Final
Operations and Maintenance (2nd through 4th Quarters 2022 and 1st Quarter 2023) and December 2022 Air Sampling Activities Report SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) and SD052-02 Building 775 Site (Buildings 774 and 776) Sub-Slab Vapor Mitigation Systems Former Griffiss Air Force Base Rome, New York

February 2024

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Contract No: FA8903-20-D-0001
Document Control No.: NEBECOS-0310-GRI

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ACRONYMS AND ABBREVIATIONS

>	greater than
AFB	Air Force Base
AFCEC	Air Force Civil Engineer Center
AFRL/RRS	Air Force Research Laboratory/Rome Research Site
AFRPA	Air Force Real Property Agency
AOC	Area of Concern
bgs	below ground surface
Bhate	Bhate Environmental Associates, Inc.
BRAC	Base Realignment and Closure
CAPE	CAPE Environmental
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	chemical of concern
DCE	dichloroethene
DoD	Department of Defense
EEEPC	Ecology and Environment Engineering, P.C.
ELAP	Environmental Laboratory Accreditation Program
ERPIMS	Environmental Resources Program Information Management System
FFA	Federal Facilities Agreement
FPM	FPM Remediations, Inc.
FS	Feasibility Study
GAC	granular activated carbon
HI	hazard index
HQ	Hazard Quotient
IRA	Interim Remedial Action
J	Laboratory flag indicating an estimated concentration
LUC	Land Use Control
µg/L	microgram per liter
µg/m^3	microgram per cubic meter
mL/min	milliliter per minute
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NPL	National Priorities List
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O&M	Operations and Maintenance
OSWER	Office of Solid Waste and Emergency Response
PCE	tetrachloroethene
PID	photoionization detector
QSM	Quality System Manual
RAO	Remedial Action Objective
RI	Remedial Investigation
ROD	Record of Decision

ROI	radius of influence
RSL	Regional Screening Level
SAC	Strategic Air Command
scfm	standard cubic feet per minute
SI	Supplemental Investigation
SIM	Selected Ion Monitoring
SSVM	sub-slab vapor mitigation
SVI	soil vapor intrusion
TCA	trichloroethane
TCE	trichloroethene
U.S.	United States
USAF	U.S. Air Force
USEPA	U.S. Environmental Protection Agency
VC	vinyl chloride
VMP	vapor monitoring point
VOC	volatile organic compound
w.g.	water gauge

1 INTRODUCTION

Bhate Environmental Associates, Inc. (Bhate) has been contracted by the Air Force Civil Engineer Center (AFCEC) to perform and optimize the Operations and Maintenance (O&M) on sub-slab vapor mitigation (SSVM) systems associated with soil vapor intrusion (SVI) at Sites SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) and SD052-02 Building 775 Site (Buildings 774 and 776) at the former Griffiss Air Force Base (AFB) in Rome, New York (**Figure 1**). These two SVI sites are collectively referred to as SD052-SVI. In accordance with the *Final Record of Decision* [ROD] *Soil Vapor Intrusion at SD052-02 Building 775 Site (Buildings 774 and 776) and SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) Former Griffiss Air Force Base, Rome, New York* (AFCEC, September 2016) (herein referred to as the Final ROD), the selected remedy for the two SVI sites was horizontal sub-slab depressurization (active SSVM system).

Bhate has prepared this O&M Report in accordance with Contract Number FA8903-20-D-0001. This report specifically addresses air sampling activities conducted on December 21, 2022, along with O&M activities performed during the 2nd, 3rd, and 4th quarters of 2022 and in the 1st quarter of 2023 at the two SD052-SVI sites. Recommendations based upon these events and activities are also presented in accordance with the Final Optimization Plan (Bhate, April 2017).

The following SD052-SVI sites are addressed in this report:

- Buildings 785 and 786 (SD052-01 Apron 2 Chlorinated Plume Site)
- Buildings 774 and 776 (SD052-02 Building 775 Site)

1.1 Griffiss AFB Operational History

The mission of the former Griffiss AFB varied over the years. The base was activated on February 1, 1942, as Rome Air Depot with the mission of storage, maintenance, and shipment of material for the United States (U.S.) Army Air Corps. Upon creation of the Air Force in 1947, the depot was renamed Griffiss AFB. The base became an electronics center in 1950, with the transfer of Watson Laboratory Complex (later Rome Air Development Center [1951], Air Force Research Laboratory/Rome Research Site [AFRL/RRS]), and then the Information Directorate at RRS was established with the mission of applied research, development, and testing of electronic air-ground systems. The headquarters of the Ground Electronics Engineering Installations Agency was established in June 1958 to engineer and install ground communication equipment throughout the world. The 49th Fighter Interceptor Squadron served at Griffiss AFB from 1959 until its inactivation in 1987. On July 1, 1970, the 416th Bombardment Wing of the Strategic Air Command (SAC) was activated with the mission of maintenance and implementation of both effective air refueling operations and long-range bombardment capability. Griffiss AFB was designated for realignment under the Base Realignment and Closure (BRAC) Act in 1993 and 1995, resulting in deactivation of the 416th Bombardment Wing in September 1995.

1.2 Environmental Background

Hazardous and toxic substances were used during the various national defense missions carried out at the former Griffiss AFB since 1942. Hazardous wastes were generated, stored, or disposed

of at various sites on the installation. The defense missions involved were, among others: the procurement, storage, maintenance, and shipment of war material; research and development; and aircraft operations and maintenance.

Pursuant to Section 105 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Griffiss AFB was included on the National Priorities List (NPL) on July 15, 1987. On August 21, 1990, the U.S. Air Force (USAF), the U.S. Environmental Protection Agency (USEPA), and the New York State Department of Environmental Conservation (NYSDEC) entered into a Federal Facilities Agreement (FFA) under Section 120 of CERCLA. On March 20, 2009, 2,897.2 of the 3,552 acres were deleted from the NPL.

1.3 Purpose and Goals

This report presents the air sampling activities, O&M activities, and results on a site-by-site basis including a general overview of site conditions, results of the monitoring, and a summary, conclusions, and recommendations for ongoing remedial actions, monitoring, and reporting. The goal of this report is to assess the selected remedy (SSVM) presented in the Final ROD (AFCEC, September 2016) and to ensure the protection of human health and the environment at Buildings 785 and 786 (SD052-01 Apron 2 Chlorinated Plume Site) and Buildings 774 and 776 (SD052-02 Building 775 Site).

1.4 Basis for Air Sampling

As indicated in the Final ROD, the SVI potential at Site SD052-01 Apron 2 Chlorinated Plume Site (Building 785 and 786) and SD052-02 Building 775 Site (Buildings 774 and 776) are the result of contaminated groundwater beneath the buildings. The results from the 2010 Feasibility Study (FS) for SVI at Buildings 774, 776, 785, and 786 (FPM Remediations, Inc. [FPM], February 2010) indicated that the contaminants of concern (COCs) are confined to volatile organic compounds (VOCs). A meeting was held between the Air Force, Air Force Institute of Occupational Health, NYSDEC, New York State Department of Health (NYSDOH), and the USEPA on December 13, 2007, to discuss the SVI survey findings. During this meeting, it was decided that although chloroform was detected above cancer and non-cancer screening levels in sub-slab vapor and indoor air samples, it had not been detected in groundwater above screening levels and therefore was not considered a COC (FPM, April 2008).

Sampling locations and site features at Buildings 785 and 786 and Buildings 774 and 776 are shown on **Figure 2** and **Figure 3**, respectively. Groundwater contaminant plumes depicted on those figures are based upon the August 2022 groundwater sampling presented in the *Draft 2022 Annual Performance Monitoring Report, On-Base Groundwater Remediation, Former Griffiss AFB, Rome, New York* (Bhate, August 2023).

1.5 Regulatory Screening Criteria

In accordance with Section 8 (Remedial Action Objectives) of the Final ROD (AFCEC, September 2016), screening levels are based on applicable NYSDOH criteria and pertinent USEPA Regional Screening Levels (RSLs). Sub-slab soil gas and indoor air laboratory results were compared to the NYSDOH "*no further action*" screening criteria (NYSDOH, October 2006, May 2017 update) that

can be found at http://www.health.ny.gov/environmental/investigations/soil_gas/svi_guidance/ and/or USEPA industrial/commercial air RSLs, Hazard Quotient [HQ] = 1 (USEPA, November 2022) for COCs.

Specifically, the above screening criteria for both NYSDOH and USEPA are presented in decision matrices (**Tables 1**, **2**, and **3**) that provide guidance on a case-by-case basis about actions that should be taken to address current and potential exposures related to SVI. USEPA matrices were provided by Mr. Bob Morse, Remedial Project Manager, USEPA Region 2, Emergency and Remedial Response Division, on September 6, 2017, during a personal communication.

The USEPA risk screening criteria (**Tables 1** and **2**) are derived from the [Office of Solid Waste and Emergency Response] *OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air* (USEPA, June 2015, June 2017 Errata); sub-slab vapor screening levels are 33 times the Indoor Air Screening Level. Under the USEPA industrial/commercial trichloroethene (TCE) cancer risk scenario to achieve "*no action*" criteria, indoor air needs to be below the industrial/commercial air RSL for TCE of 3 µg/m^3 (USEPA, November 2022) and corresponding sub-slab results need to be below 99 µg/m^3 which is based on 33 times the Indoor Air Screening Level (USEPA, November 2022). Furthermore, the USEPA Industrial/Commercial TCE non-cancer hazard scenario requires the indoor air and sub-slab concentrations to be below the hazard index (HI) of 1.0. The established criteria by NYSDOH and USEPA are intended to prevent individual human exposure to soil gas vapor levels within buildings at unacceptable levels represented by an excess cancer risk greater than 1 x 10^{-6} and a potential non-cancer hazard for a HI greater than one. USEPA's updated vapor intrusion guidance (USEPA, June 2017) is available at: https://www.epa.gov/vaporintrusion/technical-guide-assessing-and-mitigating-vapor-intrusion-pathway-subsurface-vapor.

The NYSDOH Soil Vapor/Indoor Air Matrix A (NYSDOH, May 2017) (**Table 3**) establishes two "*no further action*" scenarios. The first requires indoor air samples to be below 0.2 micrograms per cubic meter (µg/m^3) with a corresponding sub-slab concentration of less than 60 µg/m^3. The second option for achieving the *"no further action"* criteria requires indoor air samples to be below 1.0 µg/m^3 with a corresponding sub-slab concentration of less than 6 µg/m^3.

1.6 Site Description

1.6.1 SD052-01, Apron 2 Chlorinated Plume Site (Buildings 785 and 786)

Buildings 785 and 786 are located on the southwestern corner of Apron 2 between Aprons 1 and 2 (**Figure 2**). These buildings served as aircraft maintenance facilities (nose docks) and were taken out of service in 1995 after Griffiss AFB was closed. The SVI potential at these buildings is a result of contaminated groundwater associated with the Apron 2 Chlorinated Plume Site (SD052-01). Each building is 28,251 square feet (Woodward-Clyde, February 1998) and are currently unheated airplane hangars. The buildings are largely open with first and second floor offices on the buildings' interior perimeters. Buildings 785 and 786 were built in 1959 (Woodward-Clyde, February 1998) on a 13.5 to 14-inch thick, unsealed concrete slab (FPM, February 2010).

Building 786 was occupied for a few years by a pallet refurbishing company until 2002. From 2002 to 2013, the buildings were used for equipment storage. During that time, all heating and air

handling equipment were in a state of disrepair and assumed inoperable. In addition, the buildings were poorly sealed due to broken windows, open hangar doors, and missing exterior sheet metal (FPM, February 2010). Buildings 785 and 786 were renovated in the summer of 2013 and included repairs to the hangar doors, exterior sheet metal, and windows; repairs to electrical and heating systems; interior and exterior painting; and removal of first and second floor offices (FPM, February 2010). Floor painting and epoxying activities were completed inside Building 786 in late September to early October 2016 (Bhate, January 2019). It was noted on the March 21, 2018 Building 785 SVI Sampling Questionnaire that indoor painting had been conducted. However, there were no VOC exceedances in the Building 785 indoor air sample collected on this date (Bhate, January 2019). Currently, Building 785 is rented to a company for storage of civilian jet aircraft and Building 786 is normally vacant. However, during the December 2020 air sampling event, Building 786 was being used by Mercy Flight Central and a helicopter and private plane were inside the building. Copies of the Building 785 and 786 Sampling Questionnaires from the January 2022 air sampling events are provided in **Appendix A**.

1.6.2 SD052-02 Building 775 Site Buildings 774 and 776

These two buildings are located between Phoenix Drive and Ready Road at the former Griffiss AFB in Rome, New York (**Figure 3**). The SVI potential at these buildings is a result of contaminated groundwater associated with the SD052-02 Building 775 Site. Building 774 is a one-story office building, approximately 18,990 square feet in size (Woodward-Clyde, February 1998), and is currently occupied by a computer/security firm. The building is occupied on workdays from 8 AM to 5 PM by approximately 45 people. Building 774 was built in 1959, but underwent major renovations in 2000 (FPM, February 2010). New windows and doors were installed along with 36 new air handlers including new air ducts in ceilings and new cooling towers. The building's foundation is an 8-inch thick concrete slab with no basement (FPM, February 2010). The floors are mostly carpeted except for the bathrooms, janitor's closet, and boiler room where floor drains exist.

Building 776 is a one-story office building and is approximately 27,410 square feet (Woodward-Clyde, February 1998). The building is currently occupied by a software development firm. The building is occupied on workdays from 7 AM to 6 PM by approximately 80 people. Building 776 was built in 1959, but underwent major renovations in 2002 (FPM, February 2010). New windows, which do not open, and doors were installed, the interior was refinished, and most floors were covered with carpeting. Heat and outdoor air are provided through 43 heat pumps. The building was constructed on a 3.5 to 6-inch thick concrete slab, with no basement (FPM, February 2010). Several floor drains exist in bathrooms and historically one crack was observed in the concrete floor near the southeastern entrance door. Copies of the Building 774 and Building 776 Sampling Questionnaires from the December 2022 air sampling event are provided in **Appendix A**.

1.7 Geology and Hydrogeology

1.7.1 Buildings 785 and 786

The immediate area surrounding Buildings 785 and 786 is relatively flat, mostly covered with reinforced concrete. As indicated on **Figure 2,** the groundwater flow direction is to the northeast towards Six Mile Creek.

The surficial aquifer is unconfined and composed of several well-defined unconsolidated layers including a silty-sand layer in the upper 5 feet; a 5 to 15-foot thick coarse sand and gravel layer in the middle of the aquifer; and a 15 to 20-foot thick layer of till composed of fine sand, silt, and gravel resting on the shale bedrock. The top of the aquifer is encountered 9 to 25 feet below ground surface (bgs) with the shallow depth occurring in the vicinity of Six Mile Creek. The total aquifer thickness ranges from 45 feet in the source areas to less than 20 feet in the downgradient areas near Six Mile Creek. Due to a relatively flat gradient, average groundwater velocities at this site are slow and have been estimated at approximately 10 feet per year (FPM, August 2006). Higher velocities may exist in discontinuous seams of coarse sand and gravel. Contamination is not found in the bedrock (FPM, April 2004).

1.7.2 Buildings 774 and 776

Buildings 774 and 776 are located on SAC hill which is an elevated area in the southeast section of the former Griffiss AFB. The immediate area around the buildings is relatively flat and covered with grass, asphalt parking lots, roads, and concrete walkways. Past and recent investigations have indicated that the groundwater flow direction is to the south-southwest towards Landfill 6 as indicated on **Figure 3**.

