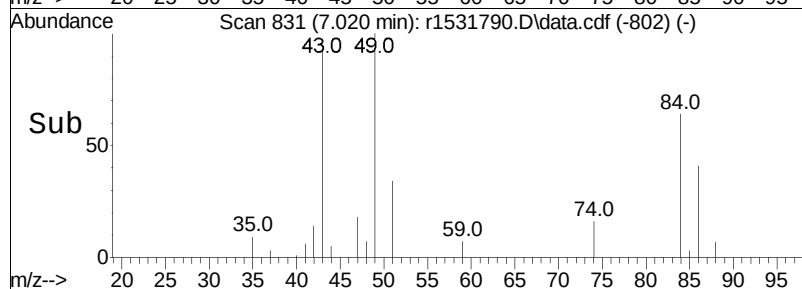
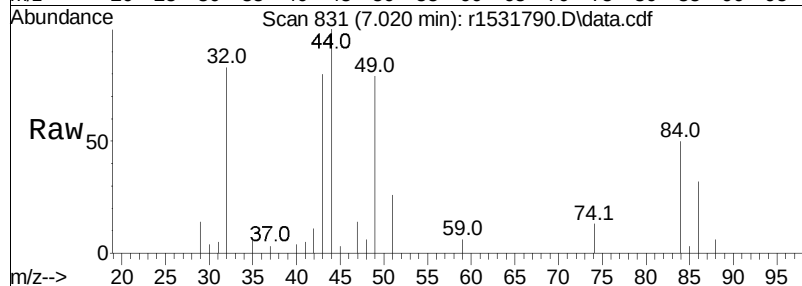
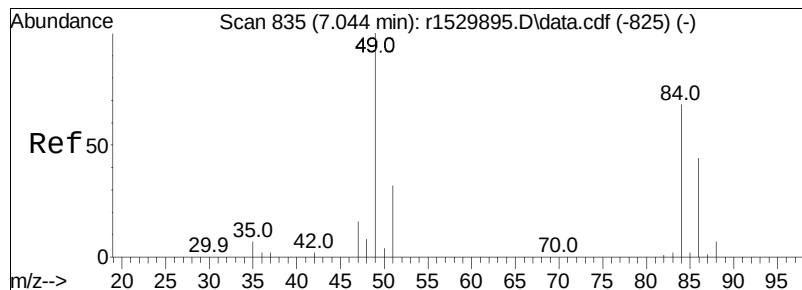




#27
 tertiary butyl alcohol
 Concen: 0.18 ppbV
 RT: 6.94 min Scan# 817
 Delta R.T. -0.006 min
 Lab File: r1531790.D
 Acq: 20 Mar 2022 10:25 PM

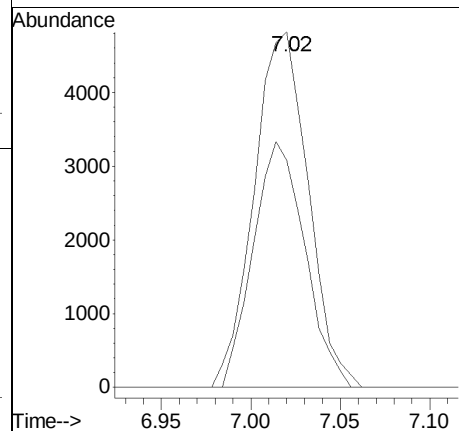
Tgt Ion	Ratio	Lower	Upper
59	100		
41	36.3	22.2	33.4#
43	24.3	8.9	13.3#

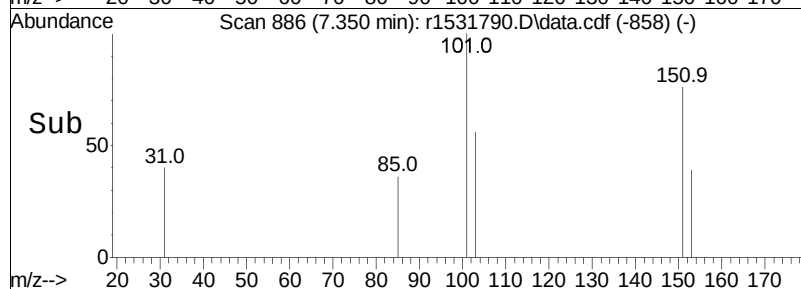
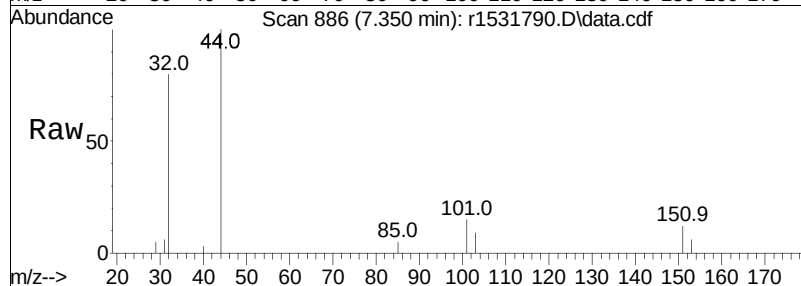
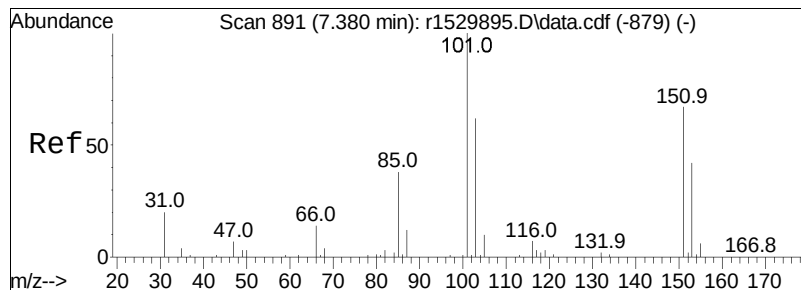




#28
 methylene chloride
 Concen: 0.57 ppbV
 RT: 7.02 min Scan# 831
 Delta R.T. -0.024 min
 Lab File: r1531790.D
 Acq: 20 Mar 2022 10:25 PM

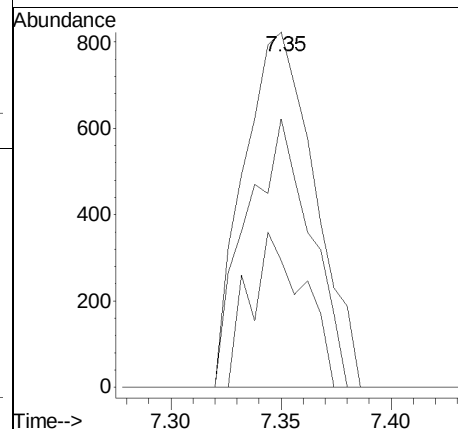
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	10152				
Ion Ratio	100	63.9			
			54.5	81.7	

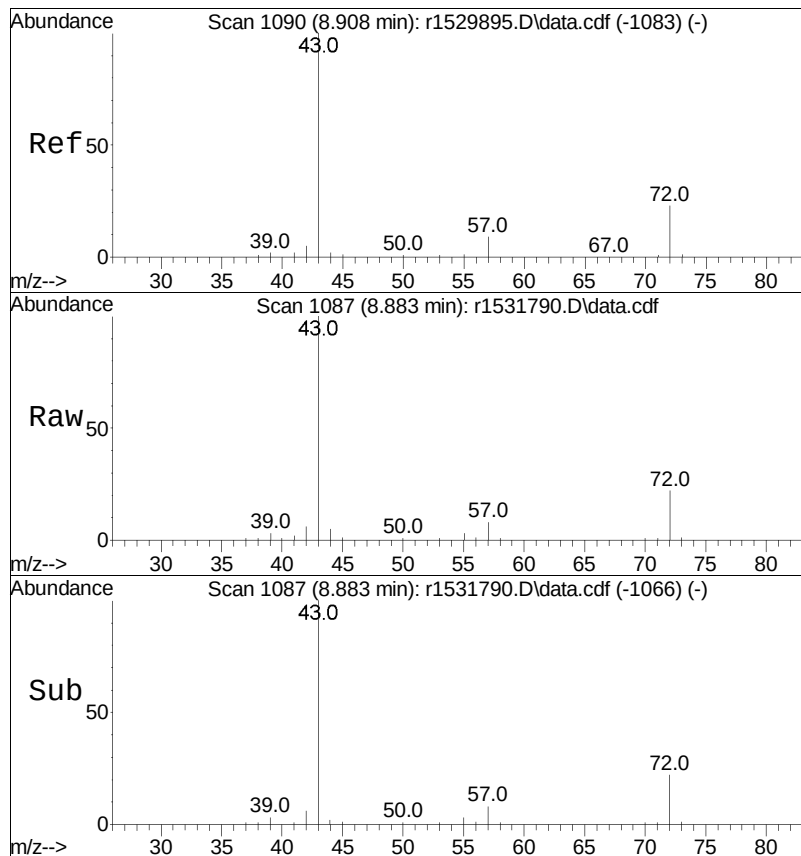




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 7.35 min Scan# 886
 Delta R.T. -0.030 min
 Lab File: r1531790.D
 Acq: 20 Mar 2022 10:25 PM

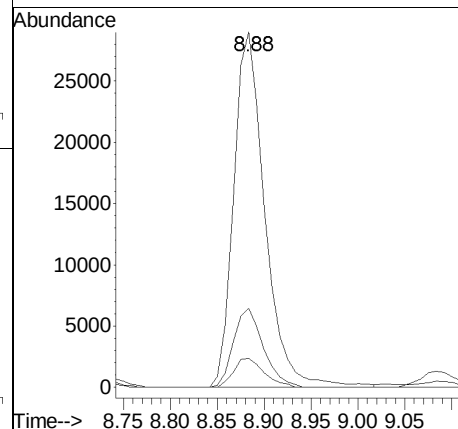
Tgt Ion:	101	Resp:	1847
Ion Ratio	Lower	Upper	
101	100		
85	35.7	30.6	46.0
151	75.6	53.5	80.3

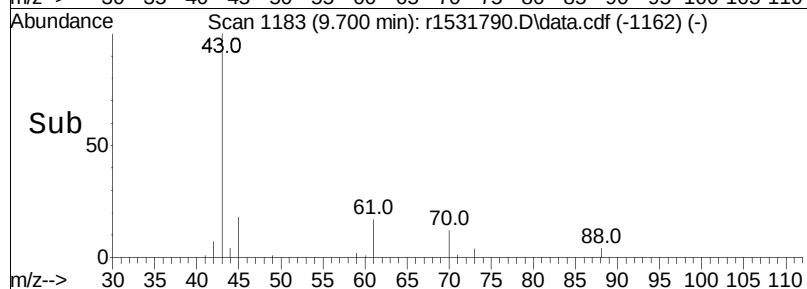
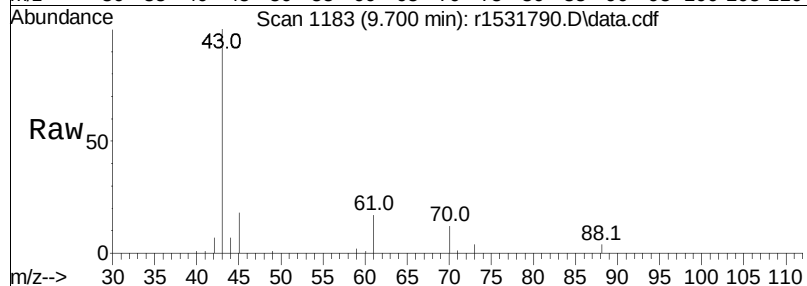
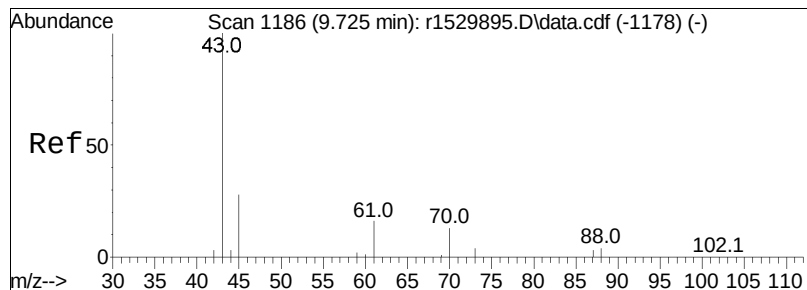




#36
 2-butanone
 Concen: 1.73 ppbV
 RT: 8.88 min Scan# 1087
 Delta R.T. -0.025 min
 Lab File: r1531790.D
 Acq: 20 Mar 2022 10:25 PM

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.0	27.0
57	8.2	7.0	10.4





#38

Ethyl Acetate

Concen: 1.45 ppbV

RT: 9.70 min Scan# 1183

Delta R.T. -0.025 min

Lab File: r1531790.D

Acq: 20 Mar 2022 10:25 PM

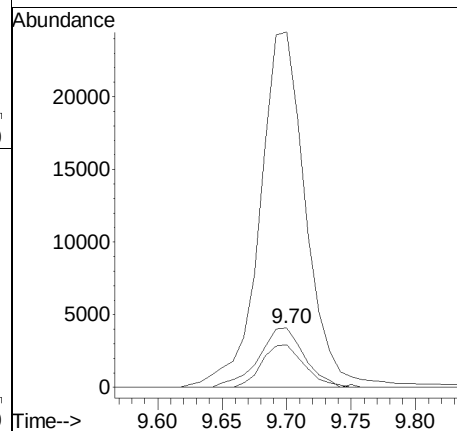
Tgt Ion: 61 Resp: 10197

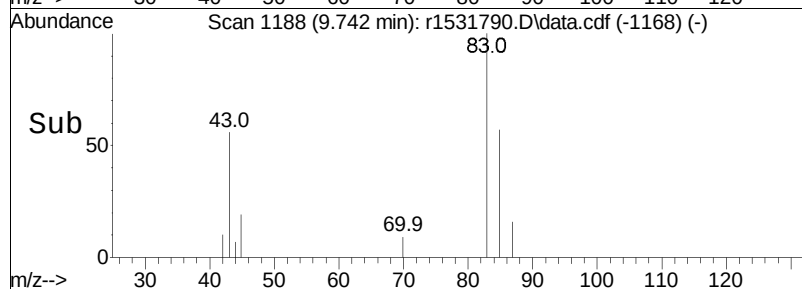
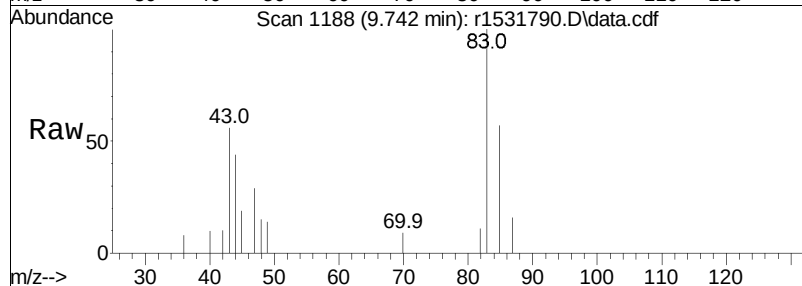
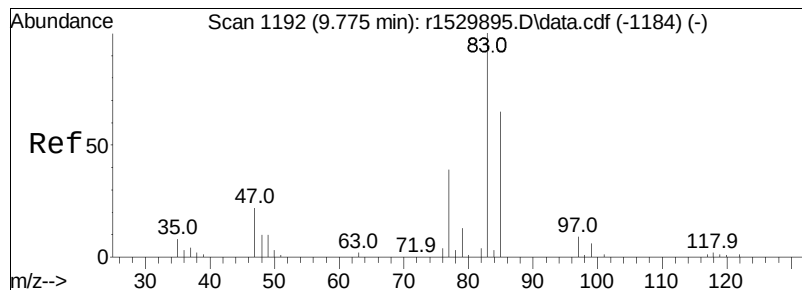
Ion Ratio Lower Upper

61 100

70 71.8 62.7 94.1

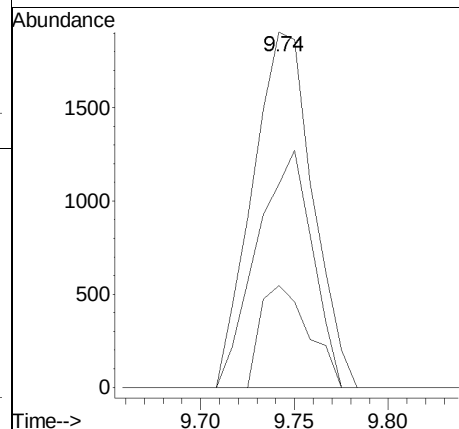
43 597.8 551.8 827.8

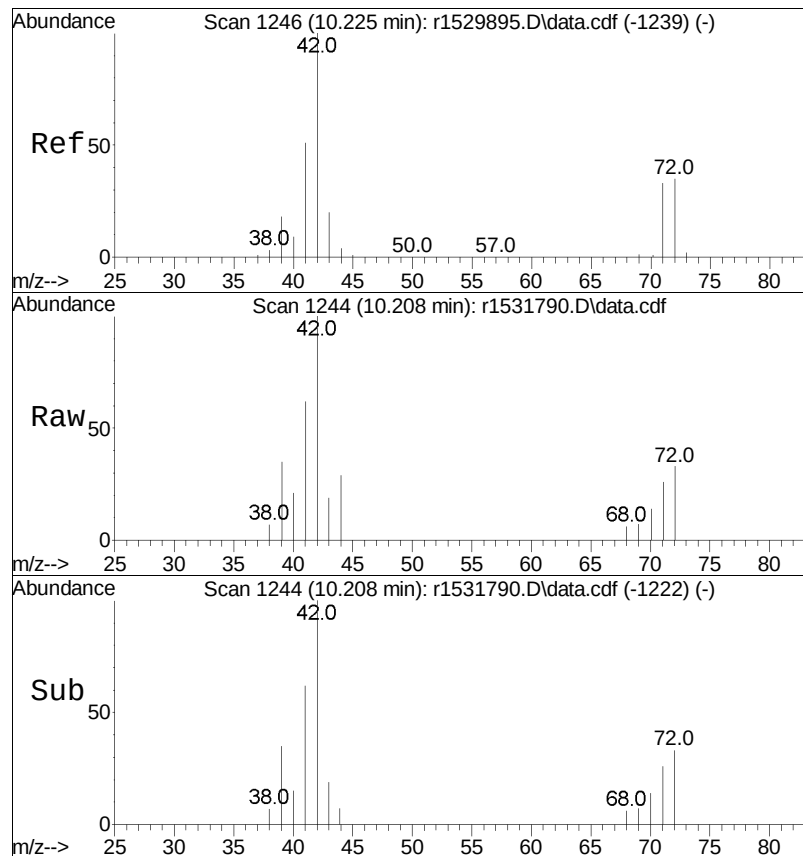




#39
chloroform
Concen: 0.13 ppbV
RT: 9.74 min Scan# 1188
Delta R.T. -0.033 min
Lab File: r1531790.D
Acq: 20 Mar 2022 10:25 PM

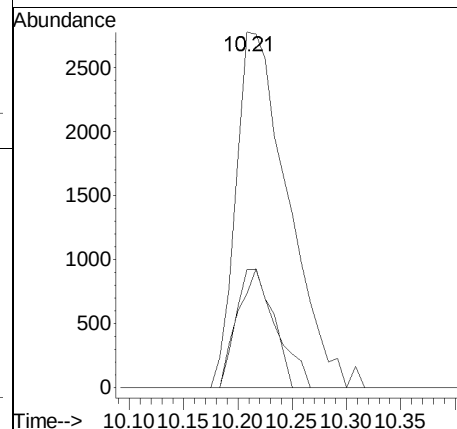
Tgt Ion	Ratio	Lower	Upper
83	100		
85	57.2	51.8	77.8
47	28.6	17.9	26.9

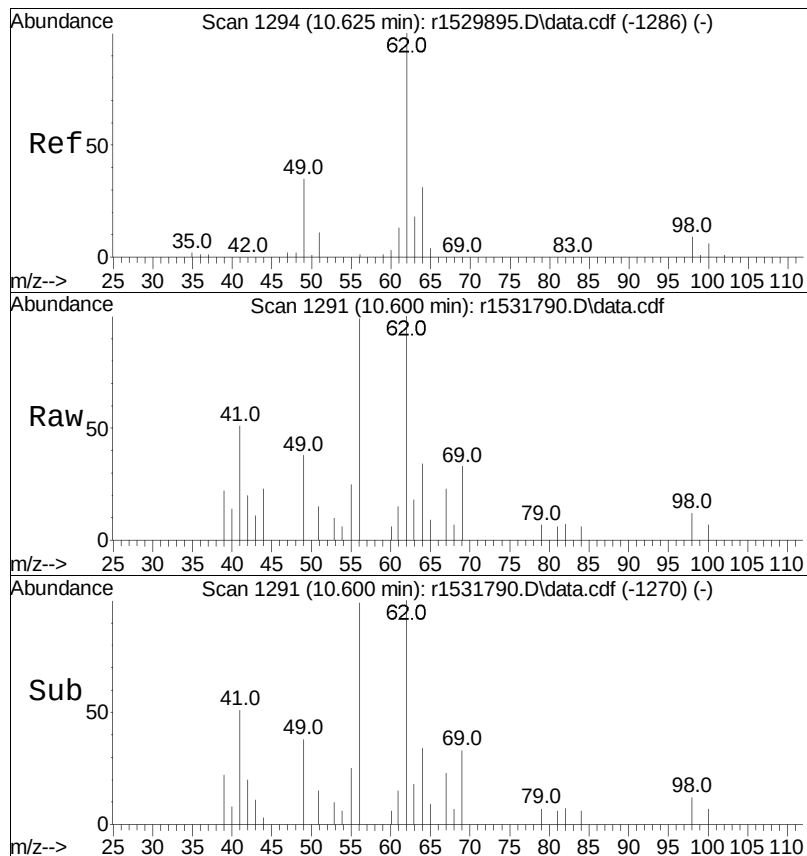




#40
Tetrahydrofuran
Concen: 0.38 ppbV
RT: 10.21 min Scan# 1244
Delta R.T. -0.017 min
Lab File: r1531790.D
Acq: 20 Mar 2022 10:25 PM

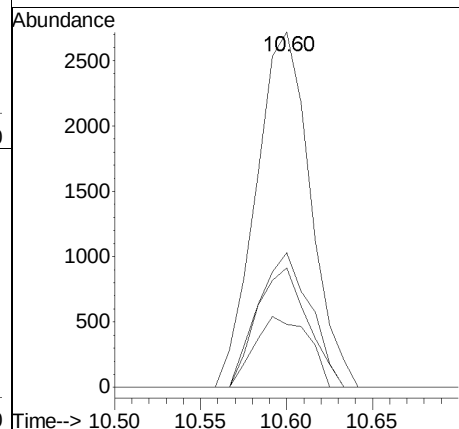
Tgt Ion	Ratio	Lower	Upper
42	100		
71	26.5	26.8	40.2#
72	33.3	27.7	41.5

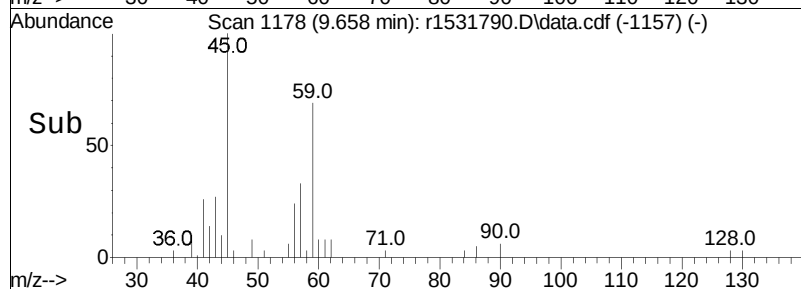
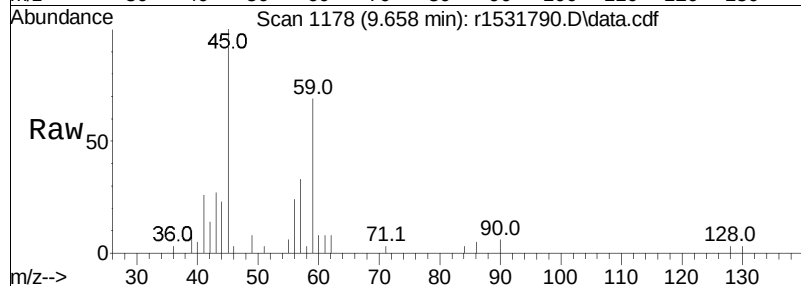
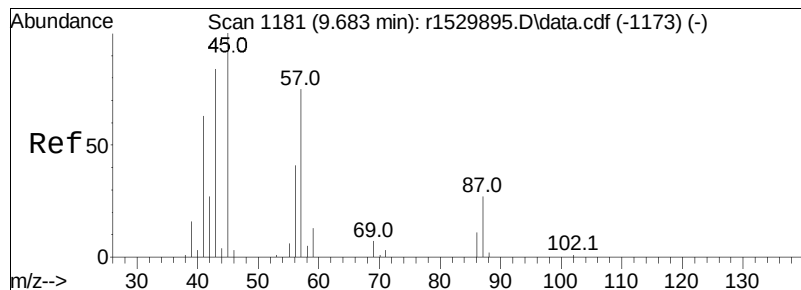




#42
 1,2-dichloroethane
 Concen: 0.26 ppbV
 RT: 10.60 min Scan# 1291
 Delta R.T. -0.025 min
 Lab File: r1531790.D
 Acq: 20 Mar 2022 10:25 PM

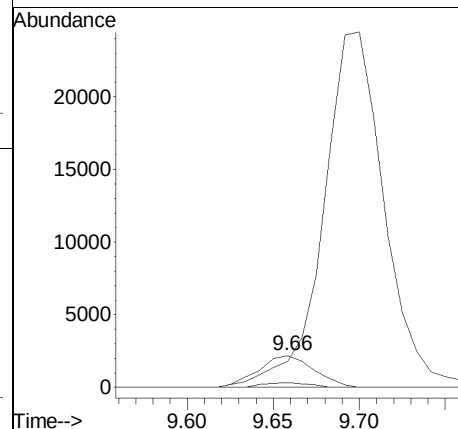
Tgt Ion:	62	Resp:	5984
Ion Ratio	Lower	Upper	
62	100		
64	33.6	25.0	37.4
49	37.9	27.8	41.8
63	17.7	14.4	21.6

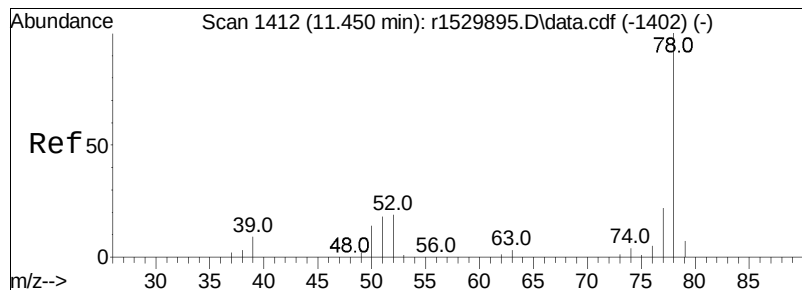




#44
hexane
Concen: 0.14 ppbV
RT: 9.66 min Scan# 1178
Delta R.T. -0.025 min
Lab File: r1531790.D
Acq: 20 Mar 2022 10:25 PM

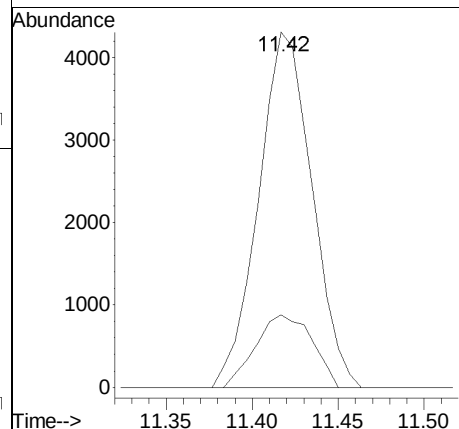
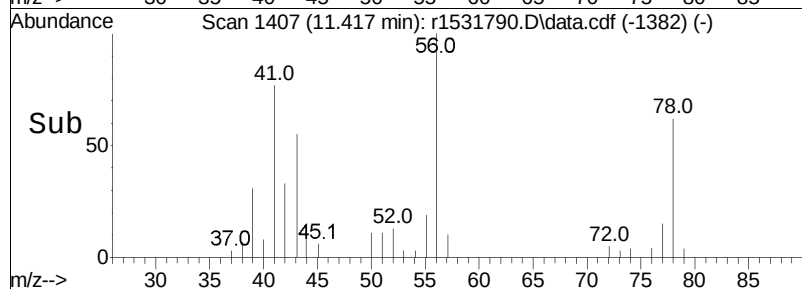
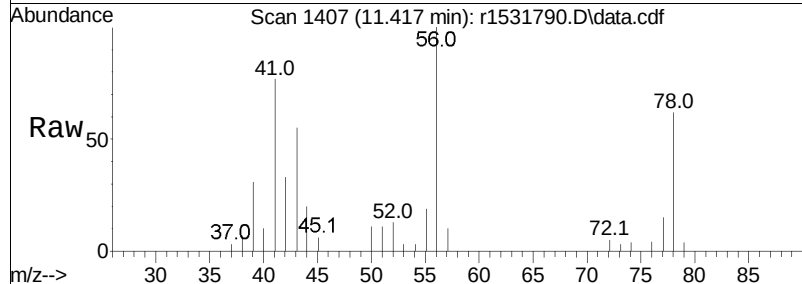
Tgt	Ion	Resp	Lower	Upper
57	100	4926		
43	82.4		88.8	133.2#
86	15.1		11.4	17.0

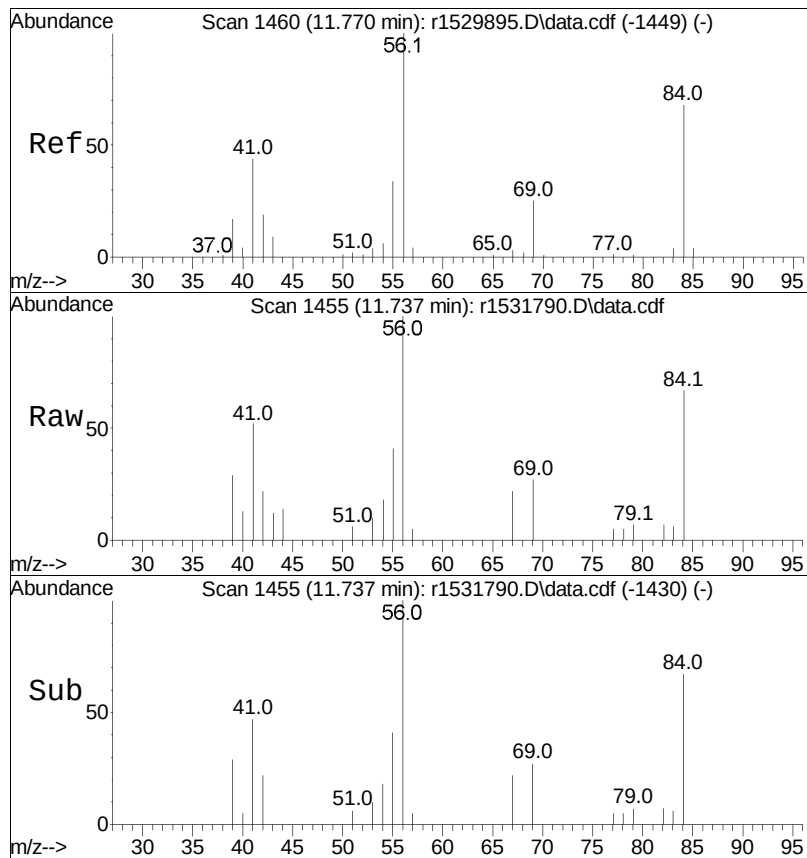




#50
benzene
Concen: 0.16 ppbV
RT: 11.42 min Scan# 1407
Delta R.T. -0.033 min
Lab File: r1531790.D
Acq: 20 Mar 2022 10:25 PM

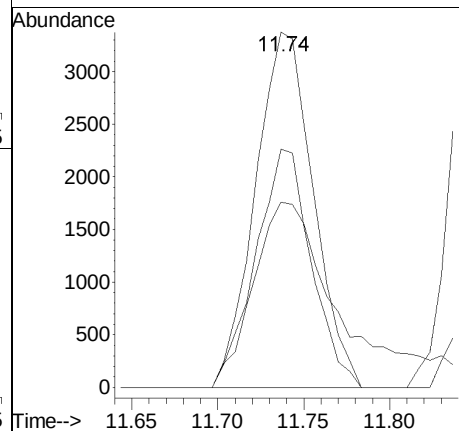
Tgt Ion	Ratio	Lower	Upper
78	100		
52	20.4	15.2	22.8

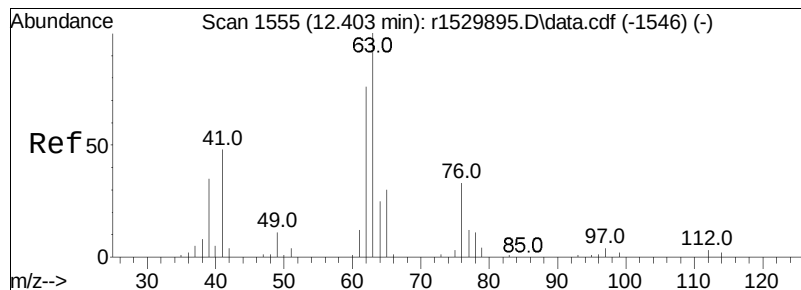




#53
cyclohexane
Concen: 0.21 ppbV
RT: 11.74 min Scan# 1455
Delta R.T. -0.033 min
Lab File: r1531790.D
Acq: 20 Mar 2022 10:25 PM

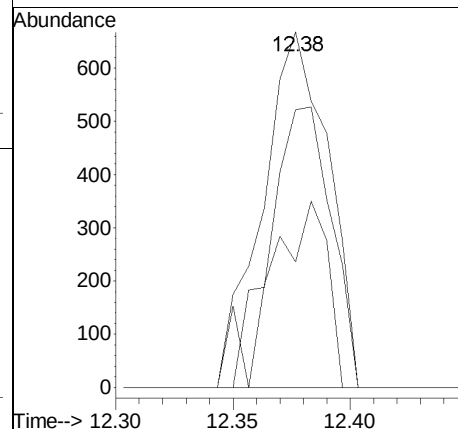
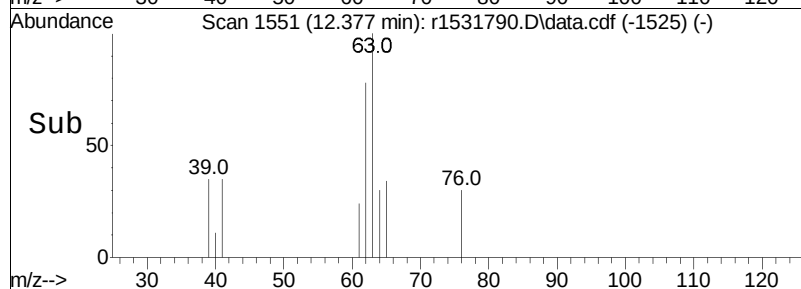
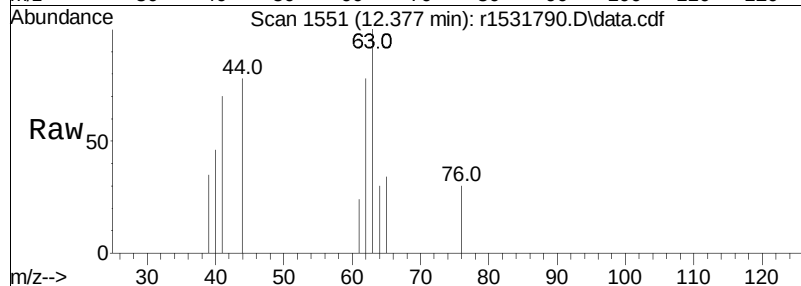
Tgt	Ion: 56	Resp:	7905
Ion	Ratio	Lower	Upper
56	100		
84	67.0	54.8	82.2
41	52.1	35.5	53.3

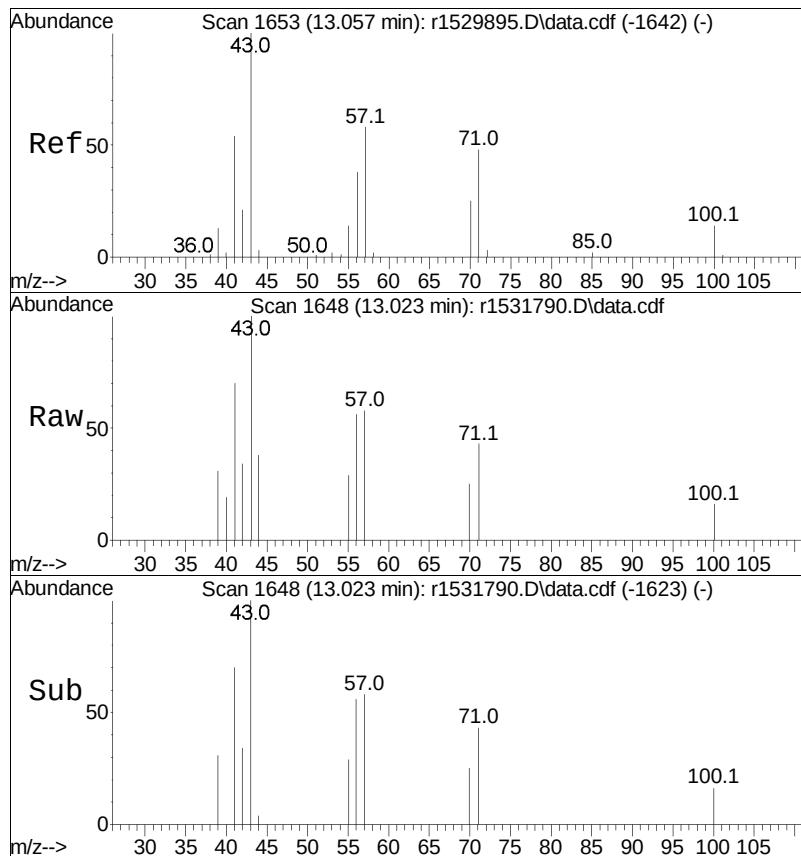




#56
 1,2-dichloropropane
 Concen: 0.06 ppbV
 RT: 12.38 min Scan# 1551
 Delta R.T. -0.027 min
 Lab File: r1531790.D
 Acq: 20 Mar 2022 10:25 PM

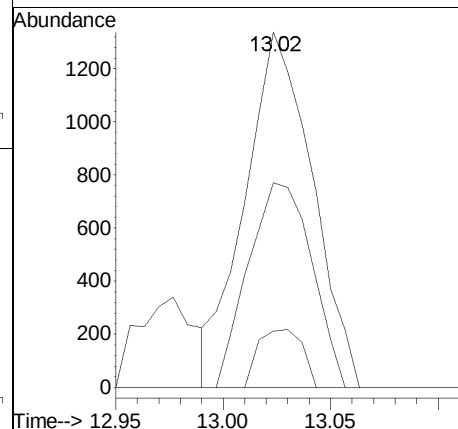
Tgt	Ion	Ratio	Lower	Upper
63	100			
62	78.1	60.6	91.0	
39	35.3	27.8	41.6	

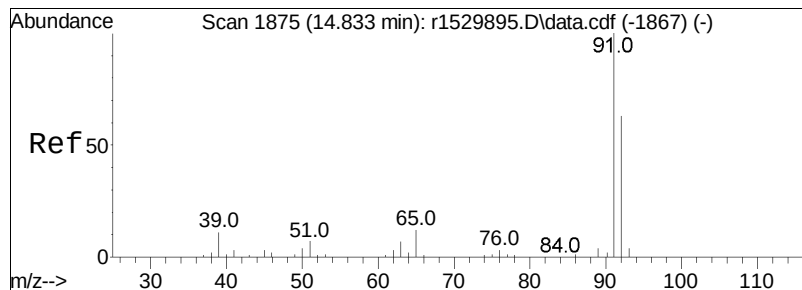




#62
 heptane
 Concen: 0.07 ppbV
 RT: 13.02 min Scan# 1648
 Delta R.T. -0.033 min
 Lab File: r1531790.D
 Acq: 20 Mar 2022 10:25 PM

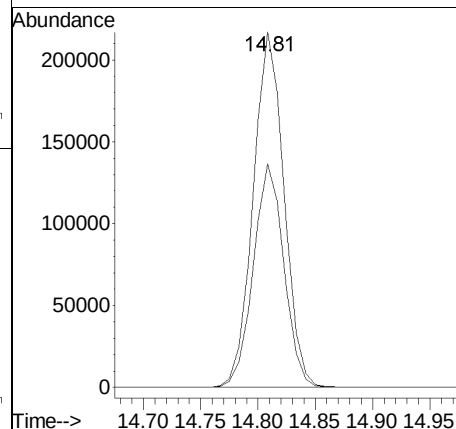
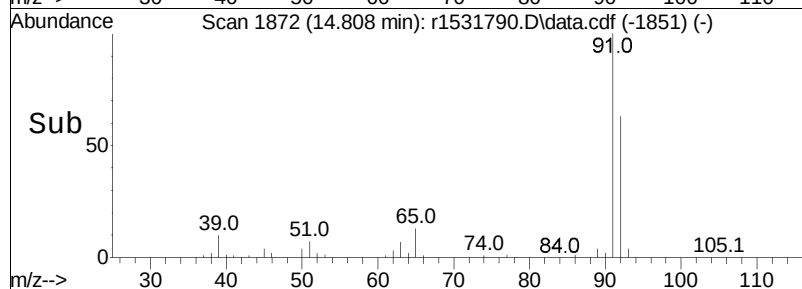
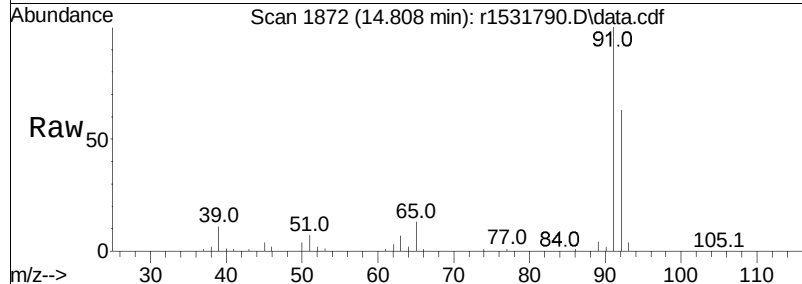
Tgt	Ion: 43	Resp:	2916
Ion	Ratio	Lower	Upper
43	100		
57	57.6	46.5	69.7
100	15.8	11.6	17.4

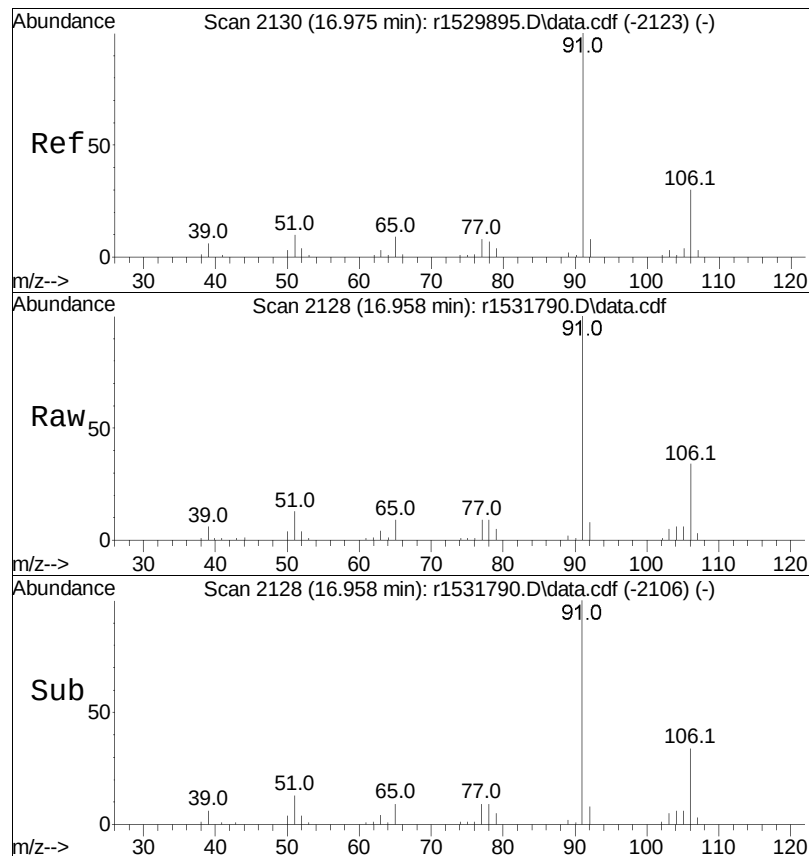




#68
toluene
Concen: 5.44 ppbV
RT: 14.81 min Scan# 1872
Delta R.T. -0.025 min
Lab File: r1531790.D
Acq: 20 Mar 2022 10:25 PM

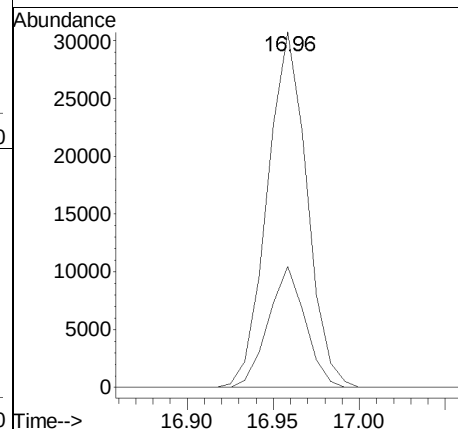
Tgt	Ion	Ratio	Lower	Upper
91	100			
92	62.9	50.3	75.5	

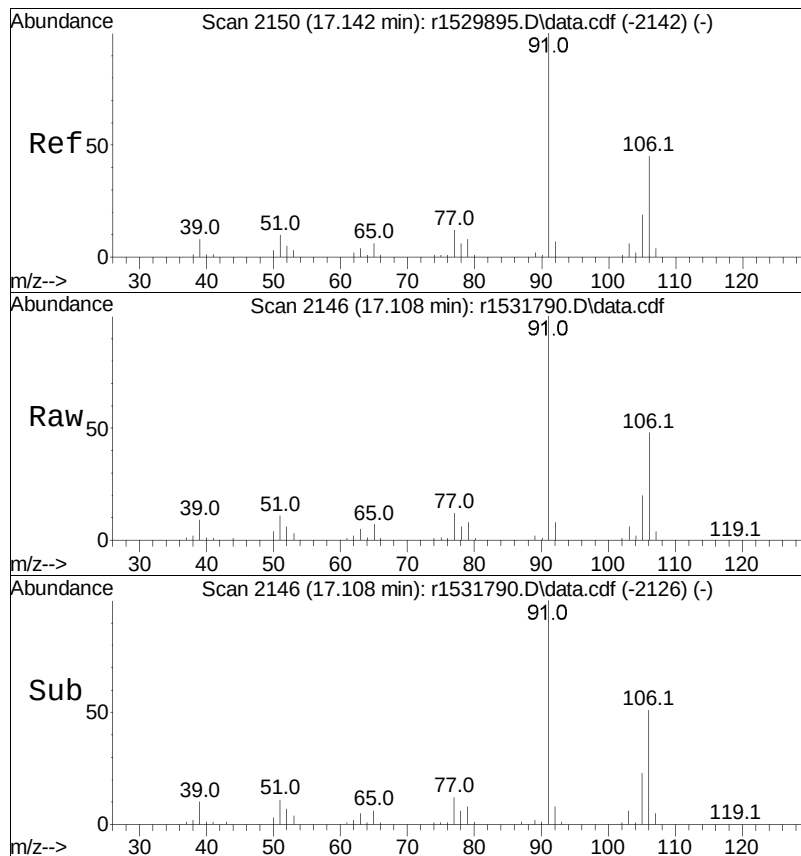




#81
ethylbenzene
Concen: 0.56 ppbV
RT: 16.96 min Scan# 2128
Delta R.T. -0.017 min
Lab File: r1531790.D
Acq: 20 Mar 2022 10:25 PM

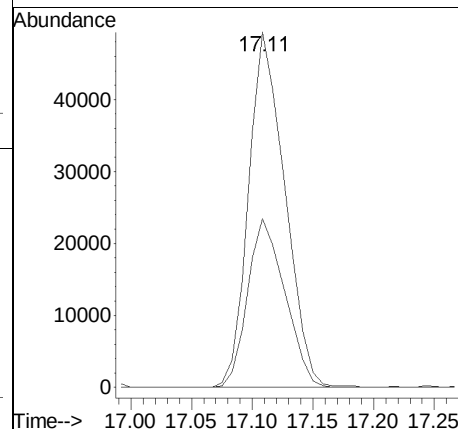
Tgt	Ion	Resp	Lower	Upper
91	100	49241		
106	34.1	24.1	36.1	

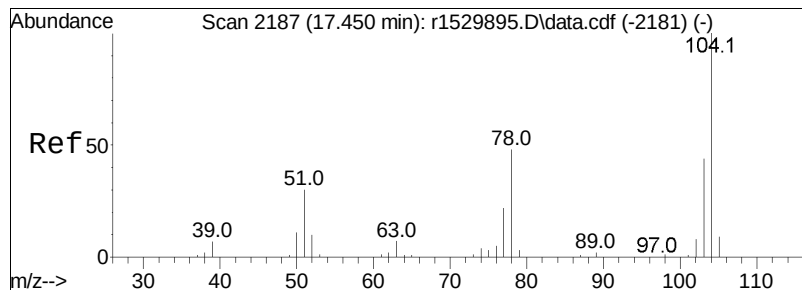




#83
 m+p-xylene
 Concen: 1.43 ppbV
 RT: 17.11 min Scan# 2146
 Delta R.T. -0.033 min
 Lab File: r1531790.D
 Acq: 20 Mar 2022 10:25 PM

Tgt	Ion	Resp	Lower	Upper
91	100	102635		
106	47.6	36.2	54.2	





#85

styrene

Concen: 2.04 ppbV

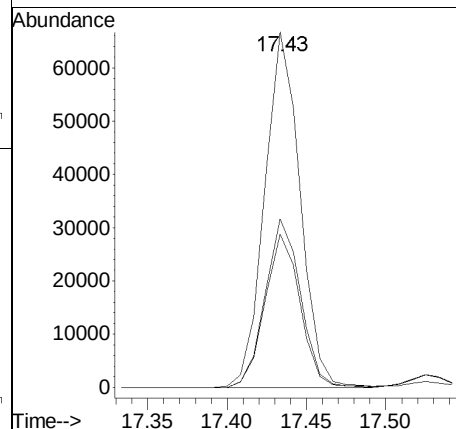
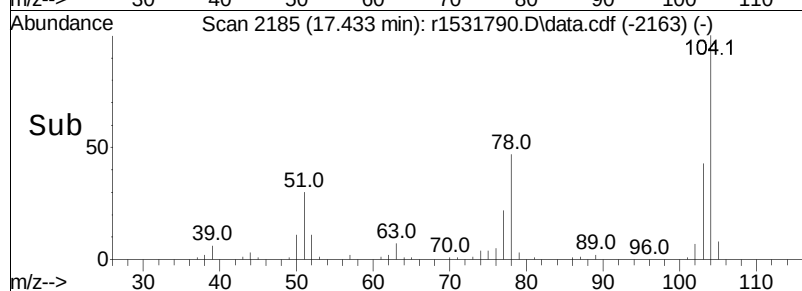
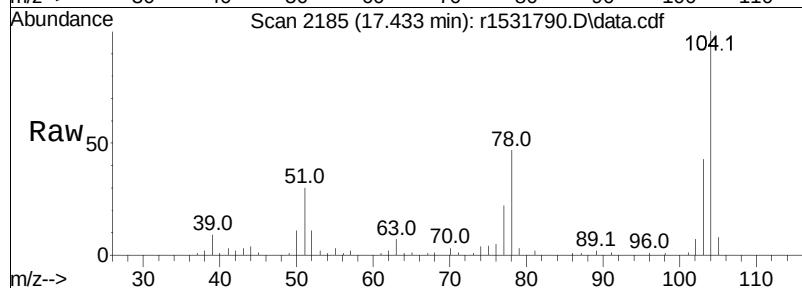
RT: 17.43 min Scan# 2185

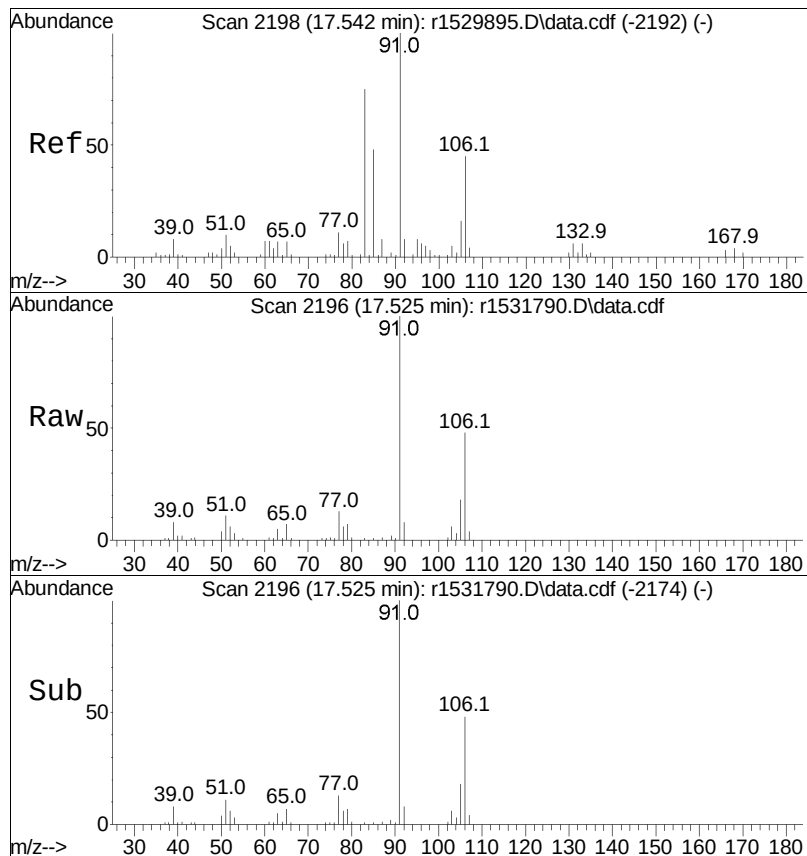
Delta R.T. -0.017 min

Lab File: r1531790.D

Acq: 20 Mar 2022 10:25 PM

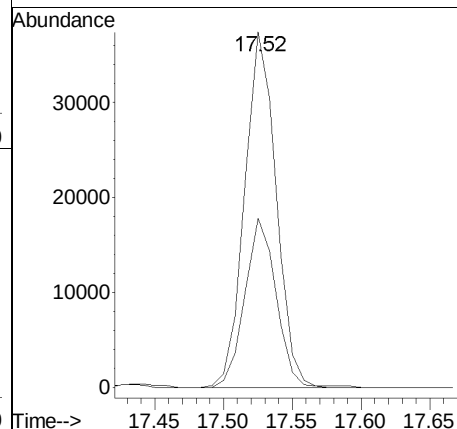
Tgt	Ion:104	Resp:	103384
Ion	Ratio	Lower	Upper
104	100		
103	43.2	35.0	52.6
78	47.4	38.3	57.5

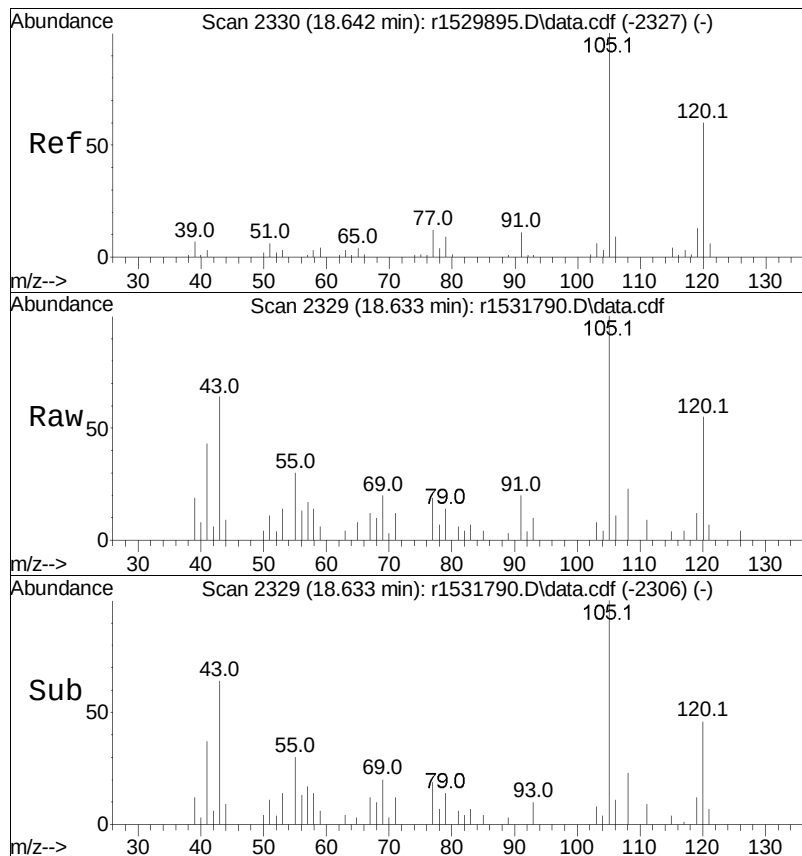




#87
 o-xylene
 Concen: 0.84 ppbV
 RT: 17.52 min Scan# 2196
 Delta R.T. -0.017 min
 Lab File: r1531790.D
 Acq: 20 Mar 2022 10:25 PM

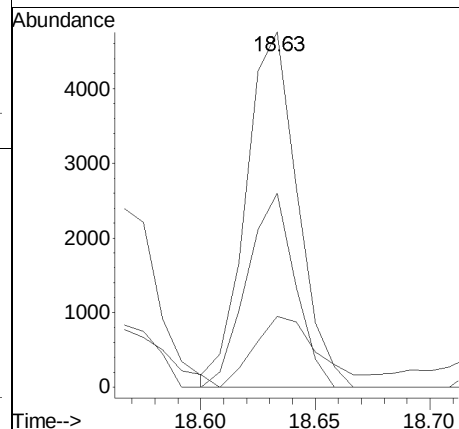
Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.6	35.8	53.8

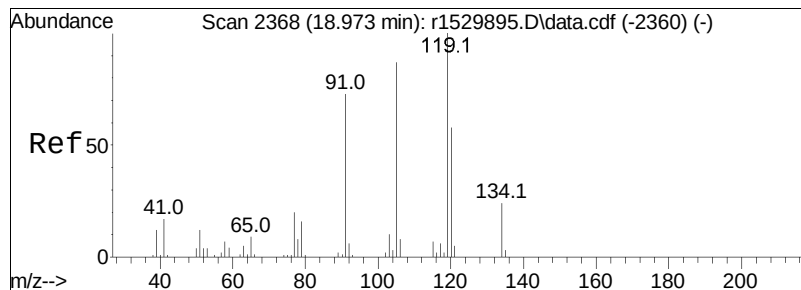




#97
 1,3,5-trimethylbenzene
 Concen: 0.10 ppbV
 RT: 18.63 min Scan# 2329
 Delta R.T. -0.008 min
 Lab File: r1531790.D
 Acq: 20 Mar 2022 10:25 PM

Tgt Ion	Ratio	Lower	Upper
105	100		
120	54.6	47.7	71.5
91	20.0	8.5	12.7#





#99

1,2,4-trimethylbenzene

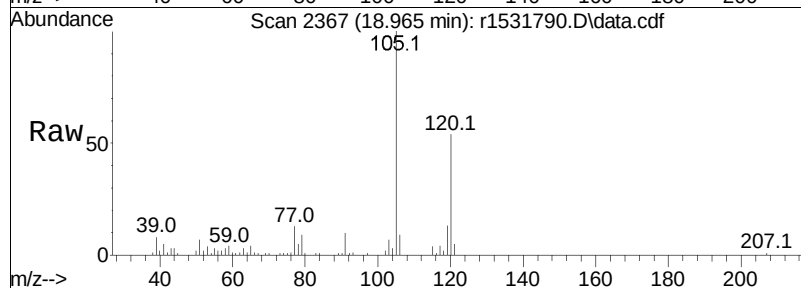
Concen: 0.77 ppbV

RT: 18.97 min Scan# 2367

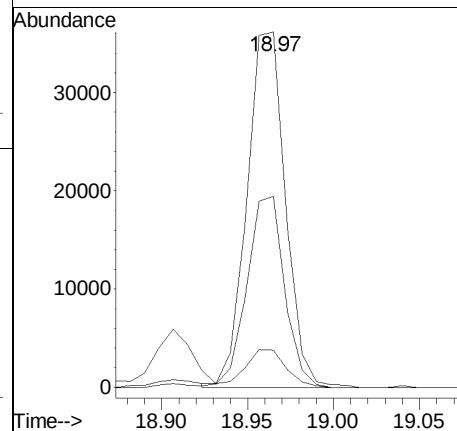
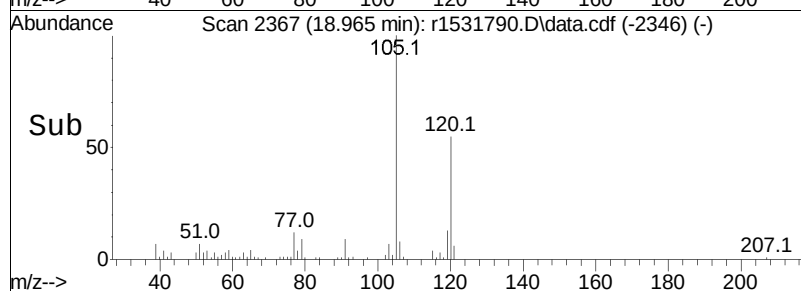
Delta R.T. -0.008 min

Lab File: r1531790.D

Acq: 20 Mar 2022 10:25 PM



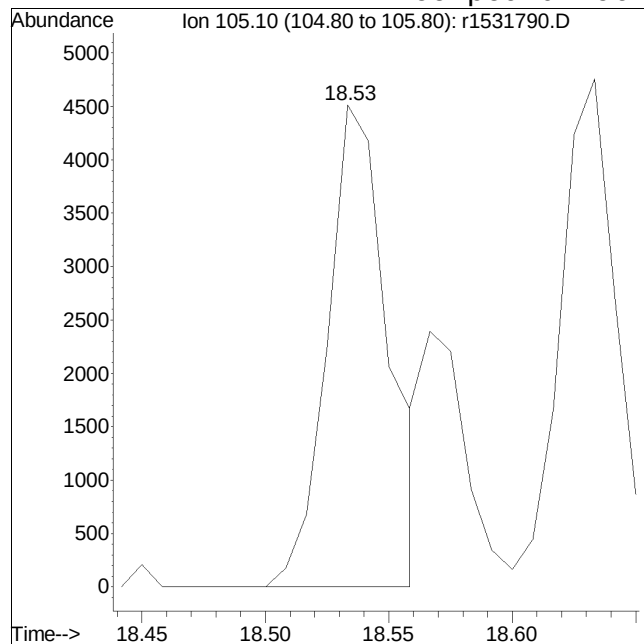
Tgt	Ion:105	Resp:	56361
Ion	Ratio	Lower	Upper
105	100		
120	53.7	52.7	79.1
91	10.5	67.2	100.8#