The surficial aquifer is unconfined and comprised of unconsolidated silty sands from ground surface to depths of 60 feet to 120 feet bgs, with the greater depths corresponding to the top of shale bedrock which dips to the southeast. The average depth to groundwater is 60 feet bgs. Average groundwater velocities have been estimated at approximately 10 feet per year. Higher velocities may exist in discontinuous seams of coarse sand and gravel. Contamination is not found in the bedrock. Groundwater studies at the nearby Landfill 6 TCE Site found relatively aerobic conditions and low dissolved organic carbon concentrations. The general absence of cis-1,2-dichloroethene (DCE) in the Building 775 plume confirms that reductive dechlorination is not occurring (Ecology and Environment Engineering, P.C. [EEEPC], February 2007).

1.8 Historical Monitoring Activities

1.8.1 Groundwater Contamination/Remedy

The following two subsections provide a summary of the groundwater contamination and remedies present at Sites SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) and SD052-02 Building 775 Site (Buildings 774 and 776).

1.8.1.1 SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786)

The SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) is associated with a TCE contaminated groundwater plume. A Remedial Investigation (RI) was performed in 2002 and 2003 in which two chlorinated plumes (referred to as the southern and northern plumes) were delineated at Apron 2 and the surrounding areas (FPM, April 2004). The three primary contaminants present in the groundwater that exceeded the NYSDEC Class GA Groundwater Standards (NYSDEC, June 1998) during the RI were TCE and its breakdown products cis-1,2-DCE and vinyl chloride (VC). The source of the contamination is assumed to be extended use of chlorinated solvents in the nose dock facilities (Buildings 782 through 786), with potential leaks from floor drains, sewer lines, and oil/water separators (FPM, February 2016).

Although not part of SD052-01, several petroleum releases were present in the area of Buildings 785 and 786. Petroleum contaminated plume(s) originating from the Apron 2 fueling system commingled with the distill end of the chlorinated groundwater plume (FPM, April 2004). This area is hydraulically downgradient of Buildings 785 and 786 and is approximately 1,900 feet east of the 785/786 SSVM system. Site CSS682, which was a petroleum release/spill site within the upgradient portion of Site SD052-01, received closure from the NYSDEC, Division of Environmental Remediation Region 6 on May 9, 2018 (NYSDEC, May 2018).

The groundwater remedy for Site SD052-01 (Apron 2 Chlorinated Plume Site Area of Concern [AOC]) has been implemented in accordance with the On-Base Groundwater AOC ROD which was signed by the USEPA in March 2009 (Air Force Real Property Agency [AFRPA], April 2009). The selected remedy is monitored natural attenuation using the ongoing physical, chemical, and natural biological processes that reduce the contaminants within the aquifer. Due to decreasing TCE trends, it was recommended in the 2018 Annual Performance Monitoring Report that annual performance monitoring be reduced to biennial (Bhate, October 2019). The recommendation was ultimately approved, and biennial performance monitoring of monitored natural attenuation of chlorinated groundwater contamination is ongoing at Apron 2.

As documented in the *Final Demonstration of Remedial Actions Operating Properly and Successfully, Nosedocks/Apron 2 Former Griffiss Air Force Base, Rome, New York* (EEEPC, August 2013), natural attenuation by way of reductive dechlorination is evident at the Apron 2 Chlorinated Plume Site.

During the most recent annual sampling event (August 2022), TCE and cis-1,2-DCE were detected in groundwater at the source area (upgradient from Building 785) at concentrations above their NYSDEC Class GA Groundwater Standards (Bhate, August 2023). Immediately downgradient of Building 785, only cis-1,2-DCE was detected and at a concentration above criteria with no detection of TCE or VC indicating no significant source of TCE remains at the site. A detailed discussion of the SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) August 2022 groundwater data and trends is provided in the *Draft 2022 Annual Performance Monitoring Report On-Base Groundwater Remediation Former Griffiss Air Force Base Rome, New York* (Bhate, August 2023).

1.8.1.2 SD052-02 Building 775 Site (Buildings 774 and 776)

The SD052-02 Building 775 Site (Buildings 774 and 776) is associated with a TCE contaminated groundwater plume. The Building 775 Site plume is located downgradient and south of former maintenance facilities in Buildings 774 and 776 and former fuel pump house Building 775. Solvent use in Building 774 is believed to be a primary source of contamination. It was originally thought that Building 775 (Pumphouse 3) was the origin of a TCE plume at the Building 775 on-base groundwater site, but during the RI and Supplemental Investigation (SI), it was determined that the actual source of contamination was the degreasing room/vat in Building 774. This degreasing system used a monorail to carry equipment to the degreasing vat for solvent cleaning when the building was used as an armament and electronics shop. Solvent use was widespread in these facilities in the 1950s, 1960s, and early 1970s.

Historically, the primary contaminant exceeding NYSDEC Class GA Groundwater Standards (NYSDEC, June 1998) is TCE with minor detections of 1,1,1-trichloroethane (TCA) and tetrachloroethene (PCE). The contaminated groundwater is assumed to be the source of the contaminated soil vapors.

The groundwater remedy for the SD052-02 (Building 775 Site AOC) was implemented in accordance with the On-Base Groundwater AOC ROD signed by the USAF and USEPA in March 2009 (AFRPA, April 2009). The selected remedy is a groundwater extraction system with discharge to an off-site treatment facility. The groundwater extraction system is designed to contain the contaminated plume (greater than [>] 50 micrograms per liter [µg/L]) and extract the contaminants from the aquifer. Following start-up of the groundwater extraction and discharge system in December 2008, TCE decreased significantly. In 2016, the groundwater extraction system was turned off as all detections of TCE were below 50 µg/L. Per the ROD, the plume outside of the extraction system influence is anticipated to attenuate naturally to achieve groundwater standards.

During the most recent annual sampling event (August 2022), TCE was detected in groundwater at concentrations ranging from 6.1 µg/L (upgradient) to 60.7 µg/L (downgradient) above the NYSDEC Class GA Groundwater Standard (Bhate, August 2023). A detailed discussion of the SD052-02 Building 775 (Buildings 774 and 776) August 2022 groundwater data and trends is provided in the *Draft 2022 Annual Performance Monitoring Report On-Base Groundwater Remediation Former Griffiss Air Force Base Rome, New York* (Bhate, August 2023).

1.8.2 SVI Investigation

The SD052-SVI soil vapor analytical results presented in Sections 1.8.2.1 and 1.8.2.2 below were obtained from the Final ROD (AFCEC, September 2016) and the *Final Quarterly Operations and Maintenance Report SD052-02 Building 775 Site (Buildings 774 and 776) and SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) Sub-Slab Vapor Mitigation Systems (2nd Quarter/Calendar Year 2016/April – June), Former Griffiss Air Force Base Rome, New York* (CAPE Environmental [CAPE]/FPM, July 2016).

1.8.2.1 SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786)

Between October 2006 and February 2007, an initial SVI survey was performed at Buildings 785 and 786. The results of the survey (see Tables 3 and 4 in **Attachment 1**) indicated that the sub-slab samples showed maximum TCE concentrations up to 11,000 µg/m^3 at 785SSV-1 (Building 785) and 81,000 µg/m^3 at 786SSV-1 (Building 786). These concentrations exceed the current TCE sub-slab vapor screening level for TCE of 99 µg/m^3. The indoor samples (785IA-1 and 785IA-2) showed no TCE detections in Building 785 and a low estimated detection of 0.43 J µg/m^3 in Building 786 which is below the current indoor air (industrial/commercial) RSL for TCE of 3 µg/m^3 (USEPA, November 2022). During the 2006/2007 SVI survey, several other VOCs were reported in the sub-slab vapor and indoor air samples, but were either detected below screening levels, detected in the outdoor air sample, or not deemed to be a COC for this site. As part of the 2006/2007 SVI survey sampling procedures, site investigations and product inventories were performed. It was noted that several pallets which held drums of motor oil, paint cans, buckets, and pails were located inside the southwestern portion of Building 785. Furthermore, a forklift, compressed gas and propane cylinders, a container of motor oil, and a bucket of hydraulic oil were observed inside Building 786. During the 2006/2007 SVI survey, a photoionization detector (PID) was used to measure total VOC concentrations at potential VOC ambient air sources and readings ranged from 0 to 2,800 µg/m^3. The highest concentration was detected in Building 785 near the pallets. Historically, the presence of these VOC containing, or petroleum-based products during indoor air sampling may have promoted false positive results due to interference from facility operations.

A follow-up SVI investigation was conducted at Buildings 785 and 786 in April 2008 to confirm the results of the 2006 SVI survey. A low detection of TCE (0.655 µg/m^3 at 785IA-3) and several low petroleum detections were reported in the 2008 indoor air sample. Indoor air results for Building 786 were comparable to the previous results and no TCE or daughter products were detected (see Table 4 in **Attachment 1**). All VOC results were detected at levels below current indoor air (industrial/commercial) screening level RSLs (USEPA, November 2022). The indoor/outdoor sampling results for Buildings 785 and 786 are provided in the Final Quarterly O&M Report (2nd Quarter/Calendar Year 2016/April - June) (CAPE/FPM, July 2016).

The 2008 sub-slab vapor results (785SSV-1 and 785SSV-2) for Building 785 were one to two orders of magnitude lower than the previous 2006 results (see Table 3 in **Attachment 1**). However, there was one TCE exceedance that was reported for sampling location 785SSV-6 (2,200 µg/m^3) in 2008. In total, five TCE exceedances were reported at levels above the current sub-slab vapor screening level (99 µg/m^3) at sampling locations 785-SSV1, -SSV2, -SSV3, -SSV5, and -SSV6.

The 2008 sub-slab vapor results for Building 786 were lower but the same order of magnitude as the previous 2006 results (see Table 4 in **Attachment 1**). TCE concentrations ranged from 69 µg/m^3 at 786SSV-3 to 19,000 µg/m^3 at 786SSV-1 (previous concentration at 786SSV-1 was 81,000 µg/m^3). In total, five TCE exceedances above the current TCE sub-slab vapor screening level for TCE (99 µg/m^3) were reported at sampling locations 786-SSV1, -SSV2, -SSV4, -SSV5, and -SSV6. The sub-slab vapor sampling results for Buildings 785 and 786 are also provided in the

Final Quarterly O&M Report (2nd Quarter/Calendar Year 2016/April - June) (CAPE/FPM, July 2016).

1.8.2.2 SD052-02 Building 775 Site (Buildings 774 and 776)

In September 2006, an SVI evaluation was conducted consisting of sub-slab vapor samples from Buildings 774 and 776. The results indicated that chloroform and TCE were present at concentrations above their respective screening levels. The 2006 screening level for sub-slab vapor was 409 µg/m^3 and 41 µg/m^3 in indoor air. The indoor air samples collected from both buildings indicated that these same contaminants were present but at levels below the screening values. An additional SVI survey was conducted at Buildings 774 and 776 between October 2006 and February 2007. The results of the sub-slab samples showed maximum TCE concentrations up to 1,700 µg/m^3 at 774SSV-1 (Building 774), and 3,000 µg/m^3 at 776SSV-1 (Building 776) (see Tables 1 and 2 in **Attachment 1**). These concentrations exceed the current sub-slab vapor screening level for TCE of 99 µg/m^3. The indoor samples showed TCE concentrations up to 3.4 µg/m^3 in Building 774 and 4.4 µg/m^3 in Building 776. The current indoor air (industrial/commercial) RSL for TCE is 3 µg/m^3 (USEPA, November 2022).

The indoor air TCE concentrations reported for Building 774 during the April 2008 sampling event were two orders of magnitude higher than those reported during the 2006 sampling event (3.4 µg/m^3) (see Table 1 in **Attachment 1**). Concentrations detected at levels that exceed the current TCE indoor air screening criteria of 3 µg/m^3 (USEPA, November 2022) in April 2008 ranged from 236 µg/m^3 (774IA-4) to 559 µg/m^3 (774IA-2). Further investigation revealed that, prior to this sampling event, building renovations were performed which included removal of old carpet glue using solvents. Indoor air results for Building 776 were comparable to the previous 2006 results and only the result from 776IA-1 slightly exceeded the current indoor air screening criteria of 3 µg/m^3 (see Table 2 in **Attachment 1**). Indoor and outdoor air samples were recollected from Building 774 in May 2008 due to the apparently skewed results due to carpet removal activities. The May 2008 results indicated that indoor air TCE concentrations were comparable to the 2006 results. The indoor/outdoor sampling results for Buildings 774 and 776 are provided in the Final Quarterly O&M Report (2nd Quarter/Calendar Year 2016/April - June) (CAPE/FPM, July 2016).

The 2008 sub-slab TCE vapor results for Building 774 were within the same order of magnitude as those reported in 2006 with two exceedances above the current sub-slab vapor screening level for TCE (99 µg/m^3) of 490 µg/m^3 and 590 µg/m^3 at locations 774SSV-1 and 774SSV-2, respectively (see Table 1 in **Attachment 1**). The sub-slab vapor concentrations reported in Building 776 were lower than those reported in 2006 (see Table 2 in **Attachment 1**). In total, three TCE exceedances were reported above the current sub-slab vapor screening level of 99 µg/m^3 at sampling locations 776-SSV2, -SSV3, and -SSV4. The sub-slab vapor sampling results for Buildings 774 and 776 are also provided in the Final Quarterly O&M Report (2nd Quarter/Calendar Year 2016/April - June) (CAPE/FPM, July 2016).

1.9 Interim Response Action

Based on the presence of elevated TCE concentrations in sub-slab vapors and on the findings of the FS, the preferred alternative (SSVM) was implemented as an Interim Remedial Action (IRA)

at Buildings 774, 776, 785, and 786 to assess the effectiveness of horizontal sub-slab depressurization (FPM, February 2010).

1.9.1 SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786)

The SSVM horizontal sub-slab depressurization system was installed at the SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) in Winter and Spring 2011. The system layout is shown on **Figure 2**.

1.9.1.1 SSVM System Components

System components are referenced from the *Final Completion Report, Sub-Slab Vapor Mitigation Systems at Buildings 774, 776, 785 and 786, Former Griffiss Air Force Base, Rome, New York* (FPM, May 2013). The Building 785 and 786 system is composed of two horizontal wells. The horizontal well for Building 786 (786SSVM-1) was constructed of a 160-foot long screen at a depth of 10 feet bgs. The horizontal well for Building 785 (785SSVM-1) was constructed of a 140-foot long screen at a depth of 8 feet bgs. The horizontal extraction wells (785SSVM-1 and 786SSVM-1) are connected in line with a regenerative blower, including all blower components. The blower capacity is capable of achieving a maximum flow rate of 420 standard cubic feet per minute (scfm) and a maximum vacuum of 110 inches water gauge (w.g.). The regenerative blower is connected in line with a vapor-after-treatment system comprising of two air purification canisters each containing 140 pounds of granular activated carbon (GAC). The GAC is used to remove chlorinated solvents in the vapor phase. The calculated life span of GAC is approximately 4 months based on concentrations encountered during the pilot study from October 2010 to January 2011 at Building 785 and Building 786. A modification to the system that allows for passive mode operation (without GAC treatment) was completed on June 13, 2018; however, the SSVM continued to operate in active (blower) mode until August 2019. The passive mode modification to the SSVM system involved installation of two wind turbines above the roof of the SSVM system shed that are connected to the horizontal extraction wells. Valves are used to direct extracted air flow to either the blower system or the turbines.

1.9.1.2 Vapor Monitoring Points

The vapor monitoring points (VMPs) were strategically placed to monitor the effective radius of influence (ROI) and vapor transport and mitigation. At Building 786, 786VMP-1, -2, and -3 are respectively 15 feet, 30 feet, and 45 feet off the 786SSVM-1 well axis. At Building 785, 785VMP-2, -4, and -5 are respectively 15 feet, 30 feet, and 60 feet off the well axis. The VMPs for both horizontal wells contain three intervals of depth, a shallow (2 to 2.5 feet bgs), a medium (5 to 5.5 feet bgs), and a deep (10 to 10.5 feet bgs).