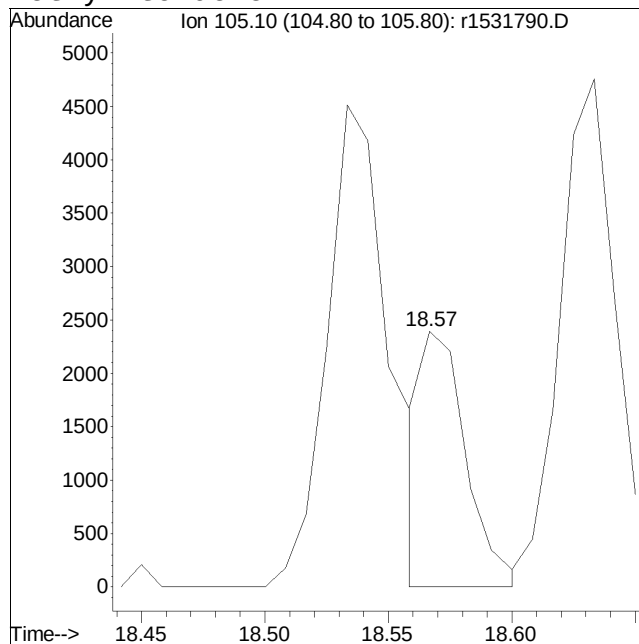
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TFS15_211222.M
 Data File : r1531790.D Operator : AIRLAB15:RY
 Date Inj'd : 3/20/2020 0:0: 5 Instrument :
 Sample : WG1617728-5,3,250,250 Quant Date : 3/21/2022 8:49 am

Compound #96: 4-ethyl toluene



Original Peak Response = 7764



Manual Peak Response = 3014 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{\text{cf}} / V_{\text{ci}}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI / 14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF / 14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 22 2022, 03:07 pm

Work Group: WG1617728 for Department: 3 GC/MS

Created: 20-MAR-22 Due: Operator: NL

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2212126-01	SG-5	S	T015-LL	SOIL_VAPOR	DONE	U	0406	0322	S0	Can-2.7
L2213657-01	VE-1	S	T015-LL	SOIL_VAPOR	DONE	U	0415	0323	2E	Can-2.7
L2213657-02	VE-2-IA	S	T015-LL	AIR	DONE	U	0415	0323	2E	Can-2.7
L2213657-03	DUP-031622	S	T015-LL	AIR	DONE	U	0415	0323	2E	Can-2.7
L2213657-04	VE-2	S	T015-LL	SOIL_VAPOR	DONE	U	0415	0323	2E	Can-2.7
L2213657-05	VE-1-IA	S	T015-LL	AIR	DONE	U	0415	0323	2E	Can-2.7
WG1617728-1	MS BFB Tune Standard	S	T015-LL	SOIL_VAPOR	DONE	U				
WG1617728-1	MS BFB Tune Standard	S	T015-LL	AIR	DONE	U				
WG1617728-2	Continuing Calibrati	S	T015-LL	SOIL_VAPOR	DONE	U				
WG1617728-2	Continuing Calibrati	S	T015-LL	AIR	DONE	U				
WG1617728-3	Laboratory Control S	S	T015-LL	SOIL_VAPOR	DONE	U				
WG1617728-3	Laboratory Control S	S	T015-LL	AIR	DONE	U				
WG1617728-4	Laboratory Method Bl	S	T015-LL	SOIL_VAPOR	DONE	U				
WG1617728-4	Laboratory Method Bl	S	T015-LL	AIR	DONE	U				
WG1617728-5	Duplicate Sample	S	T015-LL	AIR	DONE	U				
WG1617728-5	Duplicate Sample	S	T015-LL	SOIL_VAPOR	DONE	U				
Comments:										
WG1617728-5	L2213657-03									

Alpha Analytical Air Lab Instrument Run Log

ID: AirLab15
 Date: 12/22/21
 Initials: AR

Internal Standard/Surrogate IDs: SS20-028 / SS21-026
 Internal Standard/Surrogate Volume: 100 ml
 Sequence File Name: 211222.S

APH ICAL#
 18551

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	Pass ? Y/ N
1	TA15122201	TO15_SFS.qgm	R1529887.qgd	250 ML	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R1529888.qgd	SS21-036D 50ML	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R1529889.qgd	SS21-036D 100ML	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R1529890.qgd	SS21-036D 250ML	SIM ONLY	DEF	NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R1529891.qgd	SS21-036C 50ML		DEF	NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R1529892.qgd	SS21-036C 125ML		DEF	NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R1529893.qgd	SS21-036C 250ML		DEF	NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R1529894.qgd	SS21-036B 125ML		DEF	NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R1529895.qgd	SS21-036B 250ML		DEF	NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R1529896.qgd	SS21-036A 50ML		DEF	NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R1529897.qgd	SS21-036A 125ML		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R1529898.qgd	SS21-036A 250ML	LL ONLY	DEF	NA
1	BA15122201	TO15_SFS.qgm	R1529899.qgd	250 ML			NA
1	BA15122202	TO15_SFS.qgm	R1529900.qgd	250 ML			NA
2	CTO15-LLSTD10	TO15_SFS.qgm	R1529901.qgd	SS21-033F 250ML	LL ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1529902.qgd	SS21-033F 250ML	SIM ICV	DEF ICV AP2	NA

Alpha Analytical Air Lab Instrument Run Log

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

ID: Airlab15
Date: 03/20/22
Initials: NL

Internal Standard/Surrogate IDs: SS20-028 / SS21-026
Internal Standard/Surrogate Volume: 100 ml
Sequence File Name: 220320.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	Pass ? Y/ N
1	TA15032001	TO15_SFS.qgm	R1531776.qgd	250ml	TUNE		NA
2	CA15032001	TO15_SFS.qgm	R1531777.qgd	250 mL SS21-036F	NJ CC FAILS		NA
3	CTO15-LLSTD10.0	TO15_SFS.qgm	R1531778.qgd	250 mL SS22-005E	LL LCS		NA
3	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1531779.qgd	125 mL SS22-005E	SIM LCS		NA
1	BA15032001	TO15_SFS.qgm	R1531780.qgd	250ml	LL BLANK		NA
1	BA15032002	TO15_SFS.qgm	R1531781.qgd	250ml	SIM BLANK		NA
1	L2212319-01,3,250,250	TO15_SFS.qgm	R1531782.qgd	WG1617729,ICAL18600		MCP	Y
2	L2212319-02,3,250,250	TO15_SFS.qgm	R1531783.qgd	WG1617729,ICAL18600		MCP	Y
3	L2212324-01,3,250,250	TO15_SFS.qgm	R1531784.qgd	WG1617729,ICAL18600		MCP	Y
4	L2212232-01,3,250,250	TO15_SFS.qgm	R1531785.qgd	WG1617727,ICAL18601		9CVOCS VIA SIM	Y
5	L2212232-02,3,250,250	TO15_SFS.qgm	R1531786.qgd	WG1617727,ICAL18601		9CVOCS VIA SIM	Y
6	L2212232-03,3,250,250	TO15_SFS.qgm	R1531787.qgd	WG1617727,ICAL18601		9CVOCS VIA SIM	Y
7	L2213657-02,3,250,250	TO15_SFS.qgm	R1531788.qgd	WG1617728,ICAL18600		NY-7SIM	Y
8	L2213657-03,3,250,250	TO15_SFS.qgm	R1531789.qgd	WG1617728,ICAL18600		NY-7SIM	Y
8	L2213657-03DUP,3,250,250	TO15_SFS.qgm	R1531790.qgd	WG1617728,ICAL18600	LL/SIM (DUMMY) DUP	NY-7SIM	Y
9	L2213657-05,3,250,250	TO15_SFS.qgm	R1531791.qgd	WG1617728,ICAL18600	ETOH OVERCAL	NY-7SIM	Y
10	L2213657-01,3,250,250	TO15_SFS.qgm	R1531792.qgd	WG1617728,ICAL18600		NY	Y
11	L2213657-04D,3,189.9,250	TO15_SFS.qgm	R1531793.qgd	WG1617728,ICAL18600	905	NY	Y
12	L2212006-01,3,250,250	TO15_SFS.qgm	R1531794.qgd	WG1617729,ICAL18600		MCP	Y
13	L2212006-02,3,250,250	TO15_SFS.qgm	R1531795.qgd	WG1617729,ICAL18600		MCP	Y
14	L2212126-01,3,250,250	TO15_SFS.qgm	R1531796.qgd	WG1617728,ICAL18600		NY	Y
15	L2212329-01D,3,55,250	TO15_SFS.qgm	R1531797.qgd	WG1617729,ICAL18600	NT	MCP	Y

Alpha Analytical Air Lab Instrument Run Log

16	L2212329-02D,3,105,250	TO15_SFS.qgm	R1531798.qgd	WG1617729,ICAL18600	NT	MCP	Y
9	L2213657-05D,3,50,250	TO15_SFS.qgm	R1531799.qgd	WG1617728,ICAL18600		ETOH	Y

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

**Alpha Analytical, Inc.
Canister Dilution Worksheet**

	NJDEP Required Information							Pressurization Dilution				Can Dilution				Instrument Dilution		Final Dilution Factor **	Final Volume Injected, mL ***	Analyst Initials
Sample ID	Can size, L	P ₁ in Hg	P ₁ atm	V ₁ L	P ₂ in Hg	P ₂ atm	V ₂ L	P ₁ psia	P ₂ psia	Dilution factor	Gas Used*	Volume injected, mL	Final Pressure, psia	Volume of Dilution Gas in Can, L	Can dilution factor	Volume of Bag or Can Analyzed, mL	Instrument Dilution Factor			
L2213657-04D	2.7	-13.82	0.54	1.45	-8.71	0.71	1.91	7.9	10.4	1.32	N2	1000	14.7	1.00	1.00	250	1.00	1.32	189.90	BB

*N2 = Nitrogen and H2= Hydrogen

** Dilution factor on this spreadsheet may differ from reported dilution factor (calculated by LIMs) due to different rounding rules

*** Reported to 2 decimal places unless 0.01 or less; then 3 decimal places are reported

Analyst data input fields

Analyst Comments:

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Volatiles QC Summary

Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Client Sample ID	: DUP-031622	Matrix	: AIR
Lab Sample ID	: L2213657-03	Analysis Date	: 03/20/22 21:45
Lab File ID	: R1531789_EV2	DUP File ID	: r1531790_Ev2
Dup Sample ID	: WG1617727-5	DUP Analysis Date	: 03/20/22 22:25

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Vinyl chloride	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
cis-1,2-Dichloroethene	ND	ND	NC	25
1,1,1-Trichloroethane	ND	ND	NC	25
Carbon tetrachloride	0.074	0.071	4	25
Trichloroethene	0.024	0.024	0	25
Tetrachloroethene	0.165	0.162	2	25

Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2213657
 Project Name : FORMER CLEAN ZONE DRY CLEANERS Project Number : 2546.0007Y002
 Matrix : AIR
 LCS Sample ID : WG1617727-3 Analysis Date : 03/20/22 13:57 File ID : r1531779_Ev2
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Vinyl chloride	5	3.93	79				-	70-130	25
1,1-Dichloroethene	5	4.15	83				-	70-130	25
cis-1,2-Dichloroethene	5	3.90	78				-	70-130	25
1,1,1-Trichloroethane	5	4.38	88				-	70-130	25
Carbon tetrachloride	5	4.28	86				-	70-130	25
Trichloroethene	5	4.24	85				-	70-130	25
Tetrachloroethene	5	4.17	83				-	70-130	25



Method Blank Summary
Form 4
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Lab Sample ID	: WG1617727-4	Lab File ID	: r1531781_Ev2
Instrument ID	: AIRLAB15		
Matrix	: AIR	Analysis Date	: 03/20/22 15:59

Client Sample No.	Lab Sample ID	Analysis Date
WG1617727-3LCS	WG1617727-3	03/20/22 13:57
VE-2-IA	L2213657-02	03/20/22 21:06
DUP-031622	L2213657-03	03/20/22 21:45
DUP-031622DUP	WG1617727-5	03/20/22 22:25
VE-1-IA	L2213657-05	03/20/22 23:04

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Analysis Date	: 12/22/21 03:37
Tune Standard	: WG1587796-1	Tune File ID	: r1529887_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	17.4
75	30.0 - 66.0% of mass 95	39.7
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	0.5 (.7)1
174	50.0 - 120.0% of mass 95	64.3
175	4.0 - 9.0% of mass 174	4.6 (7.2)1
176	93.0 - 101% of mass 174	62.5 (97.2)1
177	5.0 - 9.0% of mass 176	4.1 (6.6)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1517044-1	R1529888_EV2	12/22/21 04:15
STD0.05	R1517044-2	R1529889_EV2	12/22/21 04:54
STD0.1	R1517044-4	R1529890_EV2	12/22/21 05:35
STD0.2	R1517044-3	R1529891_EV2	12/22/21 06:12
STD0.5	R1517044-5	R1529892_EV2	12/22/21 06:51
STD1.0	R1517044-6	R1529893_EV2	12/22/21 07:32
STD5.0	R1517044-7	R1529894_EV2	12/22/21 08:11
STD010	R1517044-8	R1529895_EV2	12/22/21 08:52
STD020	R1517044-10	R1529896_EV2	12/22/21 09:29
STD050	R1517044-9	R1529897_EV2	12/22/21 10:08
ICV QUANT	R1517044-11	R1529902_EV2	12/22/21 15:07

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Analysis Date	: 03/20/22 11:40
Tune Standard	: WG1617727-1	Tune File ID	: r1531776_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	17.6
75	30.0 - 66.0% of mass 95	38.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.4 (.7)1
174	50.0 - 120.0% of mass 95	57.7
175	4.0 - 9.0% of mass 174	3.9 (6.8)1
176	93.0 - 101% of mass 174	55 (95.3)1
177	5.0 - 9.0% of mass 176	3.4 (6.3)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1617727-2CCAL	WG1617727-2	R1531779_EV2	03/20/22 13:57
WG1617727-3LCS	WG1617727-3	R1531779_EV2	03/20/22 13:57
WG1617727-4BLANK	WG1617727-4	R1531781_EV2	03/20/22 15:59
VE-2-IA	L2213657-02	R1531788_EV2	03/20/22 21:06
DUP-031622	L2213657-03	R1531789_EV2	03/20/22 21:45
WG1617727-5DUP	WG1617727-5	R1531790_EV2	03/20/22 22:25
VE-1-IA	L2213657-05	R1531791_EV2	03/20/22 23:04

Internal Standard Area and RT Summary

Form 8a

Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Analysis Date	: 03/20/22 13:57:00
Sample No	: WG1617727-2	Lab File ID	: R1531779_EV2

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1617727-2	238569	9.57	552111	11.86	125385	16.57
Upper Limit	333997	9.90	772955	12.19	175539	16.90
Lower Limit	143141	9.24	331267	11.53	75231	16.24
Sample ID						
WG1617727-3 LCS	238569	9.57	552111	11.86	125385	16.57
WG1617727-4 BLANK	241611	9.58	524044	11.86	119393	16.57
VE-2-IA	236764	9.57	531351	11.86	122893	16.57
DUP-031622	238934	9.57	532568	11.86	124471	16.57
DUP-031622 DUP	236396	9.57	532046	11.86	123487	16.57
VE-1-IA	236651	9.57	525042	11.85	122944	16.57

Area Upper Limit = +40% of internal standard area
Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT
RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits





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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.02	0.0083	ppbV	70-130	25		25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.02	0.0053	ppbV	70-130	25		25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.02	0.0056	ppbV	70-130	25		25	25			
1,1,2-Trichloroethane	79-00-5	0.02	0.0058	ppbV	70-130	25		25	25			
1,1-Dichloroethane	75-34-3	0.02	0.0073	ppbV	70-130	25		25	25			
1,1-Dichloroethene	75-35-4	0.02	0.0084	ppbV	70-130	25		25	25			
1,2,4-Trimethylbenzene	95-63-6	0.02	0.0043	ppbV	70-130	25		25	25			
1,2-Dibromoethane	106-93-4	0.02	0.008	ppbV	70-130	25		25	25			
1,2-Dichlorobenzene	95-50-1	0.02	0.0098	ppbV	70-130	25		25	25			
1,2-Dichloroethane	107-06-2	0.02	0.0097	ppbV	70-130	25		25	25			
1,2-Dichloropropane	78-87-5	0.02	0.0054	ppbV	70-130	25		25	25			
1,3,5-Trimethylbenzene	108-67-8	0.02	0.0056	ppbV	70-130	25		25	25			
1,3-Butadiene	106-99-0	0.02	0.0097	ppbV	70-130	25		25	25			
1,3-Dichlorobenzene	541-73-1	0.02	0.0056	ppbV	70-130	25		25	25			
1,4-Dichlorobenzene	106-46-7	0.02	0.0053	ppbV	70-130	25		25	25			
1,4-Dioxane	123-91-1	0.1	0.032	ppbV	70-130	25		25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.0063	ppbV	70-130	25		25	25			
2-Hexanone	591-78-6	0.2	0.015	ppbV	70-130	25		25	25			
3-Chloropropene	107-05-1	0.2	0.0067	ppbV	70-130	25		25	25			
4-Ethyltoluene	622-96-8	0.02	0.0042	ppbV	70-130	25		25	25			
Benzene	71-43-2	0.1	0.005	ppbV	70-130	25		25	25			
Benzyl chloride	100-44-7	0.1	0.0072	ppbV	70-130	25		25	25			
Bromodichloromethane	75-27-4	0.02	0.0067	ppbV	70-130	25		25	25			
Bromoform	75-25-2	0.02	0.0065	ppbV	70-130	25		25	25			
Bromomethane	74-83-9	0.02	0.0085	ppbV	70-130	25		25	25			
Carbon disulfide	75-15-0	0.2	0.0138	ppbV	70-130	25		25	25			
Carbon tetrachloride	56-23-5	0.02	0.01	ppbV	70-130	25		25	25			
Chlorobenzene	108-90-7	0.1	0.0064	ppbV	70-130	25		25	25			
Chloroethane	75-00-3	0.1	0.0135	ppbV	70-130	25		25	25			
Chloroform	67-66-3	0.02	0.0089	ppbV	70-130	25		25	25			
Chloromethane	74-87-3	0.2	0.024	ppbV	70-130	25		25	25			
cis-1,2-Dichloroethene	156-59-2	0.02	0.0096	ppbV	70-130	25		25	25			
trans-1,2-Dichloroethene	156-60-5	0.02	0.0076	ppbV	70-130	25		25	25			
1,2-Dichloroethene (total)	540-59-0	0.02	0.0076	ppbV				25	25			
cis-1,3-Dichloropropene	10061-01-5	0.02	0.007	ppbV	70-130	25		25	25			
1,3-Dichloropropene, Total	542-75-6	0.02	0.007	ppbV				25	25			
Cyclohexane	110-82-7	0.2	0.0064	ppbV	70-130	25		25	25			
Dibromochloromethane	124-48-1	0.02	0.0086	ppbV	70-130	25		25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.018	ppbV	70-130	25		25	25			
Ethyl Alcohol	64-17-5	5	0.329	ppbV	40-160	25		25	25			
Ethyl Acetate	141-78-6	0.5	0.0307	ppbV	70-130	25		25	25			
Ethylbenzene	100-41-4	0.02	0.0049	ppbV	70-130	25		25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.05	0.0088	ppbV	70-130	25		25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.05	0.0072	ppbV	70-130	25		25	25			
Methylene chloride	75-09-2	0.5	0.0131	ppbV	70-130	25		25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.0083	ppbV	70-130	25		25	25			
Naphthalene	91-20-3	0.05	0.035	ppbV	70-130	25		25	25			
p/m-Xylene	179601-23-1	0.04	0.019	ppbV	70-130	25		25	25			
o-Xylene	95-47-6	0.02	0.0067	ppbV	70-130	25		25	25			
Heptane	142-82-5	0.2	0.0041	ppbV	70-130	25		25	25			
n-Hexane	110-54-3	0.2	0.0048	ppbV	70-130	25		25	25			
Propylene	115-07-1	0.5	0.0465	ppbV	70-130	25		25	25			
Styrene	100-42-5	0.02	0.0049	ppbV	70-130	25		25	25			
Tetrachloroethene	127-18-4	0.02	0.0078	ppbV	70-130	25		25	25			
Tetrahydrofuran	109-99-9	0.5	0.0066	ppbV	70-130	25		25	25			
Toluene	108-88-3	0.1	0.014	ppbV	70-130	25		25	25			
trans-1,3-Dichloropropene	10061-02-6	0.02	0.007	ppbV	70-130	25		25	25			
Trichloroethene	79-01-6	0.02	0.0062	ppbV	70-130	25		25	25			
1,2,4-Trichlorobenzene	120-82-1	0.05	0.03	ppbV	70-130	25		25	25			
Trichlorofluoromethane	75-69-4	0.05	0.0095	ppbV	70-130	25		25	25			
Vinyl acetate	108-05-4	1	0.0111	ppbV	70-130	25		25	25			
Vinyl bromide	593-60-2	0.2	0.0099	ppbV	70-130	25		25	25			
Hexachlorobutadiene	87-68-3	0.05	0.017	ppbV	70-130	25		25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.179	ppbV	40-160	25		25	25			
Vinyl chloride	75-01-4	0.02	0.0072	ppbV	70-130	25		25	25			
Acrylonitrile	107-13-1	0.5	0.0245	ppbV	70-130	25		25	25			
n-Butylbenzene	104-51-8	0.2	0.0048	ppbV	70-130	25		25	25			
sec-Butylbenzene	135-98-8	0.2	0.0032	ppbV	70-130	25		25	25			
Isopropylbenzene	98-82-8	0.2	0.0053	ppbV	70-130	25		25	25			
Xylene (Total)	1330-20-7	0.02	0.0067	ppbV				25	25			
p-Isopropyltoluene	99-87-6	0.2	0.0045	ppbV	70-130	25		25	25			
Acetone	67-64-1	1	0.299	ppbV	40-160	25		25	25			
2-Butanone	78-93-3	0.5	0.027	ppbV	70-130	25		25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.012	ppbV	70-130	25		25	25			
1,2,3-Trichlorobenzene	87-61-6	0.05	0.0134	ppbV	70-130	25		25	25			
Acrolein	107-02-8	0.05	0.0387	ppbV	60-113	25		25	25			
1,2-Dichloroethane-d4	17060-07-0									70-130		
Toluene-d8	2037-26-5									70-130		
Bromofluorobenzene	460-00-4									70-130		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-02
 Client ID : VE-2-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1531788_EV2
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:13
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 21:06
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.071	0.020	--	0.447	0.126	--	
79-01-6	Trichloroethene	0.024	0.020	--	0.129	0.107	--	
127-18-4	Tetrachloroethene	0.163	0.020	--	1.11	0.136	--	

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-03
 Client ID : DUP-031622
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1531789_EV2
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:14
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 21:45
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.074	0.020	--	0.465	0.126	--	
79-01-6	Trichloroethene	0.024	0.020	--	0.129	0.107	--	
127-18-4	Tetrachloroethene	0.165	0.020	--	1.12	0.136	--	

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : L2213657-05
 Client ID : VE-1-IA
 Sample Location : YONKERS, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1531791_EV2
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 13:01
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 23:04
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	0.041	0.020	--	0.163	0.079	--	
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.072	0.020	--	0.453	0.126	--	
79-01-6	Trichloroethene	0.031	0.020	--	0.167	0.107	--	
127-18-4	Tetrachloroethene	3.19	0.020	--	21.6	0.136	--	

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : WG1617727-4
 Client ID : WG1617727-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1531781_EV2
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/20/22 15:59
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	ND	0.020	--	ND	0.126	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : FORMER CLEAN ZONE DRY CLEANERS
 Lab ID : WG1617727-5
 Client ID : DUP-031622DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1531790_EV2
 Sample Amount : 250 ml

Lab Number : L2213657
 Project Number : 2546.0007Y002
 Date Collected : 03/16/22 12:14
 Date Received : 03/16/22
 Date Analyzed : 03/20/22 22:25
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.071	0.020	--	0.447	0.126	--	
79-01-6	Trichloroethene	0.024	0.020	--	0.129	0.107	--	
127-18-4	Tetrachloroethene	0.162	0.020	--	1.10	0.136	--	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531788_Ev2.D
 Acq On : 20 Mar 2022 9:06 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-02,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:19:54 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\r1531779_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.57	49	236764	10.000	ppbV	-0.03
Standard Area = 238569			Recovery =		99.24%	
33) 1,4-difluorobenzene	11.86	114	531351	10.000	ppbV	-0.03
Standard Area = 552111			Recovery =		96.24%	
51) chlorobenzene-D5	16.57	54	122893	10.000	ppbV	-0.02
Standard Area = 125385			Recovery =		98.01%	

System Monitoring Compounds

Target Compounds					Qvalue
6) vinyl chloride	0.00		0	N.D.	
17) 1,1-dichloroethene	0.00		0	N.D.	d
28) cis-1,2-dichloroethene	0.00		0	N.D.	
36) 1,1,1-trichloroethane	10.89		0	N.D.	
38) carbon tetrachloride	11.59	117	1022	0.071	ppbV # 93
44) trichloroethene	12.66	130	353	0.024	ppbV 92
57) tetrachloroethene	15.97	166	2544	0.163	ppbV 97

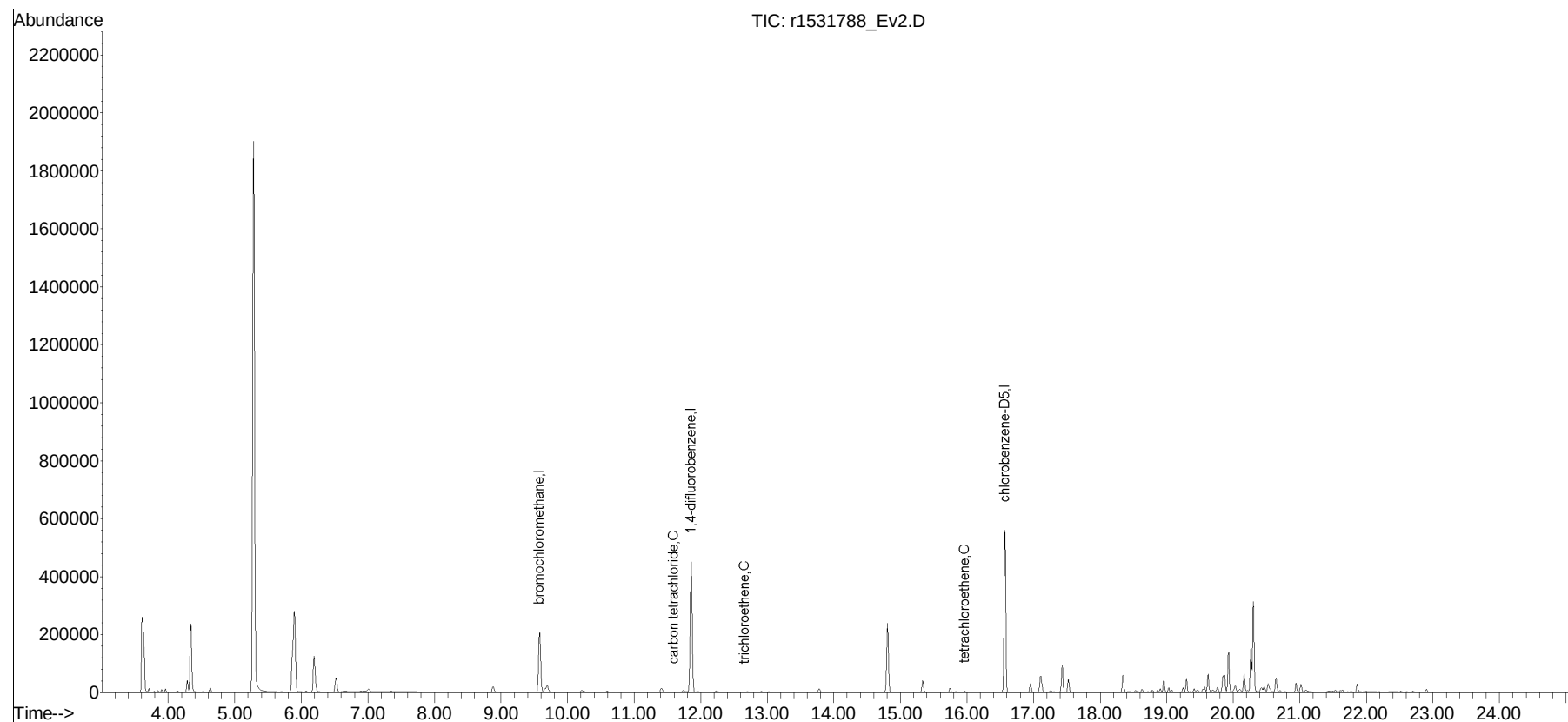
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

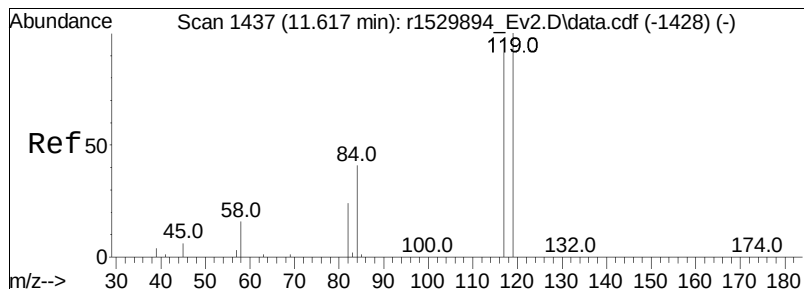
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
Data File : r1531788_Ev2.D
Acq On : 20 Mar 2022 9:06 PM
Operator : AIRLAB15:RY
Sample : L2213657-02,3,250,250
Misc : WG1617727,ICAL18601
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:19:54 2022
Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Dec 27 10:35:25 2021
Response via : Initial Calibration

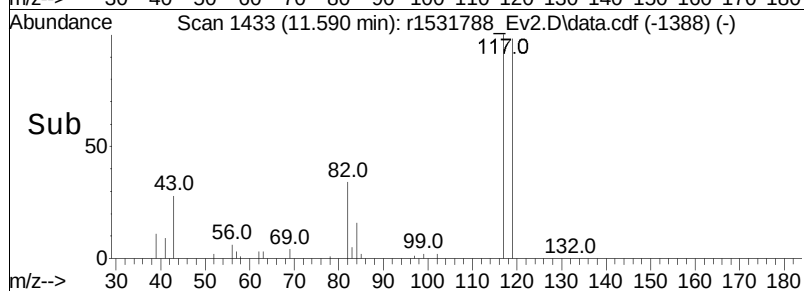
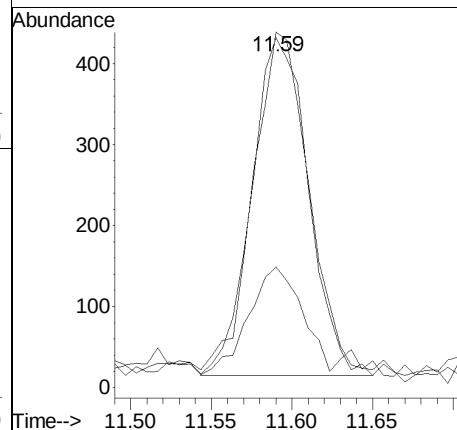
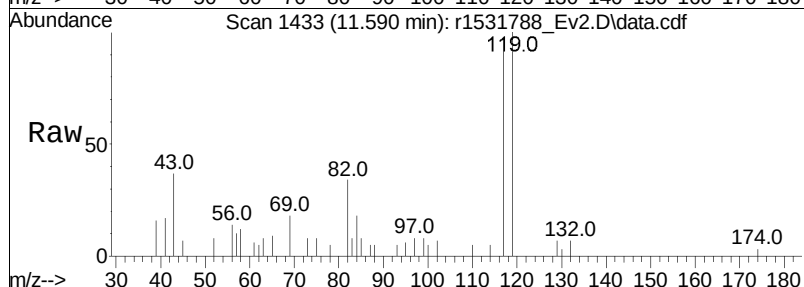
Sub List : 7-NY-SIM - .\Data\Airlab15\2022\03\0320SIM\r1531779_Ev2.D

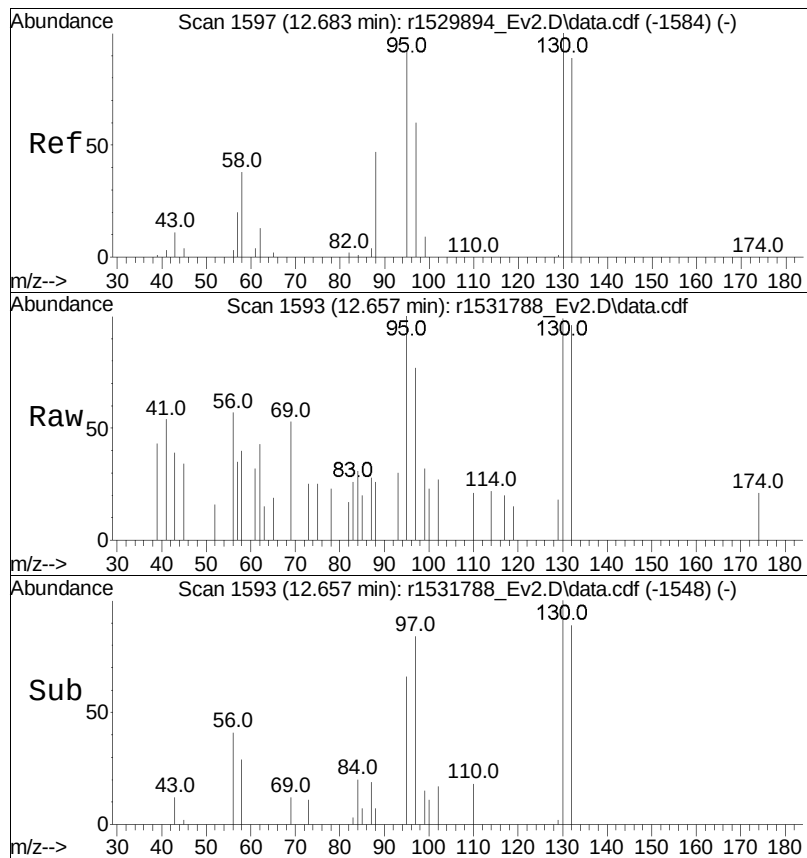




#38
 carbon tetrachloride
 Concen: 0.07 ppbV
 RT: 11.59 min Scan# 1433
 Delta R.T. -0.027 min
 Lab File: r1531788_Ev2.D
 Acq: 20 Mar 2022 9:06 PM

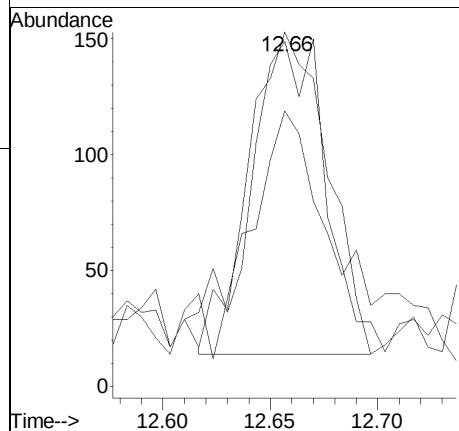
Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	101.6	78.2	117.4	
82	34.5	20.5	30.7#	

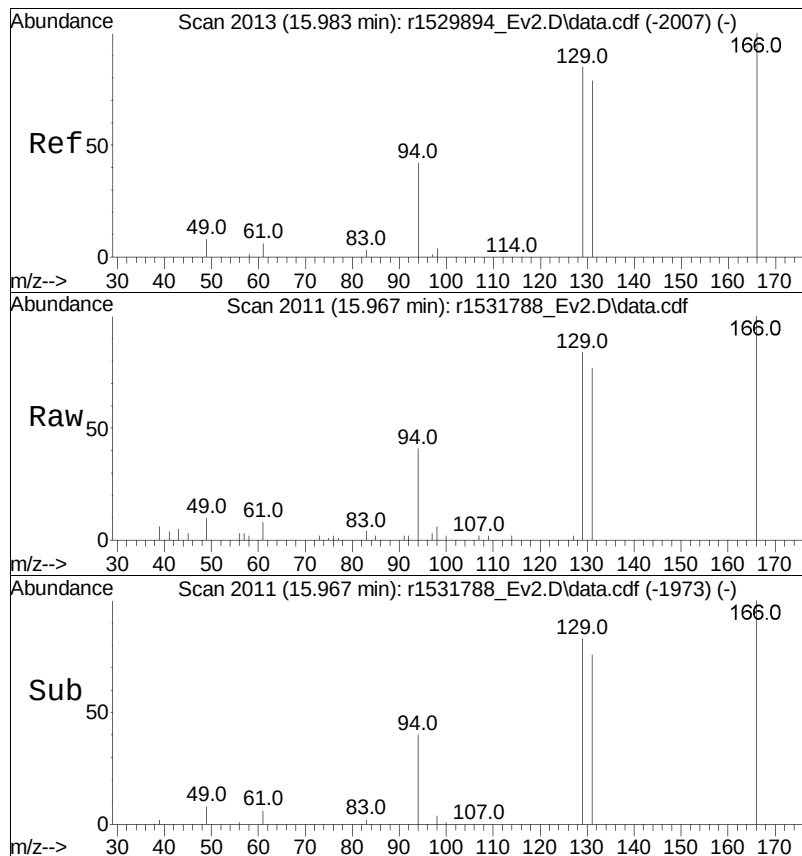




#44
trichloroethene
Concen: 0.02 ppbV
RT: 12.66 min Scan# 1593
Delta R.T. -0.027 min
Lab File: r1531788_Ev2.D
Acq: 20 Mar 2022 9:06 PM

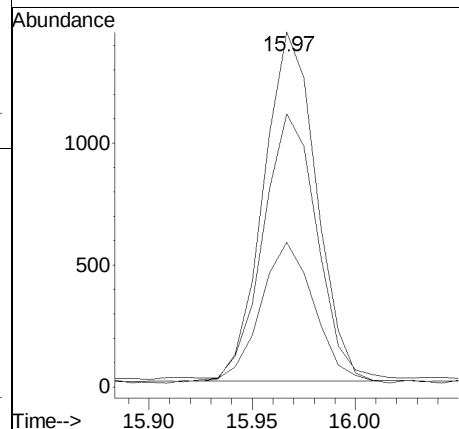
Tgt Ion:	130	Resp:	353
Ion Ratio	Lower	Upper	
130	100		
132	97.4	76.2	114.4
97	77.8	52.2	78.4





#57
 tetrachloroethene
 Concen: 0.16 ppbV
 RT: 15.97 min Scan# 2011
 Delta R.T. -0.017 min
 Lab File: r1531788_Ev2.D
 Acq: 20 Mar 2022 9:06 PM

Tgt Ion:	166	Resp:	2544
Ion Ratio	Lower	Upper	
166	100		
131	77.0	64.3	96.5
94	40.8	33.2	49.8



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_211222.M
Data File : r1531788_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:9: 6 Instrument :
Sample : L2213657-02,3,250,250 Quant Date : 3/21/2022 8:39 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531789_Ev2.D
 Acq On : 20 Mar 2022 9:45 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-03,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 08:39:39 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\r1531779_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.57	49	238934	10.000	ppbV	-0.03
Standard Area = 238569			Recovery = 100.15%			
33) 1,4-difluorobenzene	11.86	114	532568	10.000	ppbV	-0.03
Standard Area = 552111			Recovery = 96.46%			
51) chlorobenzene-D5	16.57	54	124471	10.000	ppbV	-0.02
Standard Area = 125385			Recovery = 99.27%			

System Monitoring Compounds

Target Compounds						Qvalue
6) vinyl chloride	0.00		0		N.D.	
17) 1,1-dichloroethene	0.00		0		N.D.	
28) cis-1,2-dichloroethene	0.00		0		N.D.	
36) 1,1,1-trichloroethane	0.00		0		N.D.	
38) carbon tetrachloride	11.60	117	1061	0.074	ppbV	93
44) trichloroethene	12.66	130	351	0.024	ppbV	92
57) tetrachloroethene	15.97	166	2610	0.165	ppbV	97

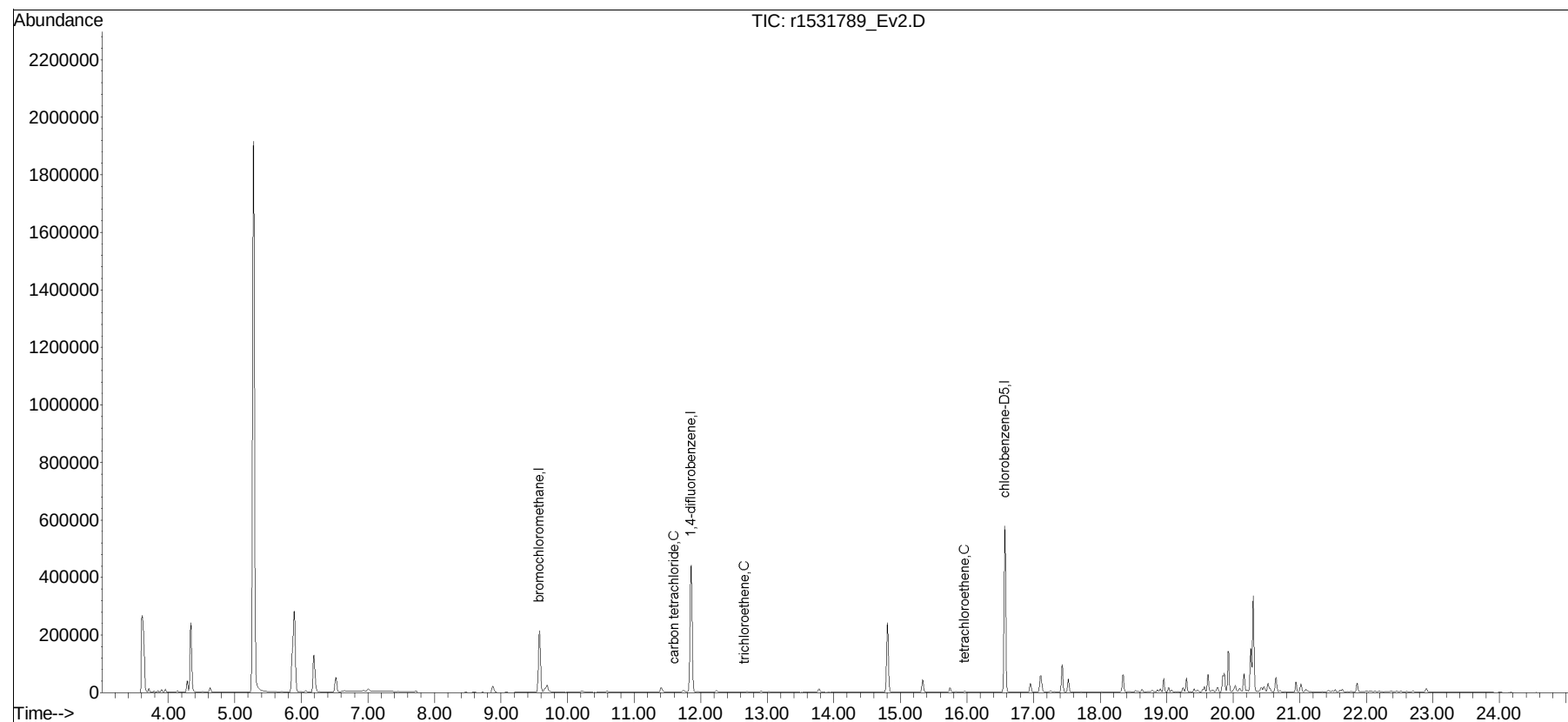
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

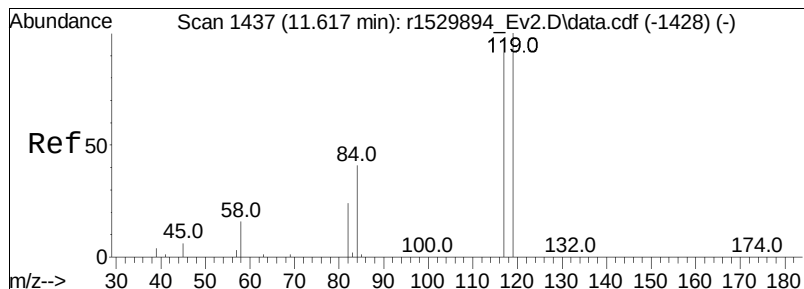
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
Data File : r1531789_Ev2.D
Acq On : 20 Mar 2022 9:45 PM
Operator : AIRLAB15:RY
Sample : L2213657-03,3,250,250
Misc : WG1617727,ICAL18601
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 08:39:39 2022
Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Dec 27 10:35:25 2021
Response via : Initial Calibration

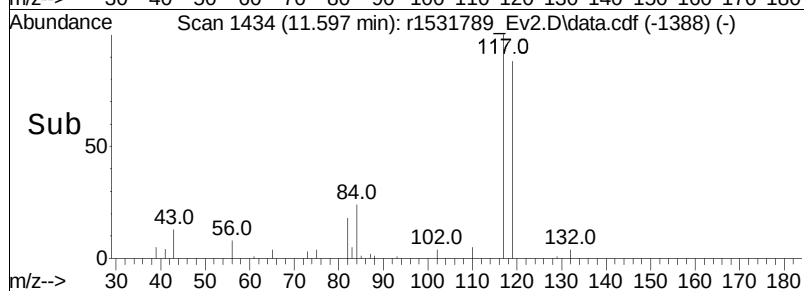
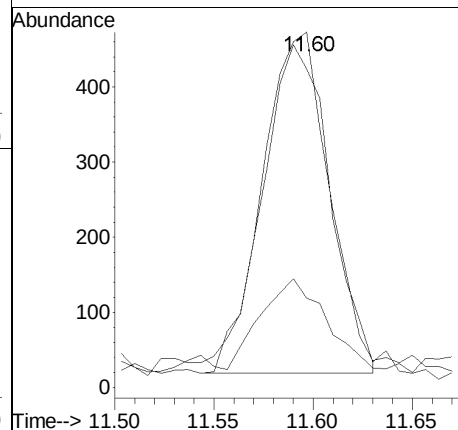
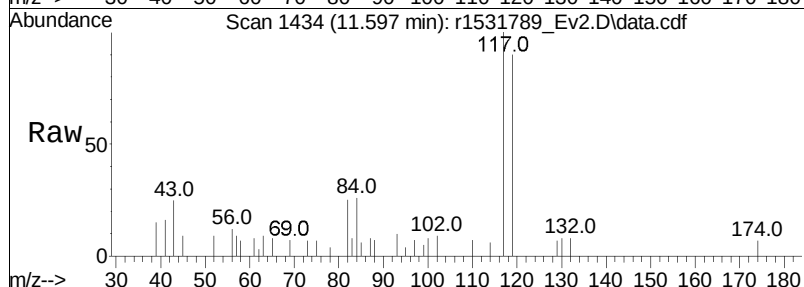
Sub List : 7-NY-SIM - .\Data\Airlab15\2022\03\0320SIM\r1531779_Ev2.D

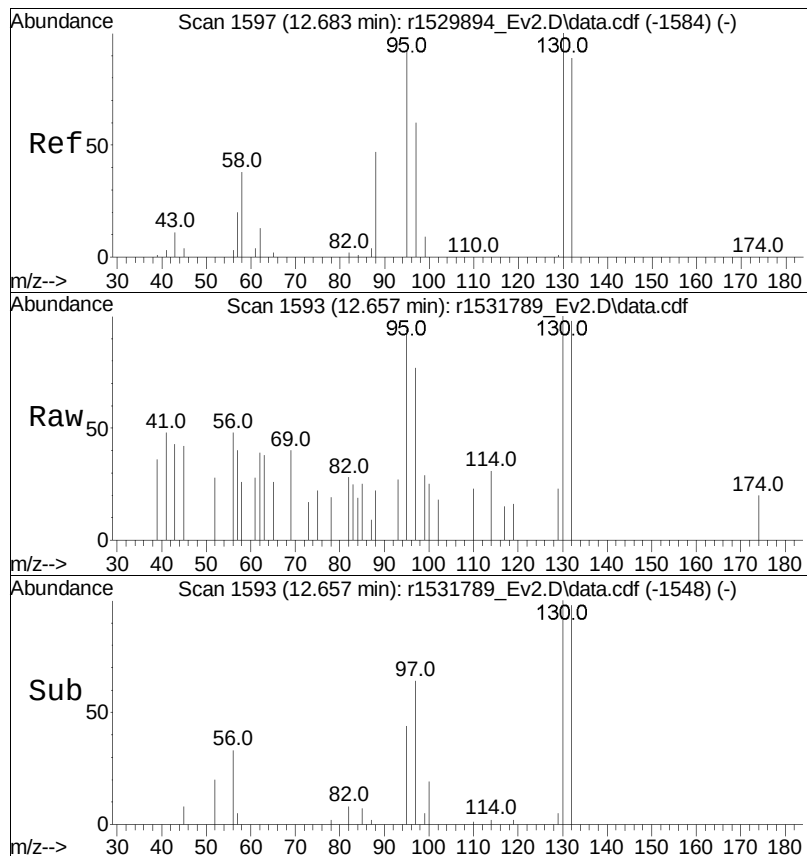




#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.60 min Scan# 1434
Delta R.T. -0.020 min
Lab File: r1531789_Ev2.D
Acq: 20 Mar 2022 9:45 PM

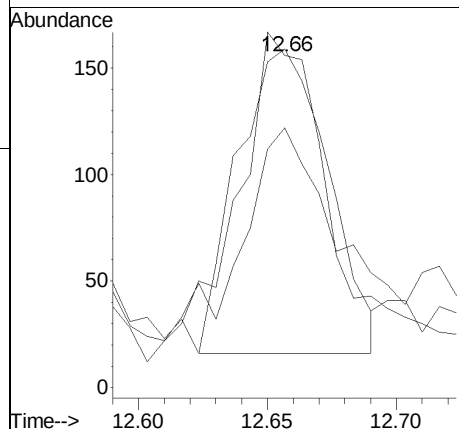
Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	89.6	78.2	117.4	
82	25.2	20.5	30.7	

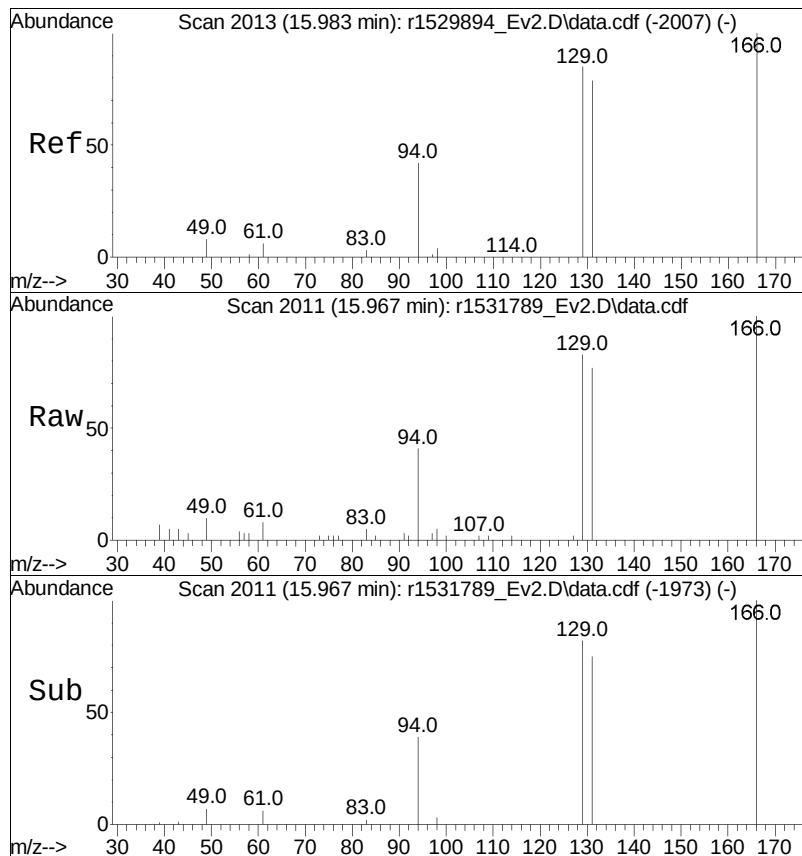




#44
trichloroethene
Concen: 0.02 ppbV
RT: 12.66 min Scan# 1593
Delta R.T. -0.027 min
Lab File: r1531789_Ev2.D
Acq: 20 Mar 2022 9:45 PM

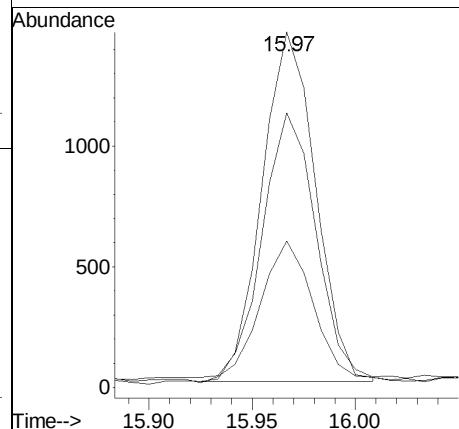
Tgt Ion:	130	Resp:	351
Ion Ratio	Lower	Upper	
130	100		
132	98.1	76.2	114.4
97	76.7	52.2	78.4





#57
 tetrachloroethene
 Concen: 0.16 ppbV
 RT: 15.97 min Scan# 2011
 Delta R.T. -0.017 min
 Lab File: r1531789_Ev2.D
 Acq: 20 Mar 2022 9:45 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	77.3	64.3	96.5
94	41.2	33.2	49.8



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_211222.M
Data File : r1531789_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:9: 5 Instrument :
Sample : L2213657-03,3,250,250 Quant Date : 3/21/2022 8:39 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531791_Ev2.D
 Acq On : 20 Mar 2022 11:04 PM
 Operator : AIRLAB15:RY
 Sample : L2213657-05,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:21:52 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\r1531779_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.57	49	236651	10.000	ppbV	-0.03
Standard Area = 238569			Recovery =		99.20%	
33) 1,4-difluorobenzene	11.85	114	525042	10.000	ppbV	-0.03
Standard Area = 552111			Recovery =		95.10%	
51) chlorobenzene-D5	16.57	54	122944	10.000	ppbV	-0.02
Standard Area = 125385			Recovery =		98.05%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.00		0	N.D.		
17) 1,1-dichloroethene	0.00		0	N.D.	d	
28) cis-1,2-dichloroethene	9.38	61	696	0.041	ppbV #	84
36) 1,1,1-trichloroethane	0.00		0	N.D.		
38) carbon tetrachloride	11.59	117	1014	0.072	ppbV	95
44) trichloroethene	12.66	130	441	0.031	ppbV	99
57) tetrachloroethene	15.97	166	49823	3.186	ppbV	95

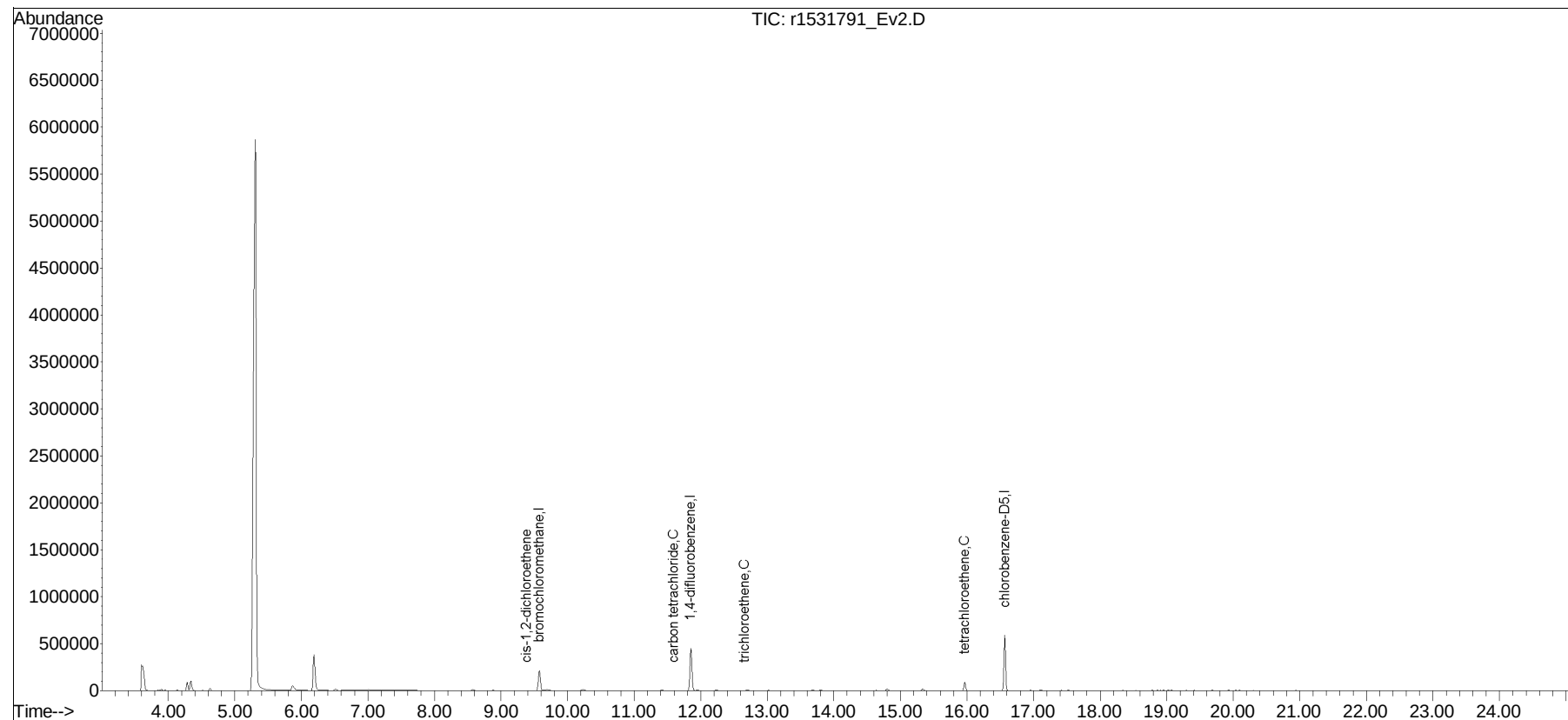
(#) = qualifier out of range (m) = manual integration (+) = signals summed

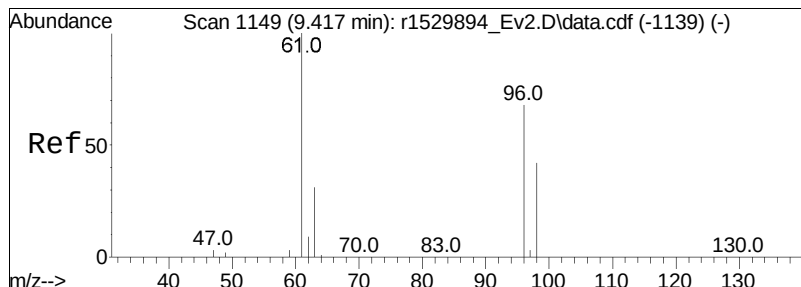
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
Data File : r1531791_Ev2.D
Acq On : 20 Mar 2022 11:04 PM
Operator : AIRLAB15:RY
Sample : L2213657-05,3,250,250
Misc : WG1617727,ICAL18601
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 15:21:52 2022
Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Dec 27 10:35:25 2021
Response via : Initial Calibration

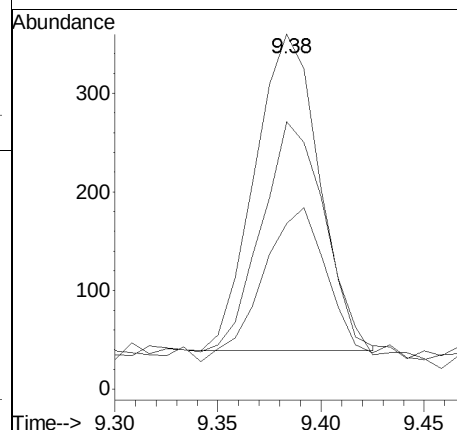
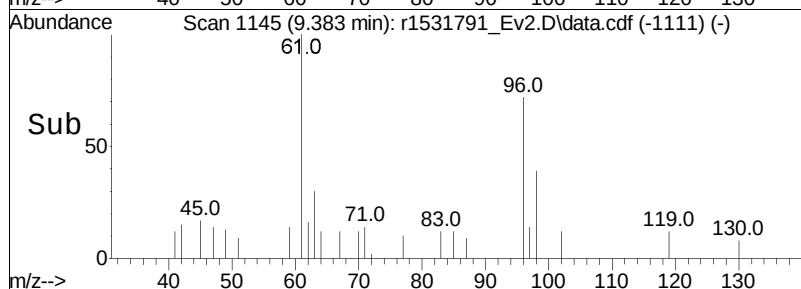
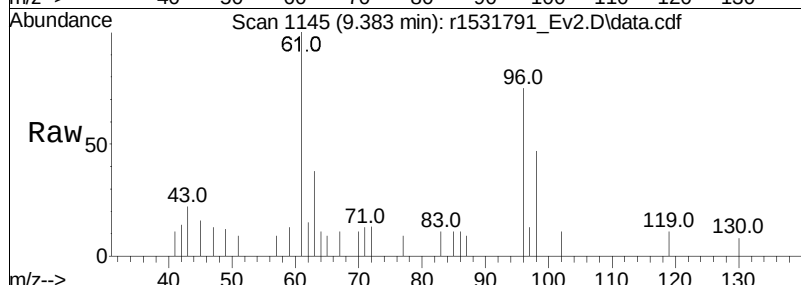
Sub List : 7-NY-SIM - .\Data\Airlab15\2022\03\0320SIM\r1531779_Ev2.D

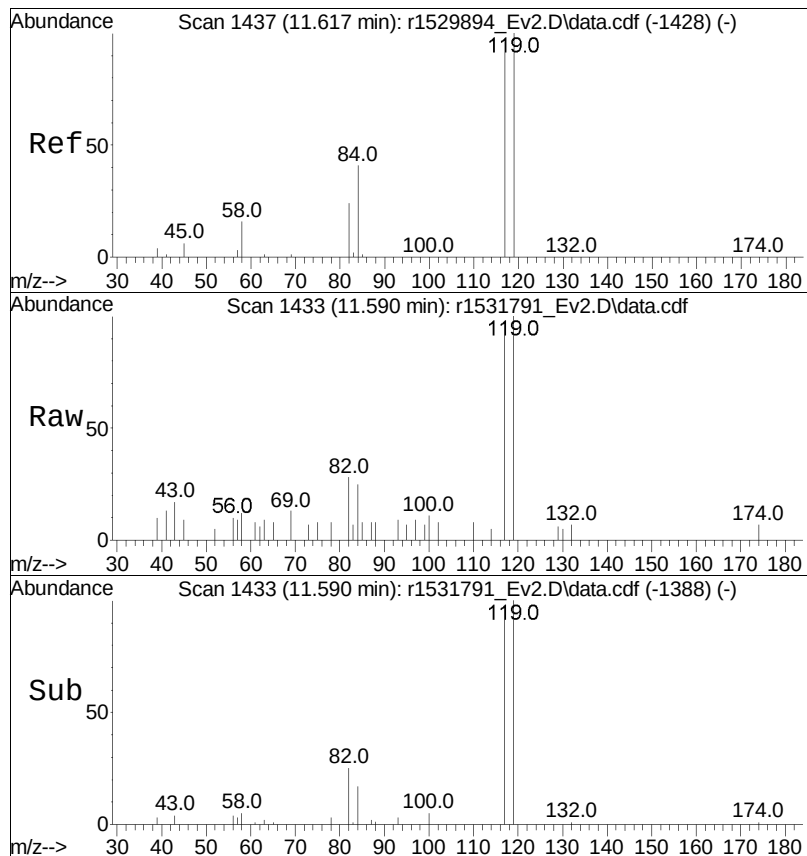




#28
 cis-1,2-dichloroethene
 Concen: 0.04 ppbV
 RT: 9.38 min Scan# 1145
 Delta R.T. -0.033 min
 Lab File: r1531791_Ev2.D
 Acq: 20 Mar 2022 11:04 PM

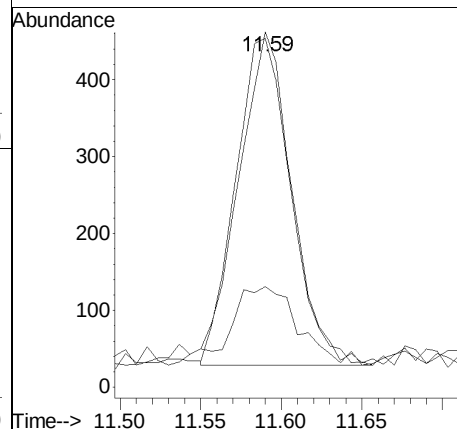
Tgt Ion	Ratio	Lower	Upper
61	100		
96	75.3	49.6	74.4#
98	46.7	30.6	46.0#

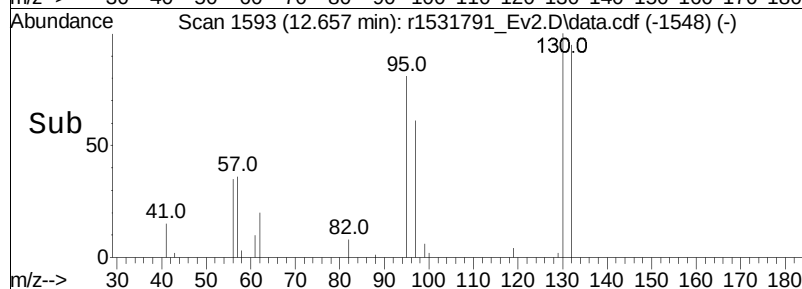
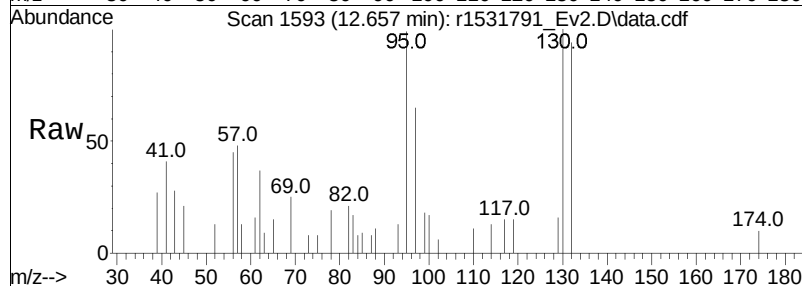
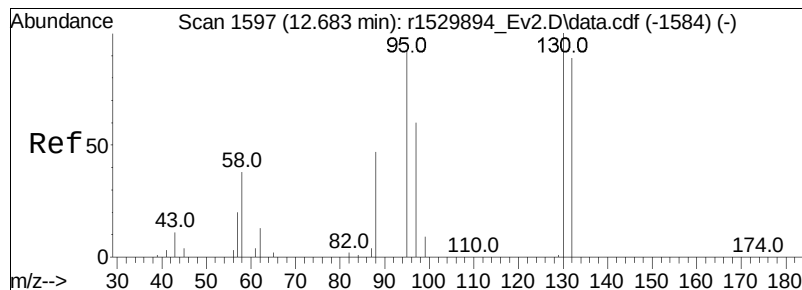




#38
 carbon tetrachloride
 Concen: 0.07 ppbV
 RT: 11.59 min Scan# 1433
 Delta R.T. -0.027 min
 Lab File: r1531791_Ev2.D
 Acq: 20 Mar 2022 11:04 PM

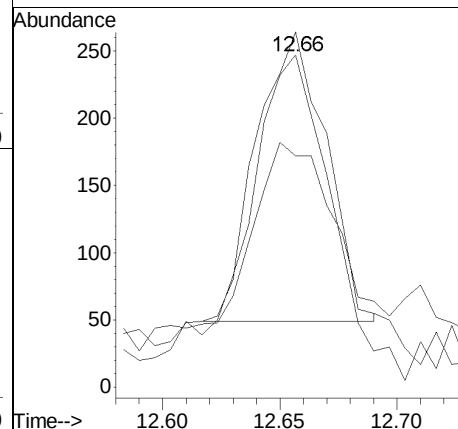
Tgt Ion:	117	Resp:	1014
Ion Ratio	Lower	Upper	
117	100		
119	101.8	78.2	117.4
82	28.9	20.5	30.7

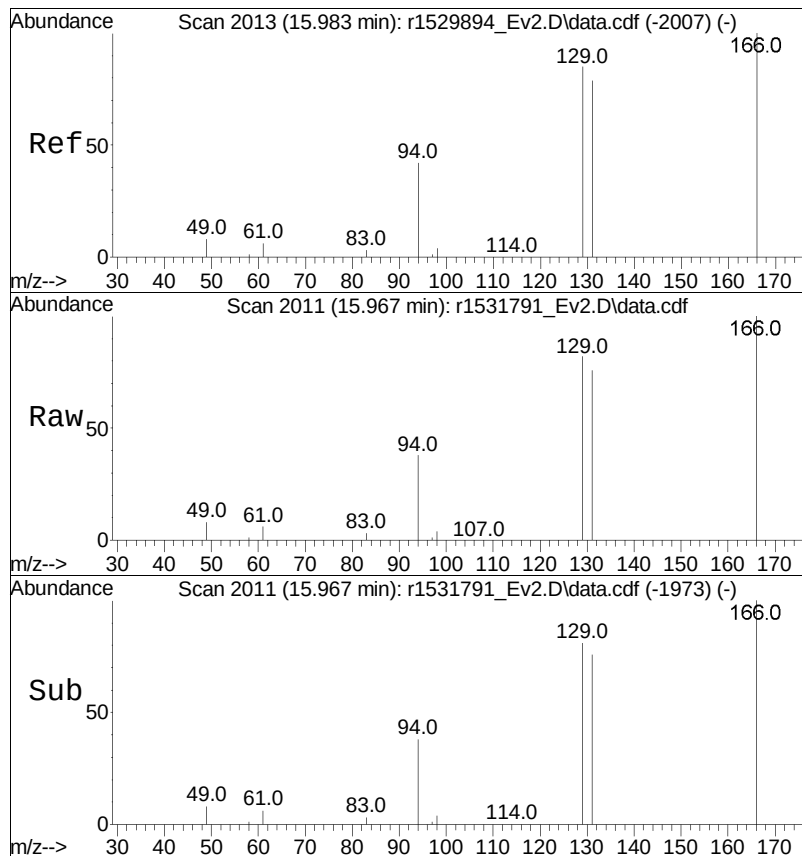




#44
trichloroethene
Concen: 0.03 ppbV
RT: 12.66 min Scan# 1593
Delta R.T. -0.027 min
Lab File: r1531791_Ev2.D
Acq: 20 Mar 2022 11:04 PM

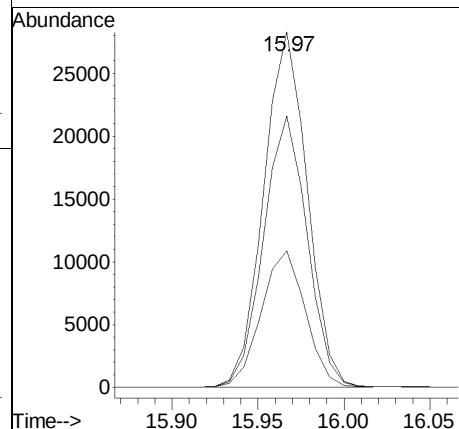
Tgt Ion	Ratio	Resp	Lower	Upper
130	100			
132	93.6		76.2	114.4
97	65.2		52.2	78.4





#57
 tetrachloroethene
 Concen: 3.19 ppbV
 RT: 15.97 min Scan# 2011
 Delta R.T. -0.017 min
 Lab File: r1531791_Ev2.D
 Acq: 20 Mar 2022 11:04 PM

Tgt	Ion:166	Resp:	49823
Ion	Ratio	Lower	Upper
166	100		
131	76.3	64.3	96.5
94	38.4	33.2	49.8



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_211222.M
Data File : r1531791_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:1: 4 Instrument :
Sample : L2213657-05,3,250,250 Quant Date : 3/21/2022 8:43 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2213657
Project Name	: FORMER CLEAN ZONE DRY CLEANERS	Project Number	: 2546.0007Y002
Instrument ID	: AIRLAB15	Ical Ref	: ICAL18601
Calibration dates	: 12/22/21 04:15 12/22/21 10:08		

Calibration Files

0.02=r1529888_Ev2.D 0.05=r1529889_Ev2.D 0.1 =r1529890_Ev2.D 0.2 =r1529891_Ev2.D 0.5 =r1529892_Ev2.D
 1.0 =r1529893_Ev2.D 5.0 =r1529894_Ev2.D 10.0=r1529895_Ev2.D 20.0=r1529896_Ev2.D 50.0=r1529897_Ev2.D

Compound		0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1) I	bromochloromethane	-----ISTD-----											
2)	propylene				0.475	0.416	0.424	0.378	0.366	0.395	0.388	0.4059	9.01
3)	dichlorodifluoromethane				0.907	0.839	0.824	0.776	0.702	0.699	0.620	0.7666	12.87
4) C	chloromethane				0.429	0.400	0.392	0.368	0.345	0.352	0.324	0.3731	9.69
5)	Freon-114		0.976	0.935	1.079	1.007	0.972	0.918	0.857	0.852	0.754	0.9278	10.42
6) C	vinyl chloride	0.589	0.524	0.509	0.580	0.534	0.517	0.494	0.471	0.477	0.434	0.5130	9.31
7) C	1,3-butadiene	0.499	0.402	0.383	0.435	0.402	0.393	0.359	0.340	0.354	0.319	0.3886	13.27
8) C	bromomethane	0.480	0.392	0.376	0.438	0.402	0.391	0.372	0.355	0.356	0.321	0.3883	11.56
9) C	chloroethane		0.286	0.293	0.264	0.258	0.241	0.234	0.239	0.222	0.2547	9.93	
10)	ethanol				0.478	0.459	0.415	0.400	0.410	0.341	0.4171	11.55	
11) C	vinyl bromide				0.359	0.338	0.331	0.308	0.305	0.334	0.316	0.3274	5.85
12) C	acrolein	0.244	0.234	0.228	0.220	0.211	0.200	0.195	0.207	0.188	0.2141	8.80	
13)	acetone				0.672	0.592	0.570	0.522	0.506	0.530	0.483	0.5537	11.55
14)	trichlorofluoromethane	0.797	0.753	0.780	0.748	0.723	0.696	0.678	0.698	0.634	0.7231	7.17	
15)	isopropyl alcohol				0.660	0.603	0.591	0.561	0.559	0.620	0.585	0.5969	5.91
16) C	acrylonitrile				0.424	0.386	0.374	0.345	0.339	0.369	0.330	0.3667	8.82
17) C	1,1-dichloroethene	0.798	0.747	0.730	0.770	0.738	0.710	0.684	0.666	0.695	0.615	0.7153	7.44
18)	tertiary butyl alcohol				0.851	0.829	0.776	0.767	0.858	0.772	0.8087	5.18	
19) C	methylene chloride				0.529	0.502	0.467	0.452	0.467	0.417	0.4723	8.20	
20) C	3-chloropropene				0.584	0.574	0.546	0.546	0.611	0.585	0.5743	4.37	
21) C	carbon disulfide				0.994	0.919	0.923	0.926	0.948	1.080	1.018	0.9725	6.25
22)	Freon 113	1.055	0.745	0.746	0.823	0.762	0.728	0.701	0.679	0.707	0.645	0.7591	15.11
23)	trans-1,2-dichloroethene	0.931	0.788	0.756	0.829	0.778	0.760	0.711	0.701	0.780	0.747	0.7782	8.39
24) C	1,1-dichloroethane	0.984	0.908	0.869	0.977	0.913	0.882	0.858	0.843	0.897	0.860	0.8991	5.39
25) C	MTBE	1.112	1.035	1.009	1.140	1.070	1.062	0.990	0.981	1.086	1.013	1.0499	5.06
26) C	vinyl acetate				0.868	0.856	0.840	0.884	1.047	1.017	0.9189	9.72	
27) C	2-butanone				1.134	1.034	1.013	0.954	0.945	1.056	0.994	1.0186	6.37
28)	cis-1,2-dichloroethene	0.782	0.734	0.663	0.762	0.710	0.699	0.685	0.678	0.727	0.690	0.7130	5.33
29)	Ethyl Acetate				0.180	0.181	0.174	0.172	0.195	0.193	0.1826	5.38	
30) C	chloroform	1.041	0.896	0.885	0.986	0.905	0.883	0.845	0.829	0.865	0.756	0.8891	8.91
31)	Tetrahydrofuran				0.670	0.609	0.613	0.594	0.594	0.664	0.637	0.6260	5.06
32) C	1,2-dichloroethane	0.741	0.665	0.607	0.672	0.618	0.605	0.582	0.622	0.599	0.588	0.6300	7.78
33) I	1,4-difluorobenzene	-----ISTD-----											
34) C	hexane				0.461	0.433	0.426	0.398	0.398	0.438	0.391	0.4205	6.15
35) s	1,2-dichloroethane-D4				0.282	0.278	0.281	0.280	0.280	0.278	0.272	0.2786	1.26
36) C	1,1,1-trichloroethane	0.401	0.269	0.256	0.302	0.283	0.281	0.276	0.279	0.298	0.274	0.2920	13.89



Initial Calibration Summary

Form 6

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2213657
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : AIRLAB15 **Ical Ref** : ICAL18601
Calibration dates : 12/22/21 04:15 12/22/21 10:08

Calibration Files

0.02=r1529888_Ev2.D 0.05=r1529889_Ev2.D 0.1 =r1529890_Ev2.D 0.2 =r1529891_Ev2.D 0.5 =r1529892_Ev2.D
 1.0 =r1529893_Ev2.D 5.0 =r1529894_Ev2.D 10.0=r1529895_Ev2.D 20.0=r1529896_Ev2.D 50.0=r1529897_Ev2.D

	Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
37) C	benzene			1.057	0.915	0.758	0.714	0.654	0.648	0.681	0.611	0.7547	20.39
38) C	carbon tetrachloride	0.357	0.252	0.279	0.266	0.249	0.253	0.257	0.261	0.279	0.244	0.2695	12.24
39)	cyclohexane				0.481	0.459	0.461	0.431	0.432	0.478	0.434	0.4537	4.74
40)	Dibromomethane		0.325	0.259	0.253	0.226	0.222	0.204	0.202	0.224	0.205	0.2356	16.63
41) C	1,2-dichloropropane	0.283	0.272	0.257	0.278	0.265	0.256	0.247	0.246	0.264	0.252	0.2621	4.84
42)	bromodichloromethane	0.373	0.363	0.343	0.365	0.360	0.356	0.354	0.359	0.401	0.352	0.3626	4.29
43) C	1,4-dioxane			0.163	0.171	0.155	0.157	0.155	0.155	0.173	0.158	0.1609	4.48
44) C	trichloroethene	0.312	0.279	0.244	0.297	0.275	0.268	0.263	0.261	0.279	0.257	0.2735	7.27
45) C	2,2,4-trimethylpentane		1.397	1.340	1.537	1.467	1.453	1.325	1.317	1.451	1.289	1.3974	6.05
46)	heptane				0.487	0.459	0.467	0.436	0.430	0.477	0.431	0.4553	5.11
47) C	cis-1,3-dichloropropene	0.231	0.231	0.211	0.243	0.234	0.240	0.263	0.276	0.302	0.282	0.2511	11.29
48) C	4-methyl-2-pentanone					0.483	0.494	0.488	0.492	0.544	0.501	0.5003	4.41
49)	trans-1,3-dichloropropene	0.285	0.288	0.245	0.274	0.262	0.265	0.285	0.296	0.320	0.298	0.2818	7.57
50) C	1,1,2-trichloroethane	0.281	0.244	0.230	0.254	0.239	0.239	0.230	0.230	0.246	0.233	0.2427	6.48
51) I	chlorobenzene-D5	-----ISTD-----											
52) C	toluene			5.597	4.858	3.931	3.680	3.413	3.372	3.622	3.400	3.9841	20.42
53) s	toluene-D8				3.957	3.903	3.996	4.004	3.988	4.074	4.343	4.0378	3.57
54)	2-hexanone				1.991	1.986	2.015	1.972	1.981	2.249	2.124	2.0455	5.08
55)	dibromochloromethane	1.484	1.351	1.187	1.313	1.264	1.329	1.382	1.412	1.629	1.534	1.3885	9.45
56) C	1,2-dibromoethane	1.643	1.358	1.370	1.521	1.430	1.442	1.443	1.417	1.544	1.485	1.4653	5.86
57) C	tetrachloroethene	1.570	1.218	1.199	1.340	1.258	1.247	1.210	1.200	1.285	1.194	1.2721	8.97
58)	1,1,1,2-tetrachloroethane	1.260	1.028	1.033	1.135	1.077	1.100	1.089	1.106	1.266	1.172	1.1265	7.42
59) C	chlorobenzene	3.006	2.554	2.508	2.853	2.621	2.616	2.508	2.489	2.659	2.448	2.6261	6.72
60) C	ethylbenzene	4.756	4.168	4.059	4.555	4.278	4.297	4.316	4.302	4.648	4.378	4.3757	4.93
61) C	m+p-xylene	3.735	3.442	3.292	3.716	3.595	3.597	3.565	3.513	3.745	3.429	3.5629	4.15
62) C	bromoform	1.127	0.854	0.844	0.966	0.924	0.962	1.051	1.106	1.304	1.245	1.0383	15.12
63) C	styrene	2.391	2.154	2.130	2.464	2.395	2.410	2.472	2.488	2.707	2.620	2.4231	7.38
64) C	1,1,2,2-tetrachloroethane	3.027	2.617	2.511	2.849	2.712	2.705	2.667	2.636	2.748	2.355	2.6830	6.76
65) C	o-xylene	3.668	3.359	3.268	3.795	3.603	3.589	3.592	3.554	3.779	3.319	3.5527	5.15
66)	1,2,3-Trichloropropane	2.275	1.918	1.894	2.143	2.009	1.983	1.856	1.827	2.010	1.897	1.9811	6.98
67) s	bromofluorobenzene				2.720	2.730	2.914	2.969	2.969	3.070	3.202	2.9390	5.90
68) C	isopropylbenzene				4.533	4.343	4.309	4.107	4.023	4.459	4.189	4.2804	4.32
69)	Bromobenzene	2.933	2.605	2.431	2.798	2.615	2.600	2.439	2.395	2.640	2.460	2.5916	6.65
70)	4-ethyl toluene	4.158	3.885	3.970	4.578	4.463	4.520	4.301	4.268	4.756	4.459	4.3358	6.31
71)	1,3,5-trimethylbenzene	3.569	3.327	3.307	3.860	3.783	3.815	3.779	3.730	3.995	3.717	3.6882	6.06
72)	tert-butylbenzene				4.706	4.537	4.584	4.374	4.310	4.482	3.735	4.3897	7.23



Initial Calibration Summary

Form 6

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2213657
Project Name : FORMER CLEAN ZONE DRY CLEANERS **Project Number** : 2546.0007Y002
Instrument ID : AIRLAB15 **Ical Ref** : ICAL18601
Calibration dates : 12/22/21 04:15 12/22/21 10:08

Calibration Files

0.02=r1529888_Ev2.D 0.05=r1529889_Ev2.D 0.1 =r1529890_Ev2.D 0.2 =r1529891_Ev2.D 0.5 =r1529892_Ev2.D
 1.0 =r1529893_Ev2.D 5.0 =r1529894_Ev2.D 10.0=r1529895_Ev2.D 20.0=r1529896_Ev2.D 50.0=r1529897_Ev2.D

	Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
73)	1,2,4-trimethylbenzene	3.832	3.470	3.397	3.852	3.746	3.756	3.723	3.684	3.859	3.419	3.6737	4.88
74) C	Benzyl Chloride			1.623	1.789	1.793	1.862	2.060	2.327	3.014	2.987	2.1818	25.09
75)	1,3-dichlorobenzene	2.494	2.289	2.275	2.533	2.463	2.467	2.449	2.451	2.706	2.554	2.4681	5.03
76) C	1,4-dichlorobenzene	2.494	2.200	2.189	2.519	2.414	2.450	2.440	2.461	2.641	2.584	2.4393	5.98
77)	sec-butylbenzene				5.619	5.479	5.521	5.303	5.228	5.720	5.320	5.4556	3.31
78)	p-isopropyltoluene				5.518	5.435	5.502	5.350	5.240	5.473	4.546	5.2946	6.50
79)	1,2-dichlorobenzene	2.361	2.156	2.106	2.313	2.295	2.311	2.314	2.320	2.518	2.462	2.3155	5.28
80)	n-butylbenzene				4.752	4.736	4.866	4.804	4.774	5.204	4.728	4.8377	3.48
81)	1,2-dibromo-3-chloropr...	0.950	0.817	0.811	0.849	0.884	0.941	1.000	1.009	1.127	1.083	0.9471	11.50
82) C	1,2,4-trichlorobenzene		1.338	1.320	1.189	1.398	1.536	1.730	1.848	1.962	1.923	1.5826	18.32
83)	naphthalene		4.379	4.311	3.997	4.795	5.293	5.495	5.728	6.053	5.853	5.1005	14.73
84)	1,2,3-trichlorobenzene		1.365	1.322	1.141	1.383	1.566	1.688	1.772	1.858	1.865	1.5511	16.82
85) C	hexachlorobutadiene		1.384	1.320	1.142	1.315	1.417	1.494	1.493	1.525	1.393	1.3869	8.54



Response Factor Report

Method Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Method File : TSIM15_211222.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Mon Dec 27 10:35:25 2021
 Response Via : Initial Calibration

Calibration Files

0.02=r1529888_Ev2.D 0.05=r1529889_Ev2.D 0.1 =r1529890_Ev2.D 0.2 =r1529891_Ev2.D 0.5 =r1529892_Ev2.D
 1.0 =r1529893_Ev2.D 5.0 =r1529894_Ev2.D 10.0=r1529895_Ev2.D 20.0=r1529896_Ev2.D 50.0=r1529897_Ev2.D

Compound		0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
-----ISTD-----													
1) I	bromochloromethane												
2)	propylene				0.475	0.416	0.424	0.378	0.366	0.395	0.388	0.4059	9.01
3)	dichlorodifluorome...				0.907	0.839	0.824	0.776	0.702	0.699	0.620	0.7666	12.87
4) C	chloromethane				0.429	0.400	0.392	0.368	0.345	0.352	0.324	0.3731	9.69
5)	Freon-114		0.976	0.935	1.079	1.007	0.972	0.918	0.857	0.852	0.754	0.9278	10.42
6) C	vinyl chloride	0.589	0.524	0.509	0.580	0.534	0.517	0.494	0.471	0.477	0.434	0.5130	9.31
7) C	1,3-butadiene	0.499	0.402	0.383	0.435	0.402	0.393	0.359	0.340	0.354	0.319	0.3886	13.27
8) C	bromomethane	0.480	0.392	0.376	0.438	0.402	0.391	0.372	0.355	0.356	0.321	0.3883	11.56
9) C	chloroethane			0.286	0.293	0.264	0.258	0.241	0.234	0.239	0.222	0.2547	9.93
10)	ethanol					0.478	0.459	0.415	0.400	0.410	0.341	0.4171	11.55
11) C	vinyl bromide				0.359	0.338	0.331	0.308	0.305	0.334	0.316	0.3274	5.85
12) C	acrolein		0.244	0.234	0.228	0.220	0.211	0.200	0.195	0.207	0.188	0.2141	8.80
13)	acetone				0.672	0.592	0.570	0.522	0.506	0.530	0.483	0.5537	11.55
14)	trichlorofluoromet...		0.797	0.753	0.780	0.748	0.723	0.696	0.678	0.698	0.634	0.7231	7.17
15)	isopropyl alcohol				0.660	0.603	0.591	0.561	0.559	0.620	0.585	0.5969	5.91
16) C	acrylonitrile				0.424	0.386	0.374	0.345	0.339	0.369	0.330	0.3667	8.82
17) C	1,1-dichloroethene	0.798	0.747	0.730	0.770	0.738	0.710	0.684	0.666	0.695	0.615	0.7153	7.44
18)	tertiary butyl alc...					0.851	0.829	0.776	0.767	0.858	0.772	0.8087	5.18
19) C	methylene chloride					0.529	0.502	0.467	0.452	0.467	0.417	0.4723	8.20
20) C	3-chloropropene					0.584	0.574	0.546	0.546	0.611	0.585	0.5743	4.37
21) C	carbon disulfide				0.994	0.919	0.923	0.926	0.948	1.080	1.018	0.9725	6.25
22)	Freon 113	1.055	0.745	0.746	0.823	0.762	0.728	0.701	0.679	0.707	0.645	0.7591	15.11
23)	trans-1,2-dichloro...	0.931	0.788	0.756	0.829	0.778	0.760	0.711	0.701	0.780	0.747	0.7782	8.39
24) C	1,1-dichloroethane	0.984	0.908	0.869	0.977	0.913	0.882	0.858	0.843	0.897	0.860	0.8991	5.39
25) C	MTBE	1.112	1.035	1.009	1.140	1.070	1.062	0.990	0.981	1.086	1.013	1.0499	5.06
26) C	vinyl acetate					0.868	0.856	0.840	0.884	1.047	1.017	0.9189	9.72
27) C	2-butanone				1.134	1.034	1.013	0.954	0.945	1.056	0.994	1.0186	6.37
28)	cis-1,2-dichloroet...	0.782	0.734	0.663	0.762	0.710	0.699	0.685	0.678	0.727	0.690	0.7130	5.33
29)	Ethyl Acetate					0.180	0.181	0.174	0.172	0.195	0.193	0.1826	5.38
30) C	chloroform	1.041	0.896	0.885	0.986	0.905	0.883	0.845	0.829	0.865	0.756	0.8891	8.91
31)	Tetrahydrofuran				0.670	0.609	0.613	0.594	0.594	0.664	0.637	0.6260	5.06

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Method File : TSIM15_211222.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Dec 27 10:35:25 2021
 Response Via : Initial Calibration

Calibration Files

0.02=r1529888_Ev2.D 0.05=r1529889_Ev2.D 0.1 =r1529890_Ev2.D 0.2 =r1529891_Ev2.D 0.5 =r1529892_Ev2.D
 1.0 =r1529893_Ev2.D 5.0 =r1529894_Ev2.D 10.0=r1529895_Ev2.D 20.0=r1529896_Ev2.D 50.0=r1529897_Ev2.D

	Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
32) C	1,2-dichloroethane	0.741	0.665	0.607	0.672	0.618	0.605	0.582	0.622	0.599	0.588	0.6300	7.78
33) I	1,4-difluorobenzene	-----ISTD-----											
34) C	hexane				0.461	0.433	0.426	0.398	0.398	0.438	0.391	0.4205	6.15
35) s	1,2-dichloroethane-D4				0.282	0.278	0.281	0.280	0.280	0.278	0.272	0.2786	1.26
36) C	1,1,1-trichloroethane	0.401	0.269	0.256	0.302	0.283	0.281	0.276	0.279	0.298	0.274	0.2920	13.89
37) C	benzene			1.057	0.915	0.758	0.714	0.654	0.648	0.681	0.611	0.7547	20.39
38) C	carbon tetrachloride	0.357	0.252	0.279	0.266	0.249	0.253	0.257	0.261	0.279	0.244	0.2695	12.24
39)	cyclohexane				0.481	0.459	0.461	0.431	0.432	0.478	0.434	0.4537	4.74
40)	Dibromomethane		0.325	0.259	0.253	0.226	0.222	0.204	0.202	0.224	0.205	0.2356	16.63
41) C	1,2-dichloropropane	0.283	0.272	0.257	0.278	0.265	0.256	0.247	0.246	0.264	0.252	0.2621	4.84
42)	bromodichloromethane	0.373	0.363	0.343	0.365	0.360	0.356	0.354	0.359	0.401	0.352	0.3626	4.29
43) C	1,4-dioxane			0.163	0.171	0.155	0.157	0.155	0.155	0.173	0.158	0.1609	4.48
44) C	trichloroethene	0.312	0.279	0.244	0.297	0.275	0.268	0.263	0.261	0.279	0.257	0.2735	7.27
45) C	2,2,4-trimethylpen...		1.397	1.340	1.537	1.467	1.453	1.325	1.317	1.451	1.289	1.3974	6.05
46)	heptane				0.487	0.459	0.467	0.436	0.430	0.477	0.431	0.4553	5.11
47) C	cis-1,3-dichloropr...	0.231	0.231	0.211	0.243	0.234	0.240	0.263	0.276	0.302	0.282	0.2511	11.29
48) C	4-methyl-2-pentanone					0.483	0.494	0.488	0.492	0.544	0.501	0.5003	4.41
49)	trans-1,3-dichloro...	0.285	0.288	0.245	0.274	0.262	0.265	0.285	0.296	0.320	0.298	0.2818	7.57
50) C	1,1,2-trichloroethane	0.281	0.244	0.230	0.254	0.239	0.239	0.230	0.230	0.246	0.233	0.2427	6.48
51) I	chlorobenzene-D5	-----ISTD-----											
52) C	toluene			5.597	4.858	3.931	3.680	3.413	3.372	3.622	3.400	3.9841	20.42
53) s	toluene-D8				3.957	3.903	3.996	4.004	3.988	4.074	4.343	4.0378	3.57
54)	2-hexanone				1.991	1.986	2.015	1.972	1.981	2.249	2.124	2.0455	5.08
55)	dibromochloromethane	1.484	1.351	1.187	1.313	1.264	1.329	1.382	1.412	1.629	1.534	1.3885	9.45
56) C	1,2-dibromoethane	1.643	1.358	1.370	1.521	1.430	1.442	1.443	1.417	1.544	1.485	1.4653	5.86
57) C	tetrachloroethene	1.570	1.218	1.199	1.340	1.258	1.247	1.210	1.200	1.285	1.194	1.2721	8.97
58)	1,1,1,2-tetrachlor...	1.260	1.028	1.033	1.135	1.077	1.100	1.089	1.106	1.266	1.172	1.1265	7.42
59) C	chlorobenzene	3.006	2.554	2.508	2.853	2.621	2.616	2.508	2.489	2.659	2.448	2.6261	6.72
60) C	ethylbenzene	4.756	4.168	4.059	4.555	4.278	4.297	4.316	4.302	4.648	4.378	4.3757	4.93
61) C	m+p-xylene	3.735	3.442	3.292	3.716	3.595	3.597	3.565	3.513	3.745	3.429	3.5629	4.15

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
Method File : TSIM15_211222.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Mon Dec 27 10:35:25 2021
Response Via : Initial Calibration

Calibration Files

0.02=r1529888_Ev2.D 0.05=r1529889_Ev2.D 0.1 =r1529890_Ev2.D 0.2 =r1529891_Ev2.D 0.5 =r1529892_Ev2.D
1.0 =r1529893_Ev2.D 5.0 =r1529894_Ev2.D 10.0=r1529895_Ev2.D 20.0=r1529896_Ev2.D 50.0=r1529897_Ev2.D

	Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
62)	C bromoform	1.127	0.854	0.844	0.966	0.924	0.962	1.051	1.106	1.304	1.245	1.0383	15.12
63)	C styrene	2.391	2.154	2.130	2.464	2.395	2.410	2.472	2.488	2.707	2.620	2.4231	7.38
64)	C 1,1,2,2-tetrachlor...	3.027	2.617	2.511	2.849	2.712	2.705	2.667	2.636	2.748	2.355	2.6830	6.76
65)	C o-xylene	3.668	3.359	3.268	3.795	3.603	3.589	3.592	3.554	3.779	3.319	3.5527	5.15
66)	1,2,3-Trichloropro...	2.275	1.918	1.894	2.143	2.009	1.983	1.856	1.827	2.010	1.897	1.9811	6.98
67)	s bromofluorobenzene				2.720	2.730	2.914	2.969	2.969	3.070	3.202	2.9390	5.90
68)	C isopropylbenzene				4.533	4.343	4.309	4.107	4.023	4.459	4.189	4.2804	4.32
69)	Bromobenzene	2.933	2.605	2.431	2.798	2.615	2.600	2.439	2.395	2.640	2.460	2.5916	6.65
70)	4-ethyl toluene	4.158	3.885	3.970	4.578	4.463	4.520	4.301	4.268	4.756	4.459	4.3358	6.31
71)	1,3,5-trimethylben...	3.569	3.327	3.307	3.860	3.783	3.815	3.779	3.730	3.995	3.717	3.6882	6.06
72)	tert-butylbenzene				4.706	4.537	4.584	4.374	4.310	4.482	3.735	4.3897	7.23
73)	1,2,4-trimethylben...	3.832	3.470	3.397	3.852	3.746	3.756	3.723	3.684	3.859	3.419	3.6737	4.88
74)	C Benzyl Chloride			1.623	1.789	1.793	1.862	2.060	2.327	3.014	2.987	2.1818	25.09
75)	1,3-dichlorobenzene	2.494	2.289	2.275	2.533	2.463	2.467	2.449	2.451	2.706	2.554	2.4681	5.03
76)	C 1,4-dichlorobenzene	2.494	2.200	2.189	2.519	2.414	2.450	2.440	2.461	2.641	2.584	2.4393	5.98
77)	sec-butylbenzene				5.619	5.479	5.521	5.303	5.228	5.720	5.320	5.4556	3.31
78)	p-isopropyltoluene				5.518	5.435	5.502	5.350	5.240	5.473	4.546	5.2946	6.50
79)	1,2-dichlorobenzene	2.361	2.156	2.106	2.313	2.295	2.311	2.314	2.320	2.518	2.462	2.3155	5.28
80)	n-butylbenzene				4.752	4.736	4.866	4.804	4.774	5.204	4.728	4.8377	3.48
81)	1,2-dibromo-3-chlo...	0.950	0.817	0.811	0.849	0.884	0.941	1.000	1.009	1.127	1.083	0.9471	11.50
82)	C 1,2,4-trichloroben...		1.338	1.320	1.189	1.398	1.536	1.730	1.848	1.962	1.923	1.5826	18.32
83)	naphthalene		4.379	4.311	3.997	4.795	5.293	5.495	5.728	6.053	5.853	5.1005	14.73
84)	1,2,3-trichloroben...		1.365	1.322	1.141	1.383	1.566	1.688	1.772	1.858	1.865	1.5511	16.82
85)	C hexachlorobutadiene		1.384	1.320	1.142	1.315	1.417	1.494	1.493	1.525	1.393	1.3869	8.54

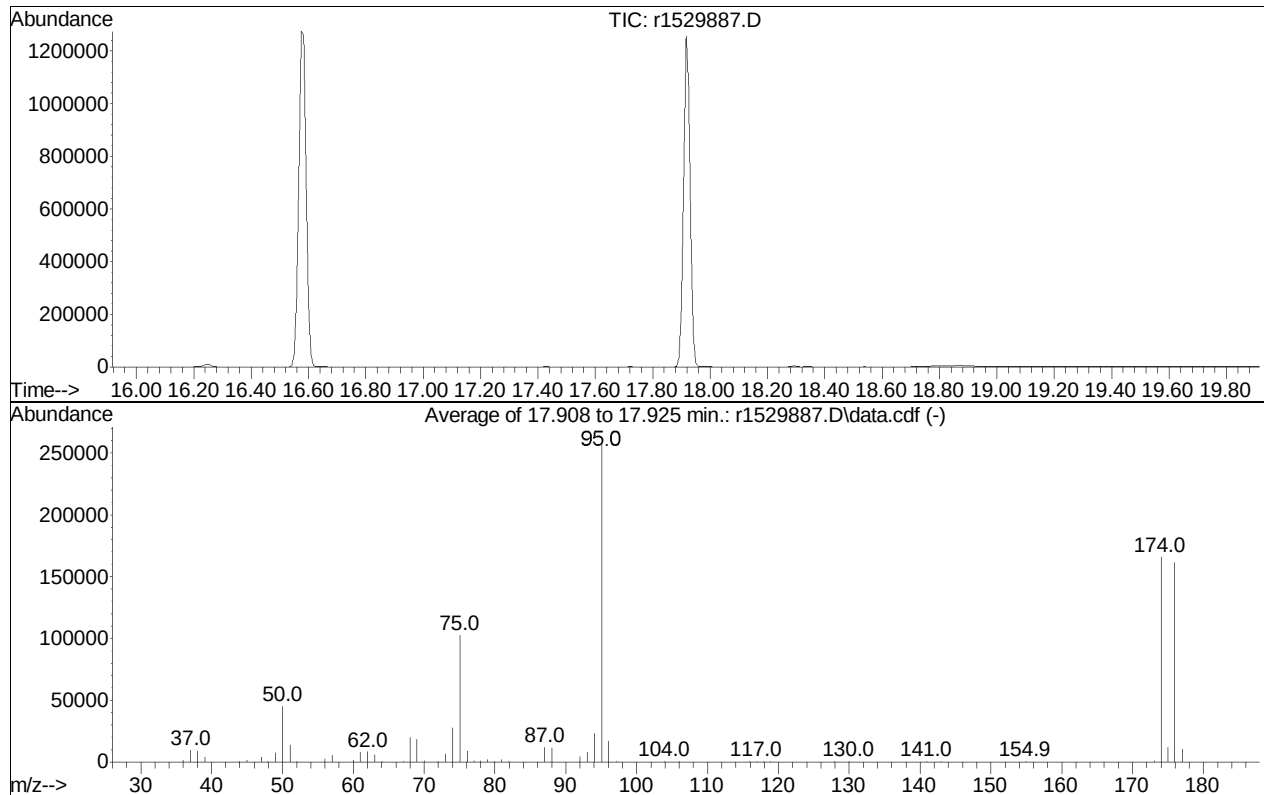
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529887.D
 Acq On : 22 Dec 2021 3:37 AM
 Operator : AIRLAB15:TS
 Sample : WG1587796-1,3,250,250
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Mon Dec 27 10:35:25 2021



Spectrum Information: Average of 17.908 to 17.925 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.4	44941	PASS
75	95	30	66	39.7	102569	PASS
95	95	100	100	100.0	258437	PASS
96	95	5	9	6.6	17137	PASS
173	174	0.00	2	0.7	1221	PASS
174	95	50	120	64.3	166067	PASS
175	174	4	9	7.2	11983	PASS
176	174	93	101	97.2	161429	PASS
177	176	5	9	6.6	10591	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529888_Ev2.D
 Acq On : 22 Dec 2021 4:15 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.02
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:20:10 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.592	49	210437	10.000	ppbV	0.05
Standard Area = 213198			Recovery =	98.70%		
33) 1,4-difluorobenzene	11.863	114	499778	10.000	ppbV	0.04
Standard Area = 515322			Recovery =	96.98%		
51) chlorobenzene-D5	16.575	54	116273	10.000	ppbV	0.03
Standard Area = 119198			Recovery =	97.55%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.475	65	142988	10.220	ppbV	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.20%		
53) toluene-D8	14.708	98	458497	9.849	ppbV	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.49%		
67) bromofluorobenzene	17.917	95	310899	9.006	ppbV	0.03
Spiked Amount 10.000	Range 70 - 130		Recovery =	90.06%		
Target Compounds						
					Qvalue	
2) propylene	3.898	41	375M6	0.047	ppbV	
3) dichlorodifluoromethane	3.982	85	431	0.026	ppbV	97
4) chloromethane	4.168	50	225	0.029	ppbV #	72
5) Freon-114	4.294	85	480	0.025	ppbV	99
6) vinyl chloride	4.426	62	248M6	0.024	ppbV	
7) 1,3-butadiene	4.588	54	210	0.028	ppbV	88
8) bromomethane	4.912	94	202	0.026	ppbV	93
9) chloroethane	5.134	64	180	0.035	ppbV #	56
10) ethanol	5.308	31	1808	0.207	ppbV	98
11) vinyl bromide	5.560	106	156M6	0.024	ppbV	
12) acrolein	5.727	56	115	0.027	ppbV #	19
13) acetone	5.897	43	3415	0.311	ppbV #	95
14) trichlorofluoromethane	6.087	101	364	0.025	ppbV	95
15) isopropyl alcohol	6.233	45	1130	0.096	ppbV #	84
16) acrylonitrile	6.470	53	202M6	0.028	ppbV	
17) 1,1-dichloroethene	6.864	61	336	0.023	ppbV #	74
18) tertiary butyl alcohol	6.978	59	420	0.026	ppbV	96
19) methylene chloride	7.032	49	575	0.059	ppbV	91
20) 3-chloropropene	7.170	41	329	0.029	ppbV #	75
21) carbon disulfide	7.326	76	539	0.028	ppbV #	1
22) Freon 113	7.362	101	444	0.030	ppbV #	79
23) trans-1,2-dichloroethene	8.167	61	392	0.026	ppbV #	81
24) 1,1-dichloroethane	8.400	63	414	0.023	ppbV #	81

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529888_Ev2.D
 Acq On : 22 Dec 2021 4:15 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.02
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:20:10 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	8.508	73	468	0.022	ppbV	#	80
26) vinyl acetate	8.625	43	411	0.023	ppbV	#	71
27) 2-butanone	8.908	43	678	0.034	ppbV	#	85
28) cis-1,2-dichloroethene	9.400	61	329	0.023	ppbV	#	76
29) Ethyl Acetate	9.725	61	62	0.017	ppbV	#	22
30) chloroform	9.750	83	438	0.025	ppbV	#	95
31) Tetrahydrofuran	10.242	42	264	0.021	ppbV	#	73
32) 1,2-dichloroethane	10.608	62	312	0.025	ppbV	#	68
34) hexane	9.667	57	495	0.025	ppbV	#	61
36) 1,1,1-trichloroethane	10.897	97	401	0.029	ppbV	#	81
37) benzene	11.430	78	2850	0.087	ppbV		97
38) carbon tetrachloride	11.597	117	357	0.028	ppbV		94
39) cyclohexane	11.743	56	476	0.022	ppbV		95
40) Dibromomethane	12.350	93	427	0.042	ppbV	#	81
41) 1,2-dichloropropane	12.390	63	283	0.023	ppbV	#	69
42) bromodichloromethane	12.617	83	373	0.021	ppbV	#	94
43) 1,4-dioxane	12.697	88	178	0.023	ppbV		83
44) trichloroethene	12.670	130	312	0.024	ppbV		87
45) 2,2,4-trimethylpentane	12.710	57	1603	0.024	ppbV	#	98
46) heptane	13.037	43	555	0.025	ppbV	#	90
47) cis-1,3-dichloropropene	14.308	75	231	0.018	ppbV	#	82
48) 4-methyl-2-pentanone	13.742	43	482	0.020	ppbV	#	85
49) trans-1,3-dichloropropene	13.675	75	285	0.020	ppbV	#	90
50) 1,1,2-trichloroethane	14.508	97	281	0.024	ppbV		91
52) toluene	14.817	91	3345	0.084	ppbV		97
54) 2-hexanone	15.108	43	447	0.019	ppbV	#	90
55) dibromochloromethane	15.258	129	345	0.021	ppbV	#	79
56) 1,2-dibromoethane	15.508	107	382	0.023	ppbV		93
57) tetrachloroethene	15.975	166	365	0.026	ppbV	#	84
58) 1,1,1,2-tetrachloroethane	16.600	131	293M4	0.023	ppbV		
59) chlorobenzene	16.617	112	699	0.024	ppbV		97
60) ethylbenzene	16.958	91	1106	0.022	ppbV		91
61) m+p-xylene	17.117	91	1737	0.042	ppbV		95
62) bromoform	17.192	173	262	0.021	ppbV	#	86
63) styrene	17.433	104	556	0.019	ppbV		93
64) 1,1,2,2-tetrachloroethane	17.525	83	704	0.023	ppbV		96
65) o-xylene	17.525	91	853	0.020	ppbV		95
66) 1,2,3-Trichloropropane	17.642	75	529	0.025	ppbV		99
68) isopropylbenzene	18.025	105	1064	0.022	ppbV		93
69) Bromobenzene	18.100	77	682	0.024	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529888_Ev2.D
 Acq On : 22 Dec 2021 4:15 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.02
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:20:10 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

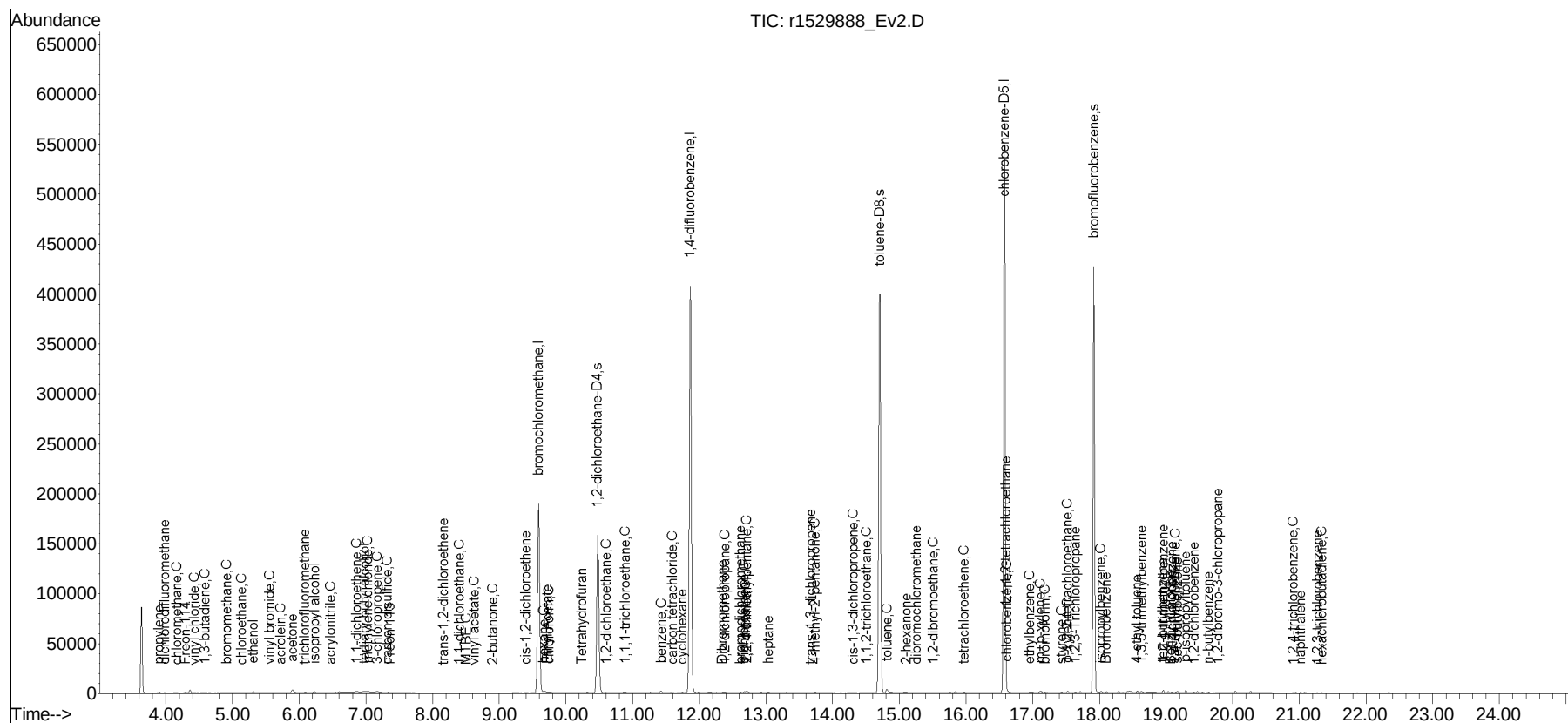
CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70) 4-ethyl toluene	18.567	105	967	0.019	ppbV	#	93
71) 1,3,5-trimethylbenzene	18.633	105	830M6	0.019	ppbV		
72) tert-butylbenzene	18.957	119	1064	0.021	ppbV		96
73) 1,2,4-trimethylbenzene	18.965	105	891	0.021	ppbV		98
74) Benzyl Chloride	19.073	91	424	0.018	ppbV	#	90
75) 1,3-dichlorobenzene	19.090	146	580	0.020	ppbV		92
76) 1,4-dichlorobenzene	19.148	146	580M6	0.020	ppbV		
77) sec-butylbenzene	19.173	105	1290	0.021	ppbV		94
78) p-isopropyltoluene	19.298	119	1215	0.020	ppbV		99
79) 1,2-dichlorobenzene	19.423	146	549	0.020	ppbV	#	86
80) n-butylbenzene	19.640	91	1053	0.019	ppbV		93
81) 1,2-dibromo-3-chloropr...	19.782	75	221	0.019	ppbV		93
82) 1,2,4-trichlorobenzene	20.908	180	335	0.017	ppbV	#	68
83) naphthalene	21.017	128	1221	0.019	ppbV	#	86
84) 1,2,3-trichlorobenzene	21.275	180	313	0.016	ppbV	#	72
85) hexachlorobutadiene	21.342	225	348	0.020	ppbV	#	92

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

```
Data Path   : O:\Forensics\Data\AirLab15\2021\12\1222SIM_I\
Data File  : r1529888_Ev2.D
Acq On     : 22 Dec 2021    4:15 AM
Operator   : AIRLAB15:TS
Sample     : IT015-SIMSTD0.02
Misc       : WG1587796
ALS Vial   : 0    Sample Multiplier: 1
```

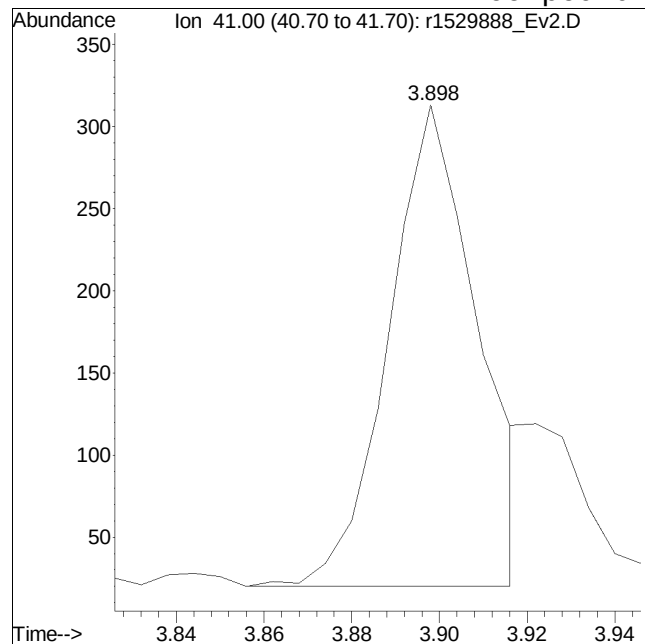
Quant Time: Dec 27 10:20:10 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:48:40 2021
Response via : Initial Calibration



Manual Integration Report

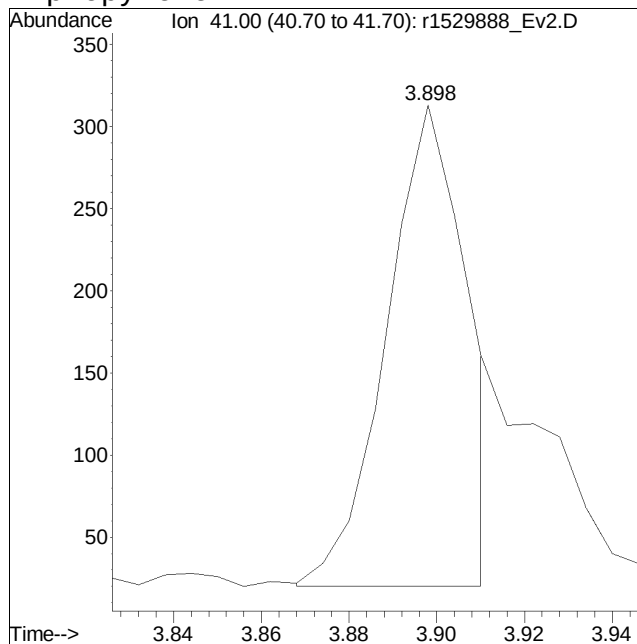
Data Path : 0:\Forensics\Data\AirLab15QMethod : TSIM15_211222.M
Data File : r1529888_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:4: 5 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 12/22/2021 10:49 am

Compound #2: propylene



Original Peak Response = 413

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

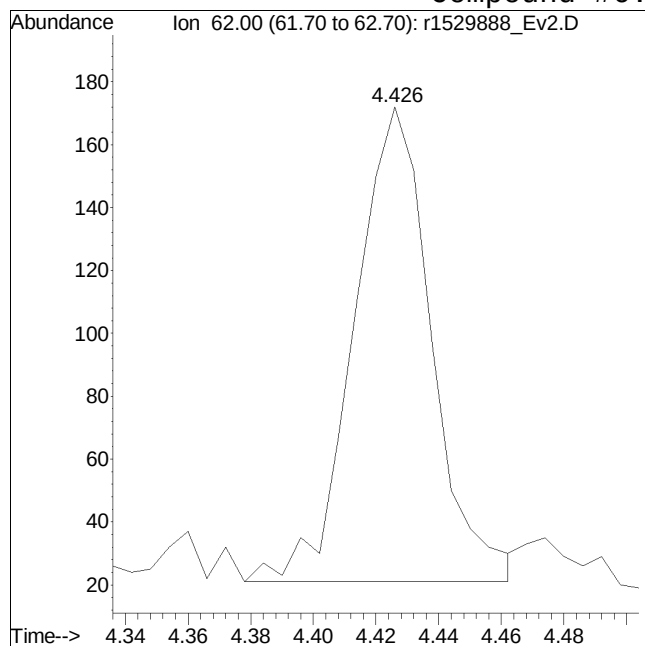


Manual Peak Response = 375 M6

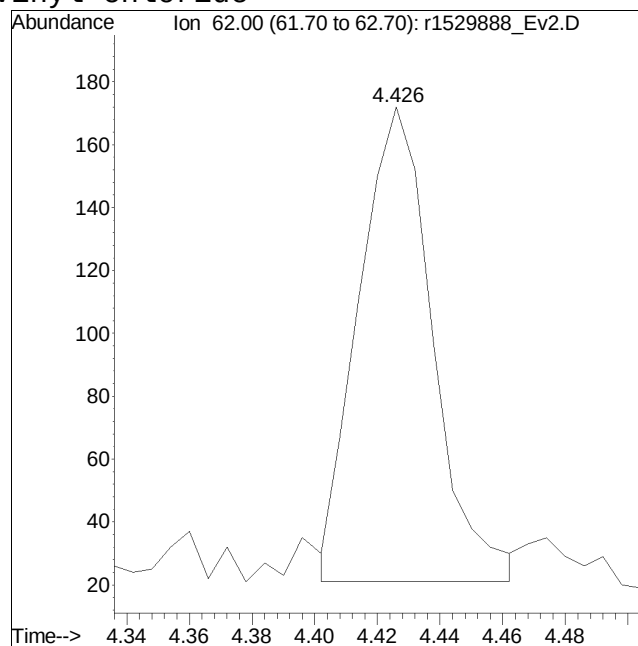
Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529888_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:4: 5 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 12/22/2021 10:49 am

Compound #6: vinyl chloride



Original Peak Response = 259



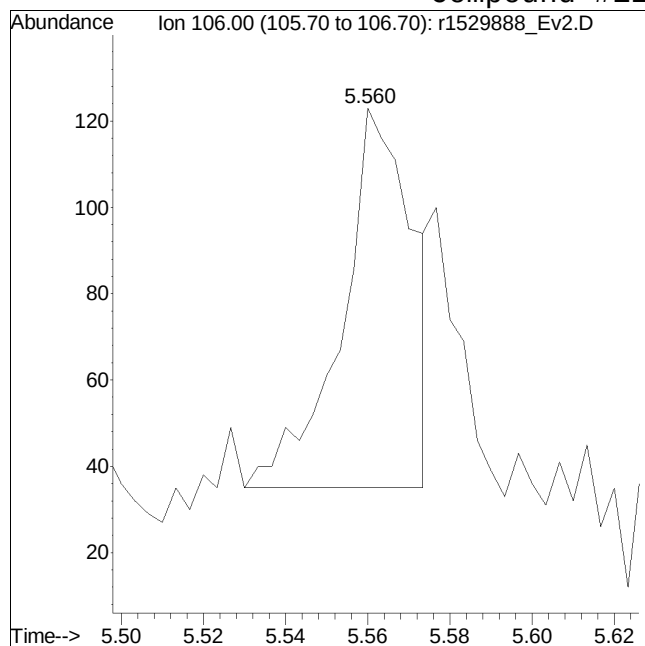
Manual Peak Response = 248 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

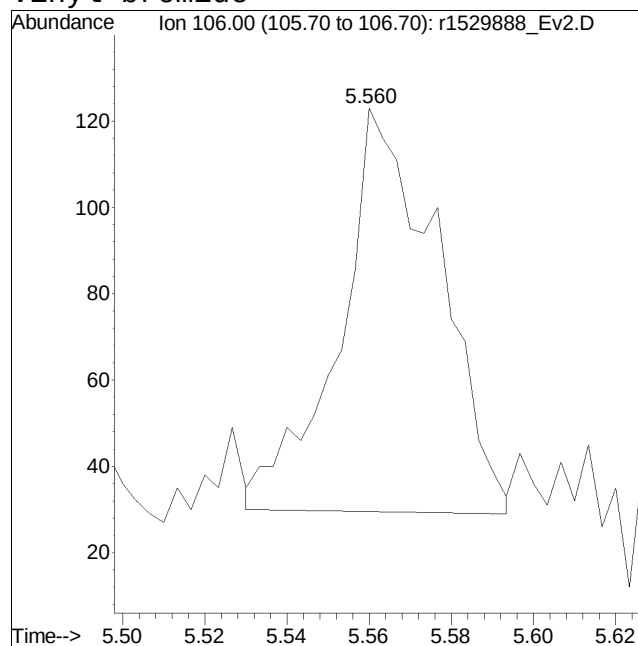
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529888_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:4: 5 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 12/22/2021 10:49 am

Compound #11: vinyl bromide



Original Peak Response = 105

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

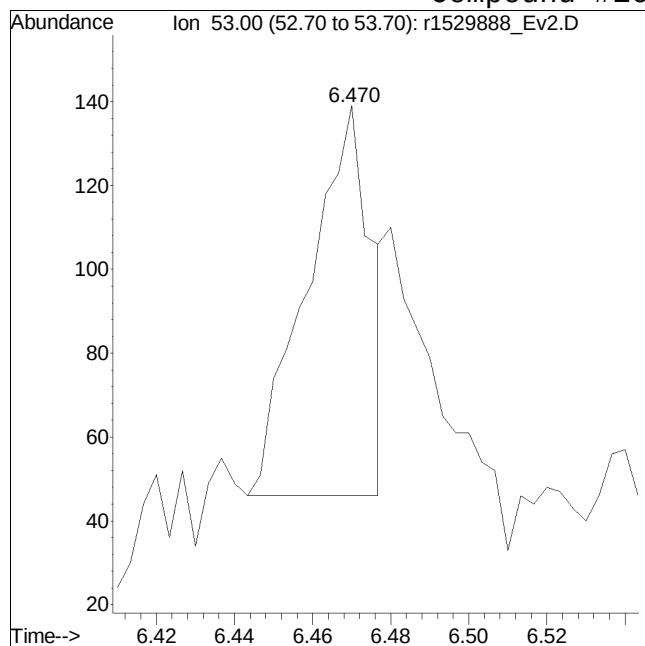


Manual Peak Response = 156 M6

Manual Integration Report

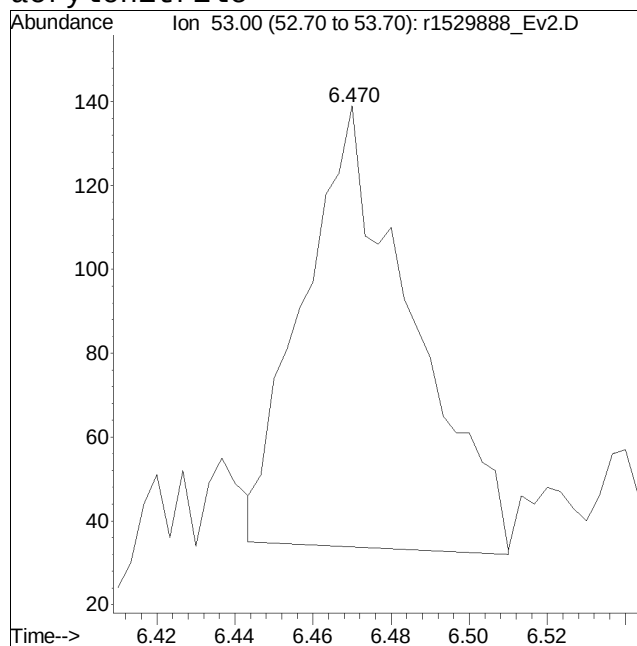
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529888_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:4: 5 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 12/22/2021 10:49 am

Compound #16: acrylonitrile



Original Peak Response = 106

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

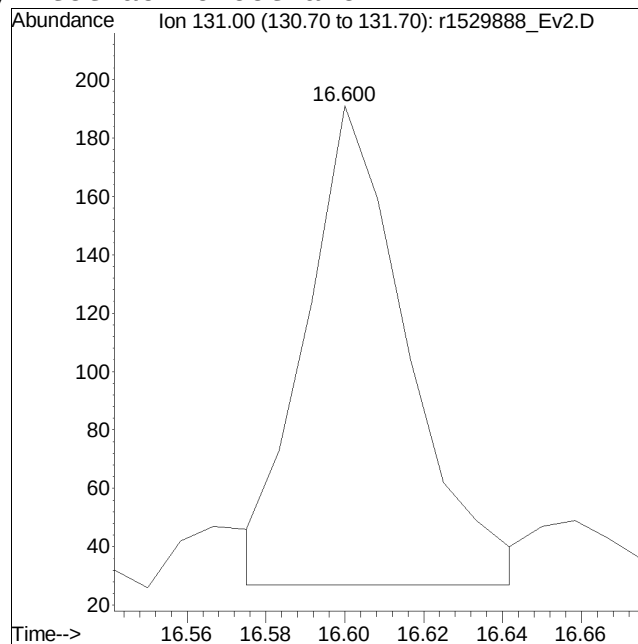
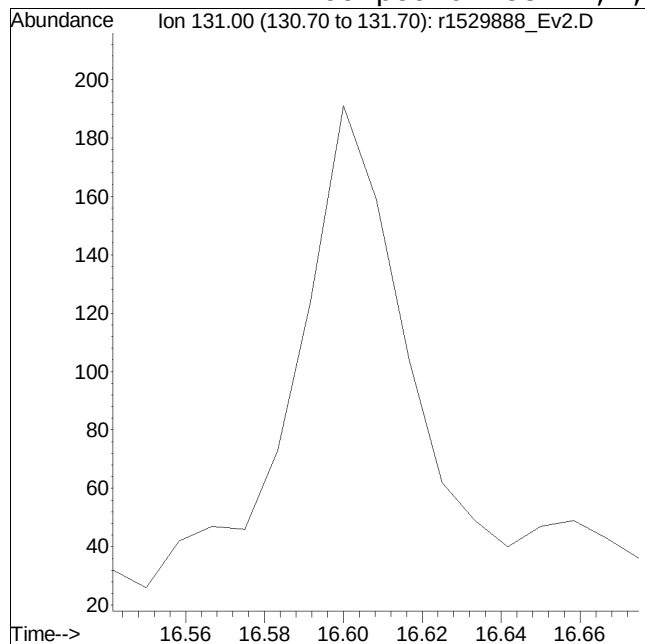


Manual Peak Response = 202 M6

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529888_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:4: 5 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 12/22/2021 10:49 am

Compound #58: 1,1,1,2-tetrachloroethane



Original Peak Response =

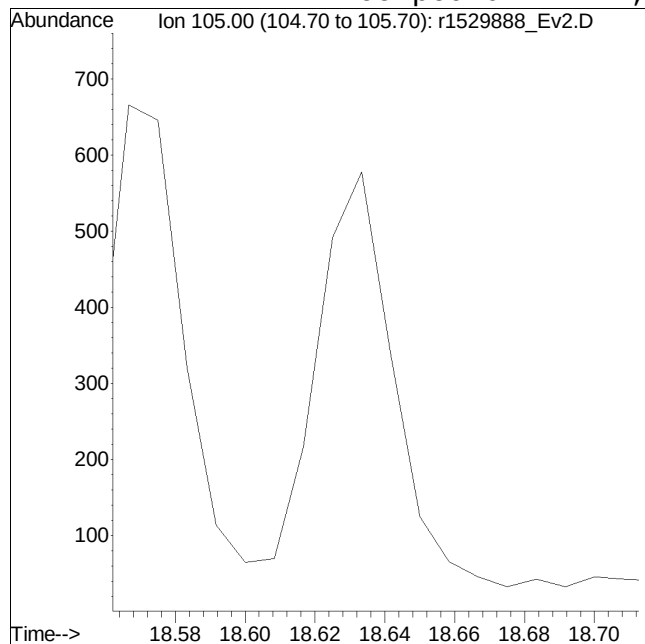
Manual Peak Response = 293 M4

M4 = Poor automated baseline construction.