1.9.1.3 Historical Operation and Maintenance (2011 – 2019)

The Building 785/786 SSVM system has been in place since May 2011. System O&M included weekly system component readings (system temperature, flow, vacuum, and motor status), semi-annual VMP vacuum measurements, and GAC disposal and replacement as needed. Indoor and outdoor air sampling, sub-slab vapor sampling, and influent sampling were conducted semi-annually during the heating and cooling months (CAPE/FPM, March 2015). The system was shut

down in August 2013 and re-started in September 2014 due to an electrical supply problem caused by renovations to Buildings 785 and 786. Historical sub-slab vapor, indoor air, and outdoor air sampling results through February 2016 are presented in Table 3-4 and influent air sampling results are presented in Table 3-5 of the Final Quarterly O&M Report (2nd Quarter/Calendar Year 2016/April - June) (CAPE/FPM, July 2016) and are included in **Attachment 2** of this report.

The Building 785/786 SSVM system operated normally with occasional routine maintenance from July 2016 through June 2018 except for a blower motor replacement which caused the SSVM system to be off from September 2017 through June 2018 (Bhate, January 2019). In addition, periodic down time of several days each were caused by a high-water alarm in the water knock out tank throughout the 2016 to 2018 period. On June 13, 2018, the Building 785/786 SSVM system was modified to allow for turbine wind powered passive operation. The SSVM system continued to operate in the active blower mode throughout 2018 (Bhate, May 2021). Passive operation was initiated on August 28, 2019.

1.9.2 SD052-02 Building 775 Site (Buildings 774 and 776)

A SSVM horizontal sub-slab depressurization system was installed at the SD052-02 Building 775 Site (Buildings 774 and 776) in Spring 2011. The system layout is shown on **Figure 3**.

1.9.2.1 SSVM System Components

System components are referenced from the *Final Completion Report, Sub-Slab Vapor Mitigation Systems at Buildings 774, 776, 785 and 786, Former Griffiss Air Force Base, Rome, New York*. (FPM, May 2013). The SSVM system is composed of three horizontal wells for Building 774 (774SSVM-1, -2, and - 3) and one horizontal well for Building 776 (776SSVM-1). The depths of the horizontal wells range from 6 feet to 8 feet bgs with screen lengths ranging from 20 feet to 180 feet long. The horizontal extraction wells are connected in line with a regenerative blower capable of achieving a maximum flow rate of 600 scfm and a maximum vacuum of 106 inches of w.g. The regenerative blower is connected in line with a vapor-after-treatment system comprising of two air purification canisters each containing GAC. The GAC is used to remove chlorinated solvents in the vapor phase. The calculated life span of the first GAC unit was estimated at approximately 6 months based on concentrations determined during the pilot study at Building 774 and Building 776 as described in *Draft Work Plan Sub-Slab Vapor Mitigation Design* (FPM, February 2011).

The March 2018 sub-slab vapor, indoor, and outdoor air concentrations for Site SD052-02 (Buildings 774 and 776) remained below applicable screening levels. As a result, and in accordance with the Final ROD, the SD052-02 SSVM system was converted to a passive system. A modification to the system that allows for passive mode operation (without GAC treatment) was completed on June 13, 2018, and passive operation commenced that day. The passive mode modification to the SSVM system involved installation of three wind turbines above the roof of the SSVM system shed that are connected to the horizontal extraction wells. Valves are used to direct extracted air flow to either the blower system or the turbines.

1.9.2.2 Vapor Monitoring Points

The sub-slab VMPs were strategically placed to monitor effective ROI and vapor transport and mitigation. In Building 774, three sub-slab VMPs were installed; 774VMP-1, -2, and -3 with one interval screened less than a foot beneath the sub-slab. Building 776 also has three sub-slab VMPs: 776VMP-1, -2, and -3. The VMPs are located from 25 feet to 45 feet off axis of the horizontal wells.

1.9.2.3 Historical Operations and Maintenance (2011 - 2019)

The Building 774/776 SSVM system has operated since June 2011. System O&M included weekly system component readings (system temperature, flow, vacuum, and motor status), semi-annual VMP vacuum measurements, and GAC disposal and replacement as needed. Indoor and outdoor air sampling, sub-slab vapor sampling, and influent sampling were conducted semi-annually during the heating and cooling months (CAPE/FPM, July 2016). Historical sub-slab vapor, indoor air, and outdoor air sampling results are presented in Table 3-2, and influent air sampling results are presented in Table 3-3 of the Final Quarterly O&M Report (2nd Quarter/Calendar Year 2016/April - June) (CAPE/FPM, July 2016) which are provided in **Attachment 2** of this report.

The Building 774/776 SSVM system operated normally with occasional routine maintenance from July 2016 through June 2018 except for a blower motor replacement which caused the SSVM system to be off from July 2017 through October 2017 (Bhate, January 2018). In addition, periodic down time of several days each were caused by a high-water alarm in the water knock out tank from July 2017 through June 2018. On June 13, 2018, the Building 774/776 SSVM system was converted to a turbine wind powered passive system which became operational the following day (Bhate, May 2021). The passive system operated as designed for the duration of 2019.

1.10 SVI Remedial Action Objectives

To address the potential for SVI at unacceptable risk levels, a Remedial Action Objective (RAO) was established for SD052-02 Building 775 Site (Buildings 774 and 776) and SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786). The established RAO is to prevent individual human exposure to soil-gas vapor levels within buildings at unacceptable levels represented by an excess cancer risk greater than 1×10^{-6} and also represented by a potential non-cancer risk for a HI greater than 1.0. Current USEPA RSLs represent the RAOs for evaluating the protectiveness of the IRA. It should be noted that the RSLs are Preliminary Remediation Goals since RSLs are not cleanup levels. Future exit strategy decisions, described in Section 12 of the *Final Record of Decision Soil Vapor Intrusion at SD052-02 Building 775 Site (Buildings 774 and 776) and SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) Former Griffiss Air Force Base, Rome, New York* (AFCEC, September 2016) will rely on applicable NYSDOH criteria, pertinent USEPA RSLs, or a site-specific human health risk assessment prepared in accordance with USEPA guidelines.

1.11 Land Use Controls

Sites SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) and SD052-02 Building 775 Site (Buildings 774 and 776) are industrial/commercial properties with Land Use Controls (LUCs) in place. They are used to prevent and/or restrict residential use, soil/groundwater

intrusive work, and groundwater consumption and were implemented in the *Final Record of Decision for the On-base Groundwater AOCs (SD-052) at the Former Griffiss Air Force Base, Rome New York* (AFRPA, April 2009). The restrictions related to SVI are in place to prevent compromising the slabs of Buildings 774, 776, 785, and 786 without prior written approval from the USEPA, NYSDEC, and the USAF. The SD052-01 SVI and SD052-02-SVI LUCs are summarized below. The *Final 2021 Land Use Controls/Intuitional Controls Site Inspection Report Former Griffiss Air Force Base Rome, New York* (Bhate, July 2022) verified that the implemented remedies and restrictions are protective of human health and the environment at the SVI sites.

With respect to the potential for risks posed via indoor air contaminated by chemicals volatilizing from below the building slab (vapor intrusion), a grantee covenant will be included in the deed of any property within the SVI restriction area that will require either of the following: (a) mitigation of any unacceptable risk as that risk is determined under CERCLA and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) in a circumstance with (1) any construction of new buildings (which includes any expansion of the footprint of an existing building) (2) any change in the current use of existing buildings to a use that would increase the potential exposure of its users to vapor intrusion; or (b) an evaluation of the potential for unacceptable risk associated with vapor intrusion that must occur prior to any construction of new buildings or any change in the current use of existing buildings to a use that would increase the potential exposure of its users to vapor intrusion, and if an unacceptable risk under CERCLA and the NCP associated with vapor intrusion is posed, mitigation of the vapor intrusion shall be included in the design/construction of the structure prior to occupancy or implemented prior to the change in use. Any such mitigation or evaluations will be coordinated with the EPA and NYSDEC. This covenant will remain on the property until the property meets applicable criteria for acceptable risk for specified property use as such criteria and use are established in the applicable ROD, or until such time as it is agreed to by the Air Force, EPA, and NYSDEC.

The slabs of Buildings 774, 776, 785, and 786 shall not be compromised without prior written approval of EPA, NYSDEC and the Air Force.

The above LUCs correspond with the following deed restrictions:

- Land use – restricted from residential housing, elementary and secondary schools, childcare facilities, or playgrounds and must protect remedial operations
- Mitigation of any unacceptable risk prior to new construction or change in current use
- The slabs of Buildings 774, 776, 785, and 786 shall not be compromised without prior written approval of the USEPA, NYSDEC, and the Air Force.

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2 SUB-SLAB VAPOR MITIGATION SYSTEM O&M

2.1 Methods

A sample event for SSVM systems at Buildings 785/786 and 774/775 includes the deployment of summa canisters to collect 12 sub-slab vapor, four indoor air, and two outdoor air samples.

The two SSVM systems are no longer required by the USEPA to conduct influent sampling after conversion from active systems to passive systems. Air samples were collected using pre-cleaned, batch-certified 6-liter summa canisters. Sub-slab soil gas, indoor, and outdoor air samples were collected in summa canisters with laboratory installed vacuum gauges and 8-hour flow controllers.

Summa canisters were staged and flow-control valves opened on the afternoon of December 20, 2022 and collected on the morning of December 21, 2022. **Table 4** presents a list of sampling locations, sample types, and specific sample collection dates for each type of air sample collected. Air sample collection field forms for both SVI sites are included in **Appendix A**. Sampling was performed in accordance with the NYSDEC approved *Final 2016 Update Uniform Federal Policy-Quality Assurance Project Plan for Long Term Management, Former Griffiss Air Force Base, Rome New York* (Bhate, November 2016).

Air samples were sent under chain of custody to SGS North America, Inc., a Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP) certified laboratory in Dayton, New Jersey, for VOC analysis via Method TO-15 (sub-slab, outdoor, and influent air samples) and Method TO-15 Selected Ion Monitoring (SIM) (indoor air samples only). It is important to note that the SIM method has lower detection limits and fewer analytes. Laboratory data packages are included in **Appendix B** and the Data Validation Report is included in **Appendix C**. Data was entered into the Environmental Resources Program Information Management System (ERPIMS) on an annual basis, pending AFCEC review.

2.1.1 Sub-Slab Soil Gas Sampling

Sub-slab VMPs within Buildings 785 (785VMP-2, -4, and -5), 786 (786VMP-1, -2, and -3), 774 (774VMP-1, -2, and -3), and 776 (776VMP-1, -2, and -3) were sampled during the 4th quarter of 2022 using summa canisters. Sub-slab VMP sampling locations are shown on **Figures 2** and **3**. Prior to sub-slab soil gas sample collection, the VMPs were purged at a rate not exceeding 200 milliliters per minute (mL/min) evacuating three volumes of air present in the tubing and the VMP. During the December 2022 sampling event, helium gas tracer testing was conducted before sample collection at 776VMP-2 and 785VMP-2 to ensure the sample was collecting sub-slab, not indoor air. A multi-gas leak locator meter was used to monitor helium concentrations during tracer gas testing.

At the start and end of sampling, a vacuum gauge reading from each summa canister was recorded. The 6-liter summa canisters were connected to the VMP sample ports via inert tubing. Sample flow rates were less than 200 mL/min and sampling continued until a complete 8-hour sample had been collected. After the samples were collected, the valve on the summa canister

was closed, the safety cap installed, and the time and final canister vacuum recorded. Any evidence of canister disturbance during the sample collection period was also recorded.

As indicated in **Table 4**, two field duplicate samples used to validate laboratory analytical data were collected. Air sample collection forms are included in **Appendix A**. Chain-of-custody forms are included with the laboratory analytical reports in **Appendix B**. The Data Validation Report is provided in **Appendix C**.

2.1.2 Indoor Air Sampling

One indoor air sample each was collected from Building 785 (785IA-1), Building 786 (786IA-1), Building 774 (774IA-1), and Building 776 (776IA-1) (**Figures 2** and **3**) utilizing summa cannisters equipped with 8-hour flow controllers. The summa canisters were deployed in areas not subject to disturbances or to interference with the occupants' normal activities, but consistent with previous indoor air sampling events. Initial summa canister vacuums from the integrated vacuum gauges were measured immediately prior to deployment and recorded on the applicable field form. Flow control valves were opened at the beginning of the sample collection period and the start time, outdoor temperature, barometric pressure, and ventilation conditions recorded. The summa canister flow control valves were closed at the end of the sample collection period, the safety cap installed, and the time and final canister vacuum recorded. Any evidence of canister disturbance during the sample collection period was also recorded.

2.1.3 Outdoor Air Sampling

One representative outdoor air sample was collected from the Building 785/786 Site (785OA-1) and one sample was collected from the Building 774/776 Site (776OA-1) during the December 21, 2022, sampling event (**Figures 2** and **3**). Outdoor air samples were collected in the same manner as the indoor air samples.

2.2 Air Sampling Results

Air sample results are discussed by Building 785/786 and 774/775 in the following two sections.

It should be noted that it is infrequent but not unusual for the laboratory detection/quantitation limit for a particular analyte to be above the screening criteria. This should have no impact on the quality or usability of the data because, when this occurs, the magnitude of the exceedance will be considered in conjunction with the intended use of the data to determine its overall impact upon decision making. The detection and quantitation limits in the project Uniform Federal Policy – Quality Assurance Project Plan and laboratory reports represent current and the best available limits for the analytical method and are consistent with DoD Quality System Manual (QSM) guidelines. The laboratory has also reported results following DoD QSM requirements. Non-detects are reported to the limit of detection and detects are reported down to the detection limit.

2.2.1 Buildings 785 and 786

Sub-slab vapor, indoor, and outdoor air sampling results are presented in **Table 5**. The highest sub-slab TCE concentration in Building 785 was 13.8 µg/m^3 at location 785VMP-2 and the highest

sub-slab TCE concentration in Building 786 was 84.1 µg/m^3 at location 786VMP-3. All six sub-slab sample results for TCE were detected at levels below the current USEPA industrial/commercial sub-slab vapor screening level of 99 µg/m^3. In addition, sub-slab results for additional VOCs from VMPs in Buildings 785 and 786 were below their respective sub-slab screening levels during the December 2022 sampling event.

TCE was detected in the indoor air sample collected from Building 785 (14.8 µg/m^3), above the current USEPA industrial/commercial indoor air screening level of 3 µg/m^3, during the December 2022 event. Other detected indoor air VOCs were below their applicable screening criteria. An estimated TCE concentration (0.0884 J µg/m^3) in the Building 786 indoor air sample was reported below applicable screening criteria. All other reported VOC results were non-detect or below screening criteria.

Indoor air sample results indicated TCE concentration above the USEPA industrial/commercial screening level for indoor air within Building 785 but within the acceptable range associated with a cancer risk of 1 x 10^{-6} (3 µg/m^3) to 10^{-4} (300 µg/m^3). Building 786 indoor air, all sub-slab and outdoor air concentrations for TCE were within an acceptable range.

Table 1 compares the December 2022 indoor air and sub-slab sampling results to the USEPA industrial/commercial TCE cancer risk scenario. The comparison indicates TCE results from Building 786 falls under the "*no action"* category. Sample results from Building 785 fall under the *"investigate"* category.

Table 2 compares the December 2022 calculated HI using the USEPA Vapor Intrusion Screening Level calculator for the indoor air and sub-slab sampling results to the USEPA industrial/commercial TCE non-cancer hazard scenario. The comparison indicates TCE concentration from Building 786 was below the non-cancer HI of 1.0 (8.8 µg/m^3) for indoor air and below the HI of 1.0 (293 µg/m^3) for sub-slab. The comparison indicates achievement of "*no action"* criteria under the TCE non-cancer hazard scenario. The comparison indicates TCE concentration from Building 785 was above the non-cancer HI of 1.0 (8.8 µg/m^3) for indoor air and below the HI of 1.0 (293 µg/m^3) for sub-slab. The comparison indicates achievement of "*investigate or pursue remediation"* criteria under the TCE non-cancer hazard scenario.