Manual Integration Report

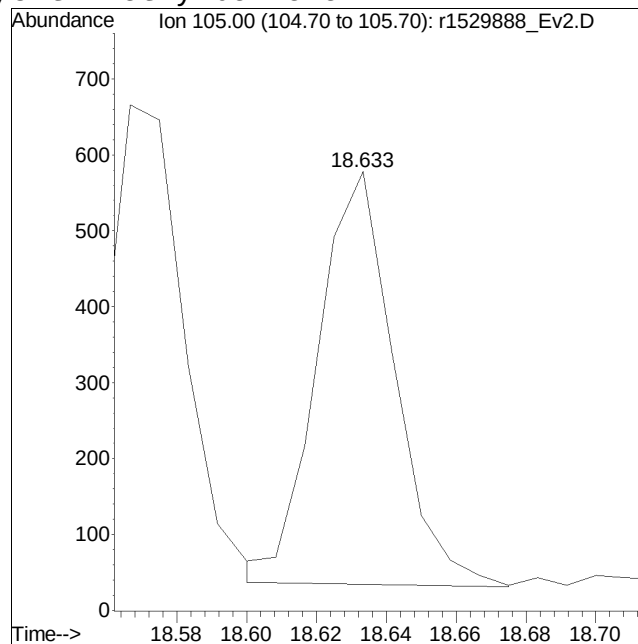
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529888_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:4: 5 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 12/22/2021 10:49 am

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response =

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



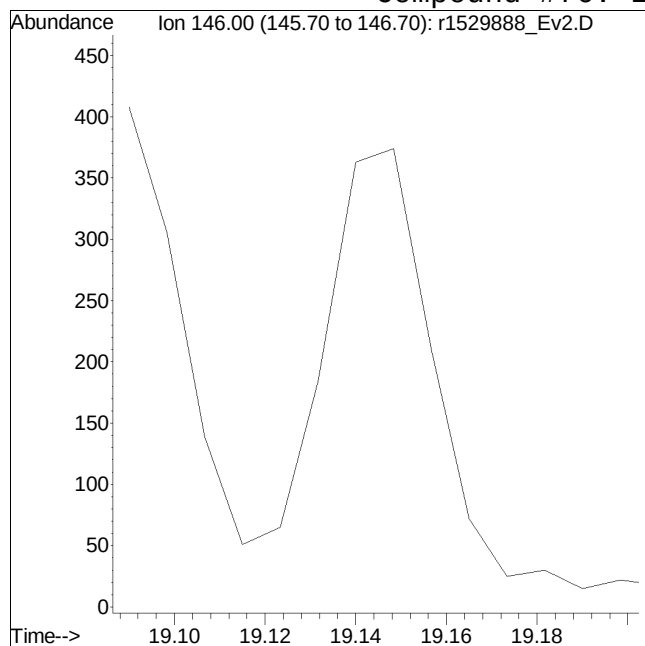
Manual Peak Response = 830 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

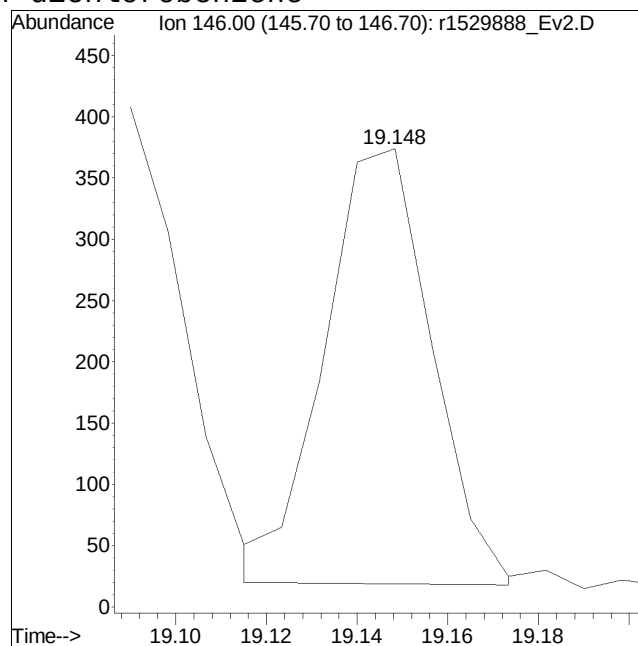
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529888_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:4: 5 Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 12/22/2021 10:49 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response =

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 580 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529889_Ev2.D
 Acq On : 22 Dec 2021 4:54 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.05
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:21:48 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.592	49	211166	10.000	ppbV	0.05
Standard Area = 213198			Recovery =	99.05%		
33) 1,4-difluorobenzene	11.870	114	506545	10.000	ppbV	0.05
Standard Area = 515322			Recovery =	98.30%		
51) chlorobenzene-D5	16.575	54	117526	10.000	ppbV	0.03
Standard Area = 119198			Recovery =	98.60%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.483	65	144111	10.163	ppbV	0.05
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.63%		
53) toluene-D8	14.708	98	458639	9.747	ppbV	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.47%		
67) bromofluorobenzene	17.917	95	330229	9.464	ppbV	0.03
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.64%		
Target Compounds						
					Qvalue	
2) propylene	3.892	41	579M6	0.072	ppbV	
3) dichlorodifluoromethane	3.976	85	919	0.056	ppbV	89
4) chloromethane	4.156	50	472	0.061	ppbV #	86
5) Freon-114	4.282	85	1031	0.053	ppbV	99
6) vinyl chloride	4.420	62	553	0.053	ppbV #	87
7) 1,3-butadiene	4.582	54	424	0.056	ppbV	85
8) bromomethane	4.906	94	414	0.053	ppbV	90
9) chloroethane	5.128	64	303	0.059	ppbV #	85
10) ethanol	5.302	31	3334	0.381	ppbV	100
11) vinyl bromide	5.557	106	366M6	0.056	ppbV	
12) acrolein	5.717	56	258M6	0.061	ppbV	
13) acetone	5.893	43	4892	0.444	ppbV #	94
14) trichlorofluoromethane	6.087	101	842	0.057	ppbV	96
15) isopropyl alcohol	6.217	45	1923	0.162	ppbV #	95
16) acrylonitrile	6.470	53	421M6	0.058	ppbV	
17) 1,1-dichloroethene	6.864	61	789	0.055	ppbV #	87
18) tertiary butyl alcohol	6.966	59	926	0.057	ppbV #	89
19) methylene chloride	7.032	49	946	0.096	ppbV	91
20) 3-chloropropene	7.170	41	637	0.055	ppbV #	80
21) carbon disulfide	7.326	76	981	0.050	ppbV #	1
22) Freon 113	7.368	101	787	0.053	ppbV	94
23) trans-1,2-dichloroethene	8.167	61	832	0.055	ppbV #	90
24) 1,1-dichloroethane	8.400	63	959	0.053	ppbV	89

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529889_Ev2.D
 Acq On : 22 Dec 2021 4:54 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.05
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:21:48 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	8.508	73	1093	0.052	ppbV	#	91
26) vinyl acetate	8.625	43	948	0.053	ppbV	#	89
27) 2-butanone	8.908	43	1246	0.062	ppbV	#	87
28) cis-1,2-dichloroethene	9.400	61	775	0.054	ppbV		90
29) Ethyl Acetate	9.717	61	230	0.063	ppbV		65
30) chloroform	9.758	83	946	0.053	ppbV		93
31) Tetrahydrofuran	10.242	42	698	0.056	ppbV	#	89
32) 1,2-dichloroethane	10.608	62	702	0.057	ppbV	#	87
34) hexane	9.667	57	1119	0.055	ppbV	#	65
36) 1,1,1-trichloroethane	10.903	97	682	0.049	ppbV	#	94
37) benzene	11.430	78	3707	0.112	ppbV		98
38) carbon tetrachloride	11.610	117	637	0.049	ppbV	#	94
39) cyclohexane	11.750	56	1131	0.052	ppbV	#	88
40) Dibromomethane	12.357	93	823	0.080	ppbV	#	95
41) 1,2-dichloropropane	12.390	63	690	0.055	ppbV	#	93
42) bromodichloromethane	12.617	83	919	0.051	ppbV	#	85
43) 1,4-dioxane	12.690	88	466	0.059	ppbV		82
44) trichloroethene	12.670	130	706	0.053	ppbV		98
45) 2,2,4-trimethylpentane	12.717	57	3539	0.053	ppbV		99
46) heptane	13.030	43	1114	0.050	ppbV	#	92
47) cis-1,3-dichloropropene	14.308	75	584	0.044	ppbV		95
48) 4-methyl-2-pentanone	13.742	43	1079	0.044	ppbV	#	96
49) trans-1,3-dichloropropene	13.683	75	730	0.051	ppbV	#	90
50) 1,1,2-trichloroethane	14.508	97	618	0.053	ppbV		87
52) toluene	14.817	91	4533	0.113	ppbV		99
54) 2-hexanone	15.117	43	1052	0.045	ppbV	#	94
55) dibromochloromethane	15.267	129	794	0.049	ppbV	#	97
56) 1,2-dibromoethane	15.517	107	798	0.047	ppbV		92
57) tetrachloroethene	15.975	166	716	0.050	ppbV		93
58) 1,1,1,2-tetrachloroethane	16.608	131	604	0.047	ppbV		96
59) chlorobenzene	16.617	112	1501	0.051	ppbV		97
60) ethylbenzene	16.958	91	2449	0.048	ppbV		95
61) m+p-xylene	17.117	91	4045	0.097	ppbV		98
62) bromoform	17.192	173	502	0.041	ppbV		95
63) styrene	17.442	104	1266	0.044	ppbV		98
64) 1,1,2,2-tetrachloroethane	17.533	83	1538	0.049	ppbV		99
65) o-xylene	17.533	91	1974	0.047	ppbV		97
66) 1,2,3-Trichloropropane	17.642	75	1127	0.052	ppbV		93
68) isopropylbenzene	18.033	105	2445	0.051	ppbV		95
69) Bromobenzene	18.108	77	1531	0.053	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529889_Ev2.D
 Acq On : 22 Dec 2021 4:54 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.05
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:21:48 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

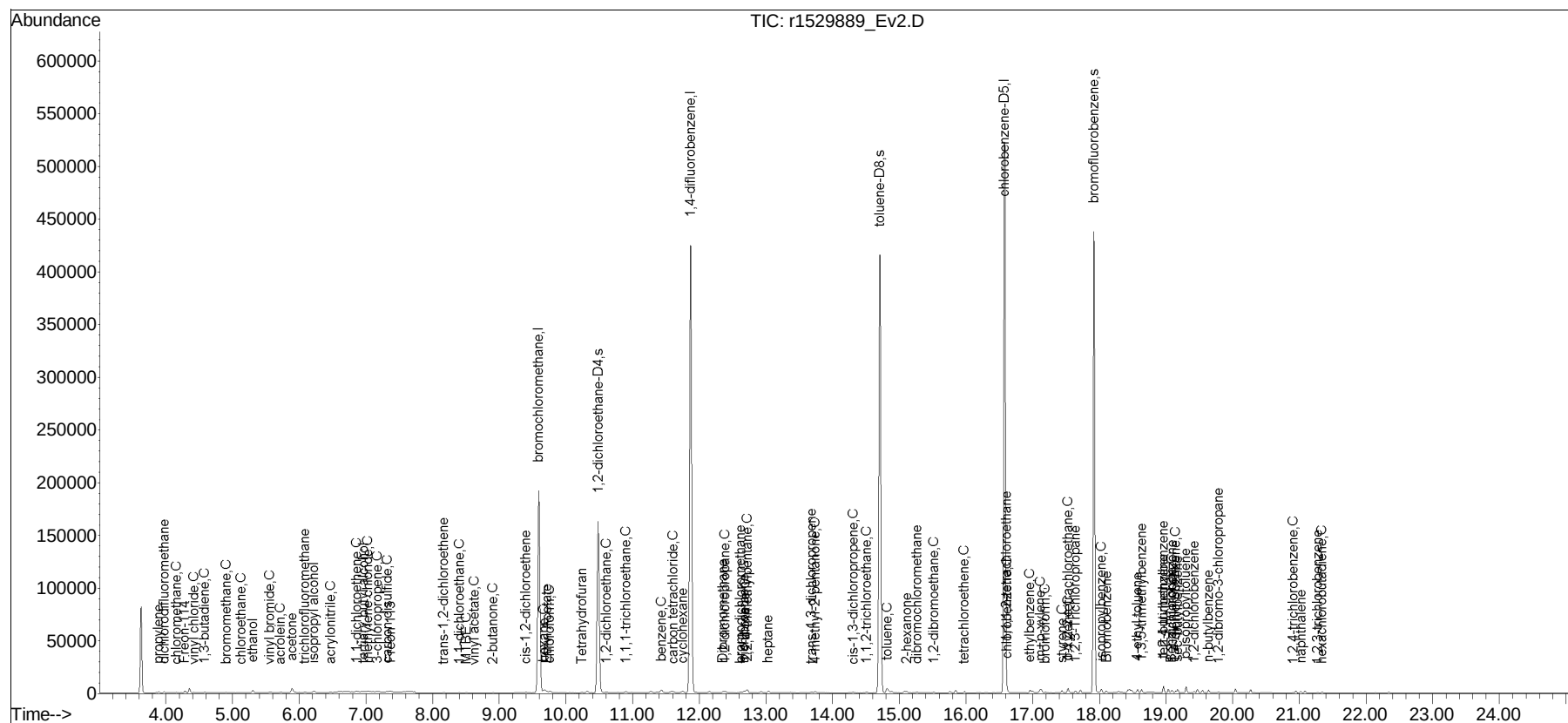
CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70) 4-ethyl toluene	18.575	105	2283	0.045	ppbV	#	91
71) 1,3,5-trimethylbenzene	18.633	105	1955	0.044	ppbV		96
72) tert-butylbenzene	18.965	119	2458	0.048	ppbV		95
73) 1,2,4-trimethylbenzene	18.965	105	2039	0.047	ppbV		94
74) Benzyl Chloride	19.082	91	965	0.040	ppbV		97
75) 1,3-dichlorobenzene	19.090	146	1345	0.047	ppbV		91
76) 1,4-dichlorobenzene	19.148	146	1293M6	0.045	ppbV		
77) sec-butylbenzene	19.173	105	2921	0.047	ppbV		98
78) p-isopropyltoluene	19.298	119	2823	0.045	ppbV		97
79) 1,2-dichlorobenzene	19.423	146	1267	0.047	ppbV		91
80) n-butylbenzene	19.640	91	2463	0.044	ppbV		98
81) 1,2-dibromo-3-chloropr...	19.790	75	480	0.041	ppbV		94
82) 1,2,4-trichlorobenzene	20.908	180	786	0.039	ppbV	#	85
83) naphthalene	21.025	128	2573	0.040	ppbV	#	94
84) 1,2,3-trichlorobenzene	21.275	180	802	0.040	ppbV	#	87
85) hexachlorobutadiene	21.342	225	813	0.046	ppbV	#	89

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

```
Data Path   : O:\Forensics\Data\AirLab15\2021\12\1222SIM_I\
Data File  : r1529889_Ev2.D
Acq On     : 22 Dec 2021    4:54 AM
Operator   : AIRLAB15:TS
Sample     : IT015-SIMSTD0.05
Misc       : WG1587796
ALS Vial   : 0    Sample Multiplier: 1
```

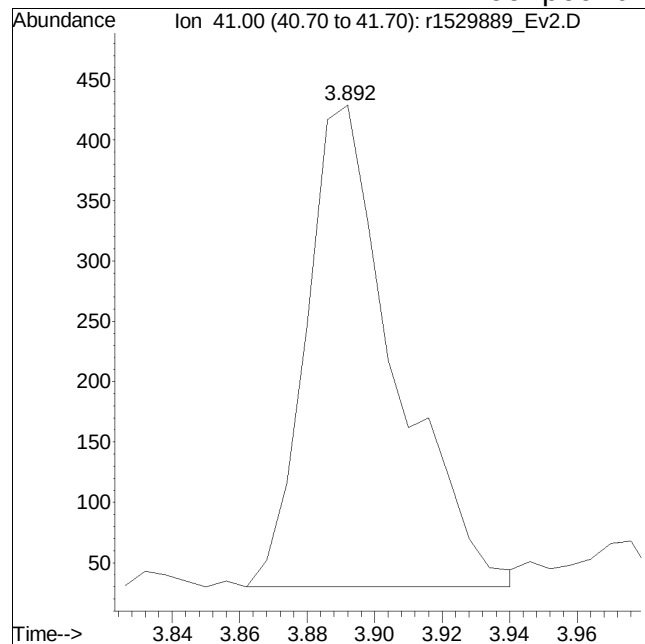
Quant Time: Dec 27 10:21:48 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:48:40 2021
Response via : Initial Calibration



Manual Integration Report

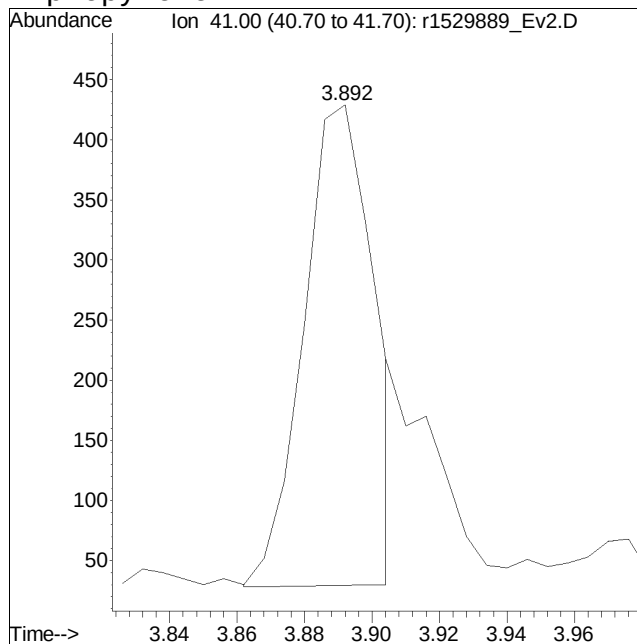
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529889_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:4: 4 Instrument :
Sample : IT015-SIMSTD0.05 Quant Date : 12/22/2021 10:49 am

Compound #2: propylene



Original Peak Response = 732

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

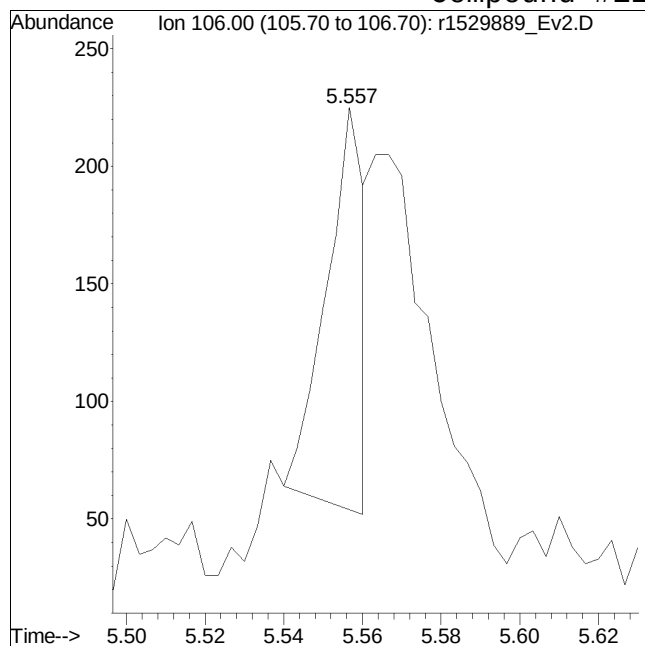


Manual Peak Response = 579 M6

Manual Integration Report

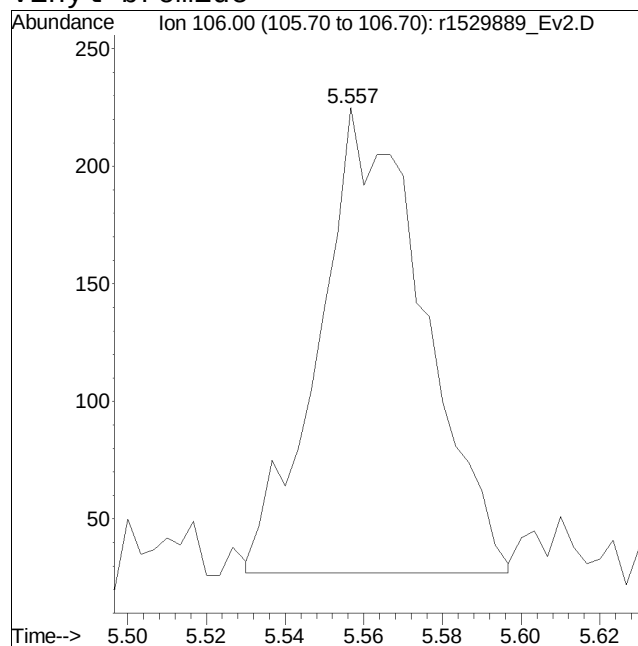
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529889_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:4: 4 Instrument :
Sample : IT015-SIMSTD0.05 Quant Date : 12/22/2021 10:49 am

Compound #11: vinyl bromide



Original Peak Response = 113

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

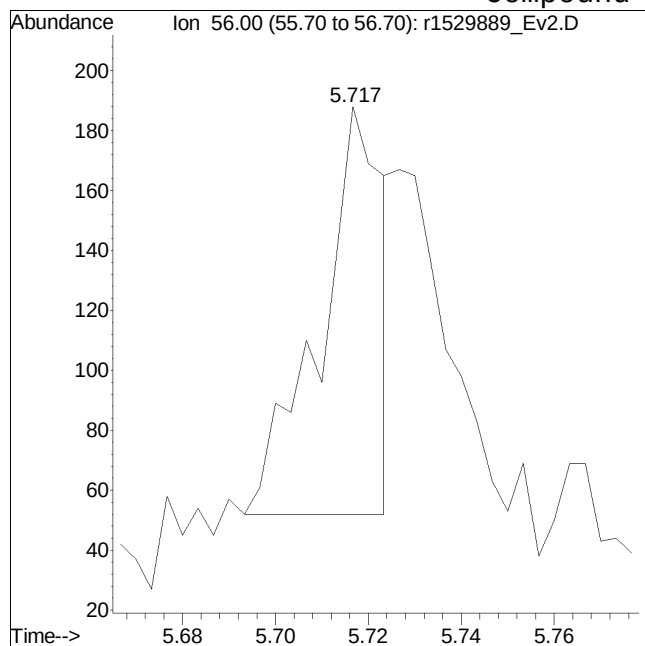


Manual Peak Response = 366 M6

Manual Integration Report

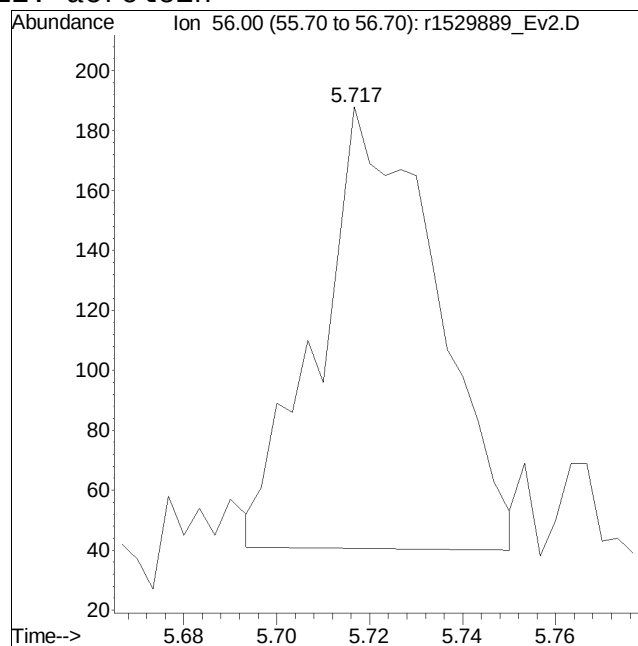
Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529889_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:4: 4 Instrument :
Sample : IT015-SIMSTD0.05 Quant Date : 12/22/2021 10:49 am

Compound #12: acrolein



Original Peak Response = 127

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



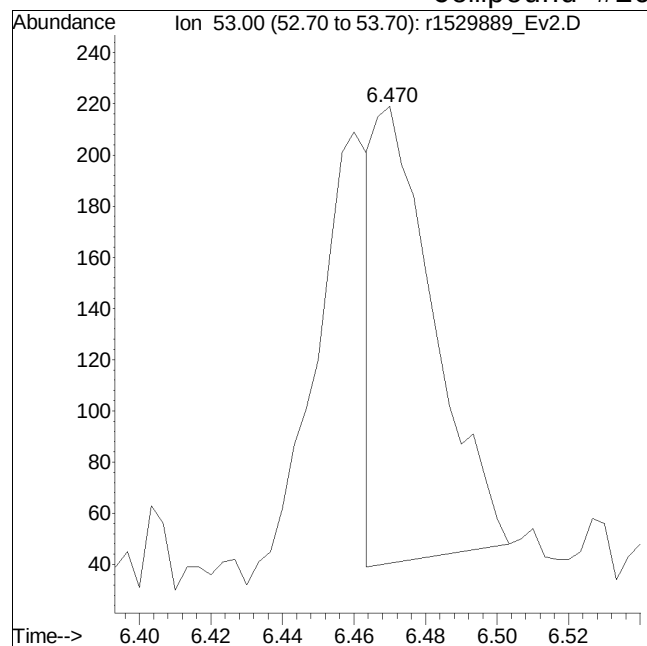
Manual Peak Response = 258 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

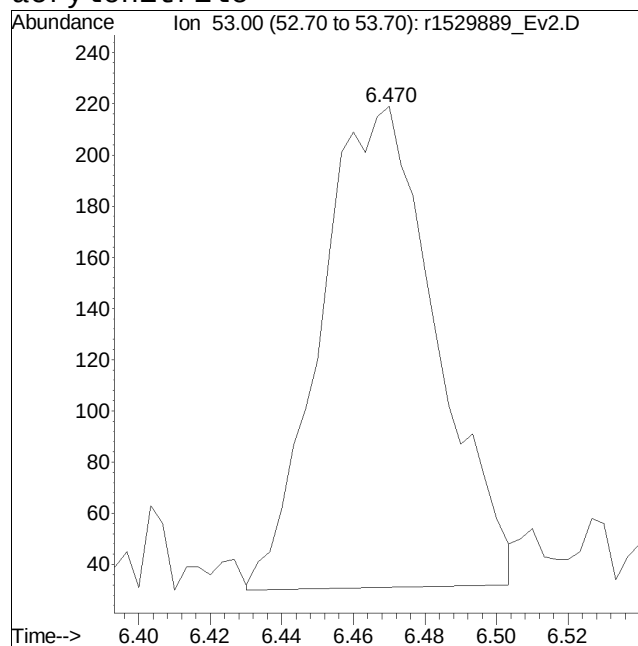
Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529889_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:4: 4 Instrument :
Sample : IT015-SIMSTD0.05 Quant Date : 12/22/2021 10:49 am

Compound #16: acrylonitrile



Original Peak Response = 207



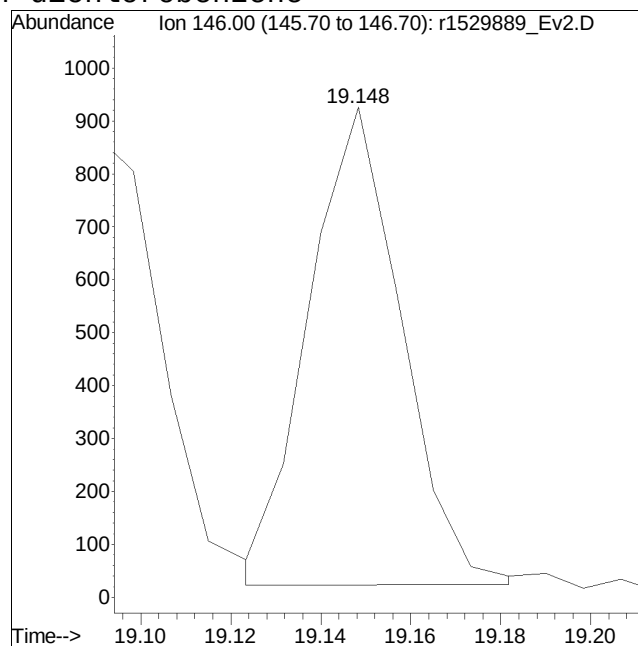
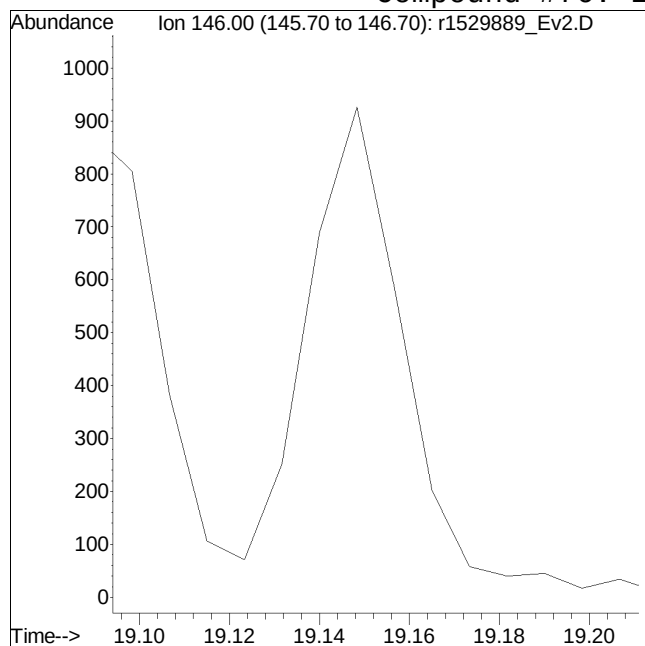
Manual Peak Response = 421 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529889_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:4: 4 Instrument :
Sample : IT015-SIMSTD0.05 Quant Date : 12/22/2021 10:49 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response =

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Peak Response = 1293 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529890_Ev2.D
 Acq On : 22 Dec 2021 5:35 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.1
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:22:58 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.592	49	210431	10.000	ppbV	0.05
Standard Area = 213198			Recovery =		98.70%	
33) 1,4-difluorobenzene	11.870	114	506928	10.000	ppbV	0.05
Standard Area = 515322			Recovery =		98.37%	
51) chlorobenzene-D5	16.575	54	116970	10.000	ppbV	0.03
Standard Area = 119198			Recovery =		98.13%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.483	65	143009	10.078	ppbV	0.05
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.78%	
53) toluene-D8	14.708	98	459662	9.815	ppbV	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.15%	
67) bromofluorobenzene	17.917	95	331626	9.549	ppbV	0.03
Spiked Amount 10.000	Range 70 - 130		Recovery =		95.49%	
Target Compounds						
					Qvalue	
2) propylene	3.892	41	983M6	0.123	ppbV	
3) dichlorodifluoromethane	3.970	85	1808	0.111	ppbV	97
4) chloromethane	4.156	50	875	0.113	ppbV	96
5) Freon-114	4.288	85	1967	0.102	ppbV	99
6) vinyl chloride	4.420	62	1072	0.103	ppbV	98
7) 1,3-butadiene	4.582	54	805	0.107	ppbV	85
8) bromomethane	4.906	94	792	0.101	ppbV	88
9) chloroethane	5.128	64	602	0.118	ppbV #	90
10) ethanol	5.302	31	5660	0.649	ppbV	98
11) vinyl bromide	5.560	106	662	0.102	ppbV	94
12) acrolein	5.727	56	492M6	0.117	ppbV	
13) acetone	5.893	43	7445	0.678	ppbV #	94
14) trichlorofluoromethane	6.087	101	1584	0.108	ppbV	100
15) isopropyl alcohol	6.220	45	3385	0.287	ppbV #	92
16) acrylonitrile	6.467	53	745	0.103	ppbV	89
17) 1,1-dichloroethene	6.864	61	1537	0.107	ppbV	93
18) tertiary butyl alcohol	6.966	59	1741	0.107	ppbV #	89
19) methylene chloride	7.032	49	1599	0.163	ppbV	91
20) 3-chloropropene	7.176	41	1143	0.100	ppbV #	85
21) carbon disulfide	7.332	76	1831	0.094	ppbV #	1
22) Freon 113	7.368	101	1569	0.106	ppbV #	95
23) trans-1,2-dichloroethene	8.167	61	1591	0.106	ppbV	99
24) 1,1-dichloroethane	8.400	63	1829	0.101	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529890_Ev2.D
 Acq On : 22 Dec 2021 5:35 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.1
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:22:58 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.508	73	2124	0.102	ppbV	94
26) vinyl acetate	8.625	43	1716	0.097	ppbV #	91
27) 2-butanone	8.908	43	2224	0.111	ppbV #	95
28) cis-1,2-dichloroethene	9.408	61	1396	0.097	ppbV #	89
29) Ethyl Acetate	9.725	61	386	0.106	ppbV #	71
30) chloroform	9.758	83	1863	0.105	ppbV	98
31) Tetrahydrofuran	10.233	42	1199	0.096	ppbV	90
32) 1,2-dichloroethane	10.617	62	1278	0.104	ppbV	91
34) hexane	9.675	57	2175	0.108	ppbV #	79
36) 1,1,1-trichloroethane	10.903	97	1299	0.093	ppbV #	94
37) benzene	11.437	78	5356	0.162	ppbV	99
38) carbon tetrachloride	11.610	117	1412	0.109	ppbV	95
39) cyclohexane	11.757	56	2169	0.099	ppbV	93
40) Dibromomethane	12.363	93	1314	0.127	ppbV #	98
41) 1,2-dichloropropane	12.397	63	1302	0.104	ppbV	94
42) bromodichloromethane	12.623	83	1739	0.097	ppbV	95
43) 1,4-dioxane	12.697	88	825	0.105	ppbV	90
44) trichloroethene	12.677	130	1237	0.093	ppbV	92
45) 2,2,4-trimethylpentane	12.717	57	6792	0.101	ppbV	100
46) heptane	13.037	43	2231	0.101	ppbV #	89
47) cis-1,3-dichloropropene	14.308	75	1069	0.080	ppbV	96
48) 4-methyl-2-pentanone	13.742	43	2229	0.090	ppbV	97
49) trans-1,3-dichloropropene	13.692	75	1240	0.086	ppbV	96
50) 1,1,2-trichloroethane	14.508	97	1168	0.100	ppbV	88
52) toluene	14.817	91	6547	0.164	ppbV	99
54) 2-hexanone	15.108	43	2003	0.087	ppbV	99
55) dibromochloromethane	15.267	129	1389	0.086	ppbV	97
56) 1,2-dibromoethane	15.517	107	1603	0.095	ppbV	89
57) tetrachloroethene	15.983	166	1403	0.099	ppbV	97
58) 1,1,1,2-tetrachloroethane	16.608	131	1208	0.095	ppbV	96
59) chlorobenzene	16.625	112	2934	0.100	ppbV	93
60) ethylbenzene	16.967	91	4748	0.094	ppbV	95
61) m+p-xylene	17.125	91	7702	0.185	ppbV	99
62) bromoform	17.192	173	987	0.080	ppbV	96
63) styrene	17.442	104	2491	0.086	ppbV	96
64) 1,1,2,2-tetrachloroethane	17.533	83	2937	0.094	ppbV	97
65) o-xylene	17.533	91	3823	0.091	ppbV	97
66) 1,2,3-Trichloropropane	17.642	75	2215	0.102	ppbV	93
68) isopropylbenzene	18.033	105	4683	0.097	ppbV	94
69) Bromobenzene	18.108	77	2844	0.100	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529890_Ev2.D
 Acq On : 22 Dec 2021 5:35 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.1
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:22:58 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

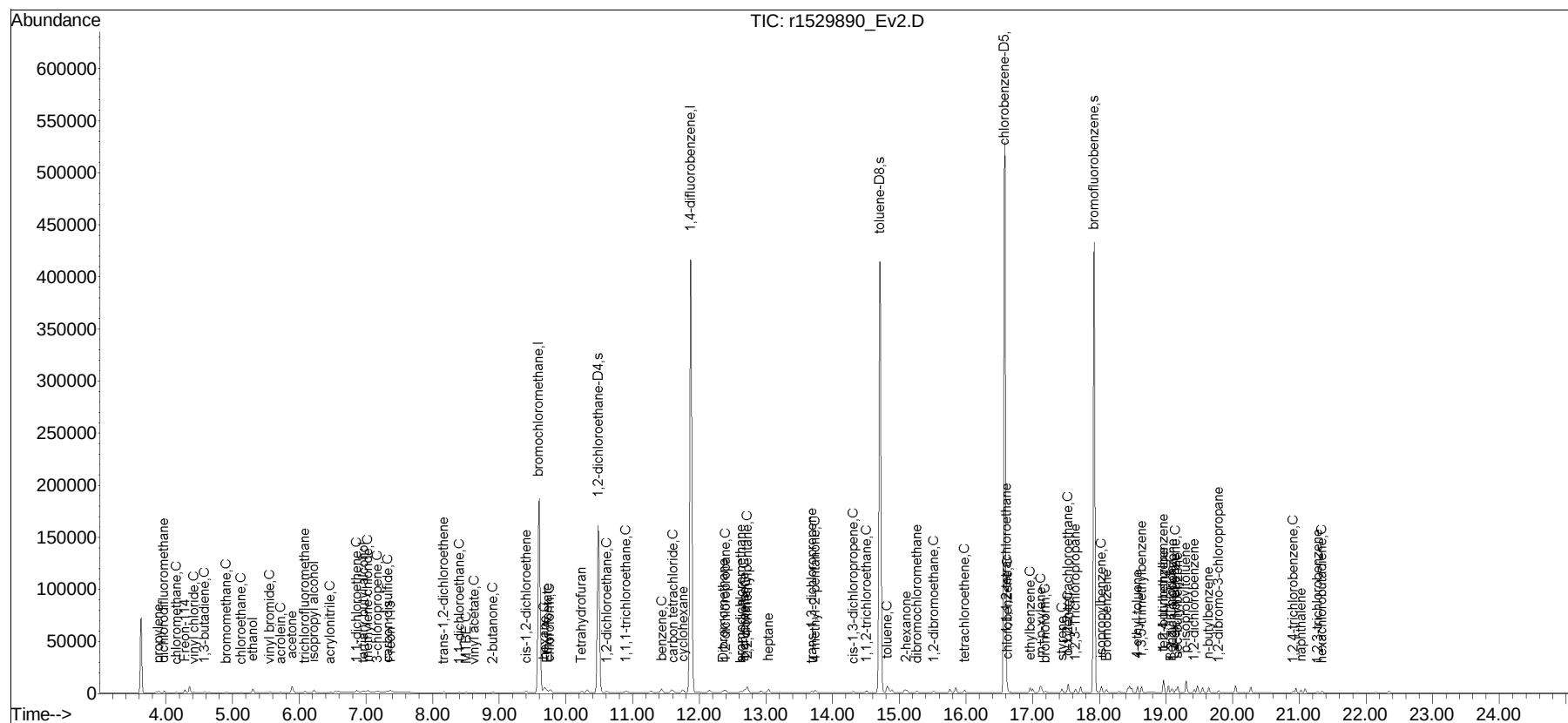
CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.575	105	4644	0.092	ppbV	95
71) 1,3,5-trimethylbenzene	18.633	105	3868	0.088	ppbV	97
72) tert-butylbenzene	18.965	119	4919	0.096	ppbV	93
73) 1,2,4-trimethylbenzene	18.965	105	3973	0.091	ppbV	95
74) Benzyl Chloride	19.082	91	1898	0.079	ppbV	100
75) 1,3-dichlorobenzene	19.098	146	2661	0.093	ppbV	98
76) 1,4-dichlorobenzene	19.148	146	2561M6	0.090	ppbV	
77) sec-butylbenzene	19.173	105	5701	0.092	ppbV	99
78) p-isopropyltoluene	19.298	119	5691	0.091	ppbV	95
79) 1,2-dichlorobenzene	19.423	146	2463	0.091	ppbV	89
80) n-butylbenzene	19.640	91	4856	0.086	ppbV	100
81) 1,2-dibromo-3-chloropr...	19.790	75	949	0.081	ppbV	93
82) 1,2,4-trichlorobenzene	20.908	180	1544	0.076	ppbV #	90
83) naphthalene	21.025	128	5043	0.078	ppbV	98
84) 1,2,3-trichlorobenzene	21.275	180	1546	0.078	ppbV #	92
85) hexachlorobutadiene	21.342	225	1544	0.088	ppbV	95

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

```
Data Path   : 0:\Forensics\Data\AirLab15\2021\12\1222SIM_I\
Data File  : r1529890_Ev2.D
Acq On     : 22 Dec 2021    5:35 AM
Operator   : AIRLAB15:TS
Sample     : IT015-SIMSTD0.1
Misc       : WG1587796
ALS Vial   : 0    Sample Multiplier: 1
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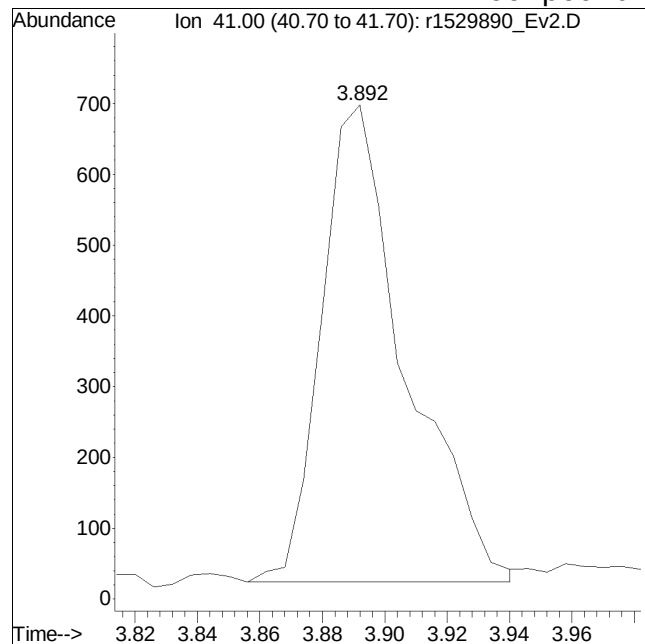
Quant Time: Dec 27 10:22:58 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:48:40 2021
Response via : Initial Calibration



Manual Integration Report

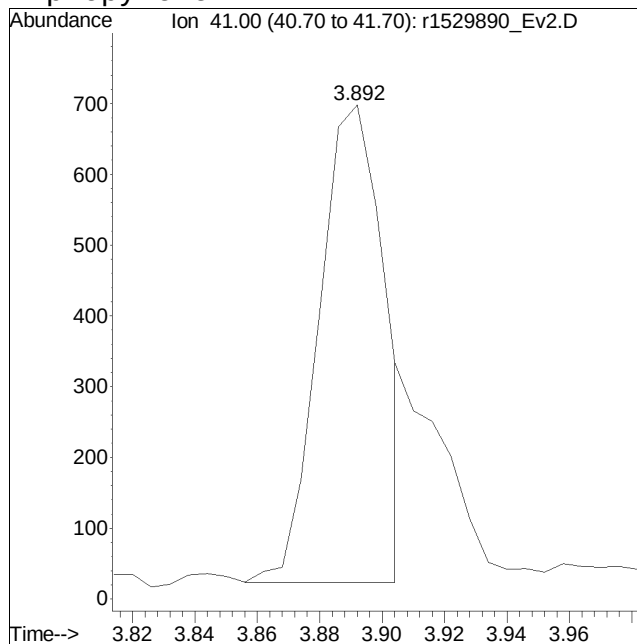
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529890_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:5: 5 Instrument :
Sample : IT015-SIMSTD0.1 Quant Date : 12/22/2021 10:49 am

Compound #2: propylene



Original Peak Response = 1262

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

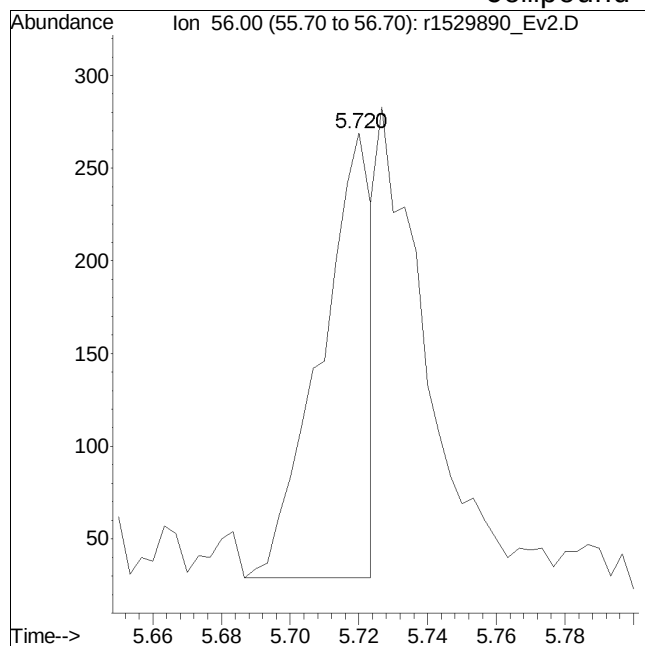


Manual Peak Response = 983 M6

Manual Integration Report

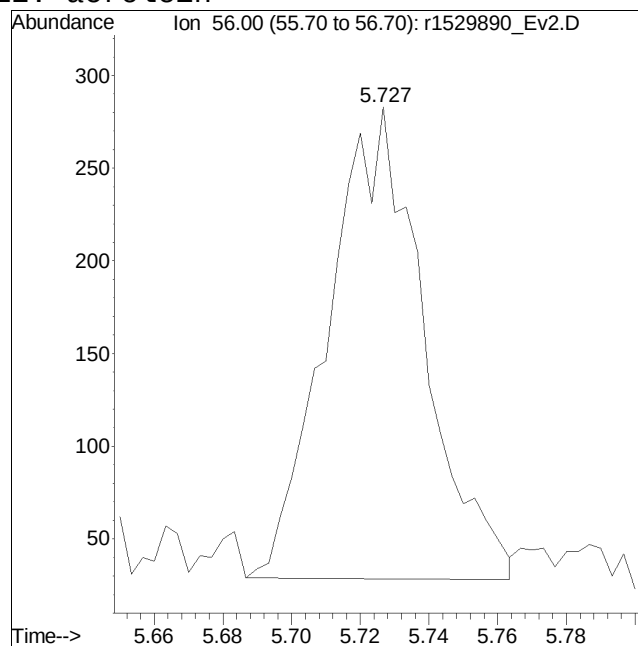
Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529890_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:5: 5 Instrument :
Sample : IT015-SIMSTD0.1 Quant Date : 12/22/2021 10:49 am

Compound #12: acrolein



Original Peak Response = 248

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

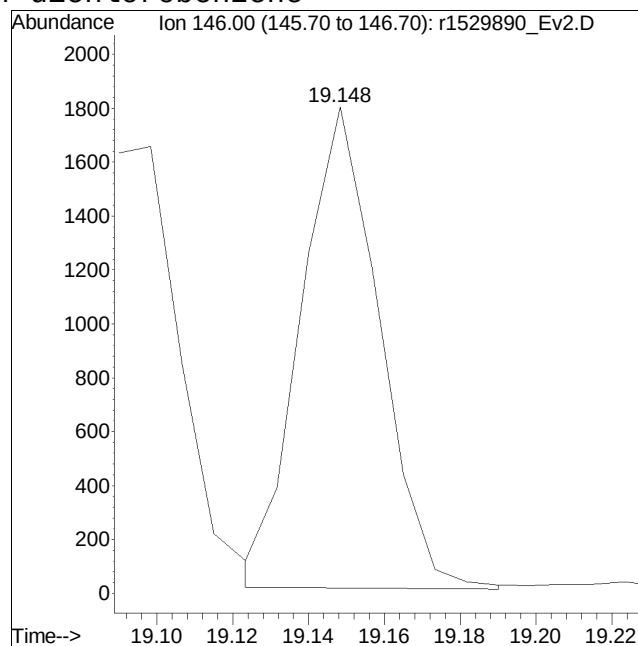
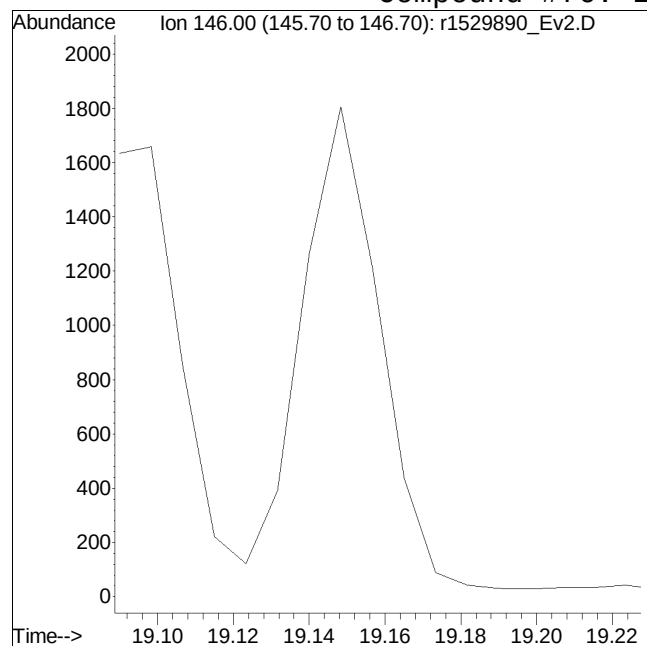


Manual Peak Response = 492 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529890_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:5: 5 Instrument :
Sample : IT015-SIMSTD0.1 Quant Date : 12/22/2021 10:49 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response =

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Peak Response = 2561 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529891_Ev2.D
 Acq On : 22 Dec 2021 6:12 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.2
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:24:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.592	49	211287	10.000	ppbV	0.05
Standard Area = 213198			Recovery =	99.10%		
33) 1,4-difluorobenzene	11.870	114	509842	10.000	ppbV	0.05
Standard Area = 515322			Recovery =	98.94%		
51) chlorobenzene-D5	16.575	54	116601	10.000	ppbV	0.03
Standard Area = 119198			Recovery =	97.82%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.483	65	143916	10.084	ppbV	0.05
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.84%		
53) toluene-D8	14.708	98	461403	9.884	ppbV	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.84%		
67) bromofluorobenzene	17.925	95	317199	9.163	ppbV	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.63%		
Target Compounds						
					Qvalue	
2) propylene	3.892	41	2007M6	0.251	ppbV	
3) dichlorodifluoromethane	3.976	85	3831	0.234	ppbV	98
4) chloromethane	4.156	50	1814	0.233	ppbV	93
5) Freon-114	4.288	85	4561	0.235	ppbV	94
6) vinyl chloride	4.420	62	2451	0.235	ppbV	100
7) 1,3-butadiene	4.582	54	1837	0.242	ppbV	79
8) bromomethane	4.906	94	1850	0.235	ppbV	97
9) chloroethane	5.128	64	1239	0.243	ppbV	95
10) ethanol	5.302	31	11063	1.263	ppbV	98
11) vinyl bromide	5.563	106	1518	0.233	ppbV	94
12) acrolein	5.720	56	964	0.228	ppbV #	90
13) acetone	5.887	43	14197	1.288	ppbV	90
14) trichlorofluoromethane	6.090	101	3294	0.224	ppbV	94
15) isopropyl alcohol	6.217	45	6971	0.589	ppbV	97
16) acrylonitrile	6.467	53	1790	0.245	ppbV	98
17) 1,1-dichloroethene	6.864	61	3252	0.225	ppbV	99
18) tertiary butyl alcohol	6.960	59	3964	0.242	ppbV	95
19) methylene chloride	7.032	49	2534	0.257	ppbV	94
20) 3-chloropropene	7.170	41	2671	0.232	ppbV	91
21) carbon disulfide	7.326	76	4201	0.215	ppbV #	1
22) Freon 113	7.368	101	3478	0.235	ppbV	98
23) trans-1,2-dichloroethene	8.167	61	3502	0.233	ppbV	97
24) 1,1-dichloroethane	8.400	63	4130	0.228	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529891_Ev2.D
 Acq On : 22 Dec 2021 6:12 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.2
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:24:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.500	73	4817	0.230	ppbV	98
26) vinyl acetate	8.625	43	3868	0.218	ppbV #	94
27) 2-butanone	8.908	43	4793	0.238	ppbV	95
28) cis-1,2-dichloroethene	9.408	61	3222	0.223	ppbV	92
29) Ethyl Acetate	9.717	61	907	0.247	ppbV	88
30) chloroform	9.758	83	4165	0.233	ppbV	96
31) Tetrahydrofuran	10.233	42	2833	0.226	ppbV	91
32) 1,2-dichloroethane	10.608	62	2838	0.231	ppbV	98
34) hexane	9.667	57	4698	0.231	ppbV #	72
36) 1,1,1-trichloroethane	10.903	97	3082	0.219	ppbV	94
37) benzene	11.437	78	9327	0.280	ppbV	97
38) carbon tetrachloride	11.610	117	2716	0.208	ppbV	100
39) cyclohexane	11.750	56	4905	0.223	ppbV	92
40) Dibromomethane	12.357	93	2581	0.248	ppbV #	93
41) 1,2-dichloropropane	12.390	63	2831	0.225	ppbV	99
42) bromodichloromethane	12.623	83	3720	0.206	ppbV	99
43) 1,4-dioxane	12.690	88	1744	0.221	ppbV	92
44) trichloroethene	12.670	130	3028	0.226	ppbV	91
45) 2,2,4-trimethylpentane	12.717	57	15676	0.232	ppbV	99
46) heptane	13.037	43	4964	0.223	ppbV	98
47) cis-1,3-dichloropropene	14.308	75	2473	0.184	ppbV	92
48) 4-methyl-2-pentanone	13.733	43	5087	0.204	ppbV	99
49) trans-1,3-dichloropropene	13.692	75	2791	0.192	ppbV	90
50) 1,1,2-trichloroethane	14.508	97	2595	0.221	ppbV	91
52) toluene	14.817	91	11328	0.285	ppbV	98
54) 2-hexanone	15.108	43	4644	0.202	ppbV	98
55) dibromochloromethane	15.267	129	3062	0.190	ppbV	98
56) 1,2-dibromoethane	15.517	107	3547	0.211	ppbV	94
57) tetrachloroethene	15.983	166	3124	0.221	ppbV	100
58) 1,1,1,2-tetrachloroethane	16.608	131	2647	0.208	ppbV	99
59) chlorobenzene	16.625	112	6653	0.228	ppbV	94
60) ethylbenzene	16.967	91	10623	0.211	ppbV	97
61) m+p-xylene	17.125	91	17330	0.417	ppbV	100
62) bromoform	17.192	173	2252	0.184	ppbV	97
63) styrene	17.442	104	5747	0.199	ppbV	95
64) 1,1,2,2-tetrachloroethane	17.533	83	6645	0.214	ppbV	100
65) o-xylene	17.533	91	8849	0.211	ppbV	98
66) 1,2,3-Trichloropropane	17.642	75	4997	0.231	ppbV	93
68) isopropylbenzene	18.033	105	10571	0.221	ppbV	97
69) Bromobenzene	18.108	77	6524	0.229	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529891_Ev2.D
 Acq On : 22 Dec 2021 6:12 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.2
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:24:02 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

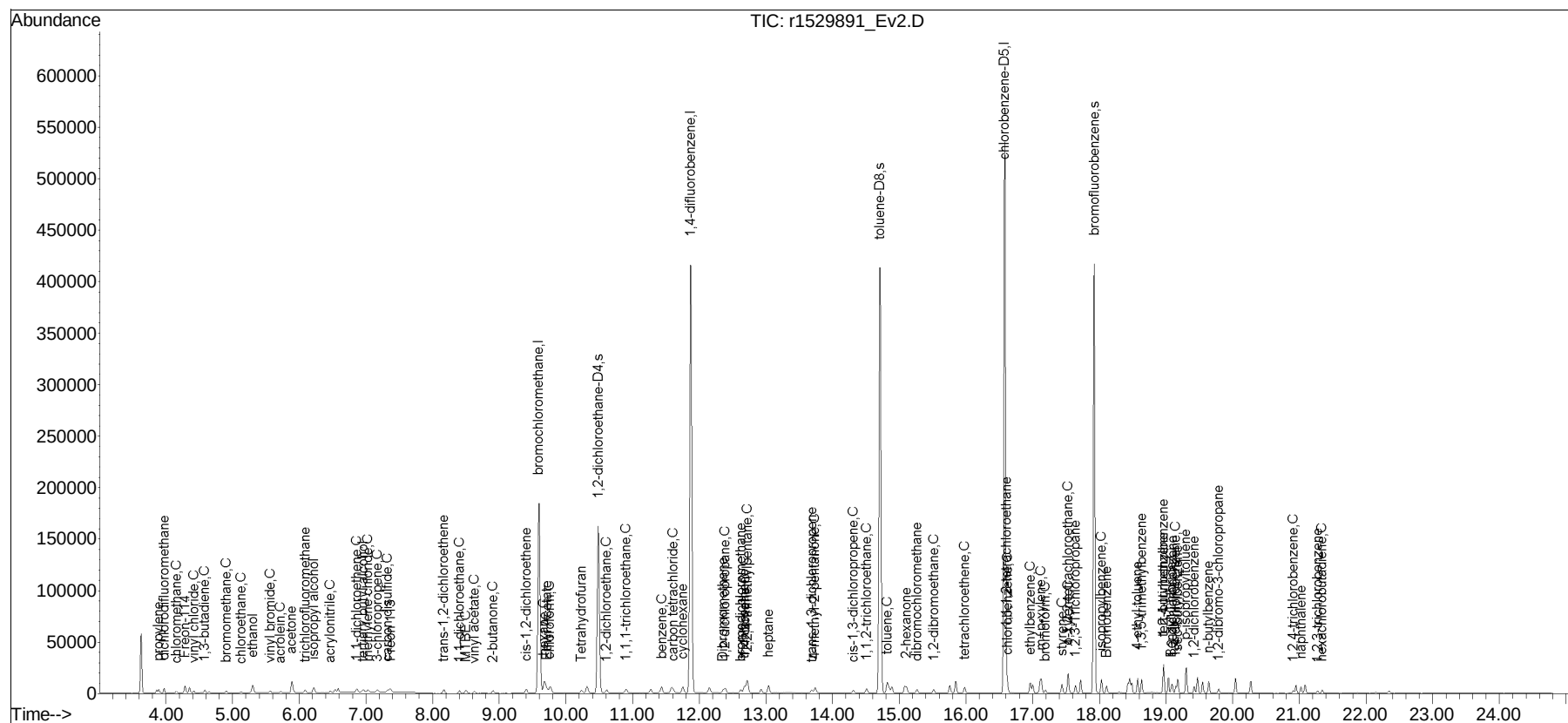
CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.575	105	10675	0.213	ppbV	97
71) 1,3,5-trimethylbenzene	18.633	105	9001	0.204	ppbV	99
72) tert-butylbenzene	18.965	119	10975	0.215	ppbV	93
73) 1,2,4-trimethylbenzene	18.965	105	8984	0.207	ppbV	97
74) Benzyl Chloride	19.082	91	4171	0.174	ppbV	99
75) 1,3-dichlorobenzene	19.098	146	5906	0.207	ppbV	98
76) 1,4-dichlorobenzene	19.148	146	5874M6	0.206	ppbV	
77) sec-butylbenzene	19.173	105	13104	0.212	ppbV	96
78) p-isopropyltoluene	19.298	119	12868	0.206	ppbV	94
79) 1,2-dichlorobenzene	19.423	146	5393	0.200	ppbV	91
80) n-butylbenzene	19.640	91	11082	0.198	ppbV	98
81) 1,2-dibromo-3-chloropr...	19.790	75	1979	0.170	ppbV	97
82) 1,2,4-trichlorobenzene	20.908	180	2772	0.137	ppbV #	91
83) naphthalene	21.025	128	9322	0.145	ppbV	99
84) 1,2,3-trichlorobenzene	21.275	180	2660	0.135	ppbV #	92
85) hexachlorobutadiene	21.342	225	2664	0.153	ppbV	95

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