Table 3 compares the December 2022 indoor air and sub-slab sampling results to the NYSDOH Soil Vapor/Indoor Air Matrix A (May 2017 update) scenario. The comparison indicates achievement of the "*no further action"* criteria for the indoor air and sub-slab samples 786VMP-1, and 786VMP-2. The comparison indicates the "*identify source(s) and resample or mitigate"* criteria for the indoor air and sub-slab samples of 785VMP-4 and 785VMP-5. The comparison indicates the "*mitigate"* criteria for the indoor air and sub-slab samples of 785VMP-2 and 786VMP-3.

Figure 4 shows the sub-slab TCE vapor trend chart in both Buildings 785 and 786. The data indicates TCE vapor concentrations have remained below the USEPA industrial/commercial sub-slab vapor screening level of 99 µg/m^3 at 785VMP-2, -4, and -5 and 786VMP-1, -2, and -3 since initial system start-up in May 2011 except for 786VMP-2 in March 2018 and the primary 785VMP-2 sample from November 2019. The Building 785/786 SSVM system was not operational in March 2018 due to maintenance and repairs (Bhate, January 2019) and TCE sub-slab vapor

concentrations significantly increased. TCE sub-slab vapor concentrations decreased below the screening level of 99 µg/m^3 at 786VMP-1, -2, and -3 during the November 2018 sampling event following re-start of the system.

One outdoor air sample was collected between Buildings 785 and 786. TCE was not detected during the December 2022 sampling event. The indoor and outdoor vapor trend chart in both Buildings 785 and 786 is illustrated on **Figure 5**. No TCE exceedances of either the NYSDOH indoor air action level of 1.0 µg/m^3 or the USEPA Industrial indoor air regulatory action level of 3 µg/m^3 have been observed since 2012.

2.2.2 Buildings 774 and 776

Sub-slab vapor, indoor, and outdoor air sampling results are presented in **Table 6**. The highest sub-slab TCE concentration in Building 774 was 133 µg/m^3 at location 774VMP-1 above the USEPA industrial/commercial sub-slab vapor screening level of 99 µg/m^3; the remainder of the Building 774 sub-slab results were below screening criteria. The highest sub-slab TCE concentration in Building 776 was 1.36 J µg/m^3 at location 776VMP-3 with all results below current USEPA industrial/commercial sub-slab vapor screening level of 99 µg/m^3. Other detected VOC results from Buildings 774/776 sub-slab samples were below their respective sub-slab screening levels.

TCE was detected in the indoor air samples at Building 774 (0.225 µg/m^3) and Building 776 (0.149 J µg/m^3) below the Indoor Screening Value of 3.0 µg/m^3 (USEPA, November 2022). Other analyzed indoor air VOCs in Building 774 and Building 776 were below their applicable screening criteria.

Indoor air sample results indicated TCE concentrations were below the USEPA industrial/commercial screening level for indoor air and within the acceptable range associated with a cancer risk of 1 x 10^{-6} (3 µg/m^3) to 10^{-4} (300 µg/m^3). Sub-slab and outdoor air concentrations for TCE were within an acceptable range. Sub-slab and outdoor air sample concentrations for TCE were within an acceptable range and do not pose any unacceptable risk to building occupants.

Table 1 compares the December 2022 indoor air and sub-slab sampling results to the USEPA industrial/commercial TCE cancer risk scenario. The comparison indicates achievement of "*no action"* criteria under the TCE cancer risk scenario at all locations with the exception of 774VMP-1, which falls under the *"monitor"* category.

Table 2 compares the December 2022 calculated HI using USEPA Vapor Intrusion Screening Level calculator for the indoor air and sub-slab sampling results to the USEPA industrial/commercial TCE non-cancer hazard scenario. All TCE HI were below the non-cancer HI of 1.0 (8.8 µg/m^3) for indoor air and below an HI of 1.0 (293 µg/m^3) for sub-slab. The comparison indicates achievement of "*no action"* criteria under the TCE non-cancer hazard scenario.

Table 3 compares the December 2022 indoor air and sub-slab sampling results to the NYSDOH Soil Vapor/Indoor Air Matrix A (May 2017 update) scenario. The comparison falls under the "*monitor"* criteria for the indoor air and sub-slab samples at 774VMP-2 and 774VMP-3. The comparison falls under the "*mitigate"* criteria for the indoor air and sub-slab sample at

774VMP-1. The comparison indicates achievement of "*no further action"* criteria for the indoor air and sub-slab samples at Building 776.

Figure 6 shows the sub-slab TCE vapor trend chart in Buildings 774 and 776. TCE concentrations remained below the USEPA industrial/commercial sub-slab vapor screening level of 99 µg/m^3 since system start-up in June 2011 until the December 2022 event (133 µg/m^3 at 774VMP-1).

One outdoor air sample was collected between Buildings 774 and 776 and TCE was not detected. The indoor and outdoor vapor trend chart in both Buildings 774 and 776 is illustrated on **Figure 5**.

2.3 SSVM System O&M Performance

Since conversion of both SSVM systems to passive operation, current routine SSVM system O&M activities at the former Griffiss AFB include periodic inspections to verify that the turbines remain undamaged and operating. The Buildings 785/786 and Buildings 774/776 SSVM systems continued to operate as intended in passive mode throughout the reporting period. Passive wind turbine operation does not require scheduled maintenance. Both systems remain active with equipment in place and electricity connected, but de-energized at the control panels allowing for restart if necessary. SSVM system O&M forms are included in **Appendix D**.

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3 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

A TCE exceedance was reported in the indoor sample collected inside Building 785 at a concentration of 14.8 µg/m^3, above the indoor air screening level of 3 µg/m^3. A TCE exceedance was also reported in the sub-slab sample collected beneath Building 774 at a concentration of 133 µg/m^3, above the sub-slab screening level of 99 µg/m^3. **Table 1** indicates *"monitor"* for the 774VMP-1 sample pair (i.e., sub-slab soil vapor/indoor air) and no action for 774VMP-2 and 774VMP-3 sample pairs. All three sample pairs in Building 785 indicate *"investigate"* in **Table 1**, due to the indoor air sample exceedance. The USEPA Soil Vapor/Indoor Air TCE matrix (non-cancer) **Table 2** indicates "*no action"* for each sample pair, soil vapor/indoor air for Buildings 786, 774, and 776. All three sample pairs in Building 785 indicate *"investigate or pursue remediation"* in **Table 2** due to the indoor air sample exceedance. The NYSDOH **Table 3** matrix indicates "*no further action"* for each sample pair, soil vapor/indoor air in Building 776 and for 786VMP-1 and 786VMP-2. Building 774 and 785 sample pairs indicate *"monitor", "mitigate",* or *"identify sources and resample or mitigate*". **Table 3** indicates *"mitigate"* for sample pair 786VMP-3.

The passive systems were operating when inspected during the operating period. The sample result for 774VMP-1 (133 µg/m^3) was anomalously high as was the indoor air sample collected in Building 785 (14.8 µg/m^3) compared to historical results. Resampling of the elevated locations should have occurred later in the 2022/2023 heating season; however, the results were not reported until February 27, 2023 and, due to an oversight, were not evaluated until after the heating season had passed. It is recommended that the Building 785 indoor and outdoor air be resampled as early as possible, even before the 2023/2024 heating season, to document the indoor air quality. It is also recommended to collect not only 785IA-1, which is a location inside the actual aircraft hangar, but also a location inside the separated office space within Building 785.

Performance air monitoring (sub-slab, indoor air, and outdoor air) will be conducted again as early as possible in the 2023/2024 heating season at Buildings 785/786 and 774/776. Helium testing of each VMP location in Buildings 774/776 and 785/786 will be completed rather than the standard 10 percent. This extra step will provide confidence that each VMP sample location is acquiring sub-slab air without indoor air leakage. If TCE exceeds its applicable screening levels during the early sampling event, an additional sampling event will be conducted during the 2023/2024 heating season. As per the Final ROD, if sub-slab soil gas concentrations are reported higher than the industrial use screening criteria for two consecutive sampling events, the active SSVM systems at Sites SD052-01 and/or SD052-02 will be re-started.

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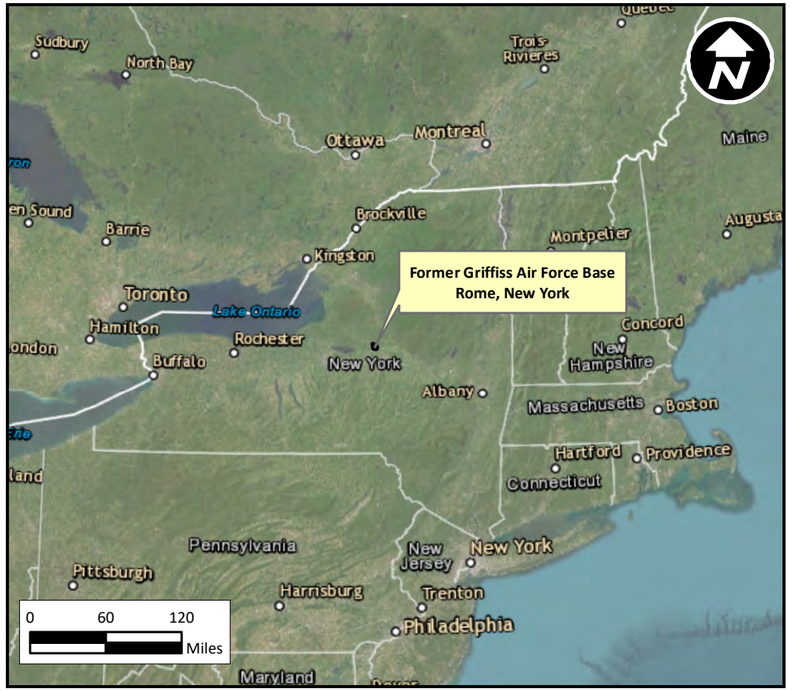
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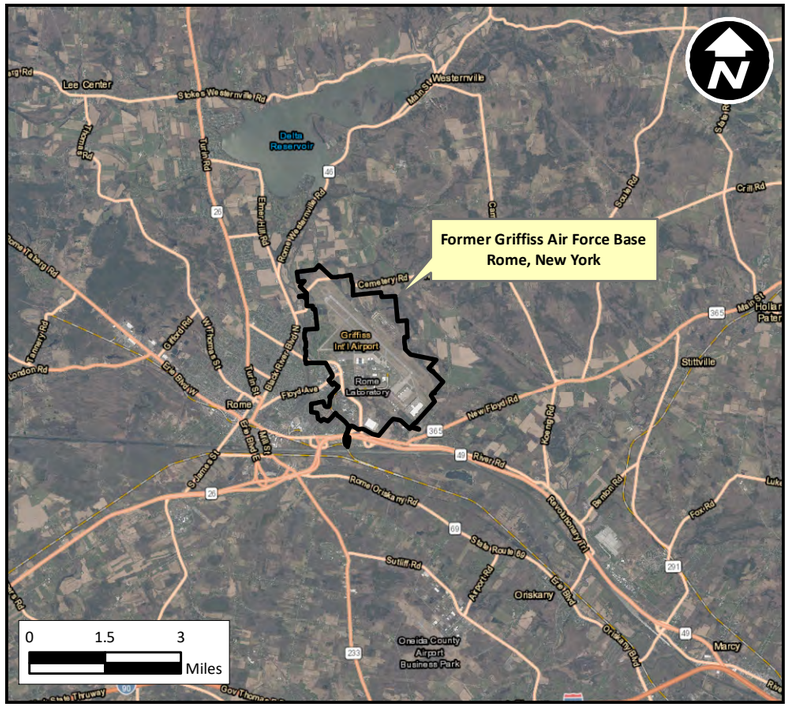
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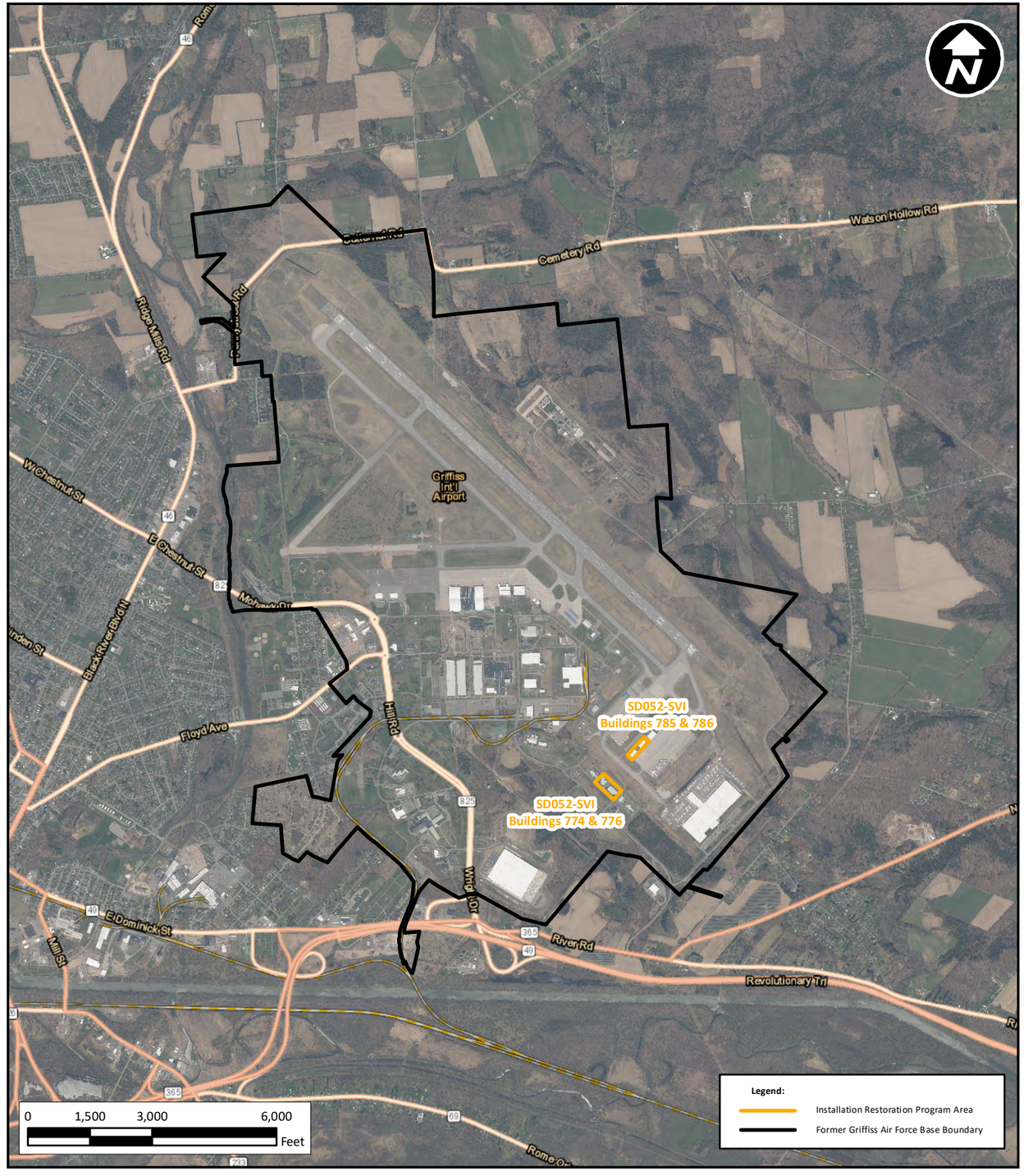
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FIGURES

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Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
NYS ITS Geospatial Services, Westchester County GIS