```
Data Path   : O:\Forensics\Data\AirLab15\2021\12\1222SIM_I\
Data File  : r1529891_Ev2.D
Acq On     : 22 Dec 2021    6:12 AM
Operator   : AIRLAB15:TS
Sample     : IT015-SIMSTD0.2
Misc       : WG1587796
ALS Vial   : 0    Sample Multiplier: 1
```

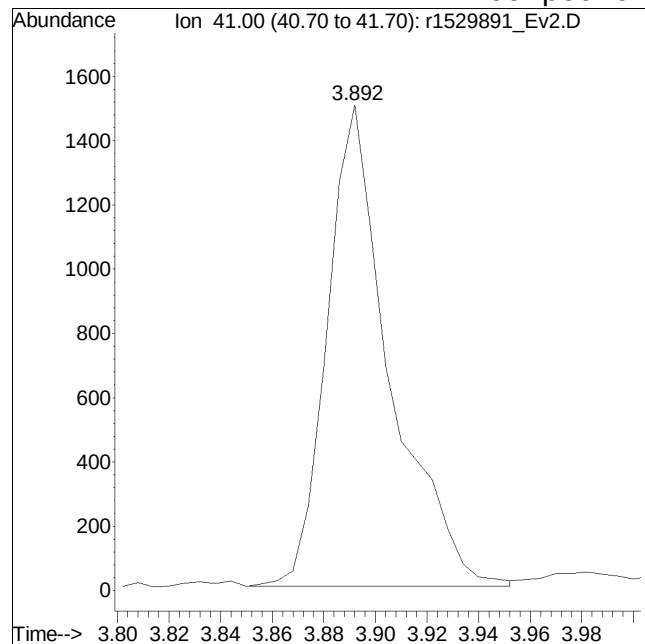
Quant Time: Dec 27 10:24:02 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:48:40 2021
Response via : Initial Calibration



Manual Integration Report

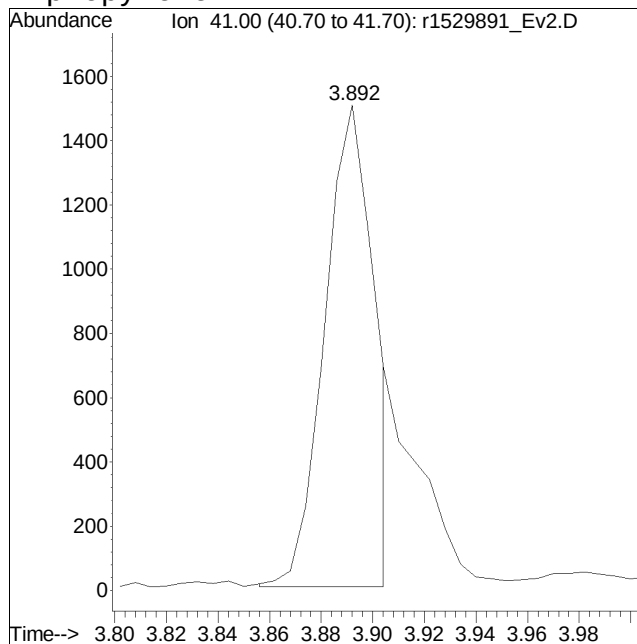
Data Path : 0:\Forensics\Data\AirLab15QMethod : TSIM15_211222.M
Data File : r1529891_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:6: 2 Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 12/22/2021 10:49 am

Compound #2: propylene



Original Peak Response = 2541

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

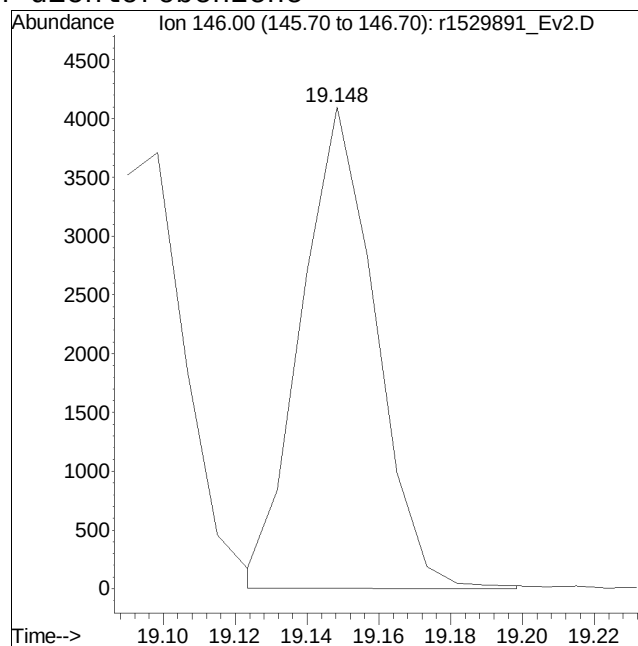
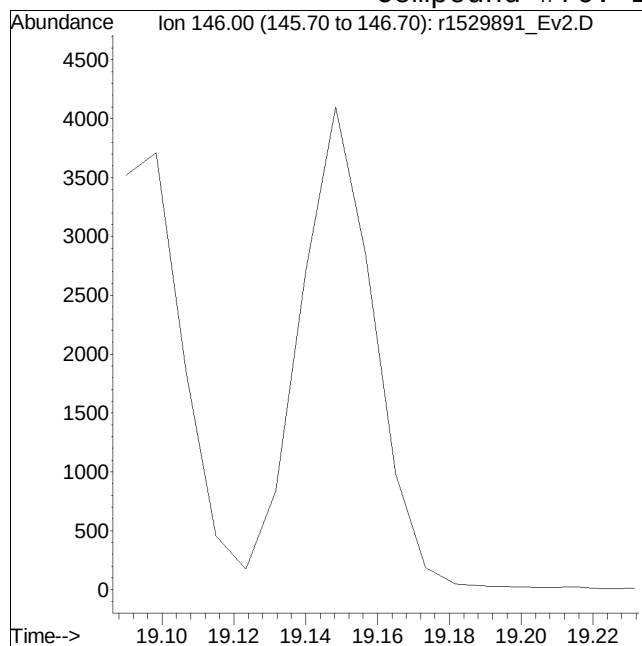


Manual Peak Response = 2007 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529891_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:6: 2 Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 12/22/2021 10:49 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response =

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Peak Response = 5874 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529892_Ev2.D
 Acq On : 22 Dec 2021 6:51 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.5
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:25:01 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.600	49	212802	10.000	ppbV	0.06
Standard Area = 213198			Recovery =		99.81%	
33) 1,4-difluorobenzene	11.877	114	511455	10.000	ppbV	0.05
Standard Area = 515322			Recovery =		99.25%	
51) chlorobenzene-D5	16.583	54	118025	10.000	ppbV	0.04
Standard Area = 119198			Recovery =		99.02%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.492	65	142106	9.925	ppbV	0.06
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.25%	
53) toluene-D8	14.717	98	460640	9.748	ppbV	0.05
Spiked Amount 10.000	Range 70 - 130		Recovery =		97.48%	
67) bromofluorobenzene	17.925	95	322167	9.194	ppbV	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery =		91.94%	
Target Compounds						
					Qvalue	
2) propylene	3.892	41	4425M6	0.550	ppbV	
3) dichlorodifluoromethane	3.976	85	8922	0.540	ppbV	98
4) chloromethane	4.156	50	4258	0.544	ppbV	97
5) Freon-114	4.288	85	10717	0.549	ppbV	98
6) vinyl chloride	4.420	62	5683	0.541	ppbV	99
7) 1,3-butadiene	4.588	54	4278	0.560	ppbV #	72
8) bromomethane	4.906	94	4276	0.540	ppbV	99
9) chloroethane	5.128	64	2804	0.546	ppbV	94
10) ethanol	5.302	31	25422	2.881	ppbV	99
11) vinyl bromide	5.567	106	3601	0.550	ppbV	94
12) acrolein	5.723	56	2338	0.549	ppbV	95
13) acetone	5.887	43	31521	2.840	ppbV	93
14) trichlorofluoromethane	6.090	101	7964	0.538	ppbV	98
15) isopropyl alcohol	6.213	45	16037	1.344	ppbV #	97
16) acrylonitrile	6.470	53	4109	0.559	ppbV	98
17) 1,1-dichloroethene	6.864	61	7848	0.539	ppbV	99
18) tertiary butyl alcohol	6.954	59	9058	0.549	ppbV	94
19) methylene chloride	7.032	49	5624	0.566	ppbV	95
20) 3-chloropropene	7.176	41	6214	0.535	ppbV #	93
21) carbon disulfide	7.332	76	9779	0.496	ppbV #	64
22) Freon 113	7.368	101	8105	0.543	ppbV	95
23) trans-1,2-dichloroethene	8.167	61	8275	0.547	ppbV	99
24) 1,1-dichloroethane	8.408	63	9714	0.532	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529892_Ev2.D
 Acq On : 22 Dec 2021 6:51 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.5
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:25:01 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.500	73	11385	0.540	ppbV	99
26) vinyl acetate	8.625	43	9240	0.517	ppbV	98
27) 2-butanone	8.900	43	11004	0.542	ppbV	98
28) cis-1,2-dichloroethene	9.408	61	7550	0.518	ppbV	95
29) Ethyl Acetate	9.717	61	1919	0.519	ppbV	88
30) chloroform	9.767	83	9633	0.535	ppbV	96
31) Tetrahydrofuran	10.225	42	6476	0.512	ppbV	96
32) 1,2-dichloroethane	10.617	62	6577	0.531	ppbV	99
34) hexane	9.675	57	11078	0.544	ppbV	85
36) 1,1,1-trichloroethane	10.910	97	7238	0.513	ppbV	98
37) benzene	11.437	78	19375	0.579	ppbV	100
38) carbon tetrachloride	11.617	117	6360	0.484	ppbV	96
39) cyclohexane	11.757	56	11726	0.531	ppbV	92
40) Dibromomethane	12.363	93	5774	0.553	ppbV #	93
41) 1,2-dichloropropane	12.397	63	6784	0.536	ppbV	96
42) bromodichloromethane	12.623	83	9209	0.508	ppbV	99
43) 1,4-dioxane	12.683	88	3975	0.502	ppbV	99
44) trichloroethene	12.677	130	7043	0.524	ppbV	92
45) 2,2,4-trimethylpentane	12.723	57	37504	0.554	ppbV	99
46) heptane	13.043	43	11745	0.527	ppbV	96
47) cis-1,3-dichloropropene	14.308	75	5976	0.444	ppbV	93
48) 4-methyl-2-pentanone	13.733	43	12361	0.495	ppbV	99
49) trans-1,3-dichloropropene	13.692	75	6707	0.461	ppbV	91
50) 1,1,2-trichloroethane	14.517	97	6109	0.519	ppbV	94
52) toluene	14.825	91	23196	0.576	ppbV	99
54) 2-hexanone	15.108	43	11720	0.504	ppbV	100
55) dibromochloromethane	15.267	129	7459	0.457	ppbV	96
56) 1,2-dibromoethane	15.517	107	8441	0.496	ppbV	94
57) tetrachloroethene	15.983	166	7422	0.520	ppbV	99
58) 1,1,1,2-tetrachloroethane	16.608	131	6355	0.494	ppbV	98
59) chlorobenzene	16.625	112	15466	0.523	ppbV	96
60) ethylbenzene	16.967	91	25246	0.496	ppbV	96
61) m+p-xylene	17.125	91	42435	1.009	ppbV	99
62) bromoform	17.192	173	5455	0.440	ppbV	98
63) styrene	17.442	104	14135	0.485	ppbV	95
64) 1,1,2,2-tetrachloroethane	17.533	83	16006	0.508	ppbV	99
65) o-xylene	17.533	91	21263	0.502	ppbV	100
66) 1,2,3-Trichloropropane	17.642	75	11856	0.541	ppbV	94
68) isopropylbenzene	18.033	105	25628	0.529	ppbV	98
69) Bromobenzene	18.108	77	15429	0.536	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529892_Ev2.D
 Acq On : 22 Dec 2021 6:51 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD0.5
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:25:01 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

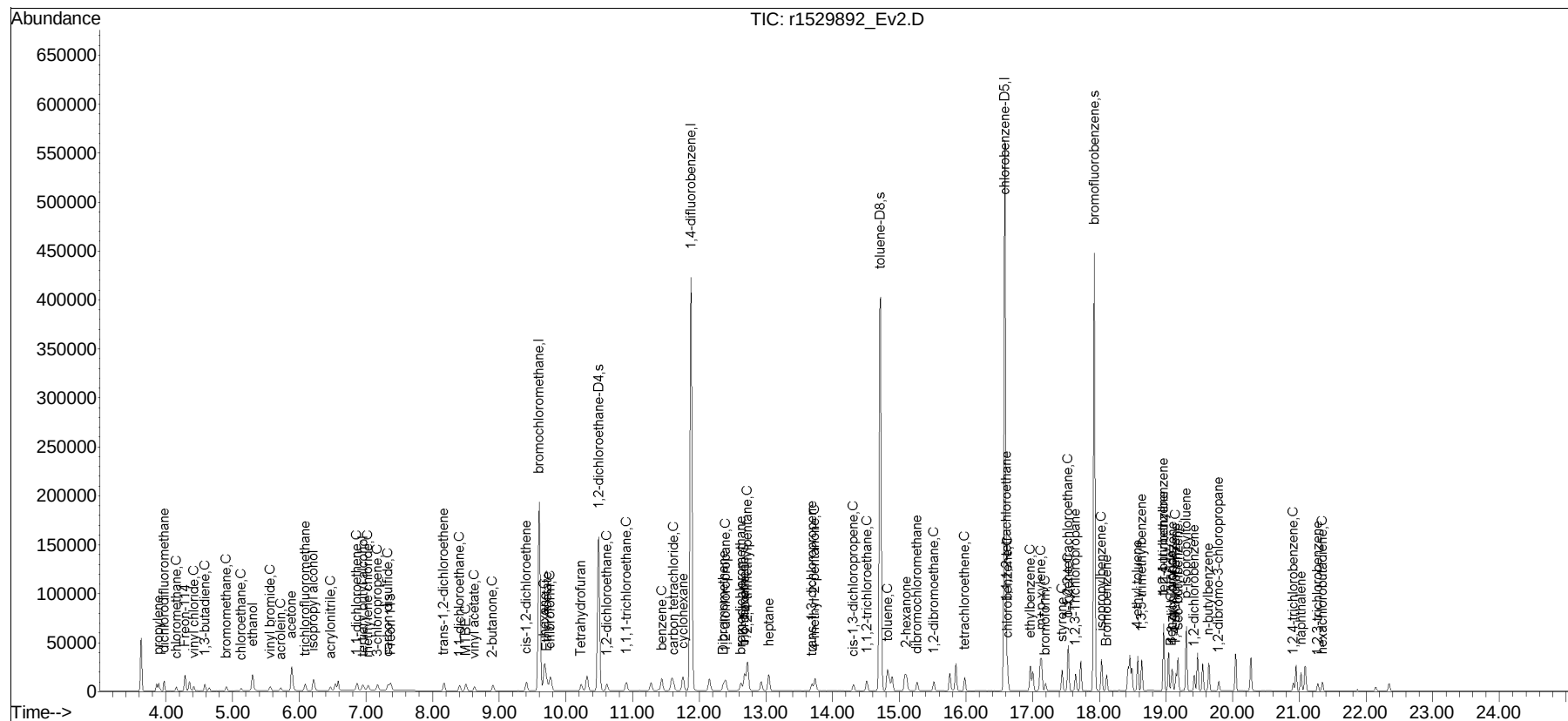
CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.575	105	26340	0.519	ppbV	98
71) 1,3,5-trimethylbenzene	18.633	105	22325	0.501	ppbV	99
72) tert-butylbenzene	18.965	119	26772	0.519	ppbV	93
73) 1,2,4-trimethylbenzene	18.965	105	22104	0.503	ppbV	96
74) Benzyl Chloride	19.082	91	10578	0.435	ppbV	98
75) 1,3-dichlorobenzene	19.098	146	14532	0.503	ppbV	98
76) 1,4-dichlorobenzene	19.148	146	14246M6	0.495	ppbV	
77) sec-butylbenzene	19.182	105	32330	0.517	ppbV	98
78) p-isopropyltoluene	19.307	119	32073	0.508	ppbV	95
79) 1,2-dichlorobenzene	19.423	146	13542	0.496	ppbV	91
80) n-butylbenzene	19.640	91	27947	0.493	ppbV	96
81) 1,2-dibromo-3-chloropr...	19.790	75	5216	0.442	ppbV	98
82) 1,2,4-trichlorobenzene	20.908	180	8251	0.404	ppbV #	92
83) naphthalene	21.025	128	28297	0.436	ppbV	100
84) 1,2,3-trichlorobenzene	21.275	180	8162	0.410	ppbV #	93
85) hexachlorobutadiene	21.350	225	7759	0.440	ppbV	99

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

```
Data Path   : 0:\Forensics\Data\AirLab15\2021\12\1222SIM_I\
Data File  : r1529892_Ev2.D
Acq On     : 22 Dec 2021   6:51 AM
Operator   : AIRLAB15:TS
Sample     : IT015-SIMSTD0.5
Misc       : WG1587796
ALS Vial   : 0    Sample Multiplier: 1
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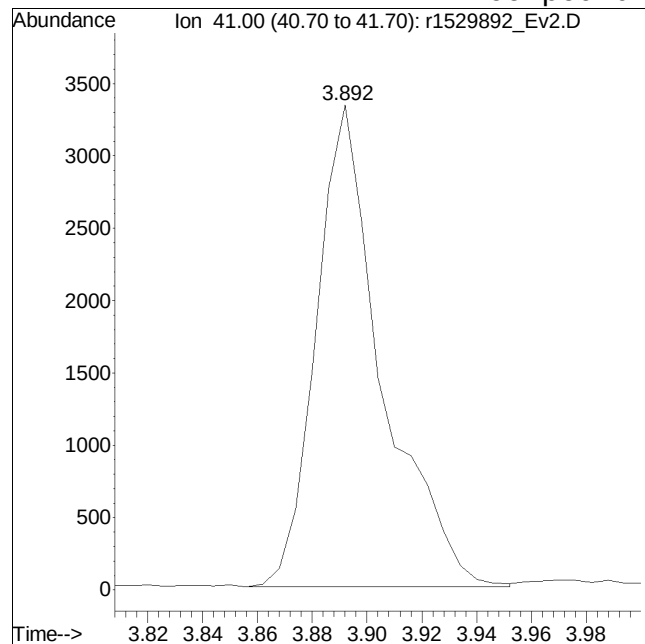
Quant Time: Dec 27 10:25:01 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:48:40 2021
Response via : Initial Calibration



Manual Integration Report

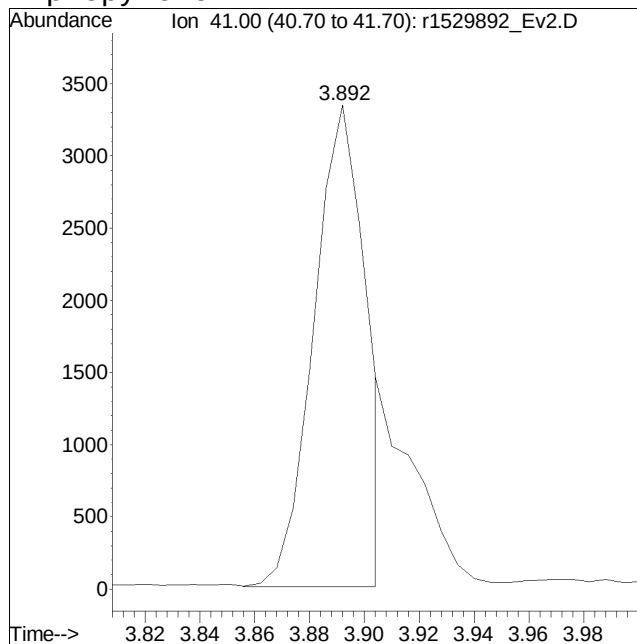
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529892_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:6: 1 Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 12/22/2021 10:49 am

Compound #2: propylene



Original Peak Response = 5565

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

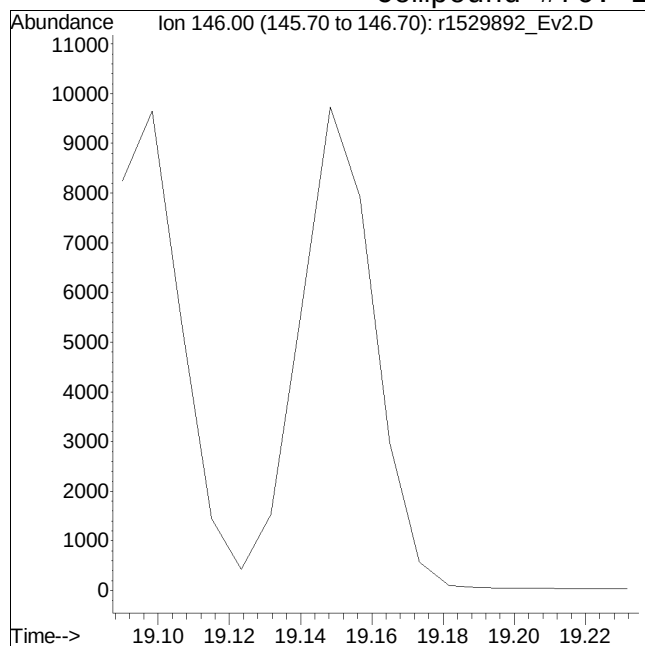


Manual Peak Response = 4425 M6

Manual Integration Report

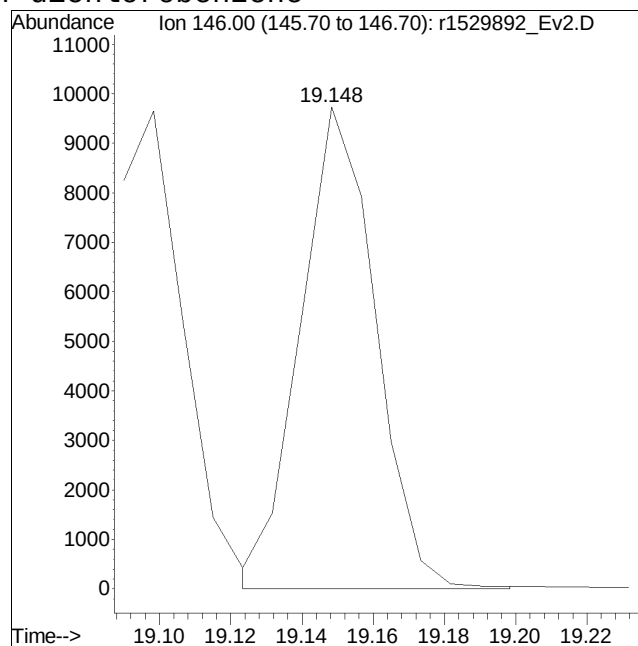
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529892_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:6: 1 Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 12/22/2021 10:49 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response =

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 14246 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529893_Ev2.D
 Acq On : 22 Dec 2021 7:32 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD1.0
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:25:57 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.600	49	213061	10.000	ppbV	0.06
Standard Area = 213198			Recovery =	99.94%		
33) 1,4-difluorobenzene	11.877	114	511519	10.000	ppbV	0.05
Standard Area = 515322			Recovery =	99.26%		
51) chlorobenzene-D5	16.583	54	118053	10.000	ppbV	0.04
Standard Area = 119198			Recovery =	99.04%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.492	65	143904	10.050	ppbV	0.06
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.50%		
53) toluene-D8	14.717	98	471699	9.980	ppbV	0.05
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.80%		
67) bromofluorobenzene	17.925	95	343978	9.814	ppbV	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.14%		
Target Compounds						
					Qvalue	
2) propylene	3.892	41	9037M6	1.121	ppbV	
3) dichlorodifluoromethane	3.976	85	17556	1.062	ppbV	100
4) chloromethane	4.156	50	8347	1.065	ppbV	97
5) Freon-114	4.288	85	20703	1.059	ppbV	98
6) vinyl chloride	4.420	62	11018	1.048	ppbV	98
7) 1,3-butadiene	4.588	54	8382	1.097	ppbV #	73
8) bromomethane	4.912	94	8335	1.052	ppbV	97
9) chloroethane	5.134	64	5501	1.069	ppbV	96
10) ethanol	5.302	31	48914	5.537	ppbV	100
11) vinyl bromide	5.567	106	7042	1.074	ppbV	95
12) acrolein	5.723	56	4493	1.054	ppbV	97
13) acetone	5.887	43	60713	5.463	ppbV	90
14) trichlorofluoromethane	6.093	101	15404	1.039	ppbV	100
15) isopropyl alcohol	6.213	45	31503	2.638	ppbV	97
16) acrylonitrile	6.470	53	7973	1.084	ppbV	95
17) 1,1-dichloroethene	6.870	61	15132	1.038	ppbV	98
18) tertiary butyl alcohol	6.948	59	17656	1.068	ppbV	95
19) methylene chloride	7.038	49	10686	1.075	ppbV	90
20) 3-chloropropene	7.176	41	12230	1.052	ppbV	95
21) carbon disulfide	7.332	76	19659	0.996	ppbV #	90
22) Freon 113	7.368	101	15514	1.039	ppbV	98
23) trans-1,2-dichloroethene	8.175	61	16196	1.069	ppbV	96
24) 1,1-dichloroethane	8.408	63	18795	1.029	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529893_Ev2.D
 Acq On : 22 Dec 2021 7:32 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD1.0
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:25:57 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.500	73	22636	1.073	ppbV	99
26) vinyl acetate	8.633	43	18242	1.019	ppbV	96
27) 2-butanone	8.900	43	21580	1.062	ppbV	98
28) cis-1,2-dichloroethene	9.408	61	14895	1.020	ppbV	96
29) Ethyl Acetate	9.717	61	3859	1.043	ppbV	95
30) chloroform	9.767	83	18817	1.045	ppbV	97
31) Tetrahydrofuran	10.225	42	13066	1.033	ppbV	94
32) 1,2-dichloroethane	10.617	62	12886	1.039	ppbV	99
34) hexane	9.675	57	21766	1.069	ppbV	87
36) 1,1,1-trichloroethane	10.910	97	14363	1.018	ppbV	99
37) benzene	11.437	78	36508	1.091	ppbV	99
38) carbon tetrachloride	11.617	117	12917	0.984	ppbV	97
39) cyclohexane	11.757	56	23566	1.068	ppbV	93
40) Dibromomethane	12.363	93	11352	1.087	ppbV #	97
41) 1,2-dichloropropane	12.397	63	13100	1.035	ppbV	99
42) bromodichloromethane	12.630	83	18205	1.004	ppbV	99
43) 1,4-dioxane	12.683	88	8052	1.017	ppbV	95
44) trichloroethene	12.677	130	13710	1.019	ppbV	93
45) 2,2,4-trimethylpentane	12.723	57	74334	1.097	ppbV	98
46) heptane	13.043	43	23866	1.070	ppbV	96
47) cis-1,3-dichloropropene	14.317	75	12260	0.910	ppbV	91
48) 4-methyl-2-pentanone	13.733	43	25277	1.013	ppbV	100
49) trans-1,3-dichloropropene	13.692	75	13556	0.931	ppbV	92
50) 1,1,2-trichloroethane	14.517	97	12217	1.039	ppbV	94
52) toluene	14.825	91	43438	1.078	ppbV	100
54) 2-hexanone	15.108	43	23791	1.022	ppbV	98
55) dibromochloromethane	15.267	129	15689	0.961	ppbV	99
56) 1,2-dibromoethane	15.517	107	17025	1.000	ppbV	95
57) tetrachloroethene	15.983	166	14717	1.030	ppbV	99
58) 1,1,1,2-tetrachloroethane	16.608	131	12985	1.010	ppbV	99
59) chlorobenzene	16.625	112	30877	1.043	ppbV	97
60) ethylbenzene	16.967	91	50729	0.996	ppbV	98
61) m+p-xylene	17.125	91	84939	2.018	ppbV	99
62) bromoform	17.200	173	11354	0.915	ppbV	100
63) styrene	17.442	104	28453	0.975	ppbV	94
64) 1,1,2,2-tetrachloroethane	17.533	83	31937	1.014	ppbV	100
65) o-xylene	17.533	91	42373	0.999	ppbV	100
66) 1,2,3-Trichloropropane	17.642	75	23407	1.068	ppbV	94
68) isopropylbenzene	18.033	105	50867	1.049	ppbV	98
69) Bromobenzene	18.108	77	30697	1.066	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529893_Ev2.D
 Acq On : 22 Dec 2021 7:32 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD1.0
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:25:57 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

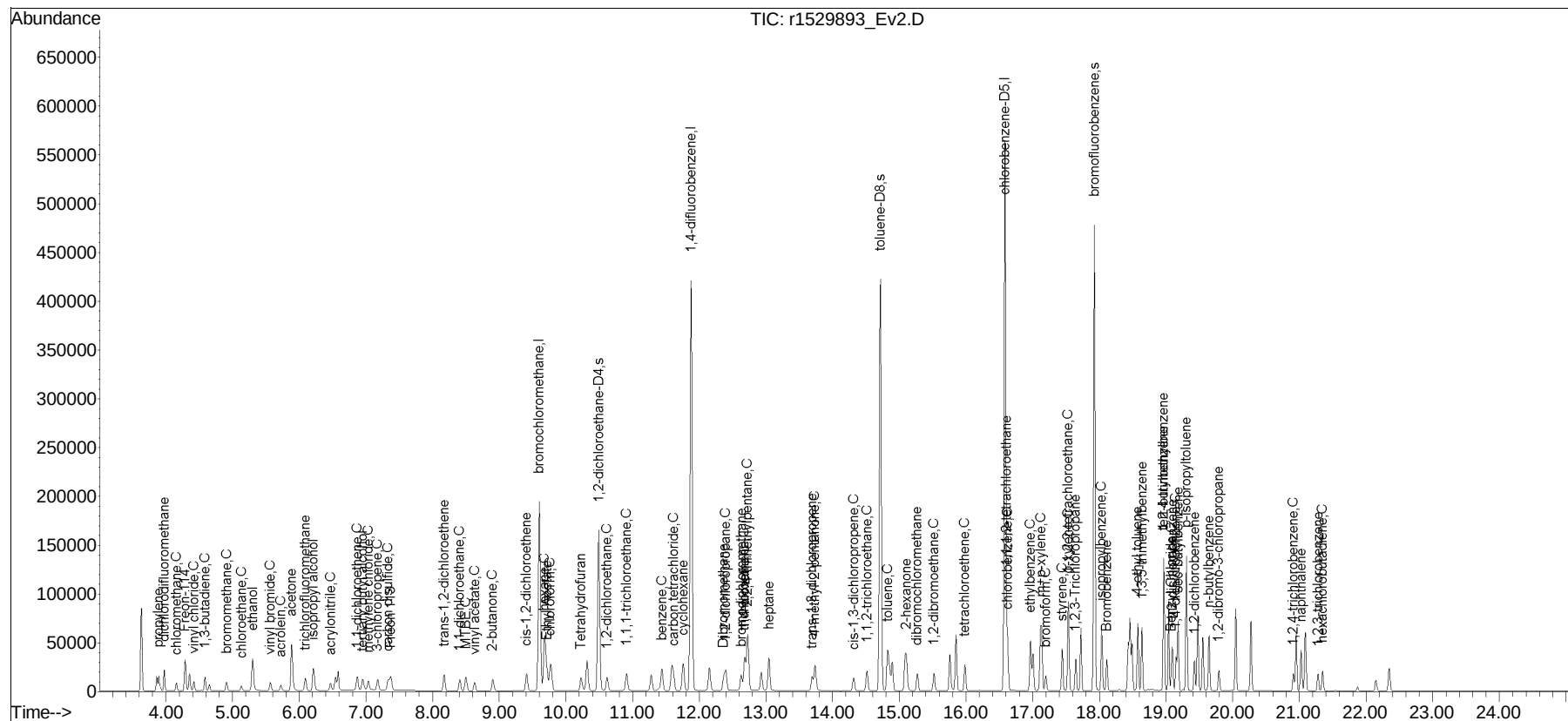
CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.575	105	53361	1.051	ppbV	99
71) 1,3,5-trimethylbenzene	18.642	105	45035	1.009	ppbV	96
72) tert-butylbenzene	18.965	119	54121	1.048	ppbV	93
73) 1,2,4-trimethylbenzene	18.965	105	44335	1.009	ppbV	94
74) Benzyl Chloride	19.082	91	21982	0.904	ppbV	97
75) 1,3-dichlorobenzene	19.098	146	29128	1.007	ppbV	99
76) 1,4-dichlorobenzene	19.148	146	28927M6	1.004	ppbV	
77) sec-butylbenzene	19.182	105	65177	1.041	ppbV	99
78) p-isopropyltoluene	19.307	119	64949	1.028	ppbV	95
79) 1,2-dichlorobenzene	19.432	146	27287	0.999	ppbV	98
80) n-butylbenzene	19.648	91	57448	1.013	ppbV	96
81) 1,2-dibromo-3-chloropr...	19.790	75	11108	0.941	ppbV	97
82) 1,2,4-trichlorobenzene	20.908	180	18131	0.888	ppbV #	91
83) naphthalene	21.025	128	62482	0.963	ppbV	100
84) 1,2,3-trichlorobenzene	21.283	180	18493	0.928	ppbV	96
85) hexachlorobutadiene	21.350	225	16723	0.948	ppbV	98

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


```
Data Path   : 0:\Forensics\Data\AirLab15\2021\12\1222SIM_I\
Data File  : r1529893_Ev2.D
Acq On     : 22 Dec 2021   7:32 AM
Operator   : AIRLAB15:TS
Sample     : IT015-SIMSTD1.0
Misc       : WG1587796
ALS Vial   : 0    Sample Multiplier: 1
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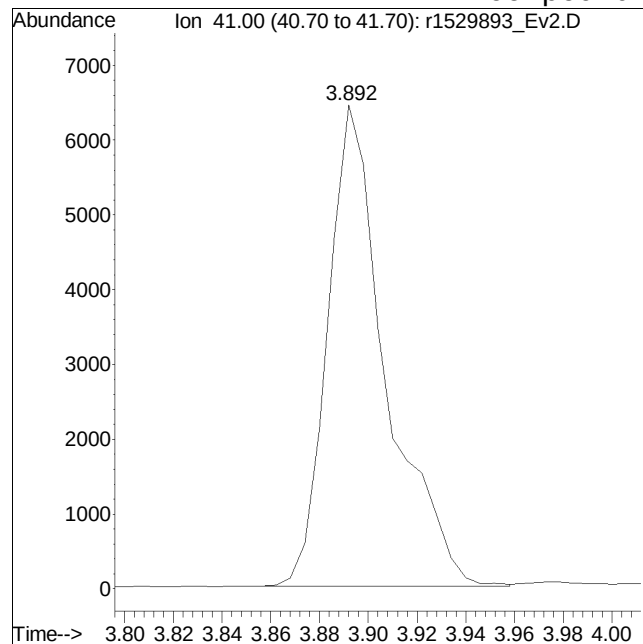
Quant Time: Dec 27 10:25:57 2021
Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:48:40 2021
Response via : Initial Calibration



Manual Integration Report

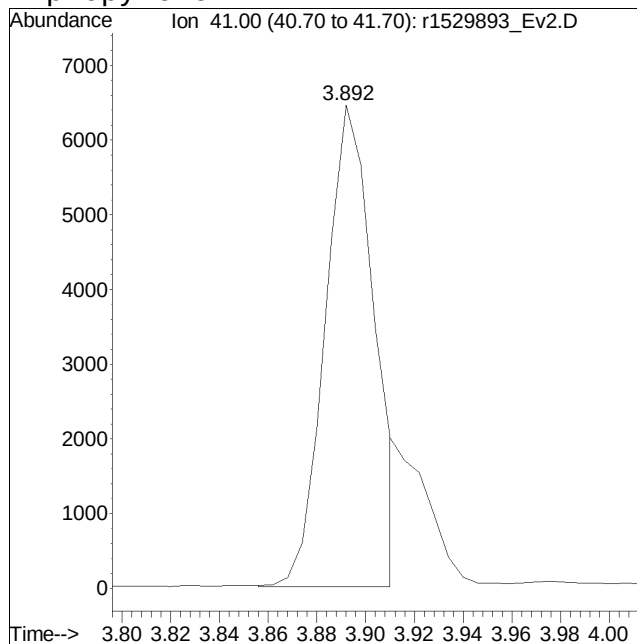
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529893_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:7: 2 Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 12/22/2021 10:49 am

Compound #2: propylene



Original Peak Response = 10700

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

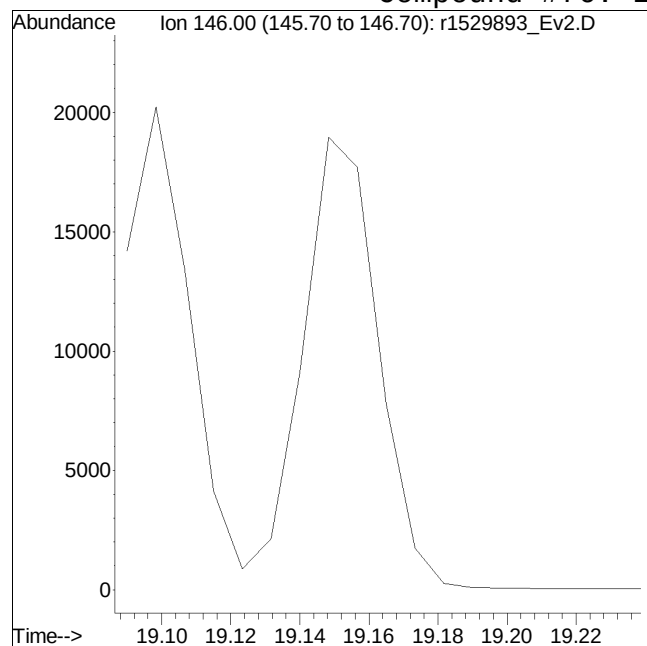


Manual Peak Response = 9037 M6

Manual Integration Report

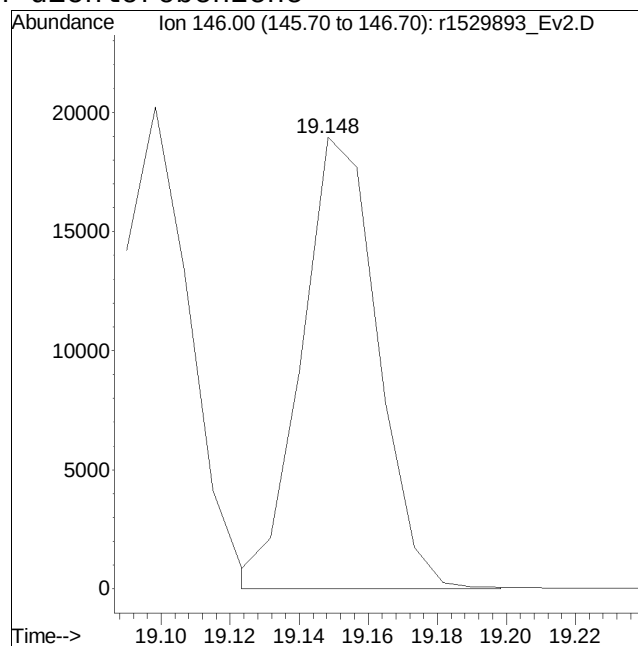
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529893_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:7: 2 Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 12/22/2021 10:49 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response =

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 28927 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529894_Ev2.D
 Acq On : 22 Dec 2021 8:11 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD5.0
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 11:47:56 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Dec 11 07:57:56 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.600	49	213198	10.000	ppbV	0.06
Standard Area = 213198			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.883	114	515322	10.000	ppbV	0.06
Standard Area = 515322			Recovery = 100.00%			
51) chlorobenzene-D5	16.583	54	119198	10.000	ppbV	0.04
Standard Area = 119198			Recovery = 100.00%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.492	65	144258	11.678	ppbV	0.06
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.78%			
53) toluene-D8	14.717	98	477231	8.997	ppbV	0.05
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.97%			
67) bromofluorobenzene	17.925	95	353889	9.873	ppbV	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.73%			
Target Compounds						
					Qvalue	
2) propylene	3.892	41	40334M6	5.287	ppbV	
3) dichlorodifluoromethane	3.976	85	82694	6.455	ppbV	99
4) chloromethane	4.162	50	39226	4.508	ppbV	97
5) Freon-114	4.288	85	97813	5.310	ppbV	100
6) vinyl chloride	4.420	62	52607	5.898	ppbV	97
7) 1,3-butadiene	4.588	54	38234	4.703	ppbV #	75
8) bromomethane	4.912	94	39649	5.701	ppbV	98
9) chloroethane	5.134	64	25735	6.318	ppbV	99
10) ethanol	5.302	31	220983	24.525	ppbV	99
11) vinyl bromide	5.570	106	32803	5.482	ppbV	93
12) acrolein	5.723	56	21325	4.788	ppbV	95
13) acetone	5.880	43	278034	27.481	ppbV	91
14) trichlorofluoromethane	6.097	101	74212	8.121	ppbV	99
15) isopropyl alcohol	6.210	45	149378	10.890	ppbV	98
16) acrylonitrile	6.470	53	36796	4.508	ppbV	96
17) 1,1-dichloroethene	6.870	61	72925	6.495	ppbV	99
18) tertiary butyl alcohol	6.942	59	82693	5.732	ppbV	95
19) methylene chloride	7.038	49	49739	4.397	ppbV	93
20) 3-chloropropene	7.176	41	58160	4.790	ppbV	96
21) carbon disulfide	7.338	76	98707	4.406	ppbV #	88
22) Freon 113	7.374	101	74715	6.230	ppbV	97
23) trans-1,2-dichloroethene	8.175	61	75832	6.479	ppbV	98
24) 1,1-dichloroethane	8.408	63	91414	6.531	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529894_Ev2.D
 Acq On : 22 Dec 2021 8:11 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD5.0
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 11:47:56 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Dec 11 07:57:56 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.500	73	105529	5.234	ppbV	97
26) vinyl acetate	8.633	43	89596	4.295	ppbV	96
27) 2-butanone	8.900	43	101651	4.598	ppbV	97
28) cis-1,2-dichloroethene	9.417	61	73027	6.995	ppbV	93
29) Ethyl Acetate	9.717	61	18515	6.283	ppbV	96
30) chloroform	9.767	83	90128	6.632	ppbV	97
31) Tetrahydrofuran	10.217	42	63313	4.757	ppbV	95
32) 1,2-dichloroethane	10.617	62	62065	7.498	ppbV	99
34) hexane	9.675	57	102563	5.438	ppbV	90
36) 1,1,1-trichloroethane	10.910	97	71094	5.889	ppbV	98
37) benzene	11.443	78	168520	4.028	ppbV	99
38) carbon tetrachloride	11.617	117	66135	5.721	ppbV	96
39) cyclohexane	11.763	56	111160	5.394	ppbV	92
40) Dibromomethane	12.370	93	52596	4.753	ppbV #	95
41) 1,2-dichloropropane	12.403	63	63725	4.989	ppbV	98
42) bromodichloromethane	12.630	83	91309	5.191	ppbV	98
43) 1,4-dioxane	12.677	88	39880	5.206	ppbV	94
44) trichloroethene	12.683	130	67742	5.529	ppbV	94
45) 2,2,4-trimethylpentane	12.730	57	341308M6	5.441	ppbV	
46) heptane	13.043	43	112341	3.916	ppbV	97
47) cis-1,3-dichloropropene	14.317	75	67837	4.390	ppbV	91
48) 4-methyl-2-pentanone	13.733	43	125731	3.748	ppbV	98
49) trans-1,3-dichloropropene	13.692	75	73356	4.268	ppbV	92
50) 1,1,2-trichloroethane	14.517	97	59257	4.965	ppbV	94
52) toluene	14.825	91	203430	4.388	ppbV	100
54) 2-hexanone	15.108	43	117513	3.272	ppbV	95
55) dibromochloromethane	15.275	129	82380	5.334	ppbV	99
56) 1,2-dibromoethane	15.525	107	85992	4.143	ppbV	94
57) tetrachloroethene	15.983	166	72139	4.940	ppbV	99
58) 1,1,1,2-tetrachloroethane	16.617	131	64933	5.003	ppbV	98
59) chlorobenzene	16.625	112	149465	4.365	ppbV	99
60) ethylbenzene	16.967	91	257226	4.931	ppbV	99
61) m+p-xylene	17.133	91	424910	10.205	ppbV	98
62) bromoform	17.200	173	62665	5.052	ppbV	99
63) styrene	17.442	104	147304	4.085	ppbV	95
64) 1,1,2,2-tetrachloroethane	17.533	83	158958	4.603	ppbV	100
65) o-xylene	17.533	91	214097	5.050	ppbV	99
66) 1,2,3-Trichloropropane	17.650	75	110639	3.775	ppbV	93
68) isopropylbenzene	18.033	105	244789	4.193	ppbV	99
69) Bromobenzene	18.108	77	145356	3.961	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529894_Ev2.D
 Acq On : 22 Dec 2021 8:11 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD5.0
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 22 11:47:56 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Sat Dec 11 07:57:56 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

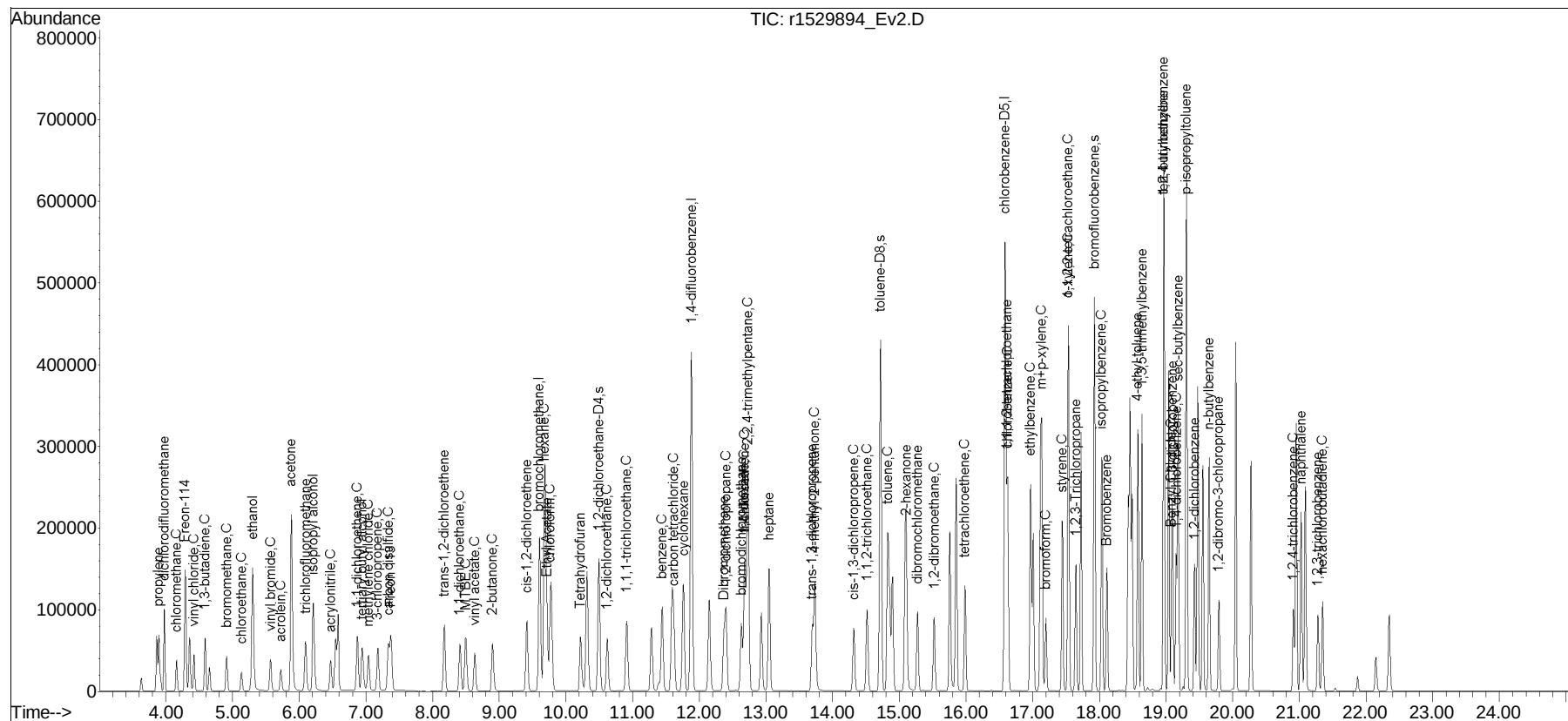
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.575	105	256361	4.147	ppbV	99
71) 1,3,5-trimethylbenzene	18.642	105	225227	4.395	ppbV	95
72) tert-butylbenzene	18.965	119	260675	5.318	ppbV	93
73) 1,2,4-trimethylbenzene	18.965	105	221889	4.277	ppbV	94
74) Benzyl Chloride	19.082	91	122789	4.403	ppbV	97
75) 1,3-dichlorobenzene	19.098	146	145985	4.442	ppbV	98
76) 1,4-dichlorobenzene	19.157	146	145429M3	4.517	ppbV	
77) sec-butylbenzene	19.182	105	316057	4.183	ppbV	98
78) p-isopropyltoluene	19.307	119	318842M3	5.397	ppbV	
79) 1,2-dichlorobenzene	19.432	146	137905	4.458	ppbV	99
80) n-butylbenzene	19.648	91	286322	5.063	ppbV	96
81) 1,2-dibromo-3-chloropr...	19.790	75	59577	4.216	ppbV	92
82) 1,2,4-trichlorobenzene	20.908	180	103126	5.064	ppbV	94
83) naphthalene	21.025	128	327518	5.151	ppbV	100
84) 1,2,3-trichlorobenzene	21.275	180	100624	5.059	ppbV	95
85) hexachlorobutadiene	21.350	225	89042	5.855	ppbV	98

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

Sub List : Default - All compounds listed1\12\1222SIM_I\r1529894_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2021\12\1222SIM_I\
Data File : r1529894_Ev2.D
Acq On : 22 Dec 2021 8:11 AM
Operator : AIRLAB15:TS
Sample : IT015-SIMSTD5.0
Misc : WG1587796
ALS Vial : 0 Sample Multiplier: 1

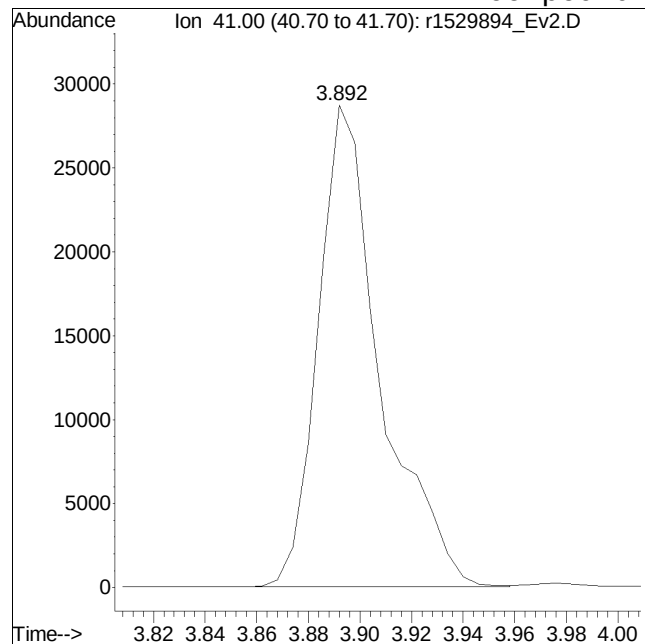
Quant Time: Dec 22 11:47:56 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222SIM_I\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Sat Dec 11 07:57:56 2021
Response via : Initial Calibration



Manual Integration Report

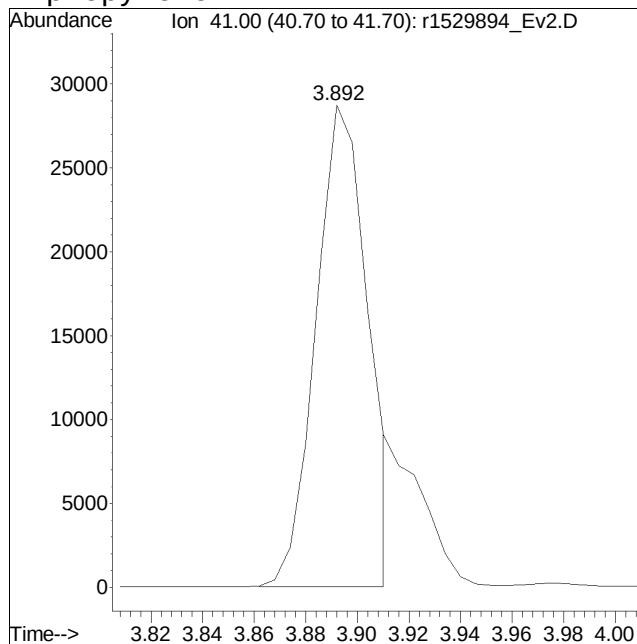
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Data File : r1529894_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 1 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 12/22/2021 10:46 am

Compound #2: propylene



Original Peak Response = 48003

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

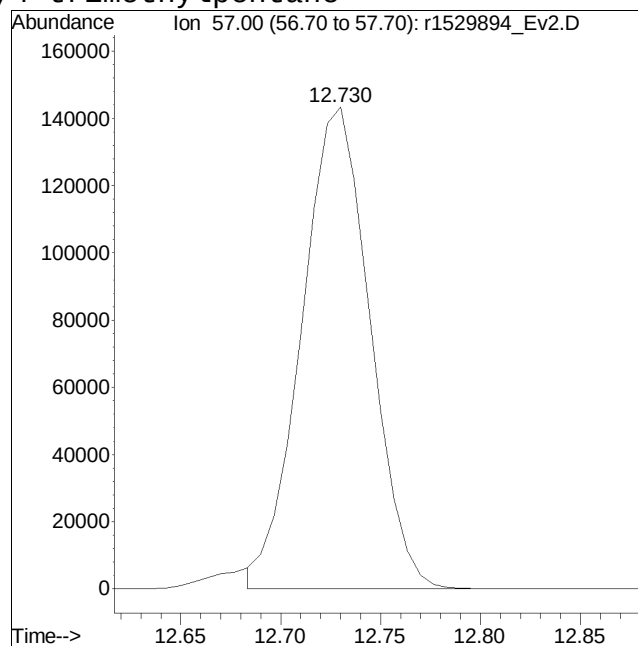
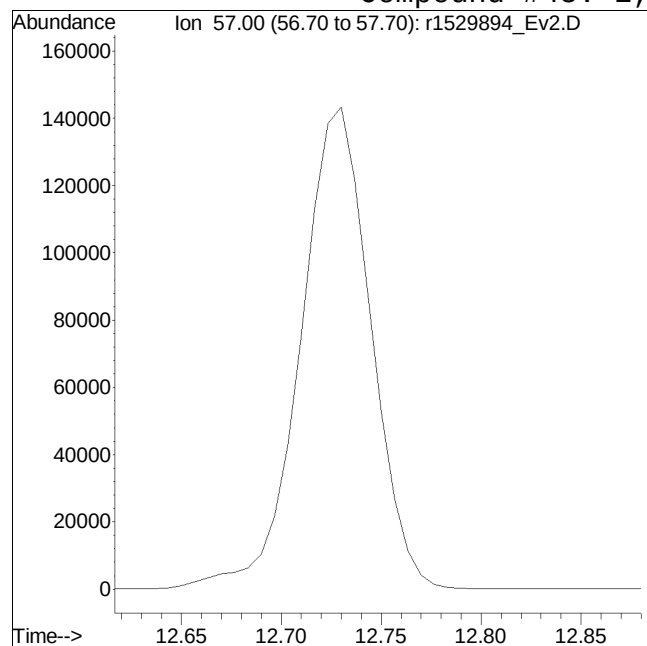


Manual Peak Response = 40334 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529894_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 1 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 12/22/2021 10:46 am

Compound #45: 2,2,4-trimethylpentane



Original Peak Response =

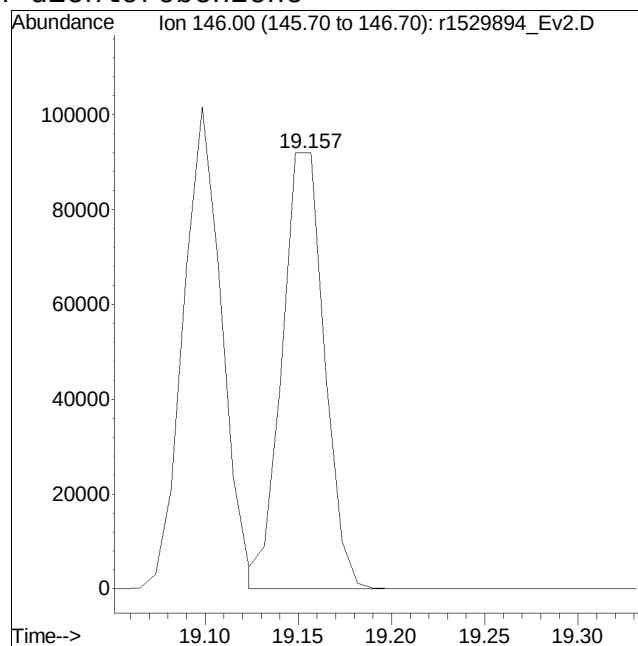
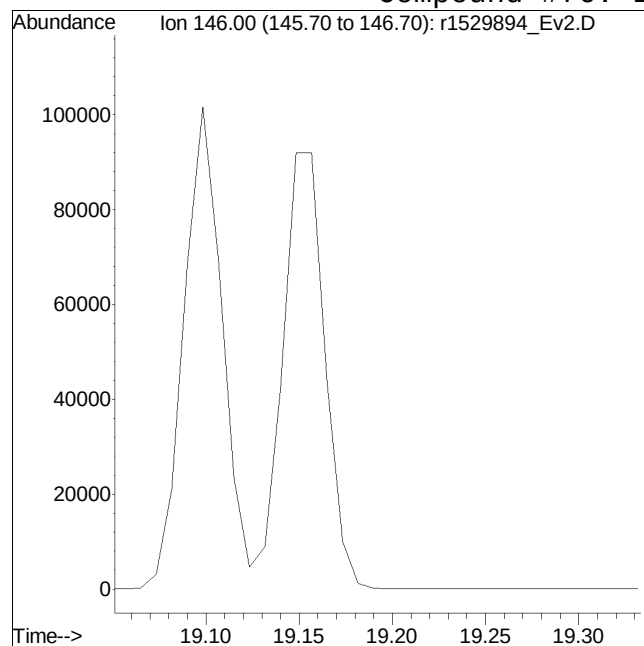
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Peak Response = 341308 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529894_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 1 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 12/22/2021 10:46 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response =

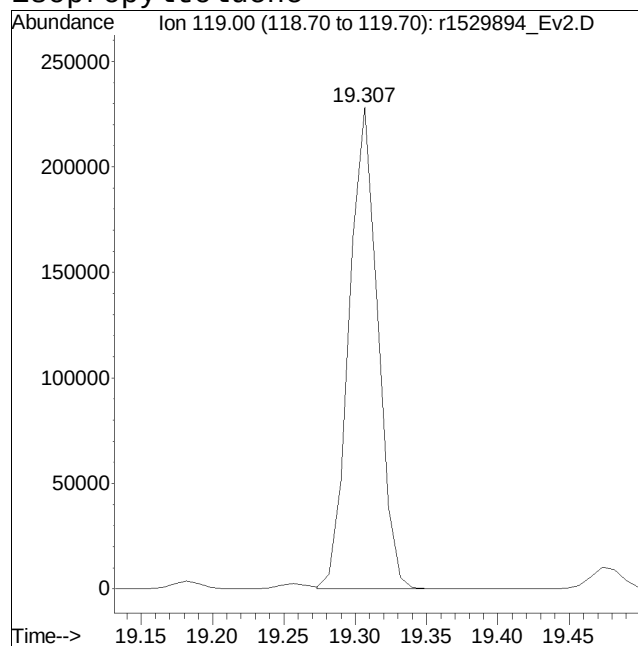
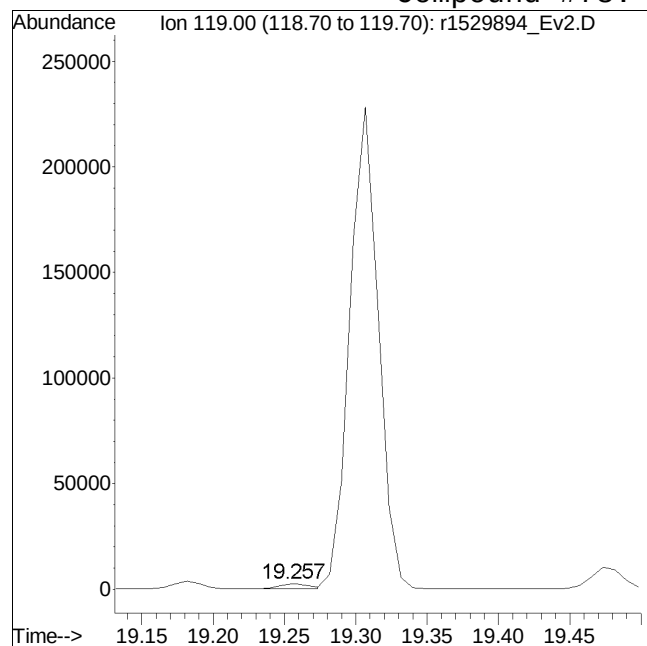
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Peak Response = 145429 M3

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529894_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 1 Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 12/22/2021 10:46 am

Compound #78: p-isopropyltoluene



Original Peak Response = 3795

Manual Peak Response = 318842 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529895_Ev2.D
 Acq On : 22 Dec 2021 8:52 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD010
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:27:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.608	49	216615	10.000	ppbV	0.07
Standard Area = 213198			Recovery =	101.60%		
33) 1,4-difluorobenzene	11.883	114	516326	10.000	ppbV	0.06
Standard Area = 515322			Recovery =	100.19%		
51) chlorobenzene-D5	16.583	54	120682	10.000	ppbV	0.04
Standard Area = 119198			Recovery =	101.24%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.492	65	144320	9.985	ppbV	0.06
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.85%		
53) toluene-D8	14.717	98	481292	9.961	ppbV	0.05
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.61%		
67) bromofluorobenzene	17.925	95	358271	9.999	ppbV	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.99%		
Target Compounds					Qvalue	
2) propylene	3.892	41	79178M6	9.660	ppbV	
3) dichlorodifluoromethane	3.976	85	152011	9.046	ppbV	99
4) chloromethane	4.162	50	74807	9.385	ppbV	98
5) Freon-114	4.288	85	185579	9.337	ppbV	100
6) vinyl chloride	4.426	62	102129	9.554	ppbV	99
7) 1,3-butadiene	4.588	54	73757	9.493	ppbV	79
8) bromomethane	4.912	94	76913	9.546	ppbV	99
9) chloroethane	5.134	64	50726	9.700	ppbV	98
10) ethanol	5.302	31	433319	48.248	ppbV	99
11) vinyl bromide	5.570	106	66104	9.917	ppbV	96
12) acrolein	5.723	56	42148	9.726	ppbV	96
13) acetone	5.880	43	548504	48.542	ppbV	91
14) trichlorofluoromethane	6.093	101	146904	9.741	ppbV	98
15) isopropyl alcohol	6.207	45	302751	24.935	ppbV	98
16) acrylonitrile	6.470	53	73442	9.822	ppbV	96
17) 1,1-dichloroethene	6.870	61	144331	9.740	ppbV	99
18) tertiary butyl alcohol	6.942	59	166057	9.882	ppbV	96
19) methylene chloride	7.038	49	97973	9.693	ppbV	94
20) 3-chloropropene	7.182	41	118355	10.014	ppbV	96
21) carbon disulfide	7.338	76	205356	10.238	ppbV #	85
22) Freon 113	7.374	101	147189	9.695	ppbV	96
23) trans-1,2-dichloroethene	8.175	61	151845	9.854	ppbV	99
24) 1,1-dichloroethane	8.408	63	182580	9.829	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529895_Ev2.D
 Acq On : 22 Dec 2021 8:52 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD010
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:27:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.492	73	212481	9.909	ppbV	98
26) vinyl acetate	8.633	43	191481	10.517	ppbV	97
27) 2-butanone	8.900	43	204790	9.914	ppbV	96
28) cis-1,2-dichloroethene	9.417	61	146800	9.893	ppbV	94
29) Ethyl Acetate	9.717	61	37181	9.882	ppbV	95
30) chloroform	9.775	83	179513	9.802	ppbV	96
31) Tetrahydrofuran	10.217	42	128761	10.008	ppbV	93
32) 1,2-dichloroethane	10.625	62	134761	10.685	ppbV	99
34) hexane	9.675	57	205282	9.988	ppbV	88
36) 1,1,1-trichloroethane	10.910	97	144223	10.123	ppbV	97
37) benzene	11.443	78	334812	9.915	ppbV	99
38) carbon tetrachloride	11.617	117	134793	10.171	ppbV	97
39) cyclohexane	11.763	56	222923	10.008	ppbV	92
40) Dibromomethane	12.370	93	104380	9.904	ppbV #	93
41) 1,2-dichloropropane	12.403	63	126920	9.939	ppbV	98
42) bromodichloromethane	12.630	83	185598	10.143	ppbV	98
43) 1,4-dioxane	12.670	88	80224	10.039	ppbV	96
44) trichloroethene	12.683	130	134750	9.926	ppbV	94
45) 2,2,4-trimethylpentane	12.730	57	680097M6	9.944	ppbV	
46) heptane	13.050	43	222070	9.865	ppbV	94
47) cis-1,3-dichloropropene	14.317	75	142387	10.474	ppbV	91
48) 4-methyl-2-pentanone	13.733	43	253801	10.073	ppbV	97
49) trans-1,3-dichloropropene	13.700	75	152991	10.408	ppbV	90
50) 1,1,2-trichloroethane	14.517	97	118561	9.985	ppbV	94
52) toluene	14.825	91	406979	9.880	ppbV	100
54) 2-hexanone	15.108	43	239013	10.045	ppbV	94
55) dibromochloromethane	15.275	129	170363	10.213	ppbV	98
56) 1,2-dibromoethane	15.525	107	171008	9.821	ppbV	94
57) tetrachloroethene	15.992	166	144824	9.914	ppbV	97
58) 1,1,1,2-tetrachloroethane	16.617	131	133474	10.151	ppbV	98
59) chlorobenzene	16.633	112	300420	9.926	ppbV	94
60) ethylbenzene	16.967	91	519211	9.968	ppbV	99
61) m+p-xylene	17.133	91	847899	19.709	ppbV	99
62) bromoform	17.200	173	133472	10.519	ppbV	99
63) styrene	17.450	104	300222	10.065	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.533	83	318166	9.885	ppbV	100
65) o-xylene	17.542	91	428911	9.894	ppbV	98
66) 1,2,3-Trichloropropane	17.650	75	220443	9.840	ppbV	93
68) isopropylbenzene	18.042	105	485486	9.794	ppbV	95
69) Bromobenzene	18.117	77	289017	9.819	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529895_Ev2.D
 Acq On : 22 Dec 2021 8:52 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD010
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:27:51 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

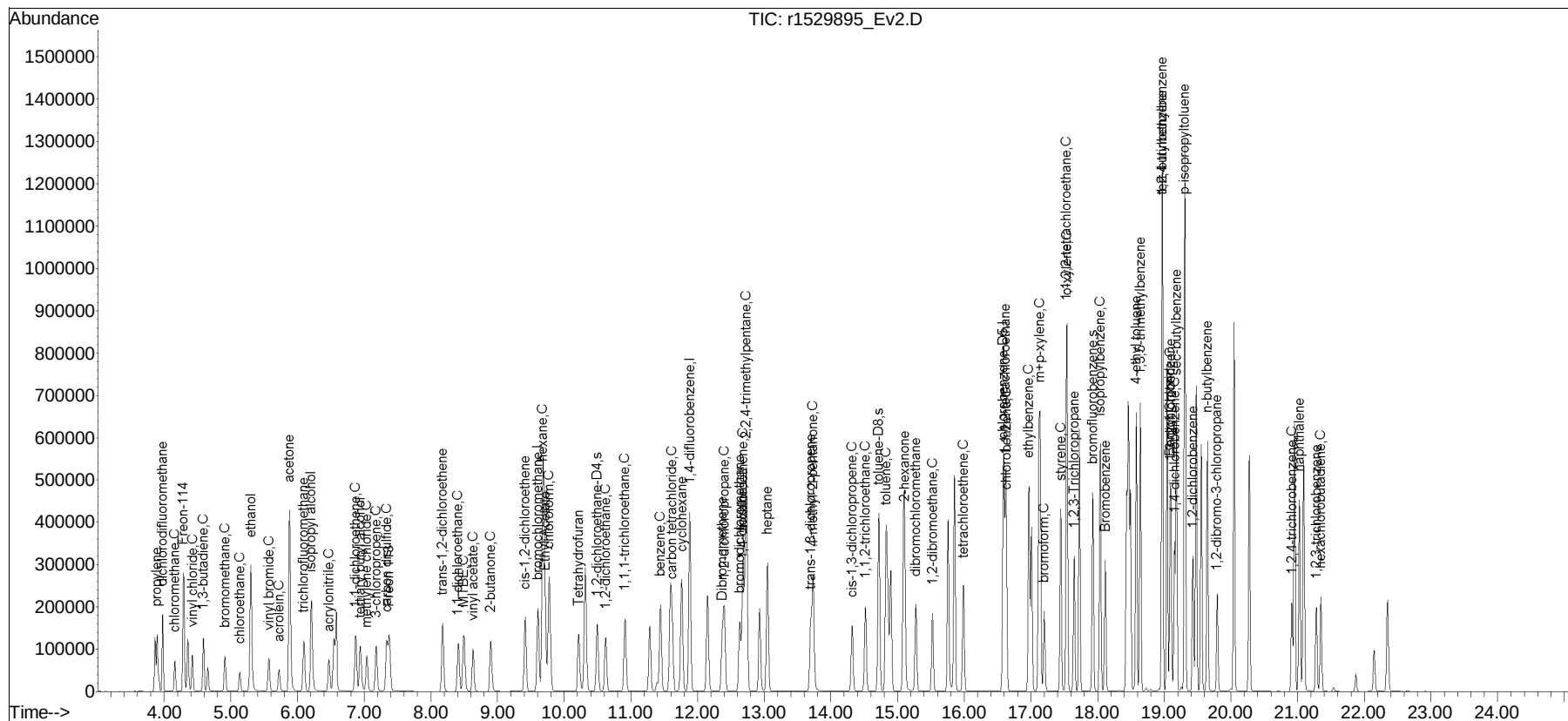
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.583	105	515029	9.921	ppbV	96
71) 1,3,5-trimethylbenzene	18.642	105	450204	9.872	ppbV	95
72) tert-butylbenzene	18.973	119	520137	9.854	ppbV	98
73) 1,2,4-trimethylbenzene	18.973	105	444611	9.896	ppbV	95
74) Benzyl Chloride	19.090	91	280878	11.297	ppbV	97
75) 1,3-dichlorobenzene	19.098	146	295839	10.008	ppbV	98
76) 1,4-dichlorobenzene	19.157	146	296949M6	10.084	ppbV	
77) sec-butylbenzene	19.182	105	630890	9.858	ppbV	98
78) p-isopropyltoluene	19.307	119	632342M6	9.794	ppbV	
79) 1,2-dichlorobenzene	19.432	146	280023	10.028	ppbV	98
80) n-butylbenzene	19.648	91	576144	9.937	ppbV	96
81) 1,2-dibromo-3-chloropr...	19.790	75	121778	10.095	ppbV	89
82) 1,2,4-trichlorobenzene	20.917	180	222980	10.678	ppbV	99
83) naphthalene	21.025	128	691257	10.423	ppbV	99
84) 1,2,3-trichlorobenzene	21.283	180	213858	10.496	ppbV	100
85) hexachlorobutadiene	21.350	225	180146	9.991	ppbV	98

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

Sub List : Default - All compounds listed1\12\1222SIM_I\r1529894_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2021\12\1222SIM_I\
Data File : r1529895_Ev2.D
Acq On : 22 Dec 2021 8:52 AM
Operator : AIRLAB15:TS
Sample : IT015-SIMSTD010
Misc : WG1587796
ALS Vial : 0 Sample Multiplier: 1

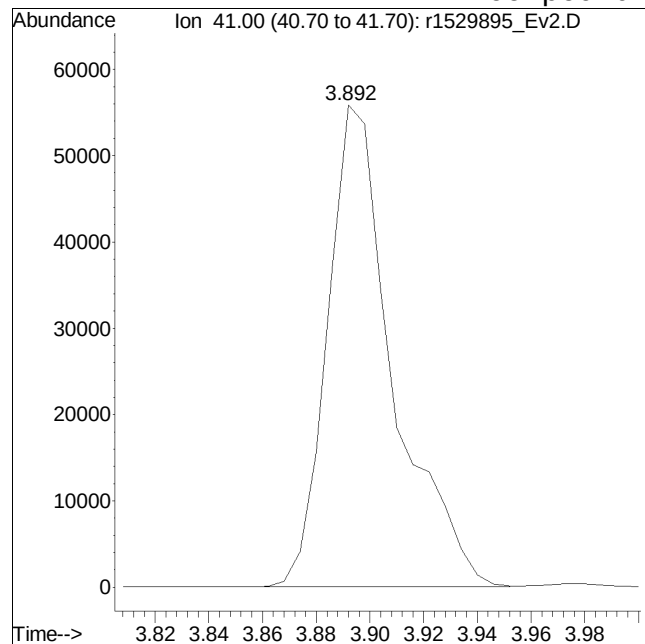
Quant Time: Dec 27 10:27:51 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222SIM_I\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:48:40 2021
Response via : Initial Calibration



Manual Integration Report

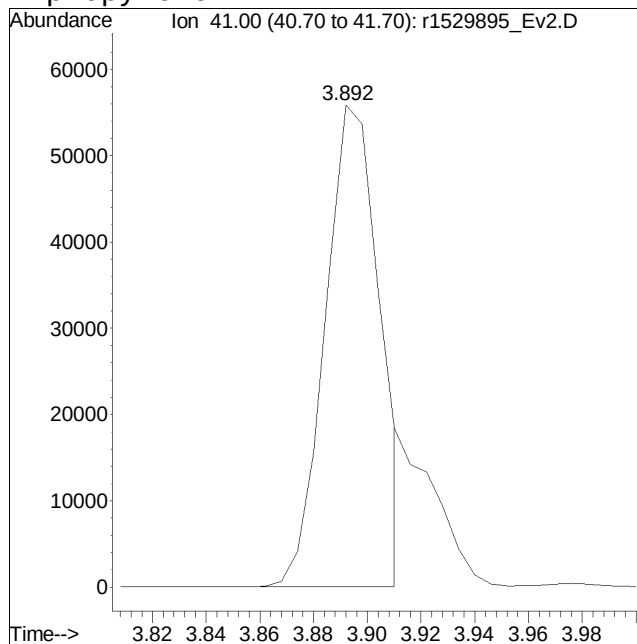
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529895_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 2 Instrument :
Sample : IT015-SIMSTD010 Quant Date : 12/22/2021 10:49 am

Compound #2: propylene



Original Peak Response = 94600

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

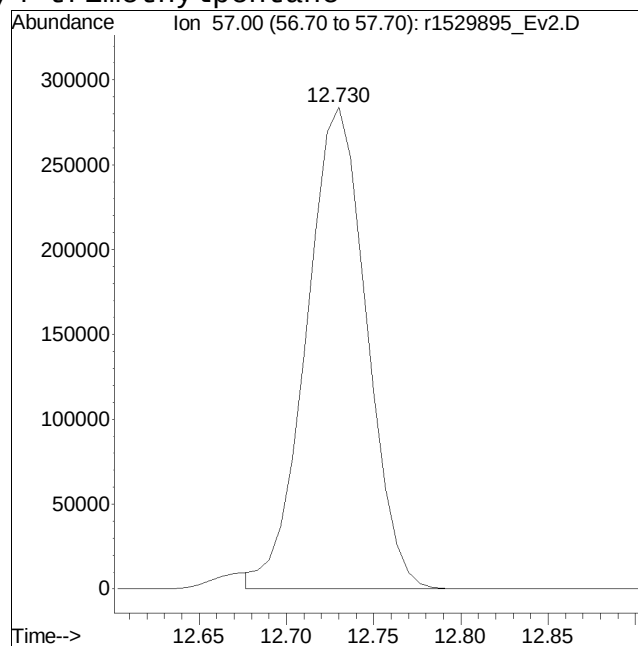
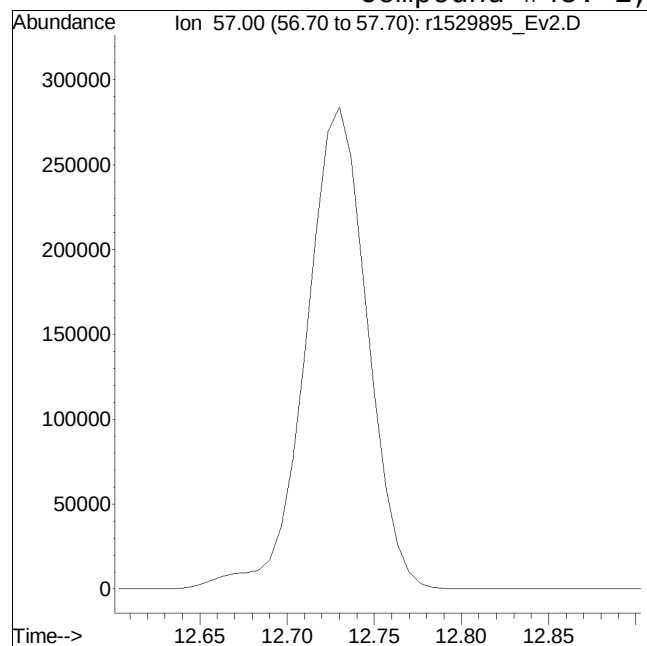


Manual Peak Response = 79178 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529895_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 2 Instrument :
Sample : IT015-SIMSTD010 Quant Date : 12/22/2021 10:49 am

Compound #45: 2,2,4-trimethylpentane



Original Peak Response =

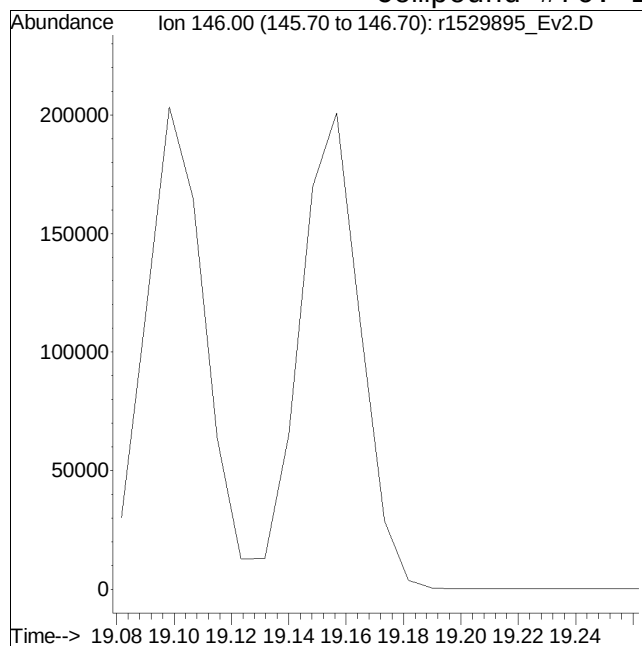
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Peak Response = 680097 M6

Manual Integration Report

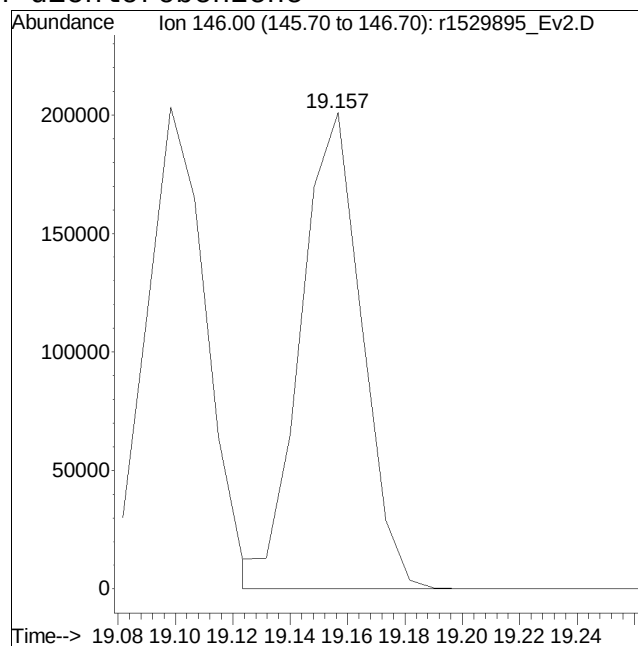
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Data File : r1529895_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 2 Instrument :
Sample : IT015-SIMSTD010 Quant Date : 12/22/2021 10:49 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response =

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

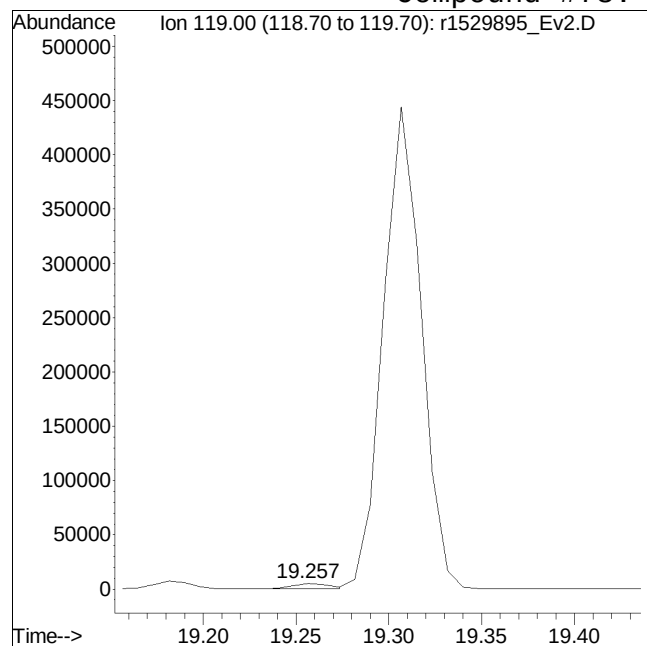


Manual Peak Response = 296949 M6

Manual Integration Report

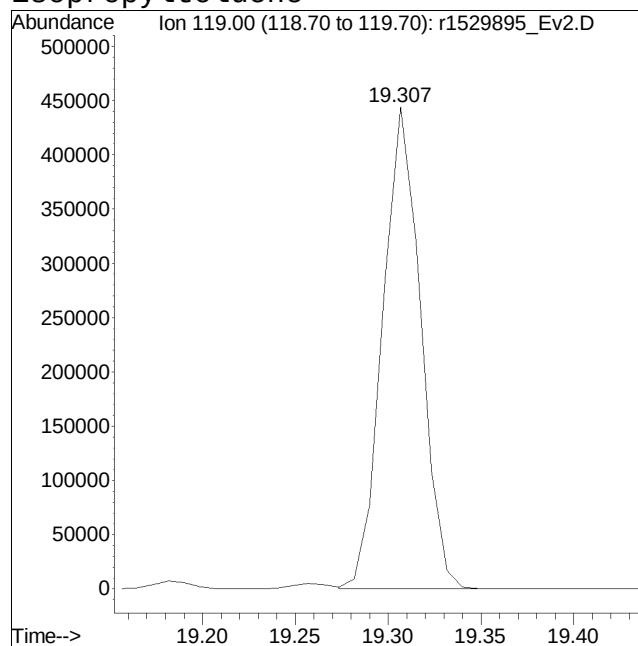
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Data File : r1529895_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:8: 2 Instrument :
Sample : IT015-SIMSTD010 Quant Date : 12/22/2021 10:49 am

Compound #78: p-isopropyltoluene



Original Peak Response = 7324

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 632342 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529896_Ev2.D
 Acq On : 22 Dec 2021 9:29 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD020
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:29:18 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.608	49	217568	10.000	ppbV	0.07
Standard Area = 213198			Recovery =	102.05%		
33) 1,4-difluorobenzene	11.883	114	518216	10.000	ppbV	0.06
Standard Area = 515322			Recovery =	100.56%		
51) chlorobenzene-D5	16.592	54	118905	10.000	ppbV	# 0.05
Standard Area = 119198			Recovery =	99.75%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.500	65	143929	9.921	ppbV	0.07
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.21%		
53) toluene-D8	14.717	98	484402	10.175	ppbV	0.05
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.75%		
67) bromofluorobenzene	17.925	95	365008	10.340	ppbV	0.04
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.40%		
Target Compounds						
					Qvalue	
2) propylene	3.898	41	171688M6	20.856	ppbV	
3) dichlorodifluoromethane	3.982	85	304269	18.028	ppbV	99
4) chloromethane	4.162	50	153342	19.153	ppbV	99
5) Freon-114	4.288	85	370754	18.572	ppbV	100
6) vinyl chloride	4.426	62	207460	19.322	ppbV	99
7) 1,3-butadiene	4.594	54	153898	19.722	ppbV	# 76
8) bromomethane	4.912	94	154805	19.130	ppbV	99
9) chloroethane	5.134	64	104154	19.829	ppbV	99
10) ethanol	5.302	31	891442	98.824	ppbV	96
11) vinyl bromide	5.570	106	145469	21.728	ppbV	95
12) acrolein	5.723	56	90269	20.740	ppbV	95
13) acetone	5.877	43	1152846	101.578	ppbV	93
14) trichlorofluoromethane	6.097	101	303596	20.044	ppbV	99
15) isopropyl alcohol	6.207	45	674632	55.320	ppbV	98
16) acrylonitrile	6.470	53	160534	21.376	ppbV	96
17) 1,1-dichloroethene	6.870	61	302215	20.305	ppbV	99
18) tertiary butyl alcohol	6.936	59	373213	22.113	ppbV	96
19) methylene chloride	7.038	49	203324	20.029	ppbV	93
20) 3-chloropropene	7.182	41	265887	22.399	ppbV	96
21) carbon disulfide	7.338	76	469889	23.324	ppbV	# 84
22) Freon 113	7.374	101	307694	20.178	ppbV	97
23) trans-1,2-dichloroethene	8.175	61	339555	21.939	ppbV	99
24) 1,1-dichloroethane	8.417	63	390485	20.929	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529896_Ev2.D
 Acq On : 22 Dec 2021 9:29 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD020
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:29:18 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.492	73	472707	21.947	ppbV	98
26) vinyl acetate	8.633	43	455676	24.919	ppbV	96
27) 2-butanone	8.892	43	459438	22.145	ppbV	97
28) cis-1,2-dichloroethene	9.417	61	316201	21.215	ppbV	94
29) Ethyl Acetate	9.708	61	84991	22.491	ppbV	70
30) chloroform	9.775	83	376340	20.459	ppbV	97
31) Tetrahydrofuran	10.208	42	288866	22.354	ppbV	95
32) 1,2-dichloroethane	10.625	62	260802	20.588	ppbV	100
34) hexane	9.683	57	453481	21.984	ppbV	93
36) 1,1,1-trichloroethane	10.910	97	308831	21.599	ppbV	98
37) benzene	11.443	78	705916	20.828	ppbV	99
38) carbon tetrachloride	11.623	117	289221	21.744	ppbV	97
39) cyclohexane	11.763	56	495696	22.172	ppbV	92
40) Dibromomethane	12.370	93	232351	21.965	ppbV #	93
41) 1,2-dichloropropane	12.403	63	273613	21.348	ppbV	97
42) bromodichloromethane	12.630	83	415115	22.604	ppbV	99
43) 1,4-dioxane	12.670	88	178908	22.306	ppbV	93
44) trichloroethene	12.683	130	289593	21.255	ppbV	94
45) 2,2,4-trimethylpentane	12.730	57	1503898M6	21.908	ppbV	
46) heptane	13.050	43	494883	21.903	ppbV	96
47) cis-1,3-dichloropropene	14.317	75	313139	22.951	ppbV	91
48) 4-methyl-2-pentanone	13.733	43	563451	22.282	ppbV	95
49) trans-1,3-dichloropropene	13.700	75	331311	22.456	ppbV	91
50) 1,1,2-trichloroethane	14.517	97	254964	21.393	ppbV	95
52) toluene	14.833	91	861262	21.221	ppbV	99
54) 2-hexanone	15.100	43	534872	22.814	ppbV	93
55) dibromochloromethane	15.275	129	387280	23.564	ppbV	99
56) 1,2-dibromoethane	15.525	107	367234	21.405	ppbV	94
57) tetrachloroethene	15.992	166	305517	21.228	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.617	131	301048	23.239	ppbV	97
59) chlorobenzene	16.633	112	632252	21.203	ppbV	94
60) ethylbenzene	16.975	91	1105269	21.537	ppbV	96
61) m+p-xylene	17.133	91	1781253	42.024	ppbV	98
62) bromoform	17.200	173	310184	24.810	ppbV	99
63) styrene	17.450	104	643634	21.901	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.533	83	653607	20.610	ppbV	100
65) o-xylene	17.542	91	898601	21.038	ppbV	97
66) 1,2,3-Trichloropropane	17.650	75	478097	21.659	ppbV	93
68) isopropylbenzene	18.042	105	1060366	21.712	ppbV	95
69) Bromobenzene	18.117	77	627854	21.650	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529896_Ev2.D
 Acq On : 22 Dec 2021 9:29 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD020
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:29:18 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

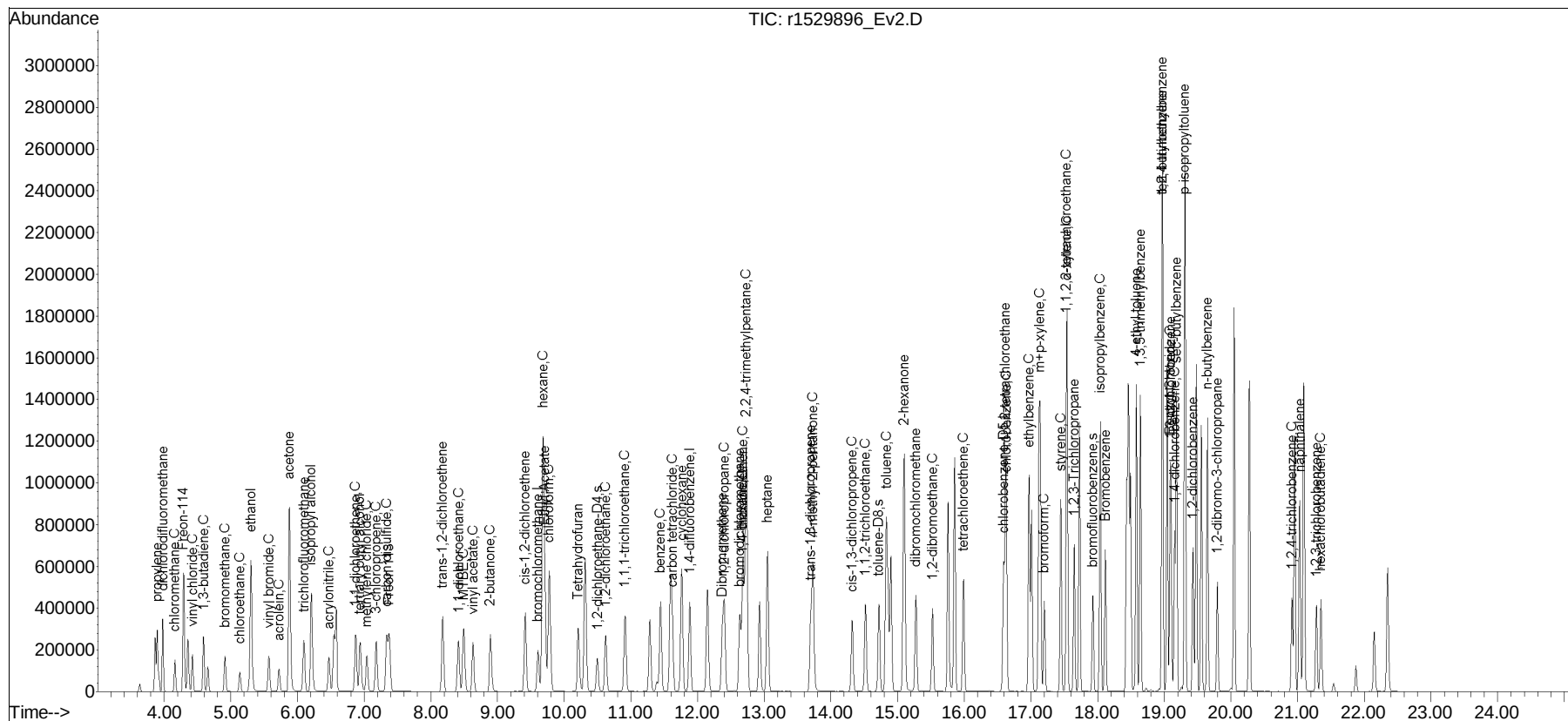
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.583	105	1130942	22.112	ppbV	96
71) 1,3,5-trimethylbenzene	18.642	105	950006	21.142	ppbV	97
72) tert-butylbenzene	18.973	119	1065818	20.494	ppbV	99
73) 1,2,4-trimethylbenzene	18.973	105	917788	20.732	ppbV	99
74) Benzyl Chloride	19.090	91	716658	29.254	ppbV	97
75) 1,3-dichlorobenzene	19.098	146	643427	22.092	ppbV	98
76) 1,4-dichlorobenzene	19.157	146	628107M6	21.648	ppbV	
77) sec-butylbenzene	19.182	105	1360270	21.572	ppbV	96
78) p-isopropyltoluene	19.307	119	1301469M6	20.460	ppbV	
79) 1,2-dichlorobenzene	19.432	146	598811	21.764	ppbV	98
80) n-butylbenzene	19.648	91	1237449	21.663	ppbV	94
81) 1,2-dibromo-3-chloropr...	19.798	75	268017	22.549	ppbV	88
82) 1,2,4-trichlorobenzene	20.917	180	466671	22.682	ppbV	100
83) naphthalene	21.033	128	1439535	22.031	ppbV	99
84) 1,2,3-trichlorobenzene	21.283	180	441744	22.004	ppbV	99
85) hexachlorobutadiene	21.350	225	362681	20.416	ppbV	97

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

Sub List : Default - All compounds listed1\12\1222SIM_I\r1529894_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2021\12\1222SIM_I\
Data File : r1529896_Ev2.D
Acq On : 22 Dec 2021 9:29 AM
Operator : AIRLAB15:TS
Sample : IT015-SIMSTD020
Misc : WG1587796
ALS Vial : 0 Sample Multiplier: 1

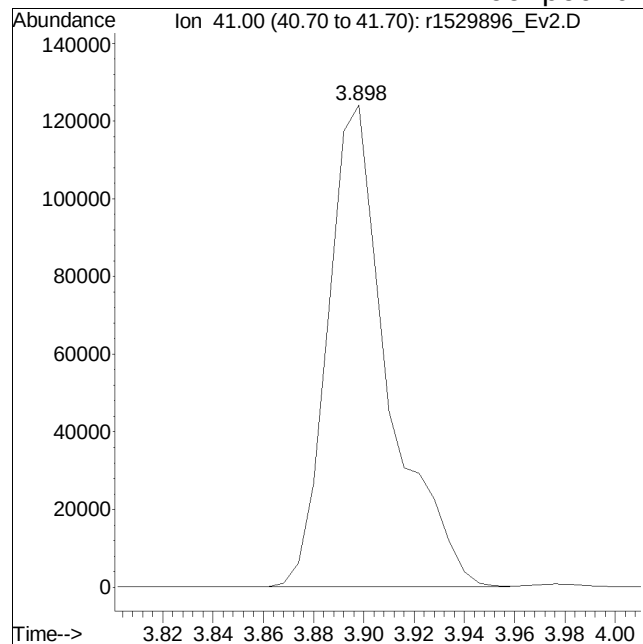
Quant Time: Dec 27 10:29:18 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222SIM_I\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:48:40 2021
Response via : Initial Calibration



Manual Integration Report

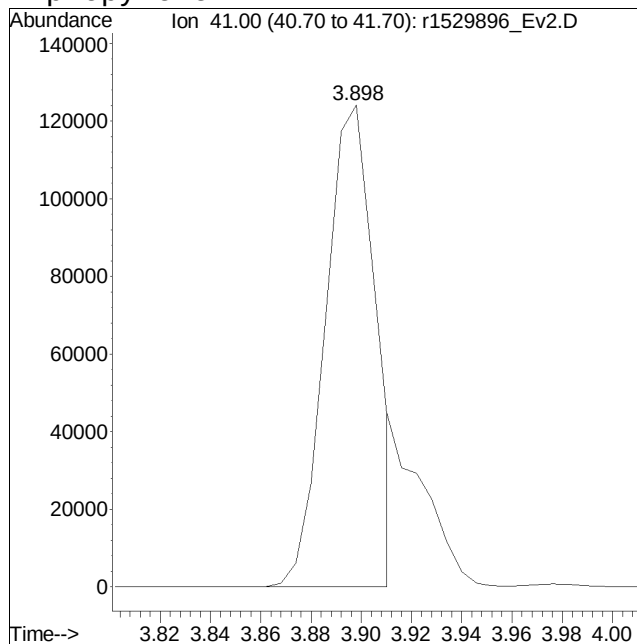
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529896_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:9: 9 Instrument :
Sample : IT015-SIMSTD020 Quant Date : 12/22/2021 10:49 am

Compound #2: propylene



Original Peak Response = 207482

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

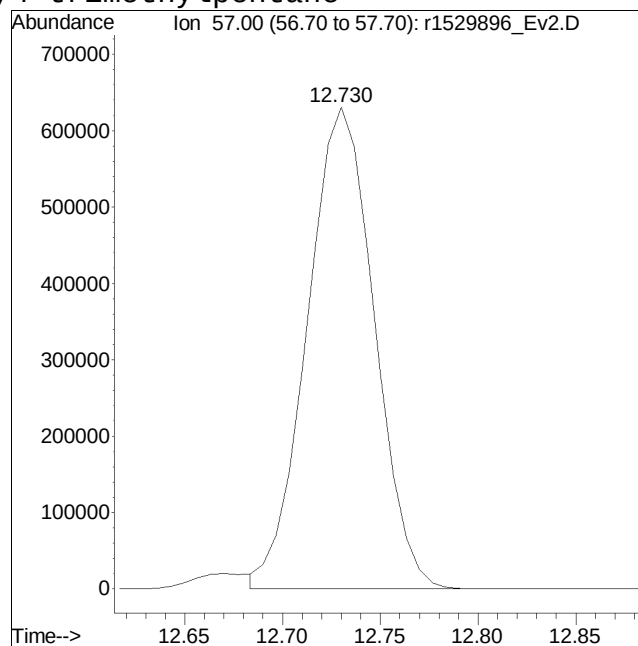
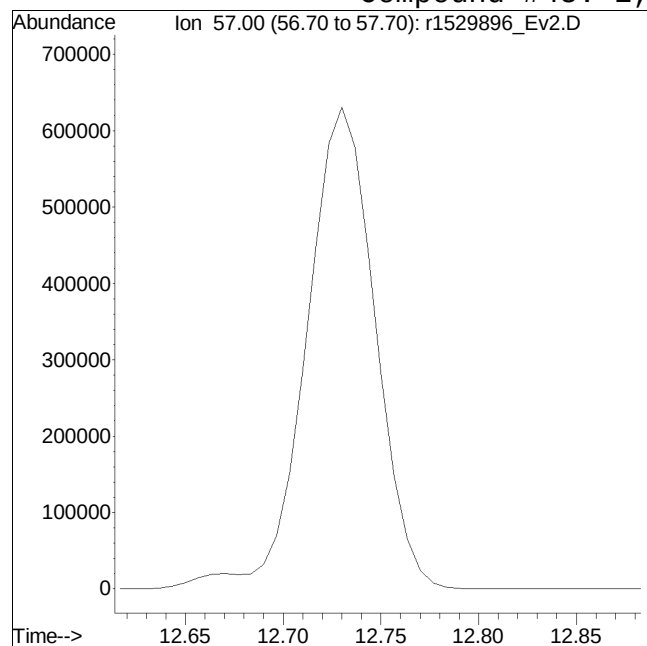


Manual Peak Response = 171688 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529896_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:9: 9 Instrument :
Sample : IT015-SIMSTD020 Quant Date : 12/22/2021 10:49 am

Compound #45: 2,2,4-trimethylpentane



Original Peak Response =

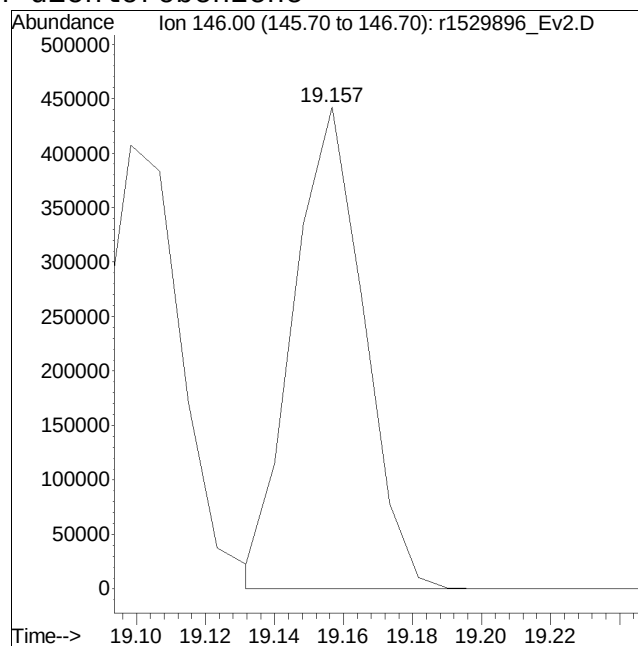
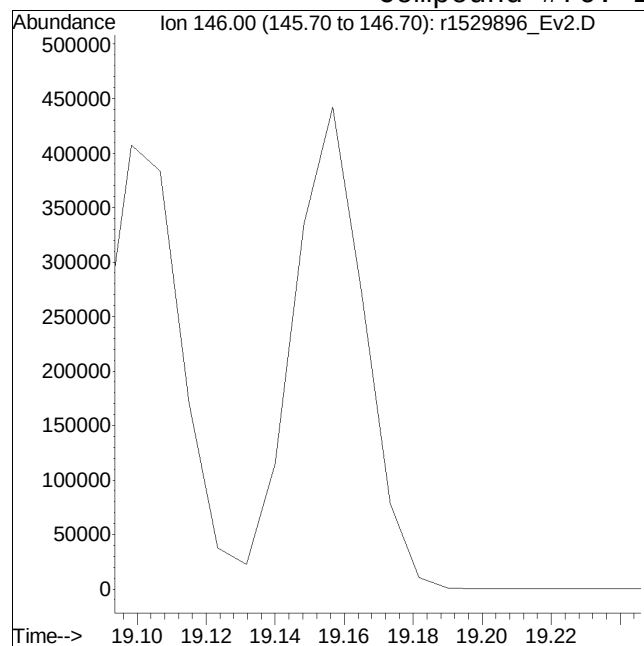
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Peak Response = 1503898 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529896_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:9: 9 Instrument :
Sample : IT015-SIMSTD020 Quant Date : 12/22/2021 10:49 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response =

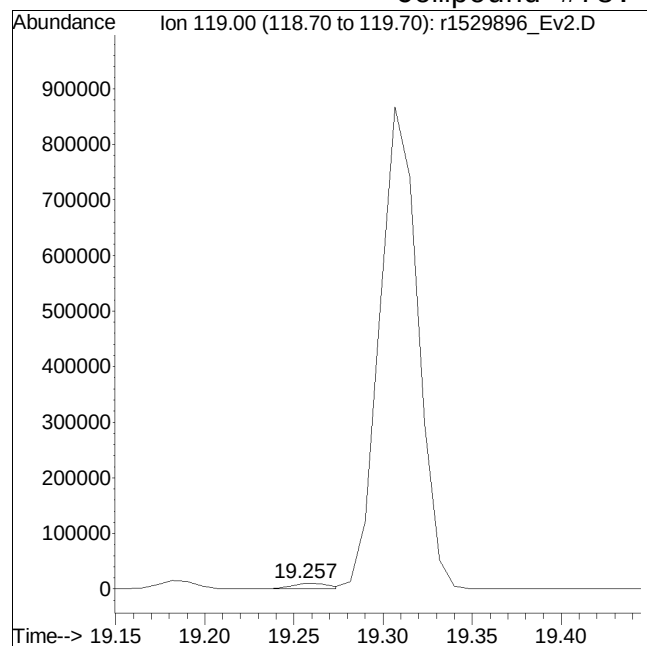
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Peak Response = 628107 M6

Manual Integration Report

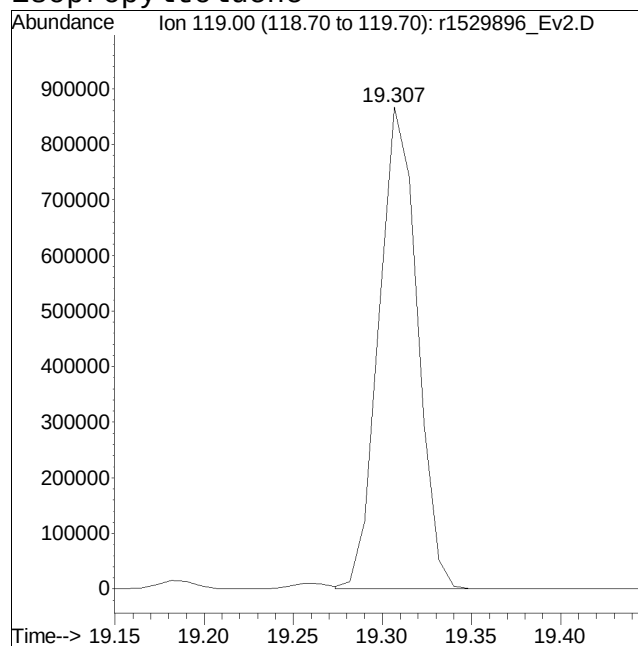
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529896_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:9: 9 Instrument :
Sample : IT015-SIMSTD020 Quant Date : 12/22/2021 10:49 am

Compound #78: p-isopropyltoluene



Original Peak Response = 15569

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 1301469 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529897_Ev2.D
 Acq On : 22 Dec 2021 10:08 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD050
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:34:06 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.617	49	211357	10.000	ppbV	0.07
Standard Area = 213198			Recovery =	99.14%		
33) 1,4-difluorobenzene	11.890	114	513268	10.000	ppbV	0.07
Standard Area = 515322			Recovery =	99.60%		
51) chlorobenzene-D5	16.592	54	113066	10.000	ppbV	# 0.05
Standard Area = 119198			Recovery =	94.86%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.500	65	139402	9.702	ppbV	0.07
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.02%		
53) toluene-D8	14.725	98	491090	10.848	ppbV	0.06
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.48%		
67) bromofluorobenzene	17.933	95	362048	10.785	ppbV	0.05
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.85%		
Target Compounds						
					Qvalue	
2) propylene	3.898	41	410236M6	51.298	ppbV	
3) dichlorodifluoromethane	3.982	85	655201	39.961	ppbV	100
4) chloromethane	4.162	50	342837	44.081	ppbV	100
5) Freon-114	4.294	85	796794	41.085	ppbV	98
6) vinyl chloride	4.426	62	458894	43.995	ppbV	100
7) 1,3-butadiene	4.594	54	337553	44.528	ppbV	84
8) bromomethane	4.918	94	339298	43.160	ppbV	99
9) chloroethane	5.140	64	234363	45.931	ppbV	100
10) ethanol	5.314	31	1801667	205.600	ppbV	88
11) vinyl bromide	5.577	106	334071	51.364	ppbV	96
12) acrolein	5.727	56	198830	47.025	ppbV	94
13) acetone	5.883	43	2553612	231.613	ppbV	97
14) trichlorofluoromethane	6.100	101	670286	45.554	ppbV	100
15) isopropyl alcohol	6.217	45	1544395	130.361	ppbV	99
16) acrylonitrile	6.477	53	348472	47.764	ppbV	96
17) 1,1-dichloroethene	6.876	61	649797	44.940	ppbV	98
18) tertiary butyl alcohol	6.948	59	816326	49.789	ppbV	95
19) methylene chloride	7.044	49	441068	44.724	ppbV	93
20) 3-chloropropene	7.188	41	617751	53.570	ppbV	# 97
21) carbon disulfide	7.344	76	1075551	54.957	ppbV	# 82
22) Freon 113	7.380	101	681316	45.991	ppbV	96
23) trans-1,2-dichloroethene	8.183	61	789559	52.513	ppbV	94
24) 1,1-dichloroethane	8.417	63	908693	50.135	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529897_Ev2.D
 Acq On : 22 Dec 2021 10:08 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD050
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:34:06 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.500	73	1070569	51.166	ppbV	98
26) vinyl acetate	8.633	43	1074667	60.495	ppbV	98
27) 2-butanone	8.900	43	1050509	52.122	ppbV	95
28) cis-1,2-dichloroethene	9.425	61	729376	50.374	ppbV	90
29) Ethyl Acetate	9.717	61	204224	55.631	ppbV	89
30) chloroform	9.783	83	799035	44.714	ppbV	97
31) Tetrahydrofuran	10.208	42	673579	53.658	ppbV	96
32) 1,2-dichloroethane	10.625	62	621776	50.527	ppbV	100
34) hexane	9.683	57	1002508	49.068	ppbV	90
36) 1,1,1-trichloroethane	10.917	97	702931	49.635	ppbV	97
37) benzene	11.450	78	1569284	46.747	ppbV	98
38) carbon tetrachloride	11.623	117	625889	47.508	ppbV	98
39) cyclohexane	11.770	56	1114954	50.352	ppbV	93
40) Dibromomethane	12.377	93	526979	50.297	ppbV #	91
41) 1,2-dichloropropane	12.410	63	647242	50.987	ppbV	95
42) bromodichloromethane	12.637	83	903639	49.680	ppbV	98
43) 1,4-dioxane	12.670	88	404703	50.943	ppbV	96
44) trichloroethene	12.690	130	658644	48.809	ppbV	94
45) 2,2,4-trimethylpentane	12.737	57	3308372	48.660	ppbV	97
46) heptane	13.057	43	1104812M2	49.369	ppbV	
47) cis-1,3-dichloropropene	14.325	75	722622	53.475	ppbV	91
48) 4-methyl-2-pentanone	13.733	43	1285857	51.340	ppbV	95
49) trans-1,3-dichloropropene	13.700	75	765678	52.398	ppbV	91
50) 1,1,2-trichloroethane	14.525	97	599087	50.752	ppbV	98
52) toluene	14.833	91	1922210	49.807	ppbV	98
54) 2-hexanone	15.108	43	1201034M6	53.874	ppbV	
55) dibromochloromethane	15.283	129	867140	55.485	ppbV	98
56) 1,2-dibromoethane	15.525	107	839348	51.451	ppbV	96
57) tetrachloroethene	15.992	166	675184	49.335	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.617	131	662302	53.765	ppbV	98
59) chlorobenzene	16.633	112	1383824	48.803	ppbV	97
60) ethylbenzene	16.975	91	2474769	50.714	ppbV	95
61) m+p-xylene	17.142	91	3877103	96.194	ppbV	95
62) bromoform	17.208	173	703844	59.205	ppbV	99
63) styrene	17.450	104	1481347	53.009	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.542	83	1331340	44.148	ppbV	100
65) o-xylene	17.542	91	1876443	46.199	ppbV	95
66) 1,2,3-Trichloropropane	17.650	75	1072392	51.092	ppbV	92
68) isopropylbenzene	18.042	105	2368336	50.999	ppbV	97
69) Bromobenzene	18.117	77	1390795	50.436	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529897_Ev2.D
 Acq On : 22 Dec 2021 10:08 AM
 Operator : AIRLAB15:TS
 Sample : IT015-SIMSTD050
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:34:06 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Dec 22 10:48:40 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default - All compounds listed

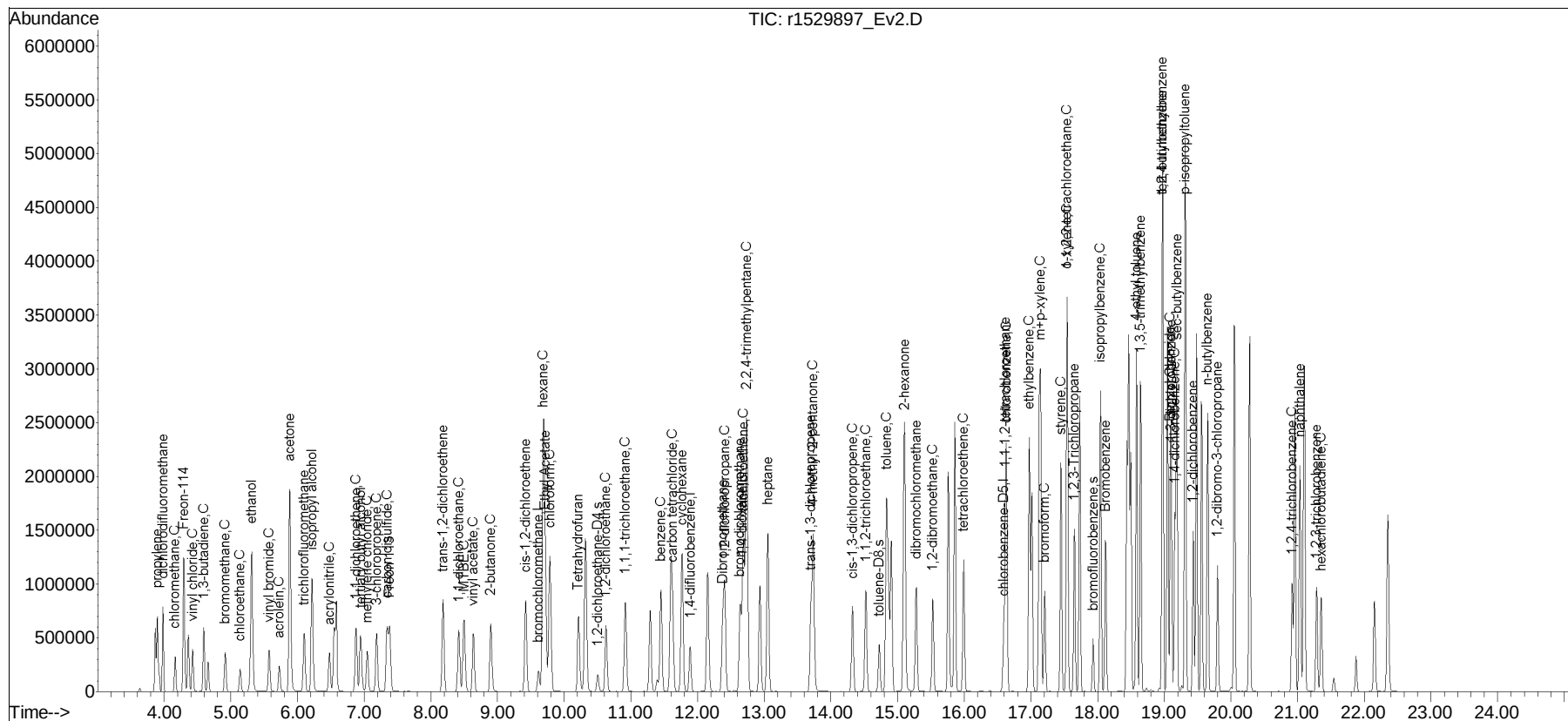
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.583	105	2520697	51.829	ppbV	98
71) 1,3,5-trimethylbenzene	18.642	105	2101610	49.186	ppbV	100
72) tert-butylbenzene	18.973	119	2111419	42.695	ppbV	97
73) 1,2,4-trimethylbenzene	18.973	105	1932790	45.915	ppbV	97
74) Benzyl Chloride	19.090	91	1688855	72.500	ppbV	98
75) 1,3-dichlorobenzene	19.107	146	1443733	52.130	ppbV	94
76) 1,4-dichlorobenzene	19.157	146	1460777M6	52.947	ppbV	
77) sec-butylbenzene	19.190	105	3007328	50.156	ppbV #	90
78) p-isopropyltoluene	19.315	119	2569744M6	42.484	ppbV	
79) 1,2-dichlorobenzene	19.432	146	1391710	53.196	ppbV	97
80) n-butylbenzene	19.648	91	2672787	49.206	ppbV	93
81) 1,2-dibromo-3-chloropr...	19.798	75	612466	54.189	ppbV	88
82) 1,2,4-trichlorobenzene	20.917	180	1087129	55.567	ppbV	95
83) naphthalene	21.033	128	3308857	53.254	ppbV	98
84) 1,2,3-trichlorobenzene	21.283	180	1054357	55.232	ppbV	96
85) hexachlorobutadiene	21.358	225	787629	46.627	ppbV	96

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

Sub List : Default - All compounds listed1\12\1222SIM_I\r1529894_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2021\12\1222SIM_I\
Data File : r1529897_Ev2.D
Acq On : 22 Dec 2021 10:08 AM
Operator : AIRLAB15:TS
Sample : IT015-SIMSTD050
Misc : WG1587796
ALS Vial : 0 Sample Multiplier: 1

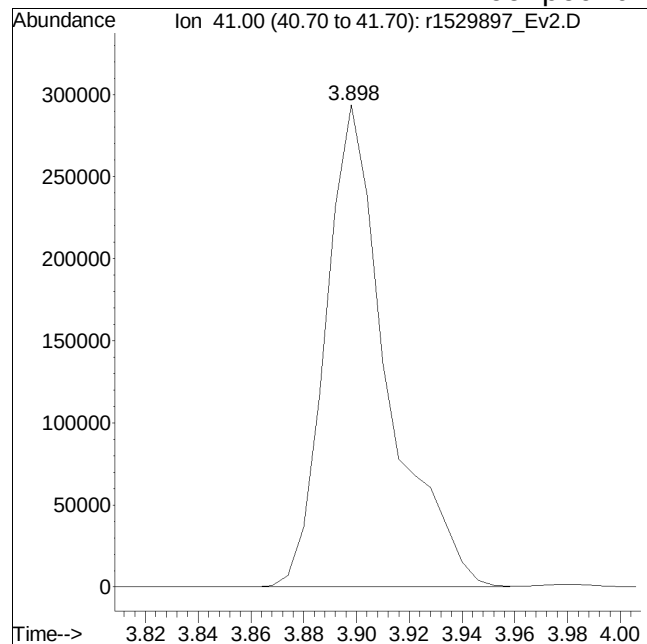
Quant Time: Dec 27 10:34:06 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222SIM_I\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Dec 22 10:48:40 2021
Response via : Initial Calibration



Manual Integration Report

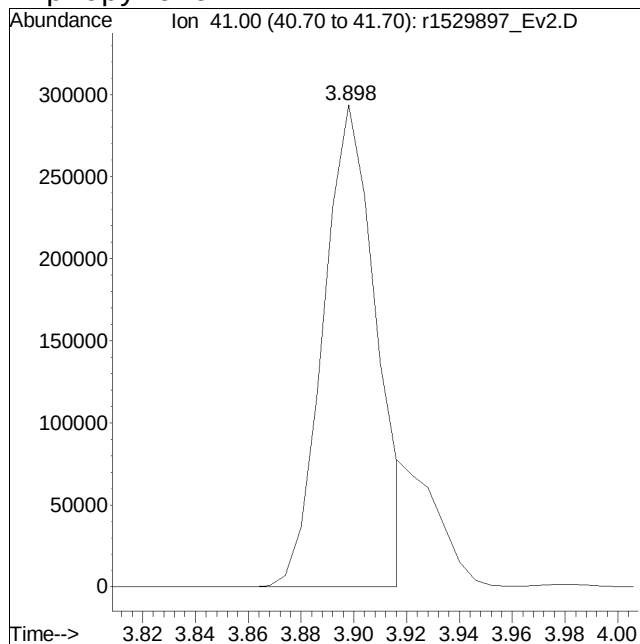
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529897_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:0: 8 Instrument :
Sample : IT015-SIMSTD050 Quant Date : 12/22/2021 10:49 am

Compound #2: propylene



Original Peak Response = 477443

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

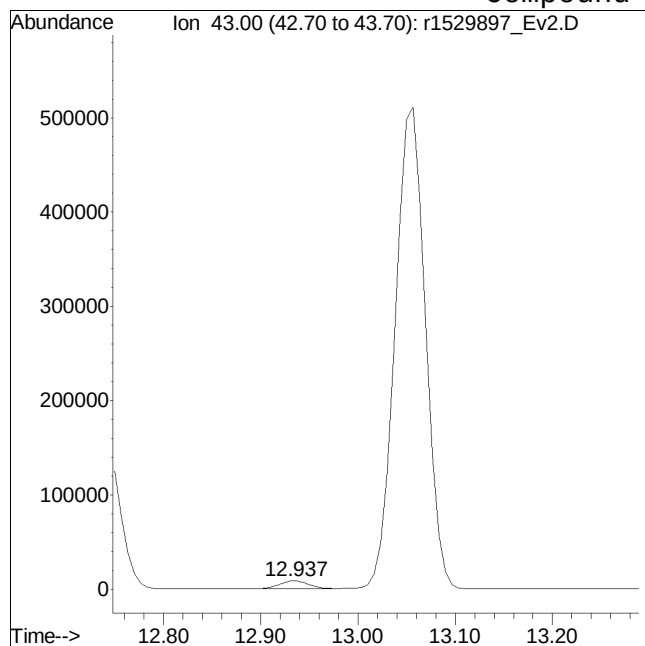


Manual Peak Response = 410236 M6

Manual Integration Report

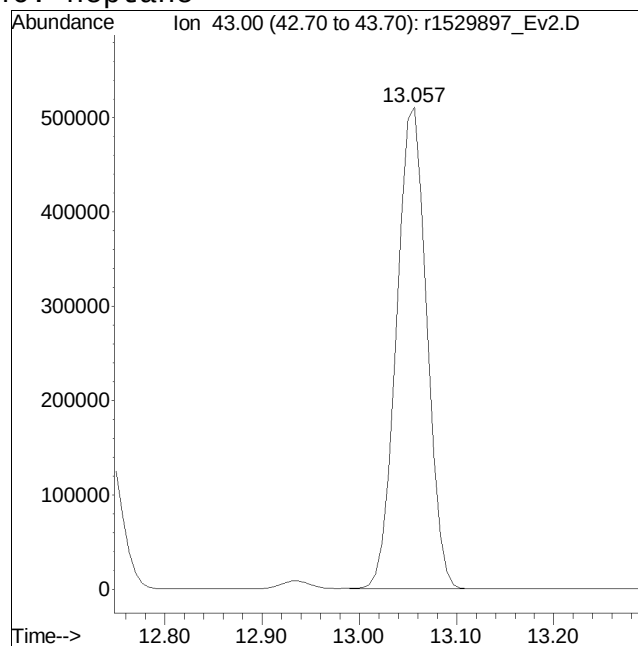
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529897_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:0: 8 Instrument :
Sample : IT015-SIMSTD050 Quant Date : 12/22/2021 10:49 am

Compound #46: heptane



Original Peak Response = 18403

M2 = Peak not found by automatic integration algorithm.

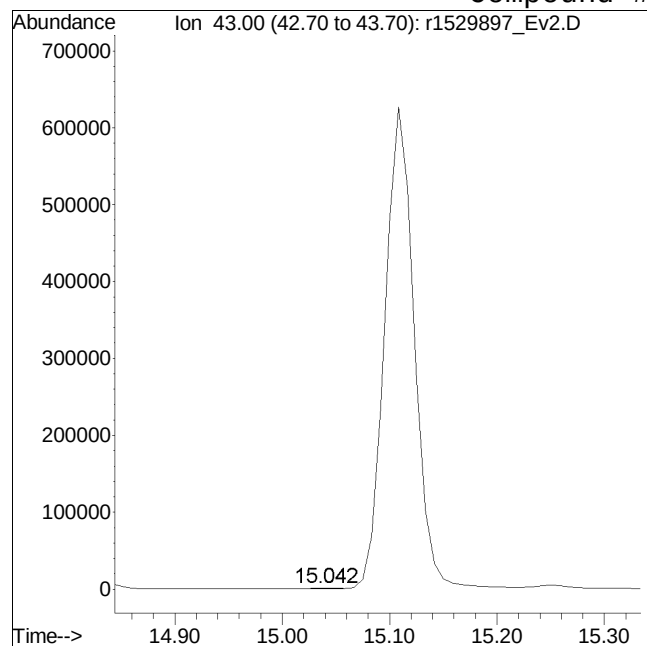


Manual Peak Response = 1104812 M2

Manual Integration Report

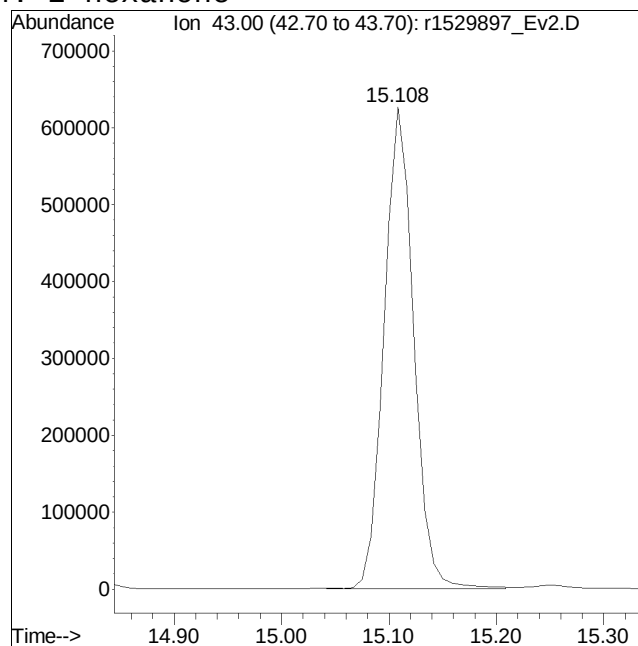
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529897_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:0: 8 Instrument :
Sample : IT015-SIMSTD050 Quant Date : 12/22/2021 10:49 am

Compound #54: 2-hexanone



Original Peak Response = 2491

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

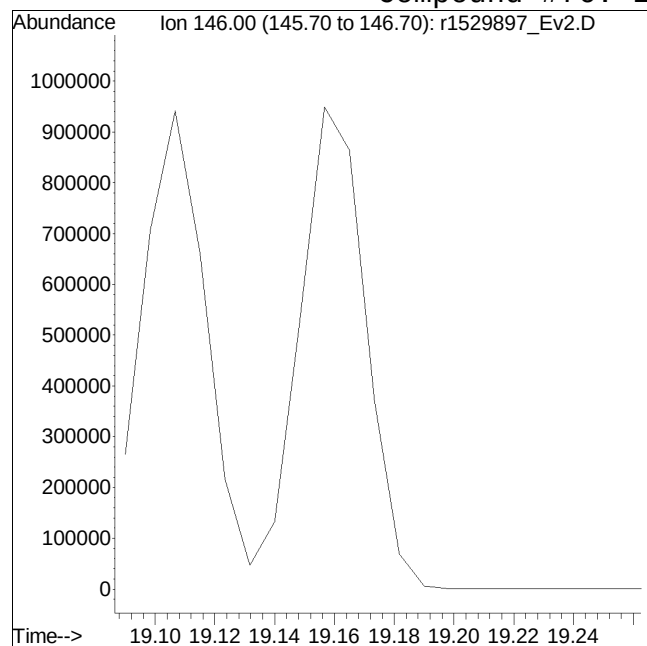


Manual Peak Response = 1201034 M6

Manual Integration Report

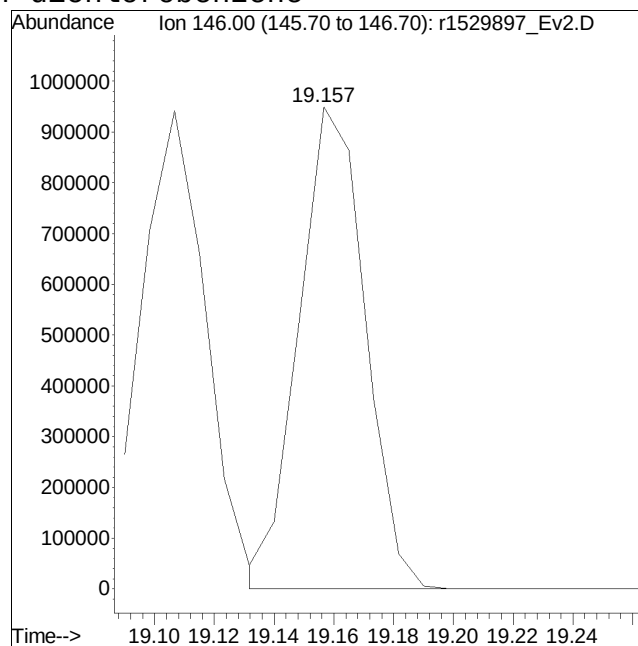
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529897_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:0: 8 Instrument :
Sample : IT015-SIMSTD050 Quant Date : 12/22/2021 10:49 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response =

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

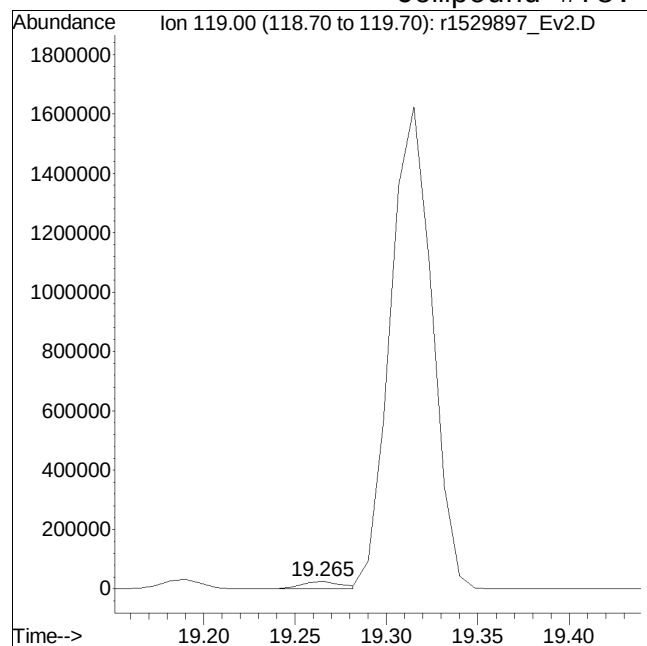


Manual Peak Response = 1460777 M6

Manual Integration Report

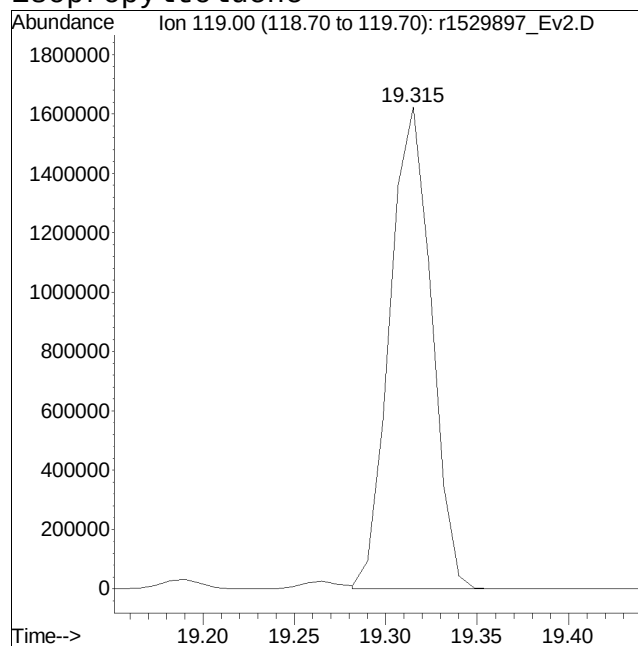
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529897_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:0: 8 Instrument :
Sample : IT015-SIMSTD050 Quant Date : 12/22/2021 10:49 am

Compound #78: p-isopropyltoluene



Original Peak Response = 40389

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 2569744 M6

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529902_Ev2.D
 Acq On : 22 Dec 2021 3:07 PM
 Operator : AIRLAB15:TS
 Sample : CT015-SIMSTD5.0
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:40:04 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	93	0.00
2	propylene	0.406	0.422	-3.9	104	0.01
3	dichlorodifluoromethane	0.767	0.689	10.2	83	0.01
4 C	chloromethane	0.373	0.333	10.7	84	0.00
5	Freon-114	0.928	0.832	10.3	85	0.01
6 C	vinyl chloride	0.513	0.446	13.1	84	0.01
7 C	1,3-butadiene	0.389	0.333	14.4	87	0.01
8 C	bromomethane	0.388	0.333	14.2	83	0.01
9 C	chloroethane	0.255	0.229	10.2	89	0.01
10	ethanol	0.417	0.393	5.8	88	0.00
11 C	vinyl bromide	0.327	0.300	8.3	91	0.00
12 C	acrolein	0.214	0.174	18.7	81	0.00
13	acetone	0.554	0.505	8.8	90	0.00
14	trichlorofluoromethane	0.723	0.665	8.0	89	0.00
15	isopropyl alcohol	0.597	0.653	-9.4	109	0.00
16 C	acrylonitrile	0.367	0.316	13.9	86	0.01
17 C	1,1-dichloroethene	0.715	0.647	9.5	88	0.01
18	tertiary butyl alcohol	0.809	0.900	-11.2	108	0.00
19 C	methylene chloride	0.472	0.438	7.2	88	0.00
20 C	3-chloropropene	0.574	0.653	-13.8	112	0.01
21 C	carbon disulfide	0.973	1.050	-7.9	106	0.00
22	Freon 113	0.759	0.754	0.7	100	0.00
23	trans-1,2-dichloroethene	0.778	0.707	9.1	93	0.00
24 C	1,1-dichloroethane	0.899	0.878	2.3	96	0.00
25 C	MTBE	1.050	1.014	3.4	96	0.00
26 C	vinyl acetate	0.919	0.800	12.9	89	0.00
27 C	2-butanone	1.019	1.030	-1.1	101	0.00
28	cis-1,2-dichloroethene	0.713	0.707	0.8	96	0.00
29	Ethyl Acetate	0.183	0.191	-4.4	103	0.00
30 C	chloroform	0.889	0.800	10.0	88	0.00
31	Tetrahydrofuran	0.626	0.639	-2.1	100	0.00
32 C	1,2-dichloroethane	0.630	0.562	10.8	90	0.00
33 I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.00
34 C	hexane	0.420	0.383	8.8	93	0.00
35 s	1,2-dichloroethane-D4	0.279	0.269	3.6	93	0.00
36 C	1,1,1-trichloroethane	0.292	0.268	8.2	94	0.00
37 C	benzene	0.755	0.603	20.1	89	0.00
38 C	carbon tetrachloride	0.270	0.234	13.3	88	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529902_Ev2.D
 Acq On : 22 Dec 2021 3:07 PM
 Operator : AIRLAB15:TS
 Sample : CT015-SIMSTD5.0
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:40:04 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	cyclohexane	0.454	0.415	8.6	93	0.00
40	Dibromomethane	0.236	0.190	19.5	90	0.00
41 C	1,2-dichloropropane	0.262	0.250	4.6	98	0.00
42	bromodichloromethane	0.363	0.331	8.8	91	0.00
43 C	1,4-dioxane	0.161	0.182	-13.0	114	0.00
44 C	trichloroethene	0.274	0.260	5.1	96	0.00
45 C	2,2,4-trimethylpentane	1.397	1.296	7.2	95	0.00
46	heptane	0.455	0.422	7.3	94	0.00
47 C	cis-1,3-dichloropropene	0.251	0.229	8.8	84	0.00
48 C	4-methyl-2-pentanone	0.500	0.529	-5.8	105	0.00
49	trans-1,3-dichloropropene	0.282	0.292	-3.5	99	0.00
50 C	1,1,2-trichloroethane	0.243	0.236	2.9	99	0.00
51 I	chlorobenzene-D5	1.000	1.000	0.0	93	0.00
52 C	toluene	3.984	3.455	13.3	94	0.00
53 s	toluene-D8	4.038	4.257	-5.4	99	0.00
54	2-hexanone	2.046	2.240	-9.5	106	0.00
55	dibromochloromethane	1.388	1.447	-4.3	97	0.00
56 C	1,2-dibromoethane	1.465	1.464	0.1	94	0.00
57 C	tetrachloroethene	1.272	1.189	6.5	91	0.00
58	1,1,1,2-tetrachloroethane	1.127	1.059	6.0	90	0.00
59 C	chlorobenzene	2.626	2.527	3.8	94	0.00
60 C	ethylbenzene	4.376	4.445	-1.6	96	0.00
61 C	m+p-xylene	3.563	3.613	-1.4	94	0.00
62 C	bromoform	1.038	1.121	-8.0	99	0.00
63 C	styrene	2.423	2.555	-5.4	96	0.00
64 C	1,1,2,2-tetrachloroethane	2.683	2.632	1.9	92	0.00
65 C	o-xylene	3.553	3.675	-3.4	95	0.00
66	1,2,3-Trichloropropane	1.981	1.756	11.4	88	0.00
67 s	bromofluorobenzene	2.939	2.912	0.9	91	0.00
68 C	isopropylbenzene	4.280	4.094	4.3	93	0.00
69	Bromobenzene	2.592	2.327	10.2	89	0.00
70	4-ethyl toluene	4.336	4.372	-0.8	94	0.00
71	1,3,5-trimethylbenzene	3.688	3.855	-4.5	95	0.00
72	tert-butylbenzene	4.390	4.339	1.2	92	0.02
73	1,2,4-trimethylbenzene	3.674	3.943	-7.3	98	0.02
74 C	Benzyl Chloride	2.182	2.137	2.1	96	0.02
75	1,3-dichlorobenzene	2.468	2.588	-4.9	98	0.02
76 C	1,4-dichlorobenzene	2.439	2.511	-3.0	96	0.02

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529902_Ev2.D
 Acq On : 22 Dec 2021 3:07 PM
 Operator : AIRLAB15:TS
 Sample : CT015-SIMSTD5.0
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:40:04 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	sec-butylbenzene	5.456	5.274	3.3	92	0.02
78	p-isopropyltoluene	5.295	4.936	6.8	86	0.02
79	1,2-dichlorobenzene	2.316	2.437	-5.2	98	0.02
80	n-butylbenzene	4.838	4.980	-2.9	96	0.03
81	1,2-dibromo-3-chloropropane	0.947	0.943	0.4	88	0.04
82 C	1,2,4-trichlorobenzene	1.583	1.955	-23.5	105	0.04
83	naphthalene	5.101	6.143	-20.4	104	0.04
84	1,2,3-trichlorobenzene	1.551	1.817	-17.2	100	0.04
85 C	hexachlorobutadiene	1.387	1.545	-11.4	96	0.04

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529902_Ev2.D
 Acq On : 22 Dec 2021 3:07 PM
 Operator : AIRLAB15:TS
 Sample : CT015-SIMSTD5.0
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:40:04 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.608	49	198942	10.000	ppbV	0.00
Standard Area = 213198			Recovery =		93.31%	
33) 1,4-difluorobenzene	11.883	114	499169	10.000	ppbV	0.00
Standard Area = 515322			Recovery =		96.87%	
51) chlorobenzene-D5	16.583	54	110756	10.000	ppbV	0.00
Standard Area = 119198			Recovery =		92.92%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.500	65	134271	9.655	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.55%	
53) toluene-D8	14.717	98	471461	10.542	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		105.42%	
67) bromofluorobenzene	17.925	95	322468	9.906	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.06%	
Target Compounds						
					Qvalue	
2) propylene	3.904	41	41928M6	5.192	ppbV	
3) dichlorodifluoromethane	3.988	85	68502	4.492	ppbV	100
4) chloromethane	4.168	50	33134	4.465	ppbV	99
5) Freon-114	4.300	85	82744	4.483	ppbV	100
6) vinyl chloride	4.432	62	44359	4.347	ppbV	99
7) 1,3-butadiene	4.600	54	33153	4.289	ppbV	82
8) bromomethane	4.924	94	33084	4.283	ppbV	100
9) chloroethane	5.146	64	22812	4.502	ppbV	100
10) ethanol	5.308	31	195519	23.564	ppbV	94
11) vinyl bromide	5.580	106	29798	4.576	ppbV	99
12) acrolein	5.733	56	17340	4.071	ppbV	96
13) acetone	5.890	43	250983	22.787	ppbV	96
14) trichlorofluoromethane	6.103	101	66169	4.600	ppbV	99
15) isopropyl alcohol	6.217	45	162350	13.671	ppbV	98
16) acrylonitrile	6.480	53	31482	4.315	ppbV	96
17) 1,1-dichloroethene	6.882	61	64397	4.525	ppbV	98
18) tertiary butyl alcohol	6.948	59	89543	5.565	ppbV	95
19) methylene chloride	7.044	49	43548	4.635	ppbV	92
20) 3-chloropropene	7.188	41	64937	5.684	ppbV #	95
21) carbon disulfide	7.344	76	104433	5.398	ppbV #	84
22) Freon 113	7.380	101	75014	4.967	ppbV #	92
23) trans-1,2-dichloroethene	8.183	61	70354	4.544	ppbV	96
24) 1,1-dichloroethane	8.417	63	87317	4.881	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529902_Ev2.D
 Acq On : 22 Dec 2021 3:07 PM
 Operator : AIRLAB15:TS
 Sample : CT015-SIMSTD5.0
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:40:04 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.500	73	100895	4.830	ppbV	98
26) vinyl acetate	8.633	43	79553	4.352	ppbV	98
27) 2-butanone	8.900	43	102450	5.056	ppbV	97
28) cis-1,2-dichloroethene	9.417	61	70322	4.958	ppbV	96
29) Ethyl Acetate	9.717	61	19032	5.240	ppbV	97
30) chloroform	9.775	83	79624	4.501	ppbV	97
31) Tetrahydrofuran	10.217	42	63558	5.104	ppbV	96
32) 1,2-dichloroethane	10.625	62	55890	4.459	ppbV	99
34) hexane	9.683	57	95486	4.549	ppbV	97
36) 1,1,1-trichloroethane	10.917	97	66874	4.588	ppbV	98
37) benzene	11.443	78	150523	3.996	ppbV	98
38) carbon tetrachloride	11.623	117	58411	4.341	ppbV	95
39) cyclohexane	11.763	56	103624	4.575	ppbV	94
40) Dibromomethane	12.370	93	47444	4.033	ppbV #	93
41) 1,2-dichloropropane	12.403	63	62505	4.778	ppbV	97
42) bromodichloromethane	12.637	83	82667	4.567	ppbV	99
43) 1,4-dioxane	12.677	88	45409	5.654	ppbV	96
44) trichloroethene	12.683	130	65000	4.761	ppbV	95
45) 2,2,4-trimethylpentane	12.730	57	323389M6	4.636	ppbV	
46) heptane	13.050	43	105230	4.631	ppbV	96
47) cis-1,3-dichloropropene	14.317	75	57103	4.555	ppbV	92
48) 4-methyl-2-pentanone	13.733	43	132060	5.288	ppbV	96
49) trans-1,3-dichloropropene	13.700	75	72765	5.173	ppbV	91
50) 1,1,2-trichloroethane	14.517	97	58845	4.858	ppbV	97
52) toluene	14.833	91	191357	4.337	ppbV	99
54) 2-hexanone	15.108	43	124061	5.476	ppbV	95
55) dibromochloromethane	15.275	129	80122	5.210	ppbV	99
56) 1,2-dibromoethane	15.525	107	81064	4.995	ppbV	96
57) tetrachloroethene	15.992	166	65860	4.675	ppbV	97
58) 1,1,1,2-tetrachloroethane	16.617	131	58643	4.700	ppbV	98
59) chlorobenzene	16.633	112	139962	4.812	ppbV	93
60) ethylbenzene	16.975	91	246172	5.080	ppbV	97
61) m+p-xylene	17.133	91	400198	10.141	ppbV	99
62) bromoform	17.200	173	62078	5.398	ppbV	99
63) styrene	17.450	104	141473	5.272	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.533	83	145764	4.905	ppbV	99
65) o-xylene	17.542	91	203495	5.172	ppbV	99
66) 1,2,3-Trichloropropane	17.650	75	97233	4.431	ppbV	93
68) isopropylbenzene	18.042	105	226705	4.782	ppbV	97
69) Bromobenzene	18.117	77	128875	4.490	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\
 Data File : r1529902_Ev2.D
 Acq On : 22 Dec 2021 3:07 PM
 Operator : AIRLAB15:TS
 Sample : CT015-SIMSTD5.0
 Misc : WG1587796
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 27 10:40:04 2021
 Quant Method : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2021\12\1222SIM_I\r1529894_Ev2.D
 Sub List : Default-ICV-AP2 - All compounds listed

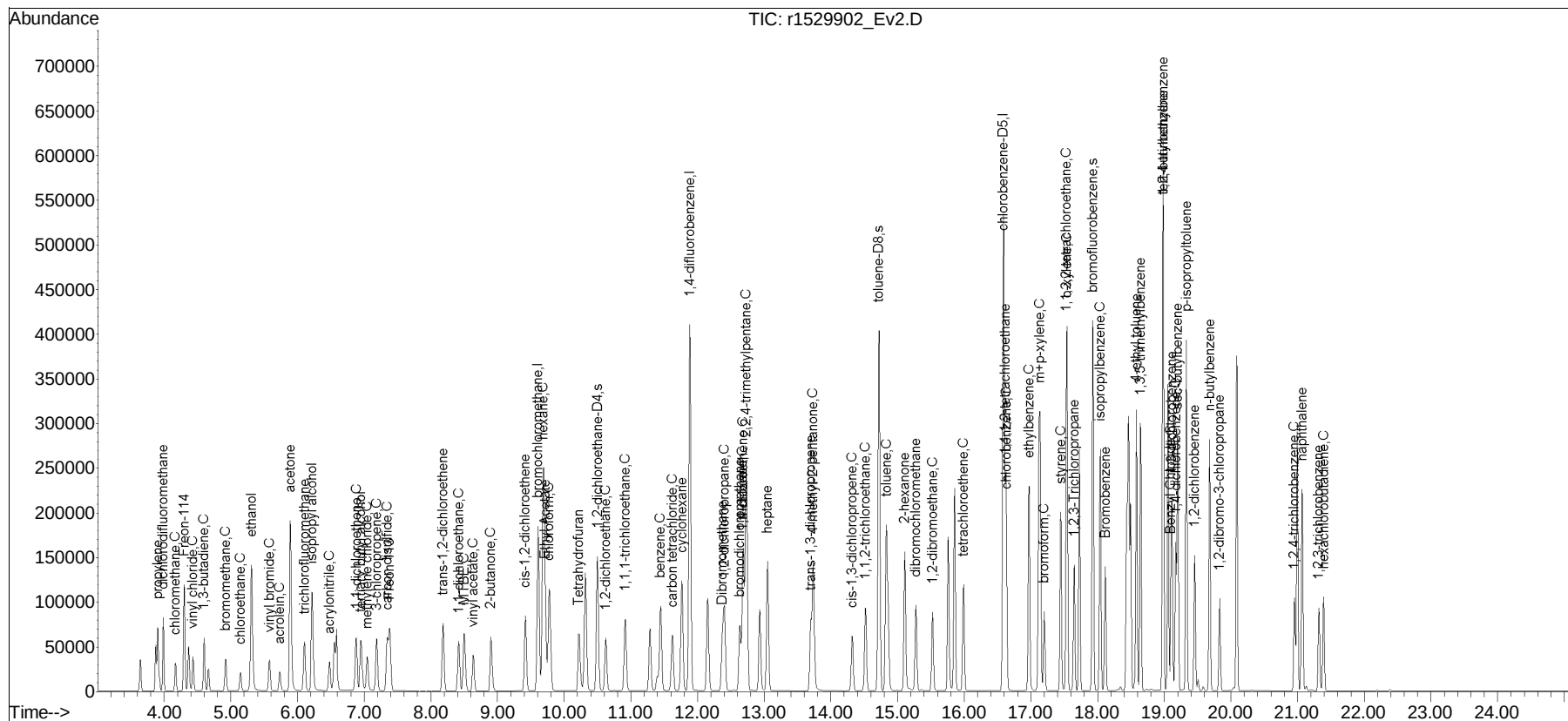
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.583	105	242110	5.042	ppbV	99
71) 1,3,5-trimethylbenzene	18.642	105	213470	5.226	ppbV	100
72) tert-butylbenzene	18.982	119	240273	4.942	ppbV	96
73) 1,2,4-trimethylbenzene	18.982	105	218376	5.367	ppbV	97
74) Benzyl Chloride	19.098	91	118351	4.898	ppbV	96
75) 1,3-dichlorobenzene	19.115	146	143303	5.242	ppbV	98
76) 1,4-dichlorobenzene	19.173	146	139035	5.146	ppbV	98
77) sec-butylbenzene	19.198	105	292045	4.833	ppbV	100
78) p-isopropyltoluene	19.332	119	273357	4.662	ppbV	99
79) 1,2-dichlorobenzene	19.457	146	134973	5.263	ppbV	97
80) n-butylbenzene	19.682	91	275781	5.147	ppbV	96
81) 1,2-dibromo-3-chloropr...	19.832	75	52227	4.979	ppbV	90
82) 1,2,4-trichlorobenzene	20.950	180	108263	6.176	ppbV	96
83) naphthalene	21.067	128	340180M6	6.022	ppbV	
84) 1,2,3-trichlorobenzene	21.317	180	100600	5.856	ppbV	96
85) hexachlorobutadiene	21.392	225	85577	5.571	ppbV	97

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

Sub List : Default-ICV-AP2 - All compounds listed2SIM_I\r1529894_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2021\12\1222SIM_I\
Data File : r1529902_Ev2.D
Acq On : 22 Dec 2021 3:07 PM
Operator : AIRLAB15:TS
Sample : CT015-SIMSTD5.0
Misc : WG1587796
ALS Vial : 0 Sample Multiplier: 1

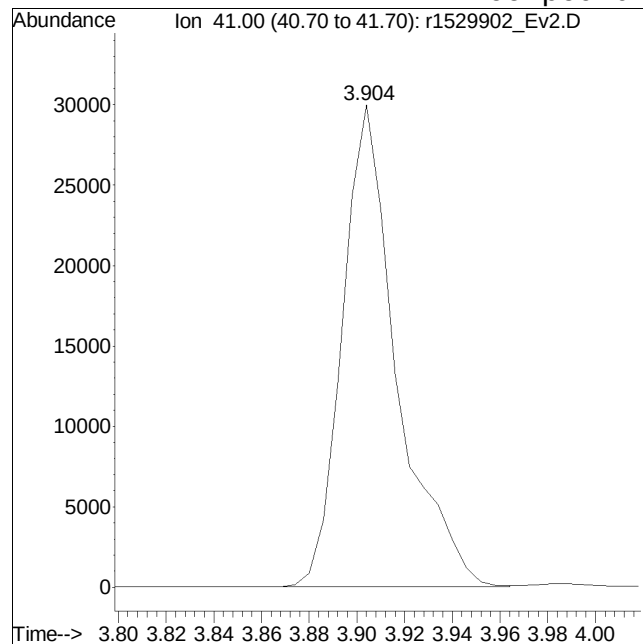
Quant Time: Dec 27 10:40:04 2021
Quant Method : 0:\Forensics\Data\AirLab15\2021\12\1222SIM_I\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Dec 27 10:35:25 2021
Response via : Initial Calibration



Manual Integration Report

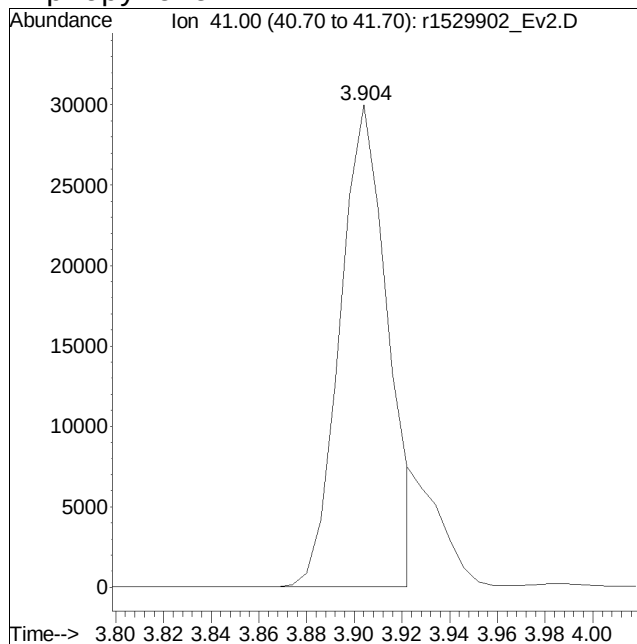
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529902_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:3: 7 Instrument :
Sample : CT015-SIMSTD5.0 Quant Date : 12/27/2021 10:38 am

Compound #2: propylene



Original Peak Response = 47592

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

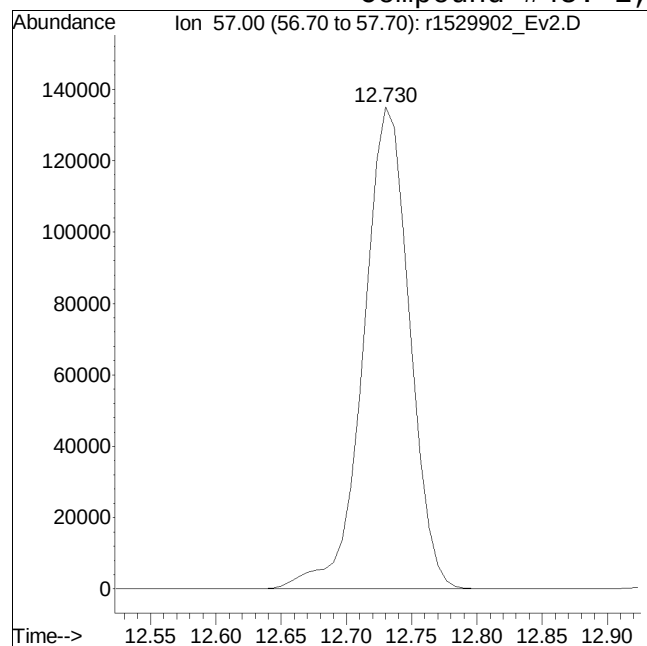


Manual Peak Response = 41928 M6

Manual Integration Report

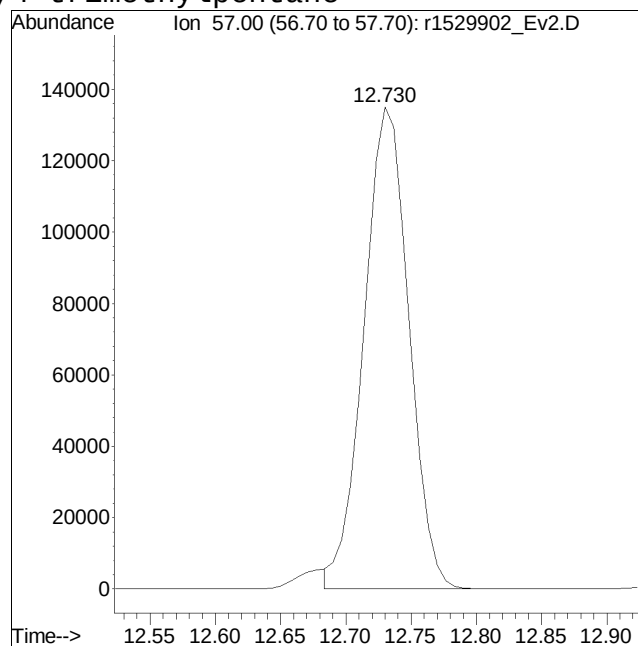
Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529902_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:3: 7 Instrument :
Sample : CT015-SIMSTD5.0 Quant Date : 12/27/2021 10:38 am

Compound #45: 2,2,4-trimethylpentane



Original Peak Response = 332044

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

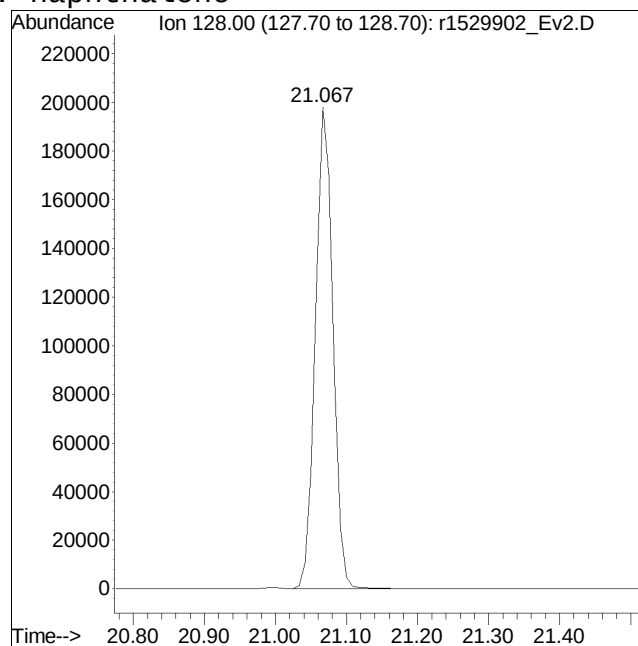
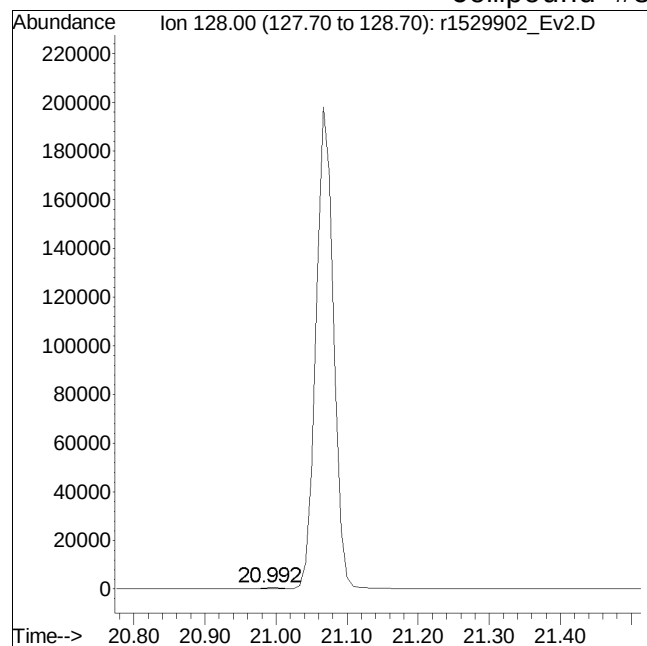


Manual Peak Response = 323389 M6

Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab15QMethod : TSIM15_211222.M
Data File : r1529902_Ev2.D Operator : AIRLAB15:TS
Date Inj'd : 12/22/2020 0:3: 7 Instrument :
Sample : CT015-SIMSTD5.0 Quant Date : 12/27/2021 10:38 am

Compound #83: naphthalene



Original Peak Response = 1116

Manual Peak Response = 340180 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Continuing Calibration

Calibration Verification Summary

Form 7

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC Project Name : FORMER CLEAN ZONE DRY CLEANERS Instrument ID : AIRLAB15 Lab File ID : R1531779_EV2 Sample No : WG1617727-2 Channel :	Lab Number : L2213657 Project Number : 2546.0007Y002 Calibration Date : 03/20/22 13:57 Init. Calib. Date(s) : 12/22/21 12/22/21 Init. Calib. Times : 04:15 10:08
---	---

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	112	-.03
propylene	0.406	0.358	-	11.8	30	106	-.02
dichlorodifluoromethane	0.767	0.6	-	21.8	30	87	-.02
chloromethane	0.373	0.304	-	18.5	30	92	-.02
Freon-114	0.928	0.744	-	19.8	30	91	-.02
vinyl chloride	0.513	0.403	-	21.4	30	91	-.02
1,3-butadiene	0.389	0.34	-	12.6	30	106	-.02
bromomethane	0.388	0.293	-	24.5	30	88	-.02
chloroethane	0.255	0.207	-	18.8	30	96	-.02
ethanol	0.417	0.401	-	3.8	30	108	-.02
vinyl bromide	0.327	0.306	-	6.4	30	111	-.03
acrolein	0.214	0.179	-	16.4	30	100	-.02
acetone	0.554	0.584	-	-5.4	30	125	-.02
trichlorofluoromethane	0.723	0.614	-	15.1	30	99	-.03
isopropyl alcohol	0.597	0.597	-	0	30	119	-.02
acrylonitrile	0.367	0.326	-	11.2	30	106	-.02
1,1-dichloroethene	0.715	0.594	-	16.9	30	97	-.02
tertiary butyl alcohol	0.809	0.717	-	11.4	30	103	-.02
methylene chloride	0.472	0.418	-	11.4	30	100	-.02
3-chloropropene	0.574	0.634	-	-10.5	30	130	-.02
carbon disulfide	0.973	1.112	-	-14.3	30	134	-.03
Freon 113	0.759	0.695	-	8.4	30	111	-.02
trans-1,2-dichloroethene	0.778	0.642	-	17.5	30	101	-.03
1,1-dichloroethane	0.899	0.753	-	16.2	30	98	-.03
MTBE	1.05	0.832	-	20.8	30	94	-.03
vinyl acetate	0.919	0.764	-	16.9	30	102	-.03
2-butanone	1.019	0.891	-	12.6	30	105	-.03
cis-1,2-dichloroethene	0.713	0.557	-	21.9	30	91	-.02
Ethyl Acetate	0.183	0.178	-	2.7	30	115	-.03
chloroform	0.889	0.714	-	19.7	30	95	-.03
Tetrahydrofuran	0.626	0.518	-	17.3	30	98	-.03
1,2-dichloroethane	0.63	0.492	-	21.9	30	95	-.03
1,4-difluorobenzene	1	1	-	0	30	107	-.03
hexane	0.42	0.403	-	4	30	108	-.03
1,1,1-trichloroethane	0.292	0.256	-	12.3	30	99	-.02
benzene	0.755	0.561	-	25.7	30	92	-.03
carbon tetrachloride	0.27	0.231	-	14.4	30	96	-.02
cyclohexane	0.454	0.413	-	9	30	103	-.03
Dibromomethane	0.236	0.2	-	15.3	30	105	-.03
1,2-dichloropropane	0.262	0.228	-	13	30	99	-.03
bromodichloromethane	0.363	0.361	-	0.6	30	109	-.02
1,4-dioxane	0.161	0.148	-	8.1	30	102	-.02
trichloroethene	0.274	0.232	-	15.3	30	94	-.03

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2213657
Project Name : FORMER CLEAN ZONE DRY CLEANERS	Project Number : 2546.0007Y002
Instrument ID : AIRLAB15	Calibration Date : 03/20/22 13:57
Lab File ID : R1531779_EV2	Init. Calib. Date(s) : 12/22/21 12/22/21
Sample No : WG1617727-2	Init. Calib. Times : 04:15 10:08
Channel :	

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	1.397	1.398	-	-0.1	30	113	-.03
heptane	0.455	0.437	-	4	30	107	-.02
cis-1,3-dichloropropene	0.251	0.189	-	24.7	30	77	-.02
4-methyl-2-pentanone	0.5	0.491	-	1.8	30	108	-.02
trans-1,3-dichloropropene	0.282	0.241	-	14.5	30	91	-.02
1,1,2-trichloroethane	0.243	0.218	-	10.3	30	102	-.02
chlorobenzene-D5	1	1	-	0	30	105	0
toluene	3.984	2.996	-	24.8	30	92	-.02
2-hexanone	2.046	1.922	-	6.1	30	103	-.02
dibromochloromethane	1.388	1.486	-	-7.1	30	113	-.02
1,2-dibromoethane	1.465	1.29	-	11.9	30	94	-.02
tetrachloroethene	1.272	1.061	-	16.6	30	92	0
1,1,1,2-tetrachloroethane	1.127	1.068	-	5.2	30	103	-.02
chlorobenzene	2.626	2.241	-	14.7	30	94	0
ethylbenzene	4.376	3.606	-	17.6	30	88	0
m+p-xylene	3.563	3.081	-	13.5	30	91	-.02
bromoform	1.038	1.18	-	-13.7	30	118	-.02
styrene	2.423	2.099	-	13.4	30	89	0
1,1,2,2-tetrachloroethane	2.683	2.409	-	10.2	30	95	0
o-xylene	3.553	3.169	-	10.8	30	93	0
1,2,3-Trichloropropane	1.981	1.814	-	8.4	30	103	-.02
isopropylbenzene	4.28	4.147	-	3.1	30	106	0
Bromobenzene	2.592	2.35	-	9.3	30	101	0
4-ethyl toluene	4.336	4.3	-	0.8	30	105	0
1,3,5-trimethylbenzene	3.688	3.402	-	7.8	30	95	0
tert-butylbenzene	4.39	4.006	-	8.7	30	96	0
1,2,4-trimethylbenzene	3.674	3.468	-	5.6	30	98	0
Benzyl Chloride	2.182	2.574	-	-18	30	131	0
1,3-dichlorobenzene	2.468	2.331	-	5.6	30	100	0
1,4-dichlorobenzene	2.439	2.272	-	6.8	30	98	0
sec-butylbenzene	5.456	5.366	-	1.6	30	106	0
p-isopropyltoluene	5.295	4.408	-	16.8	30	87	0
1,2-dichlorobenzene	2.316	2.146	-	7.3	30	98	.02
n-butylbenzene	4.838	4.69	-	3.1	30	103	.02
1,2-dibromo-3-chloropropan	0.947	1.013	-	-7	30	107	.03
1,2,4-trichlorobenzene	1.583	1.388	-	12.3	30	84	.03
naphthalene	5.101	5.349	-	-4.9	30	102	.03
1,2,3-trichlorobenzene	1.551	1.614	-	-4.1	30	101	.03
hexachlorobutadiene	1.387	1.222	-	11.9	30	86	.02

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531779_Ev2.D
 Acq On : 20 Mar 2022 1:57 PM
 Operator : AIRLAB15:RY
 Sample : WG1617727-2,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:32:52 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	112	-0.03
2	propylene	0.406	0.358	11.8	106	-0.02
3	dichlorodifluoromethane	0.767	0.600	21.8	87	-0.02
4 C	chloromethane	0.373	0.304	18.5	92	-0.02
5	Freon-114	0.928	0.744	19.8	91	-0.02
6 C	vinyl chloride	0.513	0.403	21.4	91	-0.02
7 C	1,3-butadiene	0.389	0.340	12.6	106	-0.02
8 C	bromomethane	0.388	0.293	24.5	88	-0.02
9 C	chloroethane	0.255	0.207	18.8	96	-0.02
10	ethanol	0.417	0.401	3.8	108	-0.02
11 C	vinyl bromide	0.327	0.306	6.4	111	-0.03
12 C	acrolein	0.214	0.179	16.4	100	-0.02
13	acetone	0.554	0.584	-5.4	125	-0.02
14	trichlorofluoromethane	0.723	0.614	15.1	99	-0.03
15	isopropyl alcohol	0.597	0.597	0.0	119	-0.02
16 C	acrylonitrile	0.367	0.326	11.2	106	-0.02
17 C	1,1-dichloroethene	0.715	0.594	16.9	97	-0.02
18	tertiary butyl alcohol	0.809	0.717	11.4	103	-0.02
19 C	methylene chloride	0.472	0.418	11.4	100	-0.02
20 C	3-chloropropene	0.574	0.634	-10.5	130	-0.02
21 C	carbon disulfide	0.973	1.112	-14.3	134	-0.03
22	Freon 113	0.759	0.695	8.4	111	-0.02
23	trans-1,2-dichloroethene	0.778	0.642	17.5	101	-0.03
24 C	1,1-dichloroethane	0.899	0.753	16.2	98	-0.03
25 C	MTBE	1.050	0.832	20.8	94	-0.03
26 C	vinyl acetate	0.919	0.764	16.9	102	-0.03
27 C	2-butanone	1.019	0.891	12.6	105	-0.03
28	cis-1,2-dichloroethene	0.713	0.557	21.9	91	-0.02
29	Ethyl Acetate	0.183	0.178	2.7	115	-0.03
30 C	chloroform	0.889	0.714	19.7	95	-0.03
31	Tetrahydrofuran	0.626	0.518	17.3	98	-0.03
32 C	1,2-dichloroethane	0.630	0.492	21.9	95	-0.03
33 I	1,4-difluorobenzene	1.000	1.000	0.0	107	-0.03
34 C	hexane	0.420	0.403	4.0	108	-0.03
36 C	1,1,1-trichloroethane	0.292	0.256	12.3	99	-0.02
37 C	benzene	0.755	0.561	25.7	92	-0.03
38 C	carbon tetrachloride	0.270	0.231	14.4	96	-0.02
39	cyclohexane	0.454	0.413	9.0	103	-0.03

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531779_Ev2.D
 Acq On : 20 Mar 2022 1:57 PM
 Operator : AIRLAB15:RY
 Sample : WG1617727-2,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:32:52 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	Dibromomethane	0.236	0.200	15.3	105	-0.03
41 C	1,2-dichloropropane	0.262	0.228	13.0	99	-0.03
42	bromodichloromethane	0.363	0.361	0.6	109	-0.02
43 C	1,4-dioxane	0.161	0.148	8.1	102	-0.02
44 C	trichloroethene	0.274	0.232	15.3	94	-0.03
45 C	2,2,4-trimethylpentane	1.397	1.398	-0.1	113	-0.03
46	heptane	0.455	0.437	4.0	107	-0.02
47 C	cis-1,3-dichloropropene	0.251	0.189	24.7	77	-0.02
48 C	4-methyl-2-pentanone	0.500	0.491	1.8	108	-0.02
49	trans-1,3-dichloropropene	0.282	0.241	14.5	91	-0.02
50 C	1,1,2-trichloroethane	0.243	0.218	10.3	102	-0.02
51 I	chlorobenzene-D5	1.000	1.000	0.0	105	0.00
52 C	toluene	3.984	2.996	24.8	92	-0.02
54	2-hexanone	2.046	1.922	6.1	103	-0.02
55	dibromochloromethane	1.388	1.486	-7.1	113	-0.02
56 C	1,2-dibromoethane	1.465	1.290	11.9	94	-0.02
57 C	tetrachloroethene	1.272	1.061	16.6	92	0.00
58	1,1,1,2-tetrachloroethane	1.127	1.068	5.2	103	-0.02
59 C	chlorobenzene	2.626	2.241	14.7	94	0.00
60 C	ethylbenzene	4.376	3.606	17.6	88	0.00
61 C	m+p-xylene	3.563	3.081	13.5	91	-0.02
62 C	bromoforn	1.038	1.180	-13.7	118	-0.02
63 C	styrene	2.423	2.099	13.4	89	0.00
64 C	1,1,2,2-tetrachloroethane	2.683	2.409	10.2	95	0.00
65 C	o-xylene	3.553	3.169	10.8	93	0.00
66	1,2,3-Trichloropropane	1.981	1.814	8.4	103	-0.02
68 C	isopropylbenzene	4.280	4.147	3.1	106	0.00
69	Bromobenzene	2.592	2.350	9.3	101	0.00
70	4-ethyl toluene	4.336	4.300	0.8	105	0.00
71	1,3,5-trimethylbenzene	3.688	3.402	7.8	95	0.00
72	tert-butylbenzene	4.390	4.006	8.7	96	0.00
73	1,2,4-trimethylbenzene	3.674	3.468	5.6	98	0.00
74 C	Benzyl Chloride	2.182	2.574	-18.0	131	0.00
75	1,3-dichlorobenzene	2.468	2.331	5.6	100	0.00
76 C	1,4-dichlorobenzene	2.439	2.272	6.8	98	0.00
77	sec-butylbenzene	5.456	5.366	1.6	106	0.00
78	p-isopropyltoluene	5.295	4.408	16.8	87	0.00
79	1,2-dichlorobenzene	2.316	2.146	7.3	98	0.02

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531779_Ev2.D
 Acq On : 20 Mar 2022 1:57 PM
 Operator : AIRLAB15:RY
 Sample : WG1617727-2,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:32:52 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	n-butylbenzene	4.838	4.690	3.1	103	0.02
81	1,2-dibromo-3-chloropropane	0.947	1.013	-7.0	107	0.03
82 C	1,2,4-trichlorobenzene	1.583	1.388	12.3	84	0.03
83	naphthalene	5.101	5.349	-4.9	102	0.03
84	1,2,3-trichlorobenzene	1.551	1.614	-4.1	101	0.03
85 C	hexachlorobutadiene	1.387	1.222	11.9	86	0.02

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531779_Ev2.D
 Acq On : 20 Mar 2022 1:57 PM
 Operator : AIRLAB15:RY
 Sample : WG1617727-2,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:32:52 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\r1531779_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.57	49	238569	10.000	ppbV	-0.03
Standard Area = 238569			Recovery	=	100.00%	
33) 1,4-difluorobenzene	11.86	114	552111	10.000	ppbV	-0.03
Standard Area = 552111			Recovery	=	100.00%	
51) chlorobenzene-D5	16.57	54	125385	10.000	ppbV	0.00
Standard Area = 125385			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) propylene	3.87	41	42701M6	4.409	ppbV	
3) dichlorodifluoromethane	3.96	85	71609	3.916	ppbV	100
4) chloromethane	4.14	50	36284	4.077	ppbV	95
5) Freon-114	4.27	85	88699	4.007	ppbV	98
6) vinyl chloride	4.40	62	48070	3.928	ppbV	100
7) 1,3-butadiene	4.57	54	40563	4.376	ppbV	80
8) bromomethane	4.89	94	34894	3.767	ppbV	99
9) chloroethane	5.11	64	24663	4.059	ppbV	98
10) ethanol	5.28	31	238950	24.015	ppbV	96
11) vinyl bromide	5.54	106	36544	4.679	ppbV	97
12) acrolein	5.70	56	21354	4.180	ppbV	99
13) acetone	5.86	43	348280	26.368	ppbV #	96
14) trichlorofluoromethane	6.07	101	73192	4.243	ppbV	99
15) isopropyl alcohol	6.19	45	178174	12.511	ppbV	99
16) acrylonitrile	6.45	53	38832	4.439	ppbV	98
17) 1,1-dichloroethene	6.85	61	70881	4.154	ppbV	99
18) tertiary butyl alcohol	6.92	59	85554	4.434	ppbV #	85
19) methylene chloride	7.01	49	49866	4.426	ppbV	95
20) 3-chloropropene	7.15	41	75622	5.520	ppbV #	94
21) carbon disulfide	7.31	76	132690	5.719	ppbV #	86
22) Freon 113	7.35	101	82913	4.578	ppbV #	96
23) trans-1,2-dichloroethene	8.15	61	76581	4.125	ppbV	96
24) 1,1-dichloroethane	8.38	63	89853	4.189	ppbV	100
25) MTBE	8.47	73	99289	3.964	ppbV	98
26) vinyl acetate	8.61	43	91122	4.157	ppbV	98
27) 2-butanone	8.88	43	106300	4.374	ppbV	97
28) cis-1,2-dichloroethene	9.39	61	66408	3.904	ppbV	90
29) Ethyl Acetate	9.69	61	21237	4.876	ppbV	97
30) chloroform	9.74	83	85196	4.016	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531779_Ev2.D
 Acq On : 20 Mar 2022 1:57 PM
 Operator : AIRLAB15:RY
 Sample : WG1617727-2,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:32:52 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\r1531779_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Tetrahydrofuran	10.19	42	61798	4.138	ppbV	98
32) 1,2-dichloroethane	10.59	62	58708	3.906	ppbV	99
34) hexane	9.65	57	111270	4.793	ppbV	87
36) 1,1,1-trichloroethane	10.89	97	70687	4.385	ppbV	99
37) benzene	11.42	78	154892	3.717	ppbV	100
38) carbon tetrachloride	11.60	117	63678	4.279	ppbV	99
39) cyclohexane	11.74	56	114112	4.555	ppbV	96
40) Dibromomethane	12.34	93	55214	4.244	ppbV #	94
41) 1,2-dichloropropane	12.38	63	62902	4.347	ppbV	97
42) bromodichloromethane	12.61	83	99734	4.981	ppbV	99
43) 1,4-dioxane	12.66	88	40745	4.587	ppbV	97
44) trichloroethene	12.66	130	63958	4.235	ppbV	98
45) 2,2,4-trimethylpentane	12.70	57	385994	5.003	ppbV	98
46) heptane	13.02	43	120596	4.798	ppbV	96
47) cis-1,3-dichloropropene	14.30	75	52212	3.766	ppbV	91
48) 4-methyl-2-pentanone	13.71	43	135478	4.905	ppbV	99
49) trans-1,3-dichloropropene	13.68	75	66394	4.267	ppbV	91
50) 1,1,2-trichloroethane	14.50	97	60196	4.493	ppbV	98
52) toluene	14.81	91	187833	3.760	ppbV	99
54) 2-hexanone	15.09	43	120466	4.697	ppbV	97
55) dibromochloromethane	15.26	129	93190	5.353	ppbV	99
56) 1,2-dibromoethane	15.51	107	80849	4.400	ppbV	98
57) tetrachloroethene	15.98	166	66507	4.170	ppbV	97
58) 1,1,1,2-tetrachloroethane	16.60	131	66928	4.738	ppbV	100
59) chlorobenzene	16.62	112	140498	4.267	ppbV	94
60) ethylbenzene	16.96	91	226044	4.120	ppbV	95
61) m+p-xylene	17.12	91	386250	8.646	ppbV	95
62) bromoform	17.18	173	73989	5.683	ppbV	98
63) styrene	17.43	104	131598	4.331	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.52	83	151001	4.489	ppbV	99
65) o-xylene	17.52	91	198693	4.460	ppbV	97
66) 1,2,3-Trichloropropane	17.63	75	113738	4.579	ppbV	95
68) isopropylbenzene	18.02	105	259997	4.844	ppbV	99
69) Bromobenzene	18.10	77	147354	4.535	ppbV	98
70) 4-ethyl toluene	18.57	105	269582	4.959	ppbV	99
71) 1,3,5-trimethylbenzene	18.63	105	213310	4.613	ppbV	100
72) tert-butylbenzene	18.97	119	251153	4.563	ppbV	99
73) 1,2,4-trimethylbenzene	18.97	105	217433	4.720	ppbV	100
74) Benzyl Chloride	19.09	91	161397	5.900	ppbV	99
75) 1,3-dichlorobenzene	19.11	146	146155	4.723	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531779_Ev2.D
 Acq On : 20 Mar 2022 1:57 PM
 Operator : AIRLAB15:RY
 Sample : WG1617727-2,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:32:52 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\r1531779_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	1,4-dichlorobenzene	19.16	146	142446	4.657	ppbV	96
77)	sec-butylbenzene	19.19	105	336413	4.918	ppbV	99
78)	p-isopropyltoluene	19.32	119	276378	4.163	ppbV	100
79)	1,2-dichlorobenzene	19.45	146	134557	4.635	ppbV	97
80)	n-butylbenzene	19.66	91	294018	4.847	ppbV	99
81)	1,2-dibromo-3-chloropr...	19.82	75	63524	5.349	ppbV	93
82)	1,2,4-trichlorobenzene	20.94	180	86995	4.384	ppbV	97
83)	naphthalene	21.05	128	335373	5.244	ppbV	99
84)	1,2,3-trichlorobenzene	21.31	180	101174	5.202	ppbV	97
85)	hexachlorobutadiene	21.38	225	76602	4.405	ppbV	99

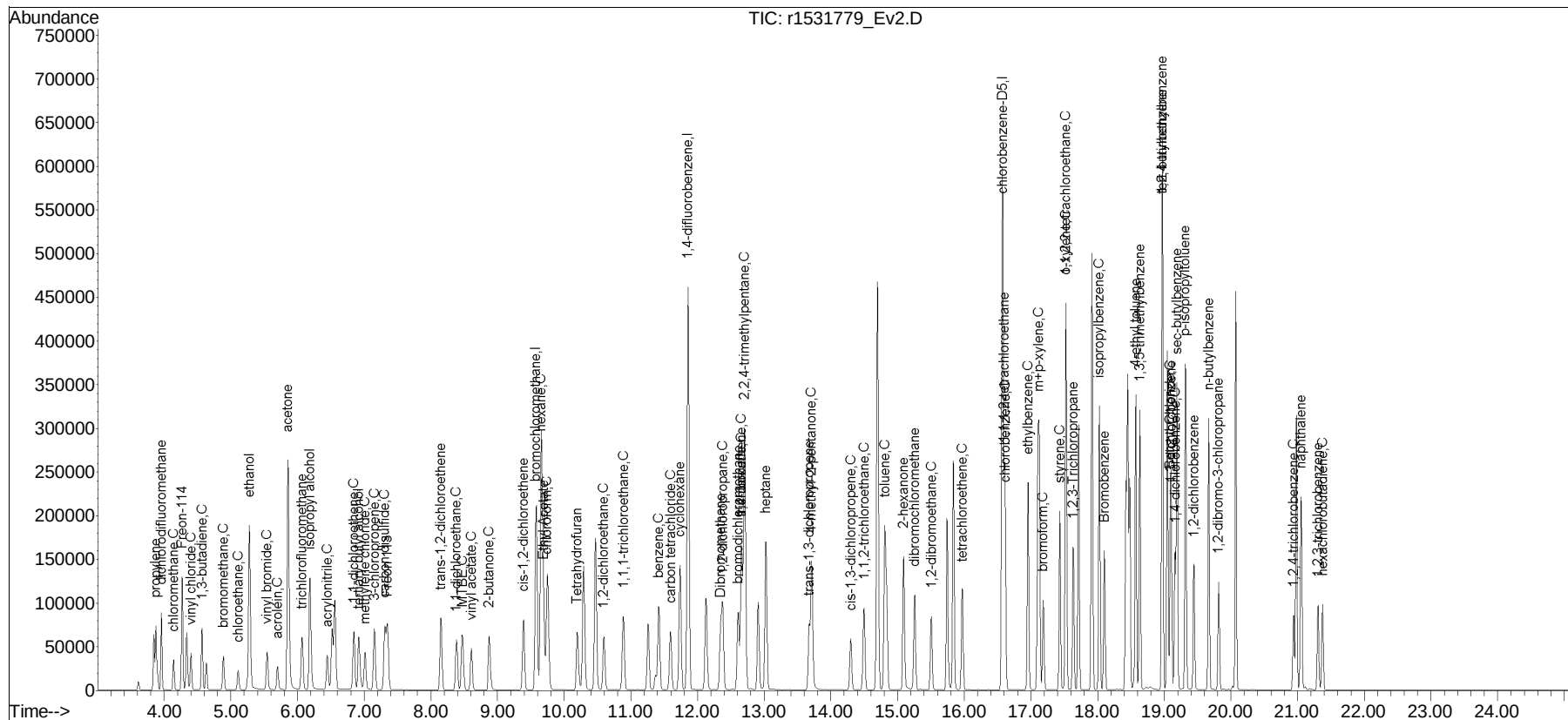
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path   : 0:\Forensics\Data\AirLab15\2022\03\0320SIM\
Data File  : r1531779_Ev2.D
Acq On     : 20 Mar 2022   1:57 PM
Operator   : AIRLAB15:RY
Sample     : WG1617727-2,3,250,250
Misc       : WG1617727,ICAL18601
ALS Vial   : 0   Sample Multiplier: 1
```