SD052-SVI Sites Location Map

Figure 1

Operations and Maintenance (2nd through 4th Quarters 2022 and 1st Quarter 2023) and December 2022 Air Sampling Activities Report
SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) and
SD052-02 Building 775 Site (Buildings 774 and 776) Sub-Slab Vapor Mitigation Systems
Former Griffiss AFB, Rome New York

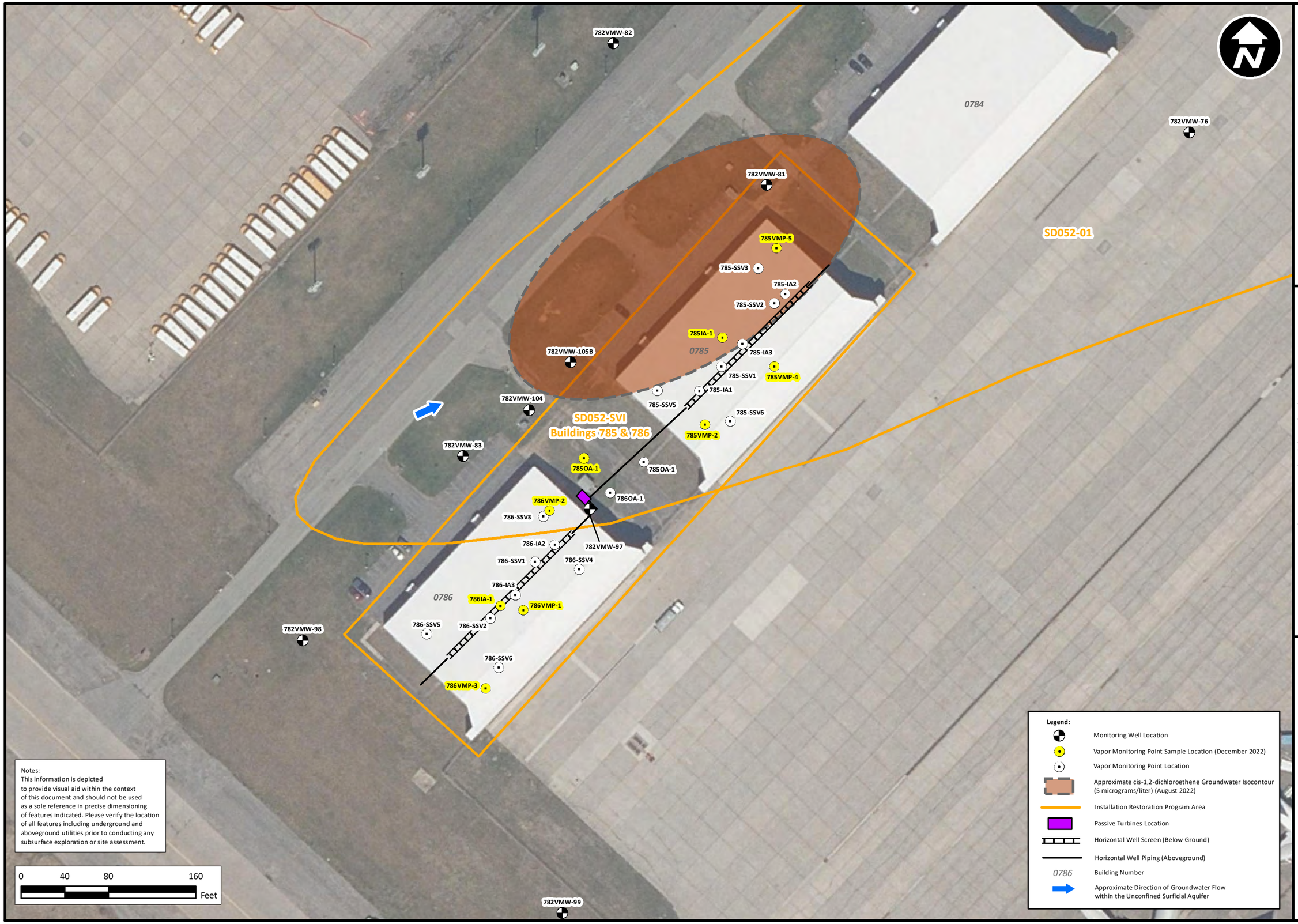
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Figures



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Buildings 785 and 786
Site Features/Sampling Locations

Figure 2

Operations and Maintenance (2nd through 4th Quarters 2022 and 1st Quarter 2023) and December 2022 Air Sampling Activities Report
SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) and
SD052-02 Building 775 Site (Buildings 774 and 776) Sub-Slab Vapor Mitigation Systems
Former Griffiss AFB, Rome New York

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Figures

Buildings 774 and 776
Site Features/Sampling Locations

Figure 3

Operations and Maintenance (2nd through 4th Quarters 2022 and 1st Quarter 2023) and December 2022 Air Sampling Activities Report
SD052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786) and
SD052-02 Building 775 Site (Buildings 774 and 776) Sub-Slab Vapor Mitigation Systems
Former Griffiss AFB, Rome New York

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PROJECT NO: MSC2021.0012

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775VMW-15R1
775MW-2
775VMW-24
774VMP-3
775VMW-14
774-SSV3
774-SSV2
774IA-1
774VMP-2
774-SSV1
774-SSV4
774VMP-1
775VMW-4
776VMP-3
776-SSV3
776OA-1
776-OA1
775VMW-18R
SD052-SVI
Buildings 774 & 776
775VMW-5
775MW-6
776-IA1
776IA-1
776-SSV2
776VMP-2
776-SSV4
776-SSV1
775EW-1
775MW-27
775EW-3
776VMP-1
775EW-1R
LF009
(Landfill 6 AOC)
775VMW-9
775VMW-8
775VMW-16
775VMW-19R
775MW-28
775VMW-10
775-MW20
775-MW20R
775VMW-20R
775-MW20RBR

0750 0770 0774 0776 0778

Perimeter Rd
Phoenix Dr
Ready Rd
Line Ln
Daedilan Dr
789
501
481
707
758
759

Notes:
This information is depicted to provide visual aid within the context of this document and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.

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Legend:

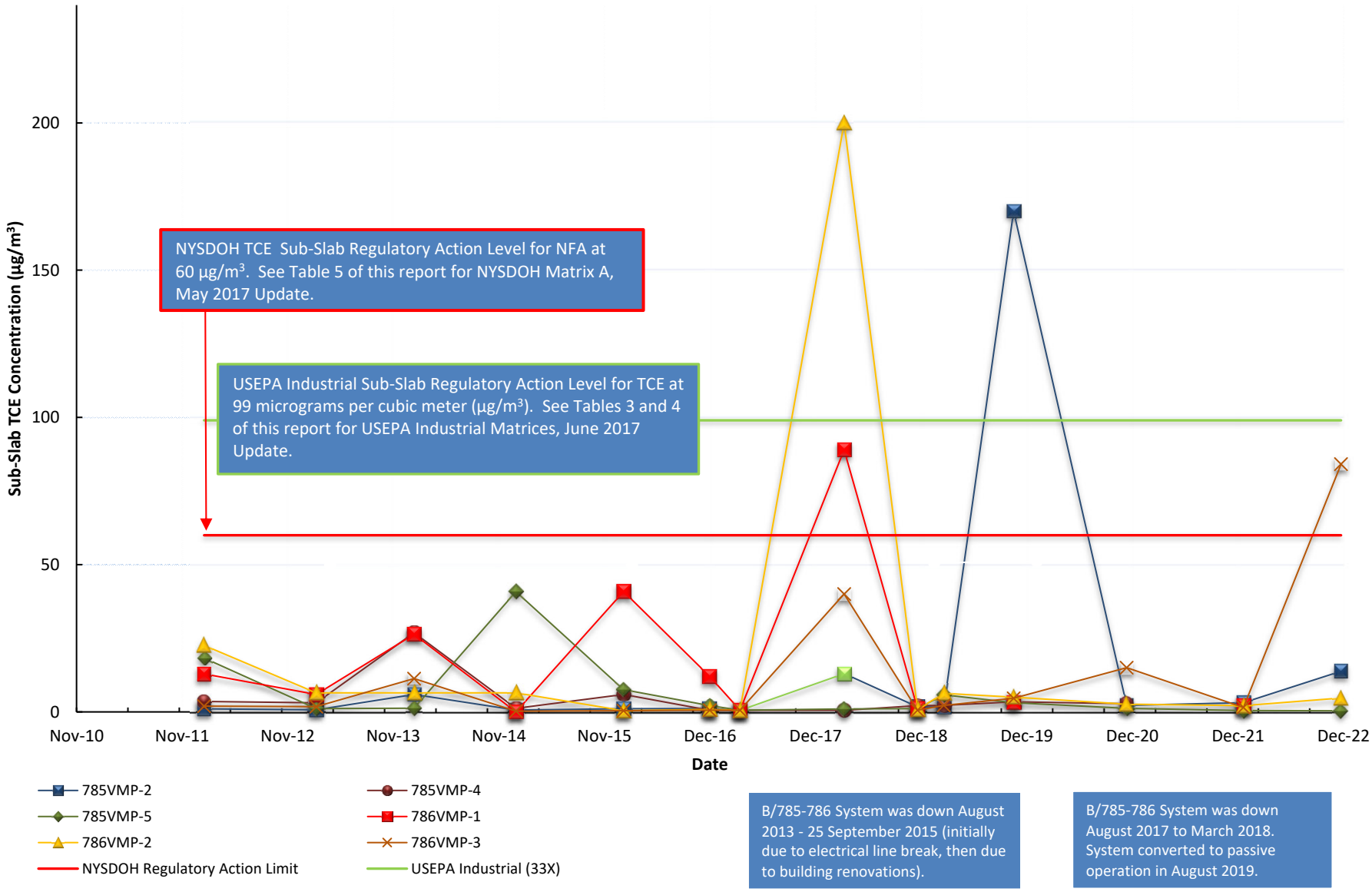
- Monitoring Well Location
- Extraction Well Location
- Vapor Monitoring Point Sample Location (December 2022)
- Vapor Monitoring Point Location
- Approximate Trichloroethene Groundwater Isocontour (5 micrograms/liter) (August 2022)
- Installation Restoration Program Area
- Passive Turbines Location
- Horizontal Well Screen (Below Ground)
- Horizontal Well Piping (Aboveground)
- 0776 Building Number
- Approximate Direction of Groundwater Flow within the Unconfined Surficial Aquifer

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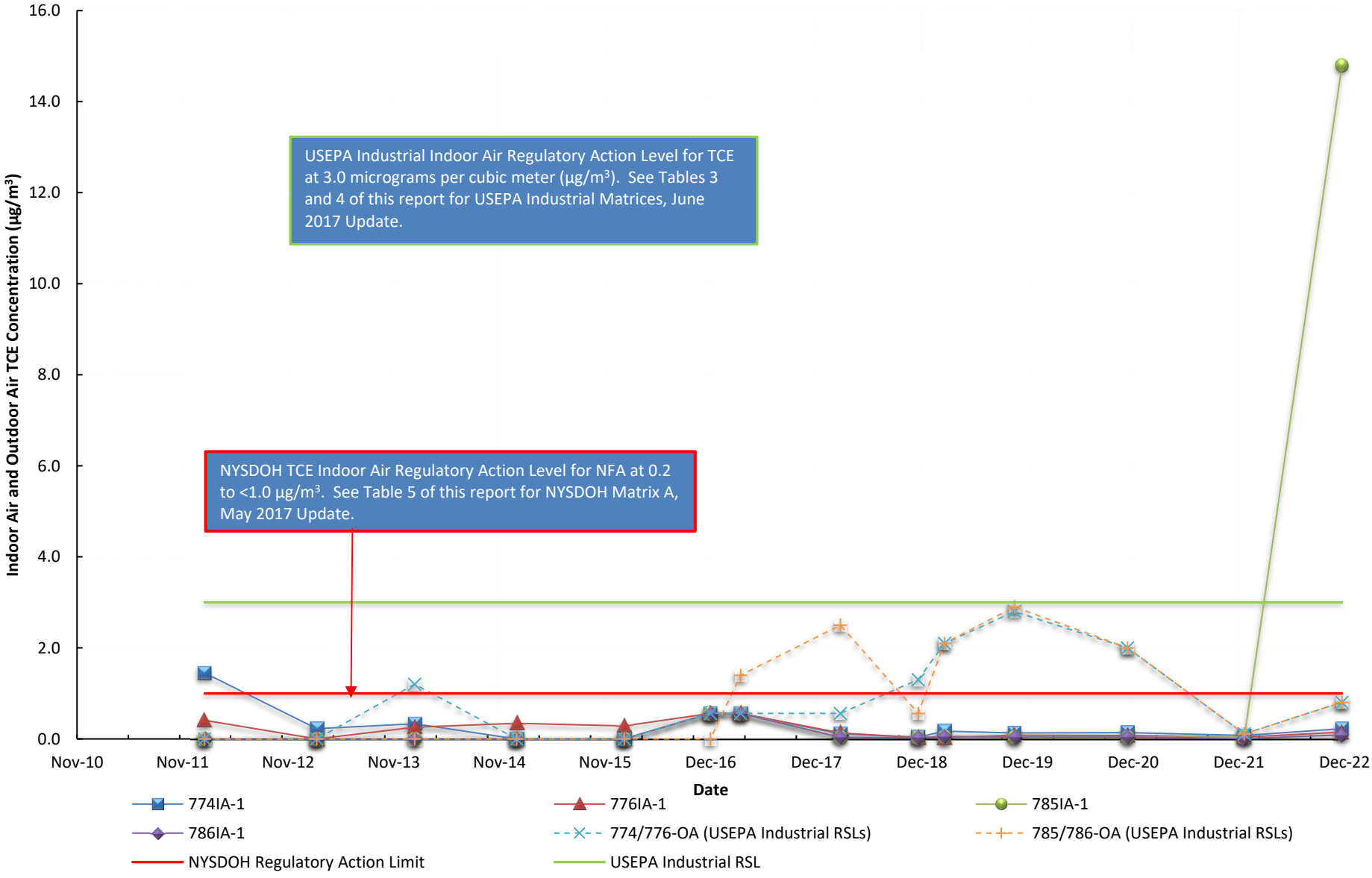
Figures

Figure 4. SD052-SVI Sub-Slab TCE Vapor Concentrations for Buildings 785 and 786
Heating Season Data Only (November 2010 to December 2022)