Quant Time: Mar 20 14:32:52 2022
Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Dec 27 10:35:25 2021
Response via : Initial Calibration

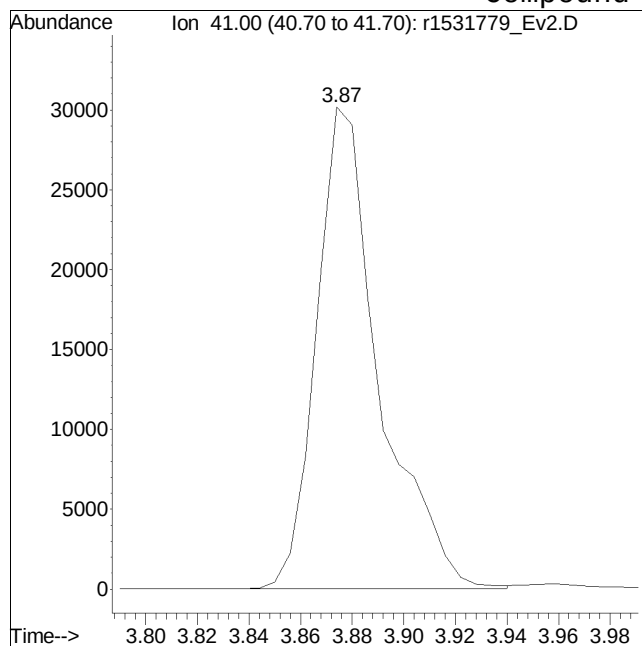
Sub List : Default-LCS-AP2 - All compounds listed@SIM\r1531779_Ev2.D



Manual Integration/Negative Proof Report

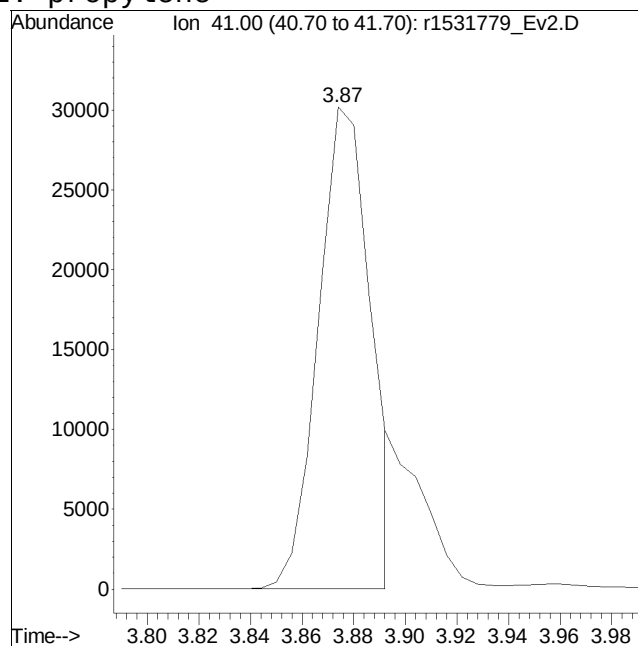
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM15_211222.M
 Data File : r1531779_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 3/20/2020 0:1: 7 Instrument :
 Sample : WG1617727-2,3,250,250 Quant Date : 3/20/2022 1:32 pm

Compound #2: propylene



Original Peak Response = 50885

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



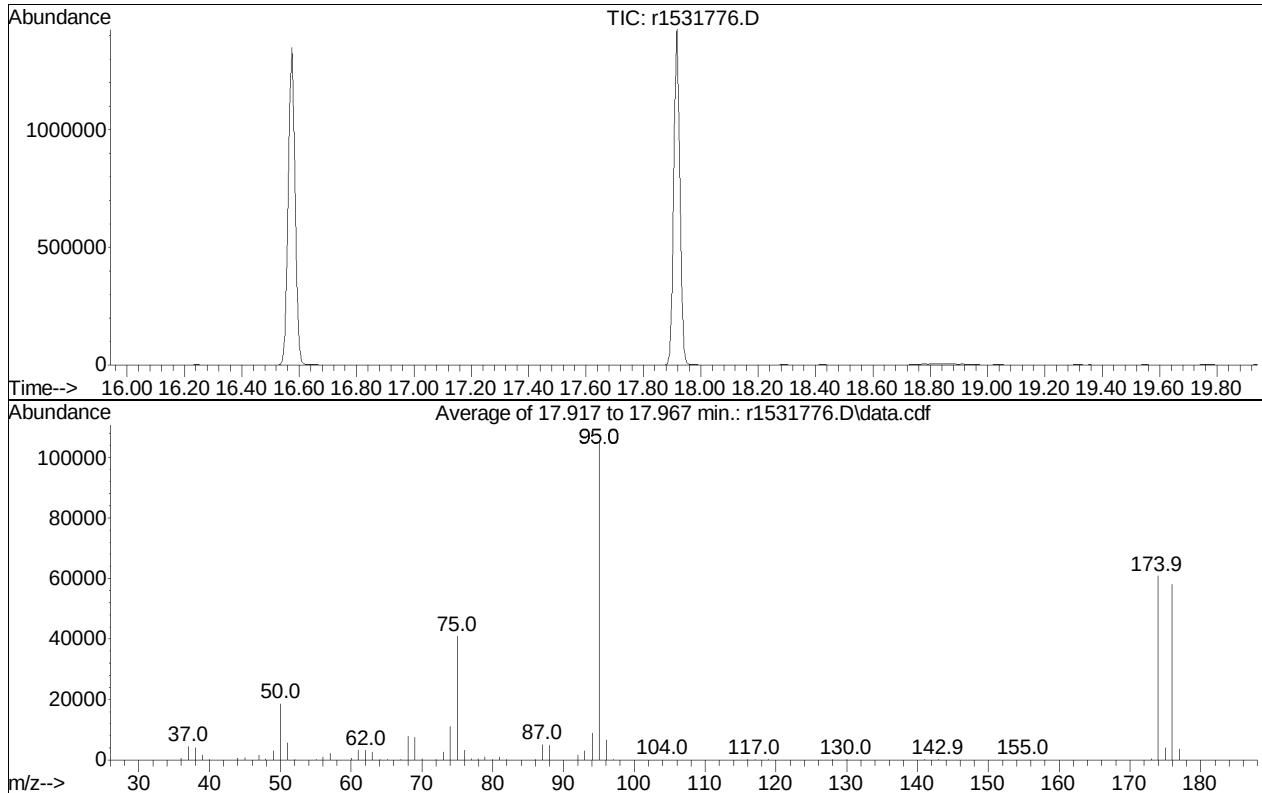
Manual Peak Response = 42701 M6

BFB

Data Path : 0:\Forensics\Data\AirLab15\2022\03\0320SIM\
 Data File : r1531776.D
 Acq On : 20 Mar 2022 11:40 AM
 Operator : AIRLAB15:RY
 Sample : WG1617727-1,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AirLab15\2022\03\0320SIM\TSIM15_211222.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Mon Dec 27 10:35:25 2021



Spectrum Information: Average of 17.917 to 17.967 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.6	18604	PASS
75	95	30	66	38.7	40864	PASS
95	95	100	100	100.0	105517	PASS
96	95	5	9	6.3	6609	PASS
173	174	0.00	2	0.7	412	PASS
174	95	50	120	57.7	60908	PASS
175	174	4	9	6.8	4148	PASS
176	174	93	101	95.3	58019	PASS
177	176	5	9	6.3	3627	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531781_Ev2.D
 Acq On : 20 Mar 2022 3:59 PM
 Operator : AIRLAB15:RY
 Sample : WG1617727-4,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 08:34:04 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\r1531779_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.58	49	241611	10.000	ppbV	-0.02
Standard Area = 238569			Recovery =	101.28%		
33) 1,4-difluorobenzene	11.86	114	524044	10.000	ppbV	-0.02
Standard Area = 552111			Recovery =	94.92%		
51) chlorobenzene-D5	16.57	54	119393	10.000	ppbV	0.00
Standard Area = 125385			Recovery =	95.22%		

System Monitoring Compounds

Target Compounds				Qvalue
6) vinyl chloride	0.00	0	N.D.	
17) 1,1-dichloroethene	0.00	0	N.D.	
28) cis-1,2-dichloroethene	9.50	0	N.D.	
36) 1,1,1-trichloroethane	0.00	0	N.D.	
38) carbon tetrachloride	0.00	0	N.D.	
44) trichloroethene	0.00	0	N.D.	
57) tetrachloroethene	0.00	0	N.D.	

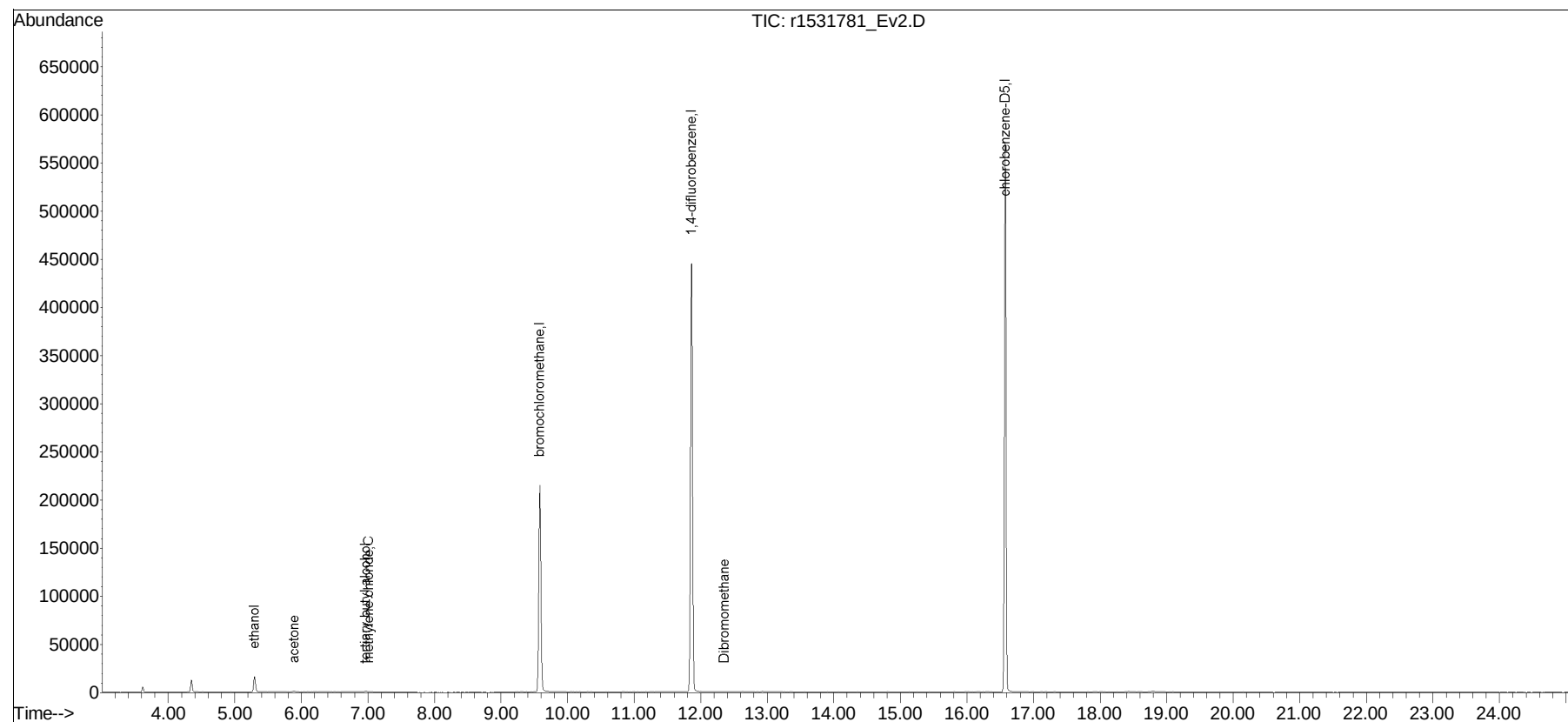
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531781_Ev2.D
 Acq On : 20 Mar 2022 3:59 PM
 Operator : AIRLAB15:RY
 Sample : WG1617727-4,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 08:34:04 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

Sub List : Default-LCS-AP2 - All compounds listed0SIM\r1531779_Ev2.D



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_211222.M
Data File : r1531781_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:3: 9 Instrument :
Sample : WG1617727-4,3,250,250 Quant Date : 3/21/2022 8:34 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531779_Ev2.D
 Acq On : 20 Mar 2022 1:57 PM
 Operator : AIRLAB15:RY
 Sample : WG1617727-3,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:32:52 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	112	-0.03
2	propylene	5.000	4.409	11.8	106	-0.02
3	dichlorodifluoromethane	5.000	3.916	21.7	87	-0.02
4 C	chloromethane	5.000	4.077	18.5	92	-0.02
5	Freon-114	5.000	4.007	19.9	91	-0.02
6 C	vinyl chloride	5.000	3.928	21.4	91	-0.02
7 C	1,3-butadiene	5.000	4.376	12.5	106	-0.02
8 C	bromomethane	5.000	3.767	24.7	88	-0.02
9 C	chloroethane	5.000	4.059	18.8	96	-0.02
10	ethanol	25.000	24.015	3.9	108	-0.02
11 C	vinyl bromide	5.000	4.679	6.4	111	-0.03
12 C	acrolein	5.000	4.180	16.4	100	-0.02
13	acetone	25.000	26.368	-5.5	125	-0.02
14	trichlorofluoromethane	5.000	4.243	15.1	99	-0.03
15	isopropyl alcohol	12.500	12.511	-0.1	119	-0.02
16 C	acrylonitrile	5.000	4.439	11.2	106	-0.02
17 C	1,1-dichloroethene	5.000	4.154	16.9	97	-0.02
18	tertiary butyl alcohol	5.000	4.434	11.3	103	-0.02
19 C	methylene chloride	5.000	4.426	11.5	100	-0.02
20 C	3-chloropropene	5.000	5.520	-10.4	130	-0.02
21 C	carbon disulfide	5.000	5.719	-14.4	134	-0.03
22	Freon 113	5.000	4.578	8.4	111	-0.02
23	trans-1,2-dichloroethene	5.000	4.125	17.5	101	-0.03
24 C	1,1-dichloroethane	5.000	4.189	16.2	98	-0.03
25 C	MTBE	5.000	3.964	20.7	94	-0.03
26 C	vinyl acetate	5.000	4.157	16.9	102	-0.03
27 C	2-butanone	5.000	4.374	12.5	105	-0.03
28	cis-1,2-dichloroethene	5.000	3.904	21.9	91	-0.02
29	Ethyl Acetate	5.000	4.876	2.5	115	-0.03
30 C	chloroform	5.000	4.016	19.7	95	-0.03
31	Tetrahydrofuran	5.000	4.138	17.2	98	-0.03
32 C	1,2-dichloroethane	5.000	3.906	21.9	95	-0.03
33 I	1,4-difluorobenzene	10.000	10.000	0.0	107	-0.03
34 C	hexane	5.000	4.793	4.1	108	-0.03
36 C	1,1,1-trichloroethane	5.000	4.385	12.3	99	-0.02
37 C	benzene	5.000	3.717	25.7	92	-0.03
38 C	carbon tetrachloride	5.000	4.279	14.4	96	-0.02
39	cyclohexane	5.000	4.555	8.9	103	-0.03

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531779_Ev2.D
 Acq On : 20 Mar 2022 1:57 PM
 Operator : AIRLAB15:RY
 Sample : WG1617727-3,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:32:52 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40	Dibromomethane	5.000	4.244	15.1	105	-0.03
41 C	1,2-dichloropropane	5.000	4.347	13.1	99	-0.03
42	bromodichloromethane	5.000	4.981	0.4	109	-0.02
43 C	1,4-dioxane	5.000	4.587	8.3	102	-0.02
44 C	trichloroethene	5.000	4.235	15.3	94	-0.03
45 C	2,2,4-trimethylpentane	5.000	5.003	-0.1	113	-0.03
46	heptane	5.000	4.798	4.0	107	-0.02
47 C	cis-1,3-dichloropropene	5.000	3.766	24.7	77	-0.02
48 C	4-methyl-2-pentanone	5.000	4.905	1.9	108	-0.02
49	trans-1,3-dichloropropene	5.000	4.267	14.7	91	-0.02
50 C	1,1,2-trichloroethane	5.000	4.493	10.1	102	-0.02
51 I	chlorobenzene-D5	10.000	10.000	0.0	105	0.00
52 C	toluene	5.000	3.760	24.8	92	-0.02
54	2-hexanone	5.000	4.697	6.1	103	-0.02
55	dibromochloromethane	5.000	5.353	-7.1	113	-0.02
56 C	1,2-dibromoethane	5.000	4.400	12.0	94	-0.02
57 C	tetrachloroethene	5.000	4.170	16.6	92	0.00
58	1,1,1,2-tetrachloroethane	5.000	4.738	5.2	103	-0.02
59 C	chlorobenzene	5.000	4.267	14.7	94	0.00
60 C	ethylbenzene	5.000	4.120	17.6	88	0.00
61 C	m+p-xylene	10.000	8.646	13.5	91	-0.02
62 C	bromofom	5.000	5.683	-13.7	118	-0.02
63 C	styrene	5.000	4.331	13.4	89	0.00
64 C	1,1,2,2-tetrachloroethane	5.000	4.489	10.2	95	0.00
65 C	o-xylene	5.000	4.460	10.8	93	0.00
66	1,2,3-Trichloropropane	5.000	4.579	8.4	103	-0.02
68 C	isopropylbenzene	5.000	4.844	3.1	106	0.00
69	Bromobenzene	5.000	4.535	9.3	101	0.00
70	4-ethyl toluene	5.000	4.959	0.8	105	0.00
71	1,3,5-trimethylbenzene	5.000	4.613	7.7	95	0.00
72	tert-butylbenzene	5.000	4.563	8.7	96	0.00
73	1,2,4-trimethylbenzene	5.000	4.720	5.6	98	0.00
74 C	Benzyl Chloride	5.000	5.900	-18.0	131	0.00
75	1,3-dichlorobenzene	5.000	4.723	5.5	100	0.00
76 C	1,4-dichlorobenzene	5.000	4.657	6.9	98	0.00
77	sec-butylbenzene	5.000	4.918	1.6	106	0.00
78	p-isopropyltoluene	5.000	4.163	16.7	87	0.00
79	1,2-dichlorobenzene	5.000	4.635	7.3	98	0.02

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531779_Ev2.D
 Acq On : 20 Mar 2022 1:57 PM
 Operator : AIRLAB15:RY
 Sample : WG1617727-3,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:32:52 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
80	n-butylbenzene	5.000	4.847	3.1	103	0.02
81	1,2-dibromo-3-chloropropane	5.000	5.349	-7.0	107	0.03
82 C	1,2,4-trichlorobenzene	5.000	4.384	12.3	84	0.03
83	naphthalene	5.000	5.244	-4.9	102	0.03
84	1,2,3-trichlorobenzene	5.000	5.202	-4.0	101	0.03
85 C	hexachlorobutadiene	5.000	4.405	11.9	86	0.02

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531779_Ev2.D
 Acq On : 20 Mar 2022 1:57 PM
 Operator : AIRLAB15:RY
 Sample : WG1617727-3,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 20 14:32:52 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\r1531779_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.57	49	238569	10.000	ppbV	-0.03
Standard Area = 238569			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.86	114	552111	10.000	ppbV	-0.03
Standard Area = 552111			Recovery = 100.00%			
51) chlorobenzene-D5	16.57	54	125385	10.000	ppbV	0.00
Standard Area = 125385			Recovery = 100.00%			

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.40	62	48070	3.928	ppbV	100
17) 1,1-dichloroethene	6.85	61	70881	4.154	ppbV	99
28) cis-1,2-dichloroethene	9.39	61	66408	3.904	ppbV	90
36) 1,1,1-trichloroethane	10.89	97	70687	4.385	ppbV	99
38) carbon tetrachloride	11.60	117	63678	4.279	ppbV	99
44) trichloroethene	12.66	130	63958	4.235	ppbV	98
57) tetrachloroethene	15.98	166	66507	4.170	ppbV	97

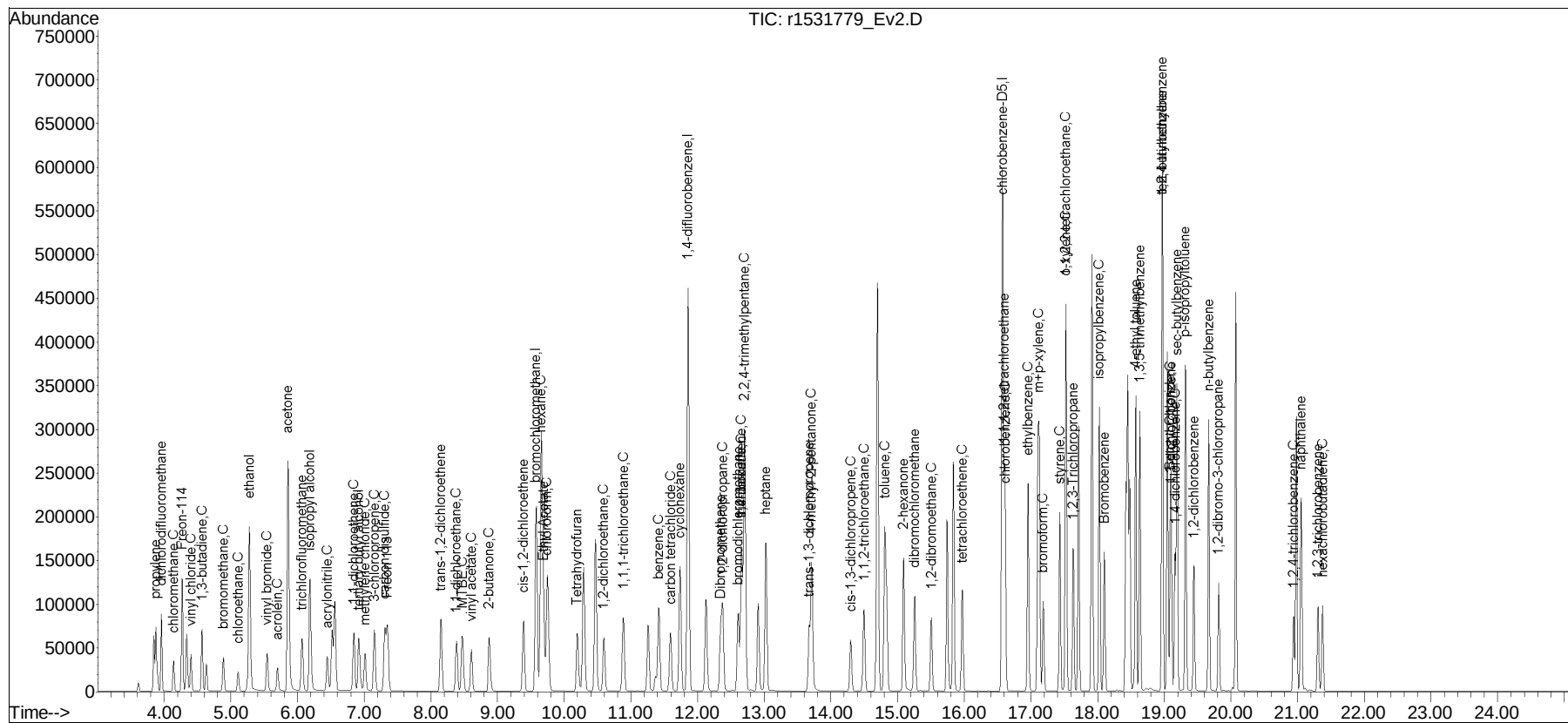
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

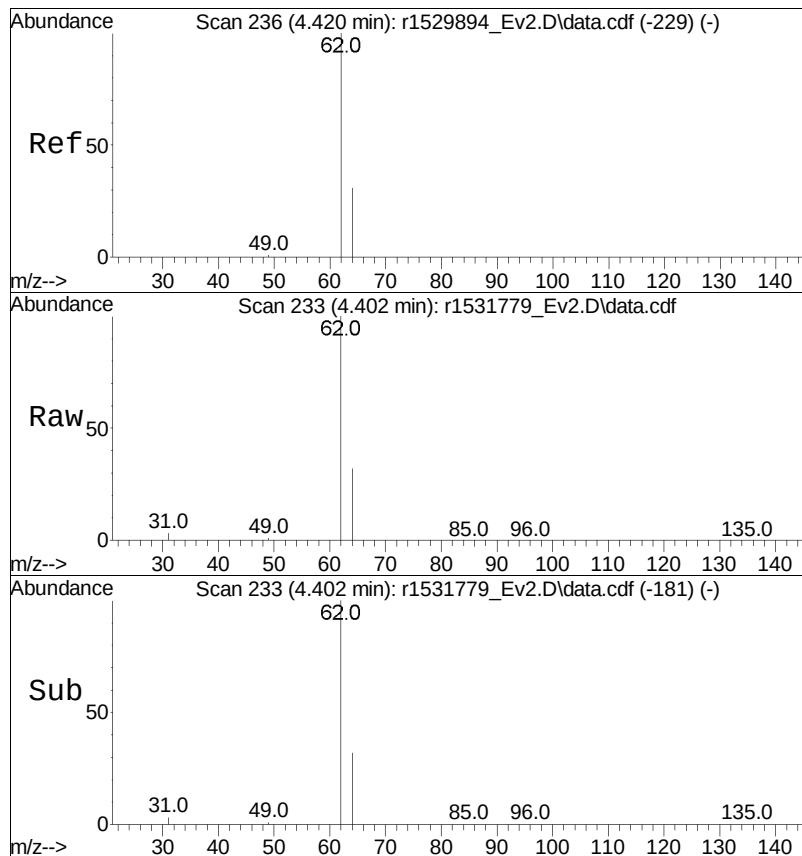
(QT Reviewed)

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Data Path   : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
Data File  : r1531779_Ev2.D
Acq On     : 20 Mar 2022   1:57 PM
Operator   : AIRLAB15:RY
Sample     : WG1617727-3,3,250,250
Misc       : WG1617727,ICAL18601
ALS Vial   : 0    Sample Multiplier: 1
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Quant Time: Mar 20 14:32:52 2022
Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Dec 27 10:35:25 2021
Response via : Initial Calibration

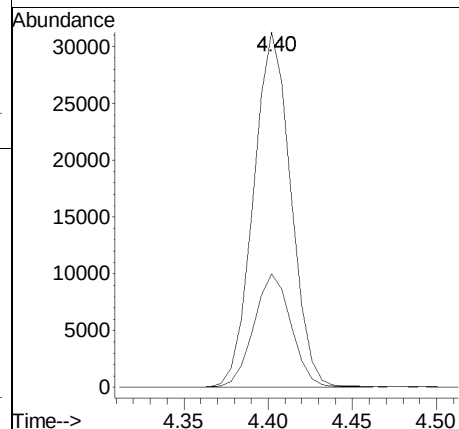
Sub List : Default-LCS-AP2 - All compounds listed@SIM\r1531779_Ev2.D

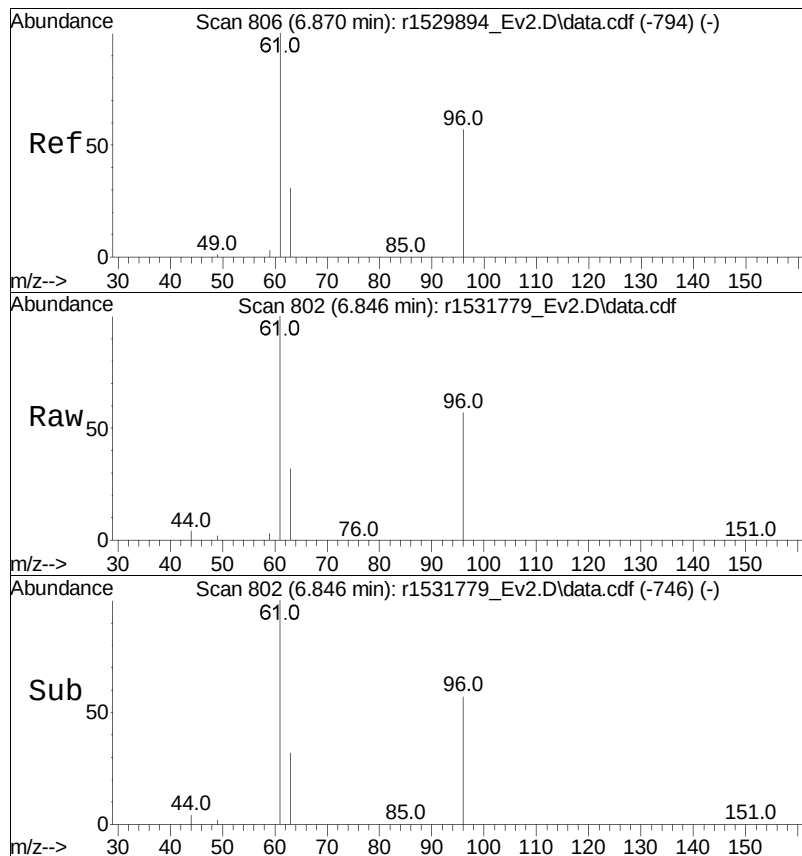




#6
 vinyl chloride
 Concen: 3.93 ppbV
 RT: 4.40 min Scan# 233
 Delta R.T. -0.018 min
 Lab File: r1531779_Ev2.D
 Acq: 20 Mar 2022 1:57 PM

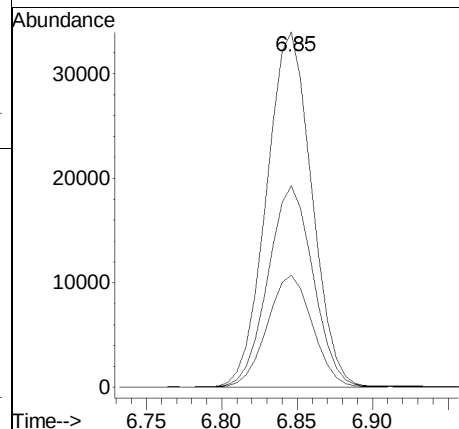
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.7	38.5

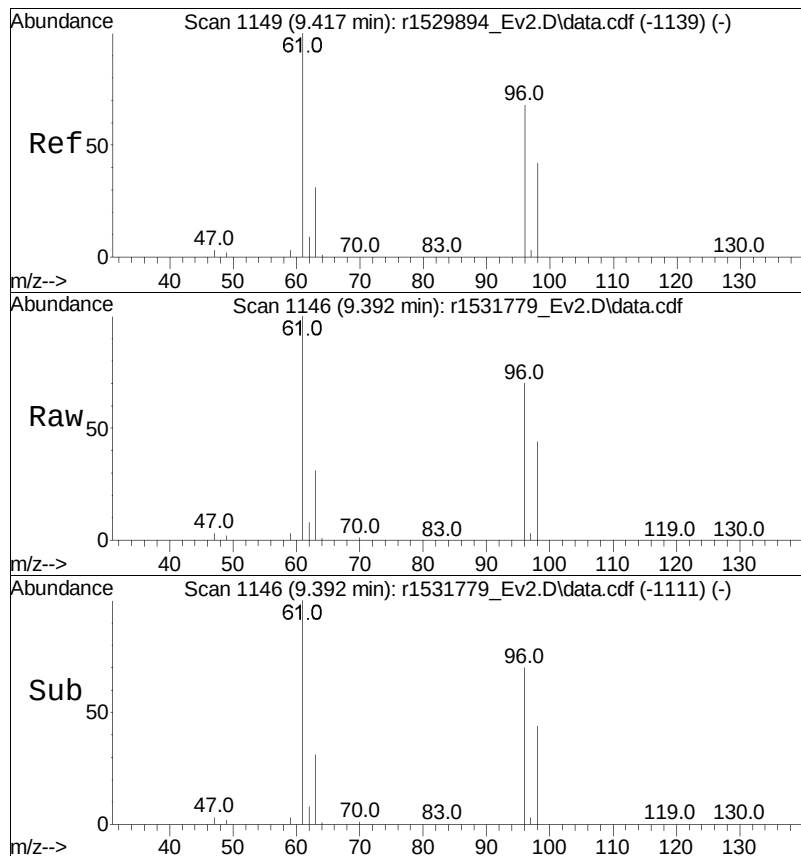




#17
 1,1-dichloroethene
 Concen: 4.15 ppbV
 RT: 6.85 min Scan# 802
 Delta R.T. -0.024 min
 Lab File: r1531779_Ev2.D
 Acq: 20 Mar 2022 1:57 PM

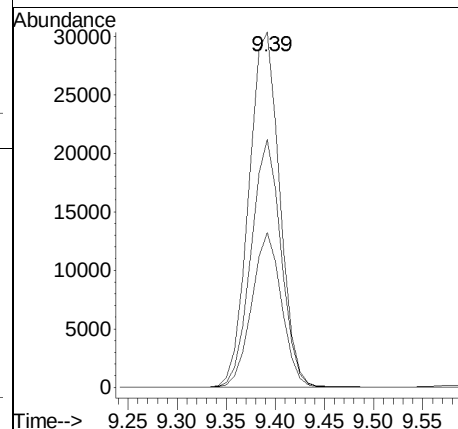
Tgt	Ion: 61	Resp:	70881
Ion	Ratio	Lower	Upper
61	100		
96	56.7	45.1	67.7
63	31.6	25.6	38.4

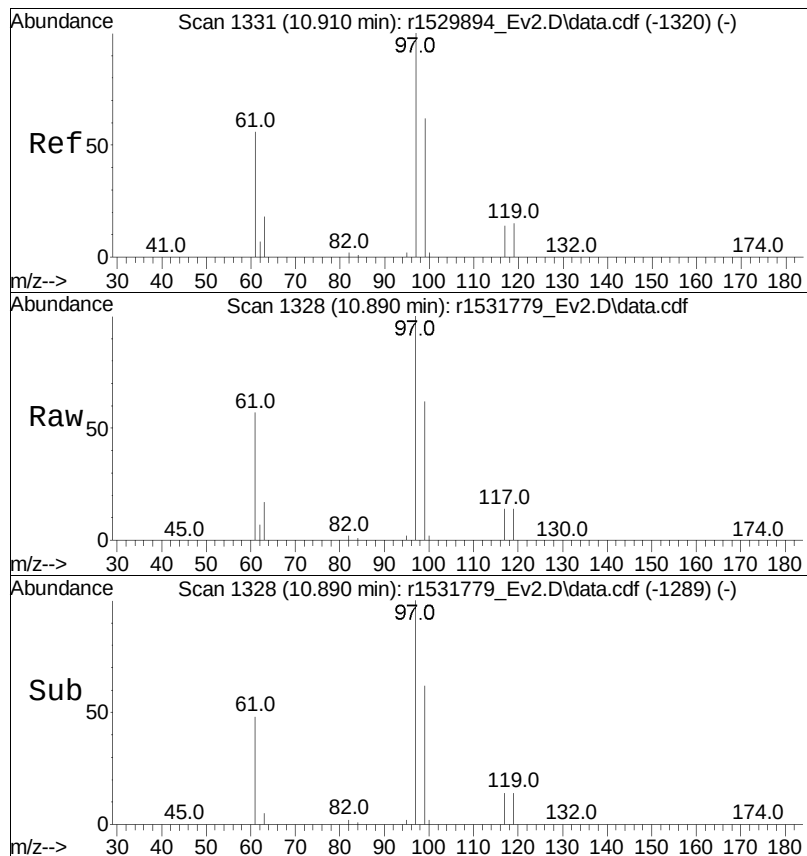




#28
 cis-1,2-dichloroethene
 Concen: 3.90 ppbV
 RT: 9.39 min Scan# 1146
 Delta R.T. -0.025 min
 Lab File: r1531779_Ev2.D
 Acq: 20 Mar 2022 1:57 PM

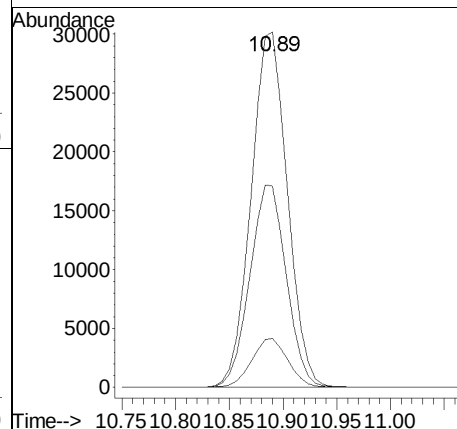
Tgt Ion:	61	Resp:	66408
Ion Ratio	Lower	Upper	
61	100		
96	69.7	49.6	74.4
98	43.6	30.6	46.0

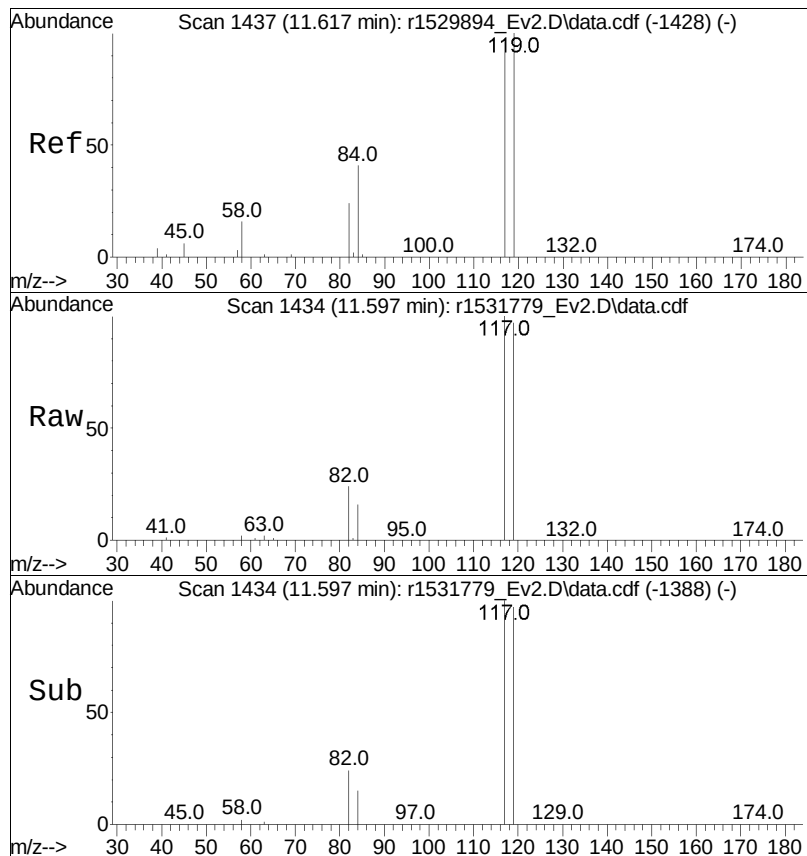




#36
 1,1,1-trichloroethane
 Concen: 4.38 ppbV
 RT: 10.89 min Scan# 1328
 Delta R.T. -0.020 min
 Lab File: r1531779_Ev2.D
 Acq: 20 Mar 2022 1:57 PM

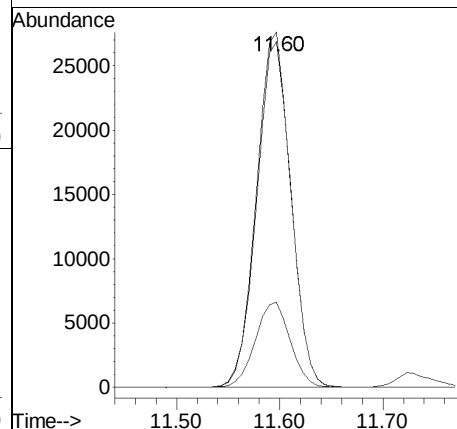
Tgt Ion:	97	Resp:	70687
Ion Ratio	Lower	Upper	
97	100		
61	56.6	45.9	68.9
119	13.8	10.6	15.8

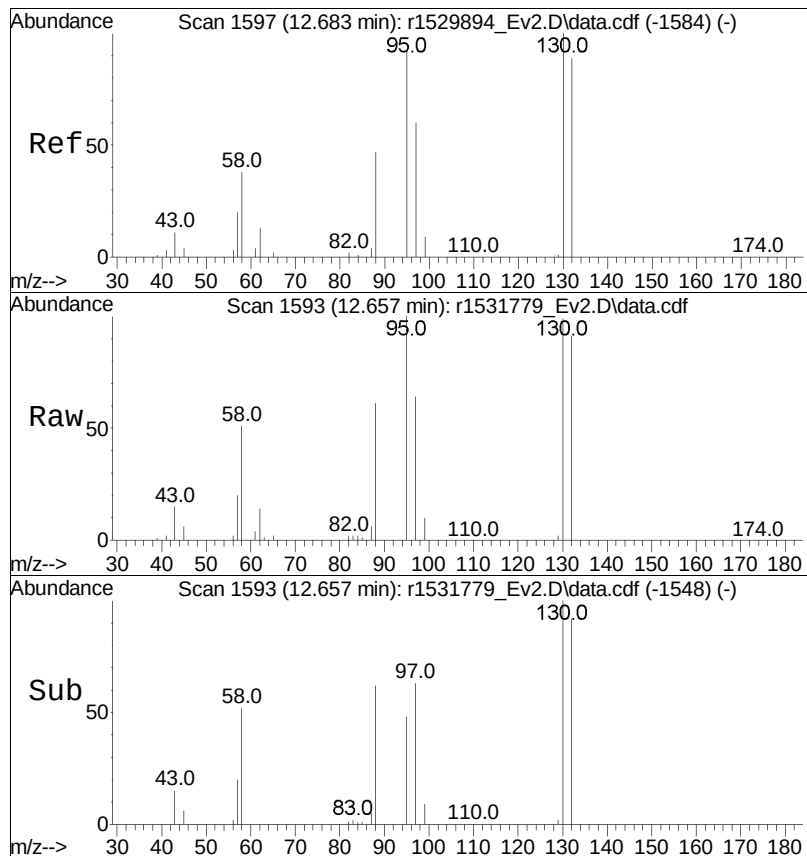




#38
carbon tetrachloride
Concen: 4.28 ppbV
RT: 11.60 min Scan# 1434
Delta R.T. -0.020 min
Lab File: r1531779_Ev2.D
Acq: 20 Mar 2022 1:57 PM

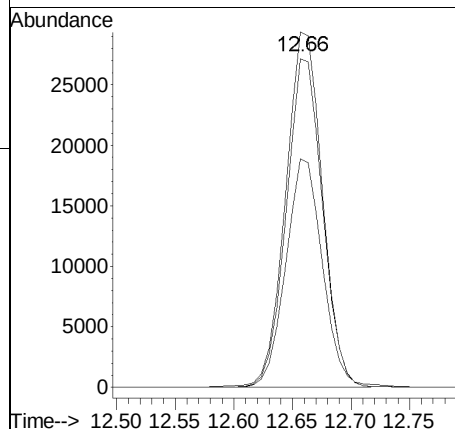
Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.3	78.2	117.4
82	24.0	20.5	30.7

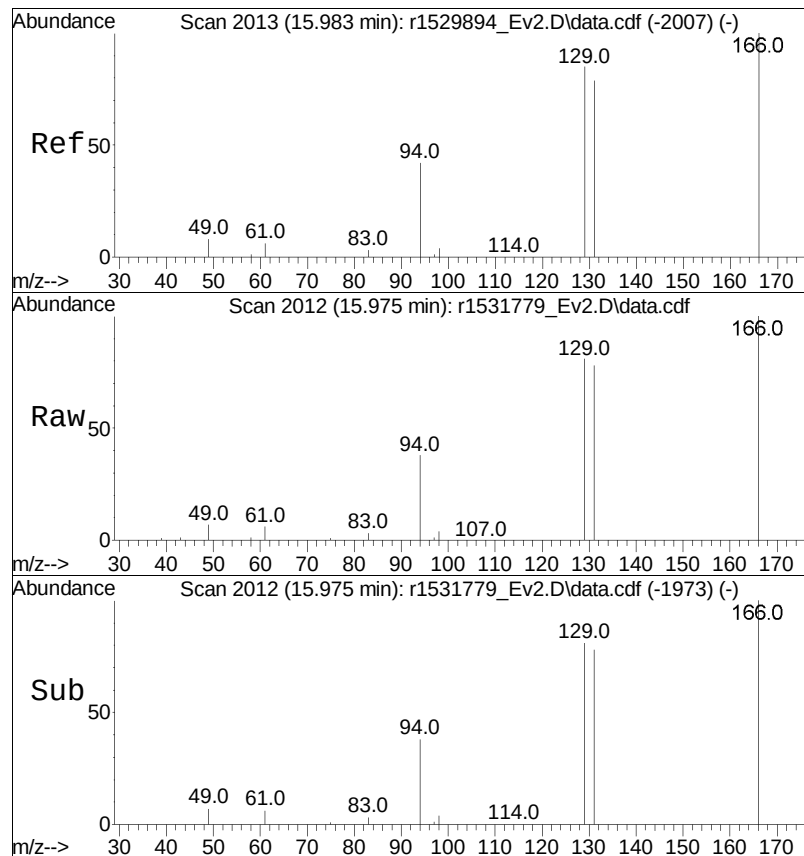




#44
trichloroethene
Concen: 4.24 ppbV
RT: 12.66 min Scan# 1593
Delta R.T. -0.027 min
Lab File: r1531779_Ev2.D
Acq: 20 Mar 2022 1:57 PM

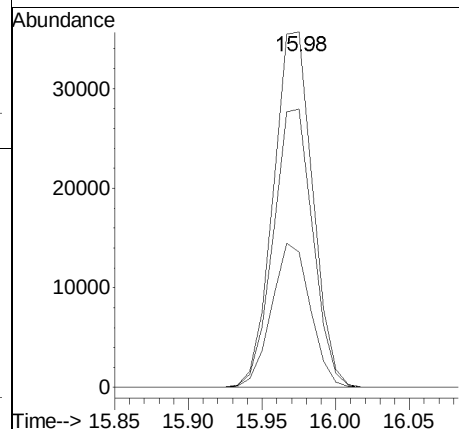
Tgt Ion:	130	Resp:	63958
Ion Ratio	Lower	Upper	
130	100		
132	92.4	76.2	114.4
97	64.3	52.2	78.4





#57
 tetrachloroethene
 Concen: 4.17 ppbV
 RT: 15.98 min Scan# 2012
 Delta R.T. -0.008 min
 Lab File: r1531779_Ev2.D
 Acq: 20 Mar 2022 1:57 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	78.3	64.3	96.5
94	38.1	33.2	49.8



Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
 Data File : r1531790_Ev2.D
 Acq On : 20 Mar 2022 10:25 PM
 Operator : AIRLAB15:RY
 Sample : WG1617727-5,3,250,250
 Misc : WG1617727,ICAL18601
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 08:42:21 2022
 Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Dec 27 10:35:25 2021
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\r1531779_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.57	49	236396	10.000	ppbV	-0.03
Standard Area = 238569			Recovery =		99.09%	
33) 1,4-difluorobenzene	11.86	114	532046	10.000	ppbV	-0.03
Standard Area = 552111			Recovery =		96.37%	
51) chlorobenzene-D5	16.57	54	123487	10.000	ppbV	-0.02
Standard Area = 125385			Recovery =		98.49%	

System Monitoring Compounds

Target Compounds					Qvalue
6) vinyl chloride	0.00		0	N.D.	
17) 1,1-dichloroethene	6.78		0	N.D.	
28) cis-1,2-dichloroethene	0.00		0	N.D.	
36) 1,1,1-trichloroethane	10.95		0	N.D.	
38) carbon tetrachloride	11.59	117	1014	0.071 ppbV #	90
44) trichloroethene	12.66	130	342	0.024 ppbV #	74
57) tetrachloroethene	15.97	166	2541	0.162 ppbV	97

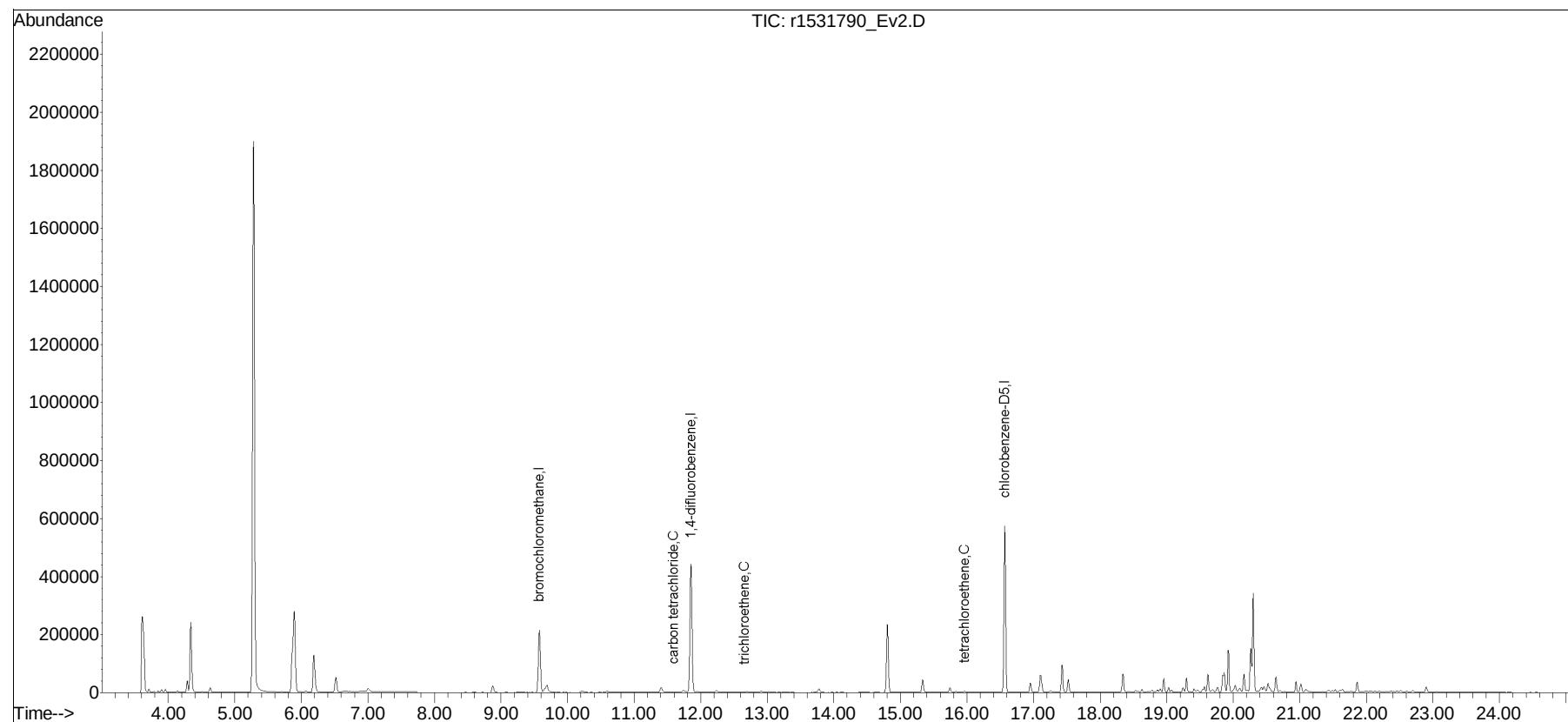
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

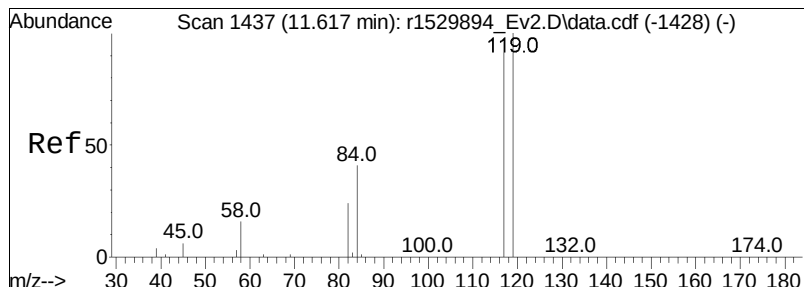
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\
Data File : r1531790_Ev2.D
Acq On : 20 Mar 2022 10:25 PM
Operator : AIRLAB15:RY
Sample : WG1617727-5,3,250,250
Misc : WG1617727,ICAL18601
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 21 08:42:21 2022
Quant Method : 0:\Forensics\Data\Airlab15\2022\03\0320SIM\TSIM15_211222.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Dec 27 10:35:25 2021
Response via : Initial Calibration

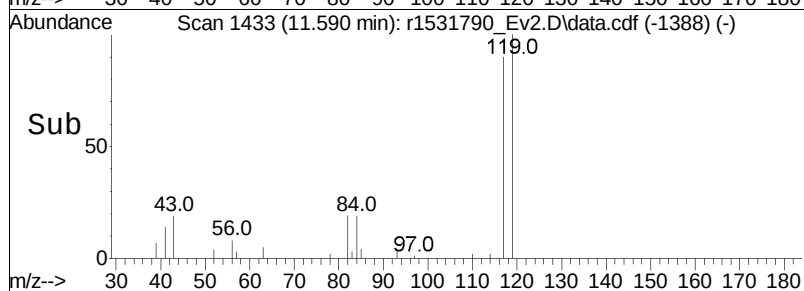
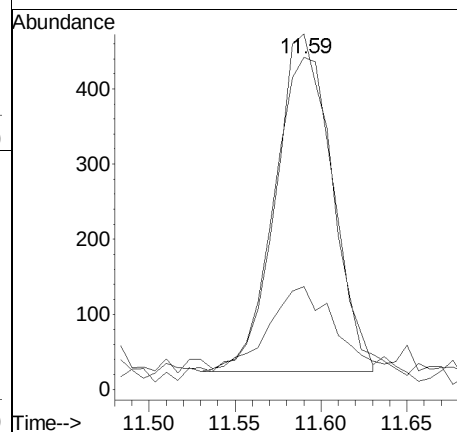
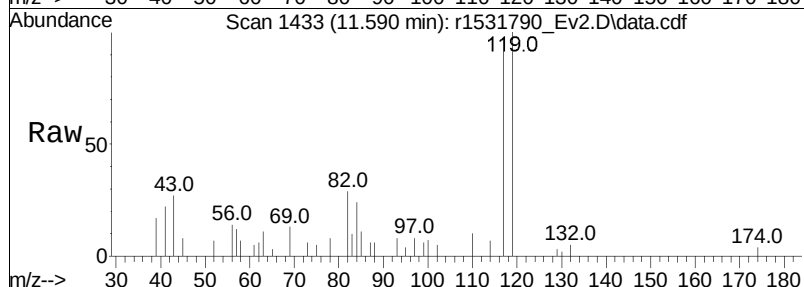
Sub List : 7-NY-SIM - .\Data\Airlab15\2022\03\0320SIM\r1531779_Ev2.D

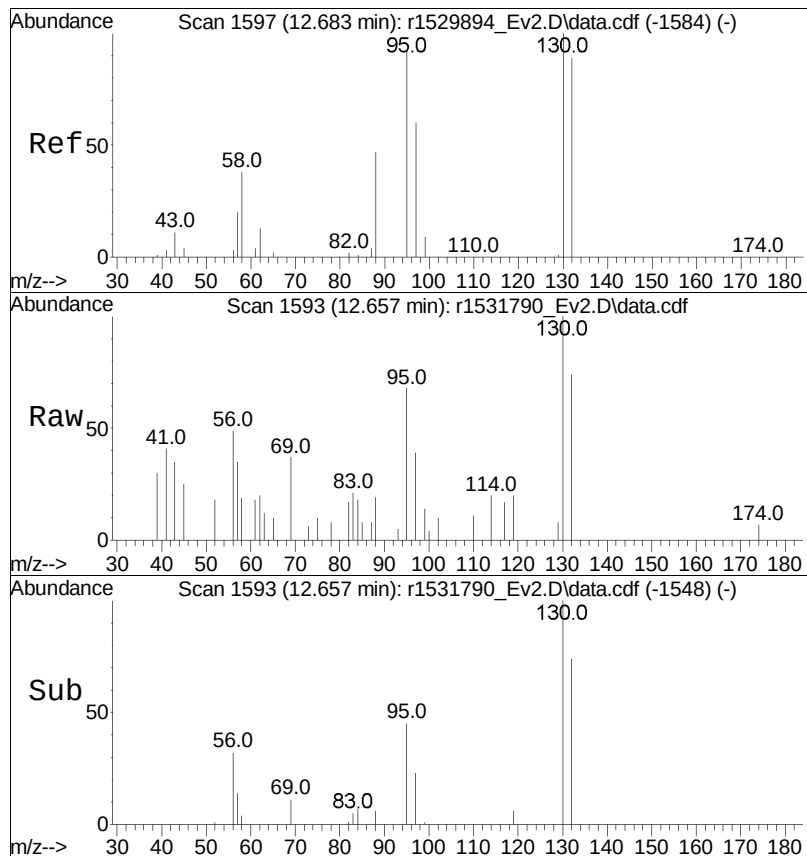




#38
 carbon tetrachloride
 Concen: 0.07 ppbV
 RT: 11.59 min Scan# 1433
 Delta R.T. -0.027 min
 Lab File: r1531790_Ev2.D
 Acq: 20 Mar 2022 10:25 PM

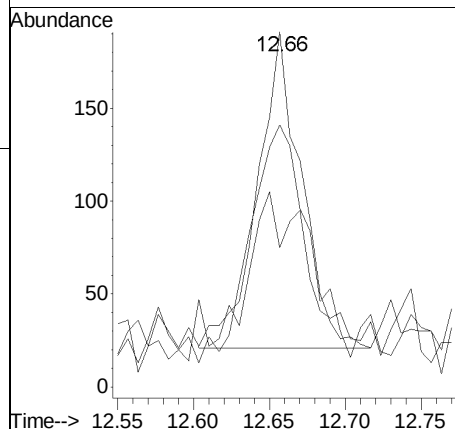
Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	107.0	78.2	117.4	
82	31.0	20.5	30.7#	

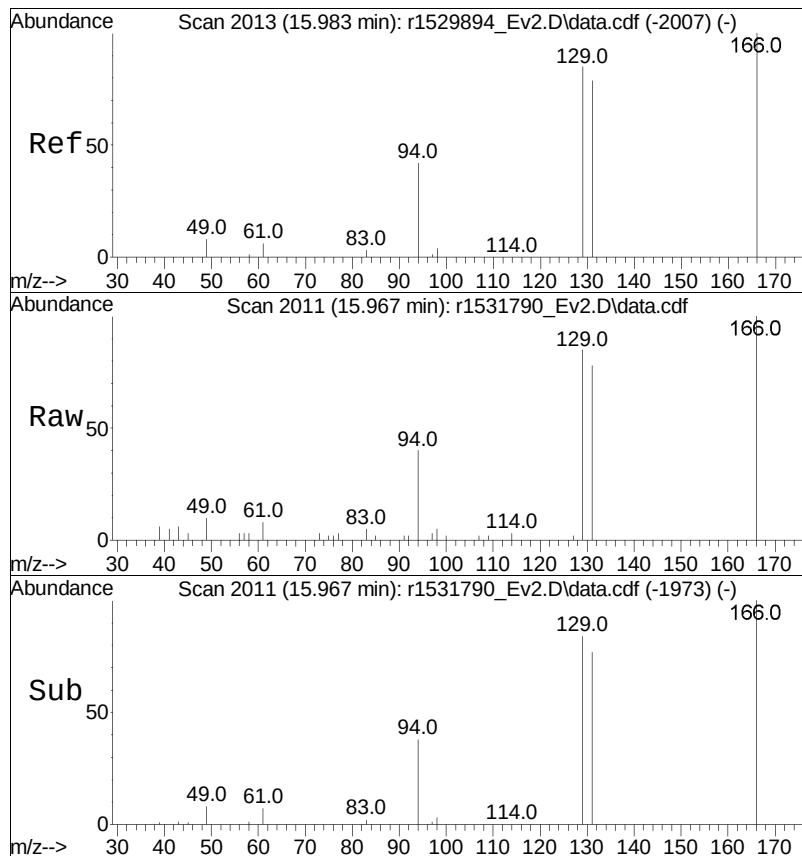




#44
trichloroethene
Concen: 0.02 ppbV
RT: 12.66 min Scan# 1593
Delta R.T. -0.027 min
Lab File: r1531790_Ev2.D
Acq: 20 Mar 2022 10:25 PM

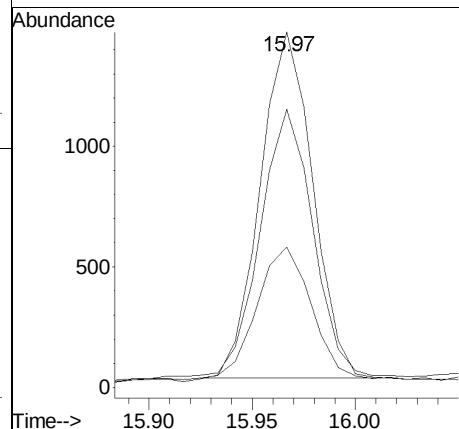
Tgt Ion:	130	Resp:	342
Ion Ratio	Lower	Upper	
130	100		
132	73.8	76.2	114.4#
97	39.3	52.2	78.4#





#57
 tetrachloroethene
 Concen: 0.16 ppbV
 RT: 15.97 min Scan# 2011
 Delta R.T. -0.017 min
 Lab File: r1531790_Ev2.D
 Acq: 20 Mar 2022 10:25 PM

Tgt	Ion	Ratio	Lower	Upper
166	100			
131	78.3	64.3	96.5	
94	39.6	33.2	49.8	



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM15_211222.M
Data File : r1531790_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 3/20/2020 0:0: 5 Instrument :
Sample : WG1617727-5,3,250,250 Quant Date : 3/21/2022 8:42 am

There are no manual integrations or false positives in this file.

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{\text{cf}} / V_{\text{ci}}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI / 14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF / 14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 22 2022, 03:16 pm

Work Group: WG1617727 for Department: 3 GC/MS

Created: 20-MAR-22 Due: Operator: NL

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2212232-01	IA-104	S T015-SIM	AIR	DONE	U	0406	0323	S0	Can-6
L2212232-02	IA-105	S T015-SIM	AIR	DONE	U	0406	0323	S0	Can-6
L2212232-03	IA-106	S T015-SIM	AIR	DONE	U	0407	0323	S0	Can-6
L2213657-02	VE-2-IA	S T015-SIM	AIR	DONE	U	0415	0323	2E	Can-2.7
L2213657-03	DUP-031622	S T015-SIM	AIR	DONE	U	0415	0323	2E	Can-2.7
L2213657-05	VE-1-IA	S T015-SIM	AIR	DONE	U	0415	0323	2E	Can-2.7
WG1617727-1	MS BFB Tune Standard	S T015-SIM	AIR	DONE	U				
WG1617727-2	Continuing Calibrati	S T015-SIM	AIR	DONE	U				
WG1617727-3	Laboratory Control S	S T015-SIM	AIR	DONE	U				
WG1617727-4	Laboratory Method Bl	S T015-SIM	AIR	DONE	U				
WG1617727-5	Duplicate Sample	S T015-SIM	AIR	DONE	U				

Comments:

WG1617727-5 L2213657-03

Alpha Analytical Air Lab Instrument Run Log

ID: AirLab15
 Date: 12/22/21
 Initials: AR

Internal Standard/Surrogate IDs: SS20-028 / SS21-026
 Internal Standard/Surrogate Volume: 100 ml
 Sequence File Name: 211222.S

APH ICAL#
 18551

SIM ICAL#		Full Scan ICAL#					
AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	Pass ? Y/ N
1	TA15122201	TO15_SFS.qgm	R1529887.qgd	250 ML	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R1529888.qgd	SS21-036D 50ML	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R1529889.qgd	SS21-036D 100ML	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R1529890.qgd	SS21-036D 250ML	SIM ONLY	DEF	NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R1529891.qgd	SS21-036C 50ML		DEF	NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R1529892.qgd	SS21-036C 125ML		DEF	NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R1529893.qgd	SS21-036C 250ML		DEF	NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R1529894.qgd	SS21-036B 125ML		DEF	NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R1529895.qgd	SS21-036B 250ML		DEF	NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R1529896.qgd	SS21-036A 50ML		DEF	NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R1529897.qgd	SS21-036A 125ML		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R1529898.qgd	SS21-036A 250ML	LL ONLY	DEF	NA
1	BA15122201	TO15_SFS.qgm	R1529899.qgd	250 ML			NA
1	BA15122202	TO15_SFS.qgm	R1529900.qgd	250 ML			NA
2	CTO15-LLSTD10	TO15_SFS.qgm	R1529901.qgd	SS21-033F 250ML	LL ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1529902.qgd	SS21-033F 250ML	SIM ICV	DEF ICV AP2	NA

Alpha Analytical Air Lab Instrument Run Log

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

ID: Airlab15
Date: 03/20/22
Initials: NL

Internal Standard/Surrogate IDs: SS20-028 / SS21-026
Internal Standard/Surrogate Volume: 100 ml
Sequence File Name: 220320.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	Pass ? Y/ N
1	TA15032001	TO15_SFS.qgm	R1531776.qgd	250ml	TUNE		NA
2	CA15032001	TO15_SFS.qgm	R1531777.qgd	250 mL SS21-036F	NJ CC FAILS		NA
3	CTO15-LLSTD10.0	TO15_SFS.qgm	R1531778.qgd	250 mL SS22-005E	LL LCS		NA
3	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1531779.qgd	125 mL SS22-005E	SIM LCS		NA
1	BA15032001	TO15_SFS.qgm	R1531780.qgd	250ml	LL BLANK		NA
1	BA15032002	TO15_SFS.qgm	R1531781.qgd	250ml	SIM BLANK		NA
1	L2212319-01,3,250,250	TO15_SFS.qgm	R1531782.qgd	WG1617729,ICAL18600		MCP	Y
2	L2212319-02,3,250,250	TO15_SFS.qgm	R1531783.qgd	WG1617729,ICAL18600		MCP	Y
3	L2212324-01,3,250,250	TO15_SFS.qgm	R1531784.qgd	WG1617729,ICAL18600		MCP	Y
4	L2212232-01,3,250,250	TO15_SFS.qgm	R1531785.qgd	WG1617727,ICAL18601		9CVOCS VIA SIM	Y
5	L2212232-02,3,250,250	TO15_SFS.qgm	R1531786.qgd	WG1617727,ICAL18601		9CVOCS VIA SIM	Y
6	L2212232-03,3,250,250	TO15_SFS.qgm	R1531787.qgd	WG1617727,ICAL18601		9CVOCS VIA SIM	Y
7	L2213657-02,3,250,250	TO15_SFS.qgm	R1531788.qgd	WG1617728,ICAL18600		NY-7SIM	Y
8	L2213657-03,3,250,250	TO15_SFS.qgm	R1531789.qgd	WG1617728,ICAL18600		NY-7SIM	Y
8	L2213657-03DUP,3,250,250	TO15_SFS.qgm	R1531790.qgd	WG1617728,ICAL18600	LL/SIM (DUMMY) DUP	NY-7SIM	Y
9	L2213657-05,3,250,250	TO15_SFS.qgm	R1531791.qgd	WG1617728,ICAL18600	ETOH OVERCAL	NY-7SIM	Y
10	L2213657-01,3,250,250	TO15_SFS.qgm	R1531792.qgd	WG1617728,ICAL18600		NY	Y
11	L2213657-04D,3,189.9,250	TO15_SFS.qgm	R1531793.qgd	WG1617728,ICAL18600	905	NY	Y
12	L2212006-01,3,250,250	TO15_SFS.qgm	R1531794.qgd	WG1617729,ICAL18600		MCP	Y
13	L2212006-02,3,250,250	TO15_SFS.qgm	R1531795.qgd	WG1617729,ICAL18600		MCP	Y
14	L2212126-01,3,250,250	TO15_SFS.qgm	R1531796.qgd	WG1617728,ICAL18600		NY	Y
15	L2212329-01D,3,55,250	TO15_SFS.qgm	R1531797.qgd	WG1617729,ICAL18600	NT	MCP	Y

Alpha Analytical Air Lab Instrument Run Log

16	L2212329-02D,3,105,250	TO15_SFS.qgm	R1531798.qgd	WG1617729,ICAL18600	NT	MCP	Y
9	L2213657-05D,3,50,250	TO15_SFS.qgm	R1531799.qgd	WG1617728,ICAL18600		ETOH	Y

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed