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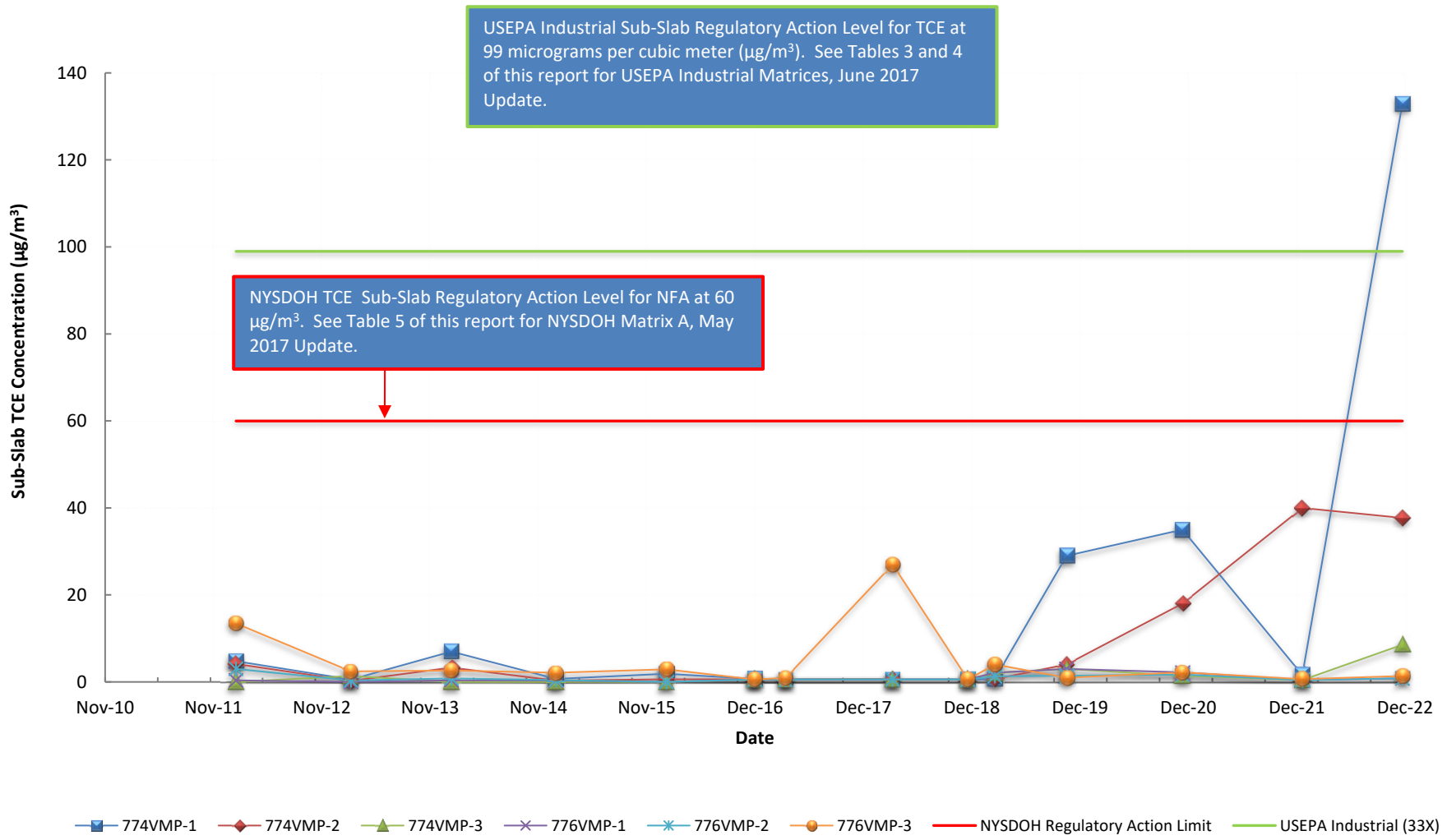
Figure 5. SD052-SVI Indoor and Outdoor TCE Concentrations for Buildings 774 and 776 and Buildings 785 and 786, Heating Season Data Only (November 2010 to December 2022)



Note: All outdoor samples are below USEPA Industrial RSLs and do not pose any unacceptable risk to building occupants.

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Figure 6. SD052-SVI Sub-Slab Vapor Concentrations for Buildings 774 and 776
Heating Season Data Only (November 2010 to December 2022)



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TABLES

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Table 1. SD052-SVI Sites December 2022 TCE Sampling Results
USEPA - Soil Vapor/Indoor Air Matrix - June 2017 Update - TCE Cancer (Commercial/Industrial)

Analytes Assigned: Trichloroethene (TCE)

	INDOOR AIR CONCENTRATION of COMPOUND (µg/m^3)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m^3)	3	30	300
99	(1) No Action 774VMP-2 - 37.7/0.225/December 2022 774VMP-3 - 8.57 /0.225/December 2022 776VMP-1 - 0.804 U/0.149 J/December 2022 776VMP-2 - 0.847 J/0.149 J/December 2022 *776VMP-2 - 0.702 J (FD)/0.149 J/December 2022* 776VMP-3 - 1.36 J/0.149 J/December 2022 786VMP-1 - 0.804 U/0.0884 J/December 2022 786VMP-2 - 4.7/0.0884 J/December 2022 786VMP-3 - 84.1/0.0884 J/December 2022	(2) Investigate 785VMP-2 - 12.8/14.8/December 2022 785VMP-2 - 13.8 (FD)/14.8/December 2022 785VMP-4 - 2.77 /14.8/December 2022 785VMP-5 - 0.380 J/14.8/December 2022	(3) Investigate
1,000	(4) Monitor 774VMP-1 -133/0.225/December 2022	(5) Monitor or Pursue Remediation	(6) Investigate or Pursue Remediation
10,000	(7) Monitor or Pursue Remediation	(8) Pursue Remediation or Monitor	(9) Pursue Remediation

Notes:
µg/m^3 = micrograms per cubic meter
FD - Field Duplicate (results are shown in *italics*)
No action: No additional actions are recommended to address human exposures.

Investigate: Is recommended that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges.

Monitor or Pursue Remediation: Is recommended monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Pursue Remediation: Is recommended to minimize current or potential exposures associated with soil vapor intrusion. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Convention: Sample Name - Sub-Slab Concentration (µg/m^3)/Indoor Air Concentration (µg/m^3)

Data Qualifiers:
U: Not detected at the limit of detection (presented)
J: Estimated

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Table 2. SD052-SVI Sites December 2022 TCE Sampling Results
USEPA - Soil Vapor/Indoor Air Matrix - June 2017 Update - TCE Non-Cancer (Commercial/Industrial)

Analytes Assigned: Trichloroethene (TCE)

	INDOOR AIR CONCENTRATION of COMPOUND (µg/m^3)	
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m^3)	HI < 1 If HI < 1 or TCE Concentration is < 8.8 µg/m^3	HI > 1
HI < 1 If HI < 1 or TCE Concentration is < 293 µg/m^3 - Vapor Intrusion Investigation is Over	(1) No Action 774VMP-1 - 4.54E-01/2.56E-02/December 2022 774VMP-2 - 1.29E-01/2.56E-02/December 2022 774VMP-3 - 2.92E-02/2.56E-02/December 2022 776VMP-1 - 2.74E-03/1.69E-02/December 2022 776VMP-2 - 2.89E-01/1.69E-02/December 2022 *776VMP-2 - 2.40E-03 (FD)/1.69E-02/December 2022* 776VMP-3 - 4.64E-03/1.69E-02/December 2022 786VMP-1 - 2.74E-03/1.00E-02/December 2022 786VMP-2 - 1.60E-02/1.00E-02/December 2022 786VMP-3 - 2.87E-01/1.00E-02/December 2022	(2) Investigate or Pursue Remediation 785VMP-2 - 4.37E-02/1.68/December 2022 785VMP-2 - 4.71E-02(FD)/1.68/December 2022 785VMP-4 - 9.45E-03/1.68/December 2022 785VMP-5 - 1.30E-03/1.68/December 2022
HI > 1	(3) Monitor or Pursue Remediation	(4) Pursue Remediation

Notes
µg/m^3 = micrograms per cubic meter
Hazard Index (HI) = sub-slab value/293 µg/m^3 and indoor value/8.8 µg/m^3
FD - Field Duplicate (results are shown in *italics*)
No action: No additional actions are recommended to address human exposures.

Investigate: Is recommended that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges.

Monitor or Pursue Remediation: Is recommended monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Pursue Remediation: Is recommended to minimize current or potential exposures associated with soil vapor intrusion. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Convention: Sample Name - Sub-Slab Hazard Index (HI)/Indoor Air HI

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Table 3. SD052-SVI Sites December 2022 TCE Sampling Results
NYSDOH - Soil Vapor/Indoor Air Matrix A - May 2017 Update

	INDOOR AIR CONCENTRATION of COMPOUND (µg/m^3)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m^3)	< 0.2	0.2 to < 1	1 and above
< 6	1. No Further action 776VMP-1 - 0.804 U/0.149 J/December 2022 776VMP-2 - 0.847 J/0.149 J/December 2022 776VMP-2 - 0.702 J (FD)/0.149 J/December 2022 776VMP-3 - 1.36 J/0.149 J/December 2022 786VMP-1 - 0.804 U/0.0884 J/December 2022 786VMP-2 - 4.7/0.0884 J/December 2022	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE 785VMP-4 - 2.77 /14.8/December 2022 785VMP-5 - 0.380 J/14.8/December 2022
6 to < 60	4. No Further action	5. MONITOR 774VMP-2 - 37.7/0.225/December 2022 774VMP-3 - 8.57 /0.225/December 2022	6. MITIGATE 785VMP-2 - 12.8/14.8/December 2022 785VMP-2 - 13.8 (FD)/14.8/December 2022
60 and above	7. MITIGATE 786VMP-3 - 84.1/0.0884 J/December 2022	8. MITIGATE 774VMP-1 -133/0.225/December 2022	9. MITIGATE

Notes
µg/m^3 = micrograms per cubic meter
FD - Field Duplicate (results are shown in *italics*)
No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: Is recommended that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges.

Monitor: Is recommended monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: Is recommended to minimize current or potential exposures associated with soil vapor intrusion. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Convention: Sample Name - Sub-Slab Concentration (µg/m^3)/Indoor Air Concentration (µg/m^3)

Data Qualifiers:
U: Not detected at the limit of detection (presented)
J: Estimated

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Table 4. SD052-SVI Sites List of Sub-Slab Vapor, Indoor, and Outdoor Air Samples for SSVM Performance Monitoring
December 2022 (Heating Season)

SD052-SVI Site	Sample Location	Sample ID	Sample Type	Sample Date	Notes
Buildings 785/786	785VMP-2	785-VMP-2_1222	Sub-Slab	12/21/2022	8-hour sample duration, Collected 785-VMP-2_011422-A as a duplicate
	785VMP-4	785-VMP-4_1222	Sub-Slab	12/21/2022	8-hour sample duration
	785VMP-5	785-VMP-5_1222	Sub-Slab	12/21/2022	8-hour sample duration
	785IA-1	785-IA-1_1222	Indoor Air	12/21/2022	8-hour sample duration
	785OA-1	785-OA-1_1222	Outdoor Air	12/21/2022	8-hour sample duration
	786VMP-1	786-VMP-1_1222	Sub-Slab	12/21/2022	8-hour sample duration
	786VMP-2	786-VMP-2_1222	Sub-Slab	12/21/2022	8-hour sample duration
	786VMP-3	786-VMP-3_1222	Sub-Slab	12/21/2022	8-hour sample duration
	786IA-1	786-IA-1_1222	Indoor Air	12/21/2022	8-hour sample duration
Buildings 774/776	774VMP-1	774-VMP-1_1222	Sub-Slab	12/21/2022	8-hour sample duration
	774-VMP-2	774-VMP-2_1222	Sub-Slab	12/21/2022	8-hour sample duration
	774-VMP-3	774-VMP-3_1222	Sub-Slab	12/21/2022	8-hour sample duration
	774IA-1	774-IA-1_1222	Indoor Air	12/21/2022	8-hour sample duration
	776VMP-1	776-VMP-1_1222	Sub-Slab	12/21/2022	8-hour sample duration
	776VMP-2	776-VMP-2_1222	Sub-Slab	12/21/2022	8-hour sample duration, Collected 776-VMP-2_1222-A as a duplicate
	776VMP-3	776-VMP-3_1222	Sub-Slab	12/21/2022	8-hour sample duration
	776IA-1	776-IA-1_1222	Indoor Air	12/21/2022	8-hour sample duration
	776OA-1	776-OA-1_1222	Outdoor Air	12/21/2022	8-hour sample duration

Notes:
SVI = Soil Vapor Intrusion
ID = Identification
SSVM = Sub-Slab Vapor Mitigation

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Table 5. SD052-SVI Site Buildings 785 and 786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results
(December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	785VMP-2																																	
Field Sample Identification			785VMP-2_1216		785VMP-2_1216-a		785VMP-2_0317		785VMP-2_0317-a		785VMP-2_0318		785VMP-2_0318-a		785VMP-2_1118		785VMP-2_1118-a		785VMP-2_0319		785VMP-2_0319-a		785-VMP-2_1119		785-VMP-2_1119-a		785-VMP-2_1220		785-VMP-2_1220-a		785-VMP-2_011422		785-VMP-2_011422-A		785-VMP-2_1222		785-VMP-2_1222	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate	
Date of Collection			12/1/2016		12/1/2016		3/17/2017		3/17/2017		3/21/2018		3/21/2018		11/29/2018		11/29/2018		3/25/2019		3/25/2019		11/19/2019		11/19/2019		12/2/2020		12/2/2020		1/14/2022		1/14/2022		12/21/2022		12/21/2022	
Sample Depth (feet bgs / ags)			2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8	
VOCs (µg/m³)																																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	**0.82**	**J**	3.4	U	2.2	U	2.3	U	2.2	U	2.2	U	0.816	U	0.816	U
1,1,2,2-Tetrachloroethane	0.21	6.93	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	1.4	U	3.7	U	4.3	U	2.8	U	2.9	U	2.7	U	2.7	U	1.03	U	1.03	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	**1**	**J**	4.8	U	3.1	U	3.3	U	3.1	U	3.1	U	**2.34**	**J**	**2.75**	**J**
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	2.9	U	3.4	U	2.2	U	2.3	U	2.2	U	2.2	U	1.09	U	1.09	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.2	U	2.6	U	1.6	U	1.7	U	1.6	U	1.6	U	0.601	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.1	U	2.5	U	1.6	U	1.7	U	1.6	U	1.6	U	0.793	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	15	U	18	U	12	U	13	U	4.5	U	4.5	U	2.29	U	2.29	U
1,2,4-Trimethylbenzene	260	8,580	2	U	2	U	**4**	**J**	**7.2**	**J**	**1.1**	**J**	**0.94**	**J**	**7.7**		2	U	**2.8**	**J**	**2.5**	**J**	**4.5**	**J**	**4.2**	**J**	**3.4**	**J**	**4.2**	**J**	2	U	2	U	**2.91**		**2.89**	
1,2-Dibromoethane (EDB)	0.02	0.7	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*4.1*	*U*	*4.8*	*U*	*3.1*	*U*	*3.3*	*U*	*4.6*	*U*	*4.6*	*U*	1.15	U	1.15	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.2	U	3.8	U	2.4	U	2.6	U	2.4	U	2.4	U	1.8	U	1.8	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.2	U	2.6	U	1.6	U	1.7	U	1.6	U	1.6	U	0.607	U	0.607	U
1,2-Dichloropropane	3.3	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	2.5	U	2.9	U	1.8	U	2	U	1.8	U	1.8	U	0.924	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	2	U	2	U	**1.4**	**J**	**2.3**	**J**	2	U	2	U	**2.7**	**J**	2	U	**0.91**	**J**	**0.91**	**J**	**1.7**	**J**	**1.6**	**J**	**1.3**	**J**	**1.2**	**J**	2	U	2	U	**0.952**	**J**	**0.854**	**J**
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	**1.5**	**J**	**3.2**	**J**	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.2	U	3.8	U	2.4	U	2.6	U	4.2	U	4.2	U	2.4	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.2	U	3.8	U	2.4	U	2.6	U	2.4	U	2.4	U	0.782	U	0.782	U
2-Butanone (MEK)	22,000	726,000	**3**		**3.1**		**5.5**		**7**		**2.7**		**2.6**		**5.4**		**4.6**		**43**		**40**		**4.6**	**J**	**4.3**	**J**	**55**	**J**	**20**	**J**	**2.2**	**J**	**2.8**		**3.36**	**J**	**4.33**	
2-Hexanone	130	4,290	**0.68**	**J**	**0.65**	**J**	**0.46**	**J**	0.82	U	**0.47**	**J**	**0.41**	**J**	**1.7**		0.82	U	**1.3**	**J**	**1.5**	**J**	8.2	U	9.7	U	6.9	U	7.3	U	2.5	U	2.5	U	1.23	U	1.23	U
4-Ethyltoluene	NA	NA	2	U	2	U	**1.8**	**J**	**2.4**	**J**	2	U	**1.1**	**J**	**1.8**	**J**	2	U	2	U	2	U	**3.8**		**3.5**	**J**	**3.6**		**3.4**	**J**	2.9	U	2.9	U	**2.89**		**2.57**	
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	**2.3**	**J**	**4.6**	**J**	1.6	U	1.6	U	1.6	U	1.6	U	**1.7**	**J**	**1.7**	**J**	2.2	U	2.6	U	**5.1**	**J**	**2.1**	**J**	1.6	U	1.6	U	**0.475**	**J**	**0.438**	**J**
Acetone	NA	NA	**8.8**	**J**	**8.7**	**J**	**23**		**31**		**13**		**11**	**J**	**13**		**12**		**38**		**36**		**15**	**J**	**29**	**J**	**200**	**J**	**110**	**J**	**6.2**		**7.8**		**5.51**	**J**	**9.39**	**J**
Benzene	1.6	52.8	**0.32**	**J**	**0.28**	**J**	**3.3**		**3.5**		**0.71**	**J**	**0.49**	**J**	**0.44**	**J**	**0.39**	**J**	**0.96**	**J**	**0.91**	**J**	**1.5**	**J**	**1.7**	**J**	**0.97**	**J**	**0.94**	**J**	**1.4**	**J**	**1.4**	**J**	**4.5**		**5.02**	
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.8	U	3.3	U	2.1	U	2.2	U	2.1	U	2.1	U	0.675	U	0.675	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	3.6	U	4.2	U	2.7	U	2.9	U	2.7	U	2.7	U	1.01	U	1.01	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.5	U	6.5	U	4.2	U	4.4	U	4.1	U	4.1	U	3.21	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	7.8	U	9.2	U	6.5	U	6.9	U	1.6	U	1.6	U	0.776	U	0.776	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	1.2	U	1.4	U	0.89	U	0.95	U	0.88	U	0.88	U	1.39	U	1.39	U
Carbon disulfide	3,100	102,300	1.2	U	**0.54**	**J**	1.2	U	**0.49**	**J**	1.2	U	1.2	U	1.2	U	**14**		**0.91**	**J**	**0.79**	**J**	**3.6**	**J**	7.4	U	5.2	U	5.6	U	1.2	U	1.2	U	**0.598**	**J**	**1.14**	**J**
Carbon tetrachloride	2	66	1.3	U	1.3	U	1.3	U	1.3	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	3.4	U	4	U	2.5	U	2.7	U	2.5	U	2.5	U	0.945	U	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	2.5	U	2.9	U	1.8	U	2	U	1.8	U	1.8	U	0.924	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.3	U	6.2	U	4.4	U	4.7	U	1.1	U	1.1	U	0.528	U	0.528	U
Chloroform	0.53	17.49	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	**0.65**	**J**	3.1	U	2	U	2.1	U	2	U	2	U	0.73	U	0.73	U
Chloromethane	390	12,870	**0.79**	**J**	**0.76**	**J**	**1.5**	**J**	**1.9**		**2.5**		**2.2**		**0.89**	**J**	**0.88**	**J**	**4.9**		**4.5**		**3.4**	**J**	**1.9**	**J**	**2.3**	**J**	**1.9**	**J**	**1.9**	**J**	**2.9**	**J**	**1**	**J**	**1.24**	
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	**0.38**	**J**	0.79	U	0.79	U	**2.3**	**J**	2.5	U	1.6	U	1.7	U	1.6	U	1.6	U	0.793	U	**0.622**	**J**
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2.4	U	2.9	U	1.8	U	1.9	U	1.8	U	1.8	U	0.681	U	0.681	U
Dibromochloromethane	NA	NA	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	1.7	U	4.6	U	5.4	U	3.4	U	3.6	U	3.4	U	3.4	U	1.28	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.2**	**J**	**2.2**	**J**	**2.8**	**J**	**2.7**	**J**	**1.7**	**J**	**1.8**	**J**	**1.7**	**J**	**1.6**	**J**	**2.6**	**J**	**2.3**	**J**	**2.9**	**J**	**2.8**	**J**	**2.2**	**J**	**2.3**	**J**	**2.1**	**J**	**2.2**	**J**	**2.23**	**J**	**2.36**	**J**
Ethylbenzene	4.9	161.7	0.87	U	0.87	U	**3.3**	**J**	**5.2**	**J**	**0.3**	**J**	**0.35**	**J**	**1.6**	**J**	0.87	U	**1.6**	**J**	**1.5**	**J**	**1.6**	**J**	**1.2**	**J**	**24**	**J**	**6.8**	**J**	1.7	U	1.7	U	**3.57**		**3.39**	
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	*21*	*U*	*25*	*U*	18	U	*19*	*U*	4.3	U	4.3	U	2.67	U	2.67	U
Methyl tert-butyl ether	47	1,551	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	1.4	U	7.2	U	8.5	U	6	U	6.4	U	1.4	U	1.4	U	0.468	U	0.468	U
Methylene Chloride	1,200	39,600	**0.33**	**J**	**0.26**	**J**	**0.5**	**J**	**0.47**	**J**	**0.45**	**J**	0.69	U	0.69	U	0.69	U	**0.29**	**J**	**0.36**	**J**	7	U	8.2	U	5.8	U	6.2	U	1.4	U	1.4	U	**0.549**	**J**	**0.431**	**J**
m-Xylene & p-Xylene	880***	NA	**0.65**	**J**	**0.64**	**J**	**12**	**J**	**18**	**J**	**1**	**J**	**0.91**	**J**	**6.6**		0.87	U	**5.9**		**5.4**		**5.2**		**4.5**		**91**	**J**	**26**	**J**	2.6	U	2.6	U	**12.7**		**11.8**	
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	**1.2**	**J**	**0.78**	**J**	0.88	U	**0.71**	**J**	3.1	U	3.1	U	3.66	U	3.66	U
o-Xylene	440	14,520	**0.26**	**J**	**0.28**	**J**	**4.7**	**J**	**7.7**	**J**	**0.48**	**J**	**0.45**	**J**	**2.9**		0.87	U	**1.8**		**1.7**		**2.2**	**J**	**2.4**	**J**	**28**	**J**	**8.1**	**J**	1.7	U	1.7	U	**4.23**		**4.06**	
Styrene	4,400	145,200	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	**1.1**	**J**	2.7	U	**4.1**	**J**	**1.3**	**J**	2.6	U	2.6	U	0.851	U	0.851	U
Tetrachloroethene	47	1,551	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	1.4	U	3.6	U	4.3	U	2.7	U	**34**		0.68	U	0.68	U	1.36	U	1.36	U
Toluene	22,000	726,000	**0.9**	**J**	**0.64**	**J**	**15**	**J**	**22**	**J**	**0.93**	**J**	**0.89**	**J**	**2.00**	**J**	**0.45**	**J**	**12**		**11**		**7.8**	**J**	**20**	**J**	**40**	**J**	**26**	**J**	**2.9**	**J**	**2.9**	**J**	**25.3**		**27.5**	
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	**3.8**	**J**	**22**	**J**	1.6	U	1.7	U	1.6	U	1.6	U	**0.361**	**J**	**0.367**	**J**
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.4	U	2.9	U	1.8	U	1.9	U	2.7	U	2.7	U	0.681	U	0.681	U
Trichloroethene	3	99	**1.1**	**J**	**1**	**J**	2.1	U	2.1	U	**13**		**13**		**1.7**	**J**	**1.5**	**J**	**1.6**	**J**	**1.6**	**J**	**170**	**J**	**20**	**J**	2.2	U	**2**	**J**	**3.1**	**J**	**7.5**	**J**	**12.8**		**13.8**	
Trichlorofluoromethane (Freon 11)	NA	NA	**1.2**	**J**	**1.2**	**J**	**1.5**	**J**	**1.5**	**J**	**1.5**	**J**	**1.5**	**J**	**1.3**	**J**	**1.2**	**J**	**1.7**	**J**	**1.4**	**J**	**1.2**	**J**	**1.3**	**J**	**1.2**	**J**	**1.1**	**J**	2.2	U	2.2	U	**1.33**	**J**	**1.4**	**J**
Vinyl acetate	880	29,040	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	1.4	U	7.1	U	8.3	U	5.9	U	6.3	U	2.1	U	2.1	U	0.88	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	**0.51**	**J**	1.6	U	1	U	1.1	U	1	U	1	U	0.511	U	0.511	U

Notes:
µg/m³ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = hazard quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 5. SD052-SVI Site Buildings 785 and 786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	785VMP-4																			
Field Sample Identification			785VMP-4_1216		785VMP-4_0317		785VMP-4_0318		785VMP-4_1118		785VMP-4_0319		785-VMP-4_1119		785-VMP-4_1220		785-VMP-4_011422		785-VMP-4_1222	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/17/2017		3/21/2018		11/29/2018		3/25/2019		11/19/2019		12/2/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			1		1		1		1		1		1		1		1		1	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8	
VOCs (µg/m³)																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.4	U	NA		2.2	U	0.816	U
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	4.3	U	NA		2.7	U	1.03	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	**1.2**	**J**	3.1	U	3.1	U	4.8	U	NA		3.1	U	**1.19**	**J**
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.4	U	NA		2.2	U	1.09	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.6	U	NA		1.6	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.5	U	NA		1.6	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	18	U	NA		4.5	U	2.29	U
1,2,4-Trimethylbenzene	260	8,580	**13**		**4.5**		**4.5**		**4**		**5.8**		**7.6**	**J**	NA		2	U	**1.41**	**J**
1,2-Dibromoethane (EDB)	0.02	0.7	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*4.8*	*U*	*NA*		*4.6*	*U*	1.15	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.8	U	NA		2.4	U	1.8	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.6	U	NA		1.6	U	0.607	U
1,2-Dichloropropane	3.3	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	2.9	U	NA		1.8	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	**3.5**	**J**	**1.5**	**J**	**1.5**	**J**	**1.7**	**J**	**1.9**	**J**	**2.2**	**J**	NA		2	U	**0.431**	**J**
1,3-Dichlorobenzene	NA	NA	2.4	U	**2**	**J**	2.4	U	2.4	U	2.4	U	3.8	U	NA		4.2	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.8	U	NA		2.4	U	0.782	U
2-Butanone (MEK)	22,000	726,000	**1**	**J**	**4.9**		1.2	U	**9.9**		**7.9**		**20**		NA		**2**	**J**	**6.87**	
2-Hexanone	130	4,290	0.82	U	**0.38**	**J**	0.82	U	**0.42**	**J**	0.82	U	9.7	U	NA		2.5	U	1.23	U
4-Ethyltoluene	NA	NA	**4.2**		**1.9**	**J**	2	U	**1.2**	**J**	**1.4**	**J**	**6.2**		NA		2.9	U	**1.26**	**J**
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	**1.9**	**J**	1.6	U	**1.2**	**J**	**1.4**	**J**	2.6	U	NA		1.6	U	**1.2**	**J**
Acetone	NA	NA	**55**		**32**		**25**		**37**		**32**		**52**		NA		**7.6**		**23.2**	
Benzene	1.6	52.8	**1.3**		**2.8**		**0.56**	**J**	**0.67**	**J**	**2**		**1.9**	**J**	NA		**1.8**	**J**	**2.33**	
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	3.3	U	NA		2.1	U	0.675	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	4.2	U	NA		2.7	U	1.01	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	6.5	U	NA		4.1	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	9.2	U	NA		1.6	U	0.776	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	1.4	U	NA		0.88	U	1.39	U
Carbon disulfide	3,100	102,300	**0.63**	**J**	1.2	U	1.2	U	**10**		1.2	U	7.4	U	NA		1.2	U	0.778	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	2.5	U	2.5	U	2.5	U	4	U	NA		2.5	U	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	2.9	U	NA		1.8	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	6.2	U	NA		1.1	U	0.528	U
Chloroform	0.53	17.49	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	3.1	U	NA		2	U	0.73	U
Chloromethane	390	12,870	**0.49**	**J**	**1.3**	**J**	**1.1**	**J**	**17**		**0.76**	**J**	**22**		NA		**1.8**		**0.622**	**J**
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.5	U	NA		1.6	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2.9	U	NA		1.8	U	0.681	U
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	5.4	U	NA		3.4	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.1**	**J**	**3**	**J**	**2**	**J**	**1.6**	**J**	**2.5**	**J**	**2.4**	**J**	NA		**2.1**	**J**	**2.4**	**J**
Ethylbenzene	4.9	161.7	**1.7**		**2.8**		**0.53**	**J**	**1.4**	**J**	**2.3**		**1.6**	**J**	NA		1.7	U	**2.12**	
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	13	U	*25*	*U*	NA		4.3	U	2.67	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	8.5	U	NA		1.4	U	0.468	U
Methylene Chloride	1,200	39,600	**0.35**	**J**	**0.49**	**J**	**0.47**	**J**	**0.27**	**J**	**0.38**	**J**	8.2	U	NA		**3**		**6.18**	
m-Xylene & p-Xylene	880***	NA	**5.6**		**9.8**		**1.5**	**J**	**5.4**		**8.5**		**5.8**		NA		2.6	U	**7.28**	
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	1.2	U	NA		3.1	U	3.66	U
o-Xylene	440	14,520	**3.5**		**4.4**		**0.94**	**J**	**2.3**		**2.7**		**2.6**	**J**	NA		1.7	U	**2.33**	
Styrene	4,400	145,200	**1.2**	**J**	0.85	U	0.85	U	0.85	U	0.85	U	2.7	U	NA		2.6	U	**0.472**	**J**
Tetrachloroethene	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	4.3	U	NA		0.68	U	1.36	U
Toluene	22,000	726,000	**2.2**		**11**		**0.97**	**J**	**2.4**		**16**		**11**		NA		**4.9**		0.942	U
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	**31**		NA		1.6	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.9	U	NA		2.7	U	0.681	U
Trichloroethene	3	99	2.1	U	2.1	U	2.1	U	**2.1**	**J**	**2.2**	**J**	3.4	U	NA		0.43	U	**2.77**	
Trichlorofluoromethane (Freon 11)	NA	NA	**1.2**	**J**	**1.7**	**J**	**1.6**	**J**	**1.4**	**J**	**1.5**	**J**	**1.4**	**J**	NA		2.2	U	**1.52**	**J**
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	8.3	U	NA		2.1	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1.6	U	NA		1	U	0.511	U

Notes:
µg/m³ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = hazard quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 5. SD052-SVI Site Buildings 785 and 786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	785VMP-5																			
Field Sample Identification			785VMP-5_1216		785VMP-5_0317		785VMP-5_0318		785VMP-5_1118		785VMP-5_0319		785-VMP-5_1119		785-VMP-5_1220		785-VMP-5_011422		785-VMP-5_1222	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/17/2017		3/21/2018		11/29/2018		3/25/2019		11/19/2019		12/2/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			1		1		1		1		1		1		1		1		1	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.1	U	2.2	U	2.2	U	0.816	U
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	1.4	U	**2.3**	J	4	U	2.8	U	2.7	U	1.03	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	4.4	U	3.1	U	3.1	U	1.53	U
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.1	U	2.2	U	2.2	U	1.09	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.3	U	1.6	U	1.6	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.3	U	1.6	U	1.6	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	8.9	U	**7.6**	J	16	U	12	U	4.5	U	2.29	U
1,2,4-Trimethylbenzene	260	8,580	2	U	**11**		2	U	2	U	**4.9**		**0.43**	J	**1.1**	J	2	U	**0.393**	J
1,2-Dibromoethane (EDB)	0.02	0.7	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	**0.6**	J	*4.4*	*U*	*3.1*	*U*	*4.6*	*U*	1.15	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	**3.9**	J	3.5	U	2.4	U	2.4	U	1.8	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.3	U	1.6	U	1.6	U	0.607	U
1,2-Dichloropropane	3.3	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	2.7	U	1.9	U	1.8	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	2	U	**3.4**	J	2	U	2	U	**3**	J	2.8	U	**0.36**	J	2	U	0.982	U
1,3-Dichlorobenzene	NA	NA	2.4	U	**4.8**		2.4	U	2.4	U	**3.7**	J	3.5	U	2.4	U	4.2	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	**3.7**	J	3.5	U	2.4	U	2.4	U	0.782	U
2-Butanone (MEK)	22,000	726,000	**1.5**	J	**5.7**		1.2	U	1.2	U	1.2	U	**8.9**		5	U	**1.9**	J	**1.27**	J
2-Hexanone	130	4,290	0.82	U	0.82	U	0.82	U	0.82	U	**1**	J	8.8	U	6.9	U	2.5	U	1.23	U
4-Ethyltoluene	NA	NA	2	U	**2.4**	J	2	U	2	U	**3.3**	J	2.8	U	**0.87**	J	2.9	U	0.982	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	**3.4**		1.6	U	1.6	U	**0.62**	J	2.4	U	1.6	U	1.6	U	0.778	U
Acetone	NA	NA	**45**		**30**		**8**	J	**150**		**7.3**	J	**39**		**5.2**	J	**16**		**10.2**	
Benzene	1.6	52.8	**3.7**		**1.9**		**0.47**	J	**0.4**	J	**0.67**	J	**0.78**	J	**0.49**	J	1.3	U	**0.642**	J
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	**2**	J	3	U	2.1	U	2.1	U	0.675	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	3.8	U	2.7	U	2.7	*U*	1.01	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	**1.8**	J	6	U	4.2	U	4.1	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	8.4	U	6.6	U	1.6	U	0.776	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	1.3	U	0.9	U	0.88	U	1.39	U
Carbon disulfide	3,100	102,300	**0.54**	J	1.2	U	1.2	U	1.2	U	1.2	U	6.7	U	**6.2**	J	1.2	U	0.778	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	2.5	U	2.5	U	2.5	U	3.6	U	2.5	U	2.5	U	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	**1.4**		2.6	U	1.9	U	1.8	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.7	U	4.4	U	1.1	U	0.528	U
Chloroform	0.53	17.49	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	2.8	U	2	U	2	U	0.73	U
Chloromethane	390	12,870	**0.48**	J	**1**	J	**0.89**	J	**0.72**	J	**0.72**	J	4.5	U	3.5	U	**0.89**	J	**0.556**	J
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.3	U	1.6	U	1.6	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2,6	U	1.8	U	1.8	U	0.681	U
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	4.9	U	3.4	U	3.4	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.1**	J	**2.8**	J	**1.6**	J	**1.7**	J	**2.2**	J	**2.4**	J	**2.3**	J	**2.3**	J	**2.2**	J
Ethylbenzene	4.9	161.7	**0.47**	J	**5.8**		**0.27**	J	0.87	U	**1.6**	J	2.5	U	**0.57**	J	1.7	U	**0.455**	J
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	**8.7**	J	*23*	*U*	18	U	4.3	U	2.67	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.8	U	6.1	U	1.4	U	0.468	U
Methylene Chloride	1,200	39,600	**0.32**	J	**0.5**	J	**1.2**	J	0.69	U	**0.39**	J	7.5	U	5.9	U	1.4	U	**0.722**	J
m-Xylene & p-Xylene	880***	NA	**0.87**	J	**21**		**0.46**	J	0.87	U	**4.4**		**0.85**	J	**2.2**	J	2.6	U	**1.12**	J
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	**5.1**	J	1.1	U	**0.25**	J	*3.1*	*U*	3.66	U
o-Xylene	440	14,520	**0.34**	J	**9.9**		0.87	U	0.87	U	**2.2**		2.5	U	**0.69**	J	1.7	U	**0.46**	J
Styrene	4,400	145,200	**1.9**		0.85	U	**0.59**	J	0.85	U	**2.4**		2.4	U	**0.51**	J	2.6	U	**0.41**	J
Tetrachloroethene	47	1,551	1.4	U	1.4	U	**0.35**	J	1.4	U	**0.88**	J	3.9	U	2.7	U	0.68	U	1.36	U
Toluene	22,000	726,000	**1.1**	J	**12**		**0.72**	J	**0.22**	J	**2.4**		**3.6**		**7.6**		2.3	U	**2.17**	
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	**4.6**		**1.1**	J	1.6	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.6	U	1.8	U	2.7	U	0.681	U
Trichloroethene	3	99	**2.1**	J	2.1	U	**0.97**	J	**1.1**	J	**5.8**		3.1	U	**1.2**	J	0.43	U	**0.38**	J
Trichlorofluoromethane (Freon 11)	NA	NA	**1.3**	J	**1.5**	J	**1.6**	J	**1.3**	J	**1.5**	J	**1.3**	J	**0.97**	J	2.2	U	**1.34**	J
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.6	U	5.9	U	2.1	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1.5	U	1	U	1	U	0.511	U

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = hazard quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 5. SD052-SVI Site Buildings 785 and 786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	785IA-1																			
Field Sample Identification			785IA-1_1216		785IA-1_0317		785IA-1_0318		785IA-1_1118		785IA-1_0319		785-IA-1_1119		785-IA-1_1220		785-IA-1_011422		785-IA-1_1222	
Sample Location			Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/17/2017		3/21/2018		11/29/2018		3/25/2019		11/19/2019		12/2/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			5		5		5		5		5		5		5		5		5	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	0.055	U	0.055	U	0.055	U	0.044	U	**0.016**	**J**	0.0082	U	0.103	U
1,1,2,2-Tetrachloroethane	0.21	6.93	*1.4*	*U*	*1.4*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	0.77	25.4	*1.1*	*U*	*1.1*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	0.04	U	0.04	U	0.04	U	0.032	U	0.043	U	0.004	U	0.0753	U
1,2,4-Trichlorobenzene	8.8	290	*8.9*	*U*	*8.9*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,2,4-Trimethylbenzene	260	8,580	2	U	2	U	NA		NA		NA		NA		NA		NA		NA	
1,2-Dibromoethane (EDB)	0.02	0.7	*1.5*	*U*	*1.5*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	0.47	15.5	*0.81*	*U*	*0.81*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloropropane	3.3	108.9	*3.7*	*U*	*3.7*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,3,5-Trimethylbenzene	260	8,580	2	U	2	U	NA		NA		NA		NA		NA		NA		NA	
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	1.1	36.3	*2.4*	*U*	*2.4*	*U*	NA		NA		NA		NA		NA		NA		NA	
2-Butanone (MEK)	22,000	726,000	**0.83**	**J**	**0.88**	**J**	NA		NA		NA		NA		NA		NA		NA	
2-Hexanone	130	4,290	0.82	U	0.82	U	NA		NA		NA		NA		NA		NA		NA	
4-Ethyltoluene	NA	NA	2	U	2	U	NA		NA		NA		NA		NA		NA		NA	
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	NA		NA		NA		NA		NA		NA		NA	
Acetone	NA	NA	**6.8**	**J**	**9.2**	**J**	NA		NA		NA		NA		NA		NA		NA	
Benzene	1.6	52.8	**0.39**	**J**	**2.6**		**0.52**		**0.50**		**0.87**		**1.40**		**0.91**		**0.83**		**4.34**	
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	*2.1*	*U*	*2.1*	*U*	NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	0.33	10.89	*1.3*	*U*	*1.3*	*U*	NA		NA		NA		NA		NA		NA		NA	
Bromoform	11	363	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA		NA	
Bromomethane	22	726	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA		NA	
Butadiene	0.41	NA	*0.88*	*U*	*0.88*	*U*	NA		NA		NA		NA		NA		NA		NA	
Carbon disulfide	3,100	102,300	1.2	U	**0.51**	**J**	NA		NA		NA		NA		NA		NA		NA	
Carbon tetrachloride	2	66	1.3	U	1.3	U	**0.34**		**0.59**		**0.34**		**0.47**		**0.47**		**0.31**		**0.535**	
Chlorobenzene	220	7,260	0.92	U	0.92	U	NA		NA		NA		NA		NA		NA		NA	
Chloroethane	18,000	594,000	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA		NA	
Chloroform	0.53	17.49	*0.98*	U	*0.98*	*U*	NA		NA		NA		NA		NA		NA		NA	
Chloromethane	390	12,870	**0.87**	**J**	**1.6**	**J**	NA		NA		NA		NA		NA		NA		NA	
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.04	U	0.04	U	0.04	U	**0.037**	**J**	0.043	U	0.0079	U	0.119	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	NA		NA		NA		NA		NA		NA		NA	
Dibromochloromethane	NA	NA	1.7	U	1.7	U	NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.1**	**J**	**2.4**	**J**	NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	4.9	161.7	0.87	U	**1.3**	**J**	NA		NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	0.56	18.48	*13*	*U*	*13*	*U*	NA		NA		NA		NA		NA		NA		NA	
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA		NA	
Methylene Chloride	1,200	39,600	**0.38**	**J**	**0.61**	**J**	**0.52**	**J**	**0.5**	**J**	0.35	U	0.7	U	0.54	UB	NA		NA	
m-Xylene & p-Xylene	880***	NA	0.87	U	**4.7**		NA		NA		NA		NA		NA		NA		NA	
Naphthalene	0.36	11.88	*6.3*	*U*	*6.3*	*U*	NA		NA		NA		NA		NA		NA		NA	
o-Xylene	440	14,520	0.87	U	**1.7**		NA		NA		NA		NA		NA		NA		NA	
Styrene	4,400	145,200	0.85	U	0.85	U	NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	47	1,551	1.4	U	1.4	U	0.14	U	0.14	U	0.14	U	**0.054**	**J**	**0.15**	**J**	**0.075**		**0.382**	**J**
Toluene	22,000	726,000	**0.63**	**J**	**10**		NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	3	99	2.1	U	2.1	U	**0.029**	**J**	0.054	U	0.054	U	**0.03**	**J**	**0.029**	**J**	**0.041**		**14.8**	
Trichlorofluoromethane (Freon 11)	NA	NA	**1.2**	**J**	**1.4**	**J**	NA		NA		NA		NA		NA		NA		NA	
Vinyl acetate	880	29,040	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	2.8	92.4	1	U	1	U	0.026	U	0.026	U	0.026	U	0.02	U	0.028	U	0.0038	U	0.0486	U

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = hazard quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
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Bolded results are detections above the limit of detection
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* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 5. SD052-SVI Site Buildings 785 and 786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	785OA-1																	
Field Sample Identification			785OA-1_1216		785OA-1_0317		785OA-1_0318		785OA-1_1118		785OA-1_0319		785-OA-1_1119		785-OA-1_1220		785-OA-1_011422		785-OA-1_1222	
Sample Location			Outdoor		Outdoor		Outdoor		Outdoor		Outdoor		Outdoor		Outdoor		Outdoor		Outdoor	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/17/2017		3/21/2018		11/29/2018		3/25/2019		11/19/2019		12/2/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			2		2		2		2		2		2		2		2		2	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	2.9	U	2	U	0.55	U	0.816	U
1,1,2,2-Tetrachloroethane	0.21	6.93	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*3.7*	*U*	*2.6*	*U*	*0.69*	*U*	*1.03*	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	4.1	U	2.9	U	0.77	U	1.53	U
1,1,2-Trichloroethane	0.77	25.4	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*2.9*	*U*	*2*	U	0.55	U	*1.09*	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.2	U	1.5	U	0.4	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.1	U	1.5	U	0.4	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	*8.9*	*U*	*8.9*	*U*	*8.9*	U	*8.9*	U	*8.9*	*U*	*15*	*U*	*12*	*U*	1.1	U	2.29	U
1,2,4-Trimethylbenzene	260	8,580	2	U	2	U	2	U	2	U	2	U	**0.73**	**J**	1.8	U	0.49	U	0.982	U
1,2-Dibromoethane (EDB)	0.02	0.7	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*4.1*	*U*	*2.9*	*U*	*1.2*	*U*	*1.15*	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.2	U	2.2	U	0.6	U	1.8	U
1,2-Dichloroethane	0.47	15.5	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*2.2*	*U*	*1.5*	U	0.4	U	*0.607*	U
1,2-Dichloropropane	3.3	108.9	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	2.5	U	1.7	U	0.46	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	2	U	2	U	2	U	2	U	2	U	2.6	U	1.8	U	0.49	U	0.982	U
1,3-Dichlorobenzene	NA	NA	**0.81**	**J**	2.4	U	2.4	U	2.4	U	2.4	U	3.2	U	2.2	U	1.1	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	*3.2*	*U*	*2.2*	U	0.6	U	0.782	U
2-Butanone (MEK)	22,000	726,000	**2**	**J**	1.2	U	**0.67**	**J**	**2.6**		**1.7**	**J**	5.9	U	**2.6**	**J**	**0.74**		**0.392**	**J**
2-Hexanone	130	4,290	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	8.2	U	6.4	U	0.61	U	1.23	U
4-Ethyltoluene	NA	NA	2	U	2	U	2	U	2	U	2	U	2.6	U	1.8	U	0.74	U	0.982	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.2	U	1.5	U	0.41	U	0.778	U
Acetone	NA	NA	**18**		**3.6**	**J**	**5.7**	**J**	**12**		**10**	**J**	**11**	**J**	**16**		**5.9**		**2.9**	**J**
Benzene	1.6	52.8	**1.1**	**J**	**0.58**	**J**	**0.25**	**J**	**0.32**	**J**	**0.68**	**J**	**1**	**J**	**0.4**	**J**	**1.2**		**0.53**	**J**
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	*2.8*	*U*	*1.9*	*U*	*0.52*	*U*	*0.675*	U
Bromodichloromethane	0.33	10.89	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*3.6*	*U*	*2.5*	*U*	*0.67*	*U*	*1.01*	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.5	U	3.9	U	1	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	7.8	U	6.1	U	0.39	U	0.776	U
Butadiene	0.41	NA	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*1.2*	*U*	*0.83*	*U*	0.22	U	*1.39*	U
Carbon disulfide	3,100	102,300	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	6.2	U	**3.7**	**J**	0.31	U	0.778	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	*2.5*	*U*	*2.5*	*U*	*2.5*	*U*	*3.4*	*U*	*2.4*	*U*	0.63	U	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	**0.32**	**J**	0.92	U	0.92	U	2.5	U	1.7	U	0.46	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.3	U	4.1	U	0.26	U	0.528	U
Chloroform	0.53	17.49	*0.98*	*U*	*0.98*	*U*	*0.98*	*U*	*0.98*	*U*	*0.98*	*U*	*2.6*	*U*	*1.8*	*U*	0.49	U	*0.73*	U
Chloromethane	390	12,870	**0.95**	**J**	**1.5**	**J**	**1.6**	**J**	**1.1**	**J**	**1.6**	**J**	**1.3**	**J**	**1.3**	**J**	**1.4**		**1.08**	
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.1	U	1.5	U	0.4	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2.4	U	1.7	U	0.45	U	0.681	U
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	4.6	U	3.2	U	0.85	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.2**	**J**	**2.9**	**J**	**1.6**	**J**	**1.8**	**J**	**2.4**	**J**	**2.4**	**J**	**2.4**	**J**	**2.5**		**2.16**	**J**
Ethylbenzene	4.9	161.7	**0.98**	**J**	0.87	U	**2.1**		0.87	U	**0.49**	**J**	2.3	U	1.6	U	0.43	U	0.867	U
Hexachlorobutadiene	0.56	18.48	*13*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*21*	*U*	*17*	*U*	*1.1*	*U*	*2.67*	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.2	U	5.6	U	0.36	U	0.468	U
Methylene Chloride	1,200	39,600	**0.36**	**J**	**0.39**	**J**	**0.48**	**J**	0.69	U	0.69	U	7	U	5.4	U	**0.76**		**0.427**	**J**
m-Xylene & p-Xylene	880***	NA	**3.8**		**0.58**	**J**	**0.97**	**J**	0.87	U	**1.8**	**J**	**1.4**	**J**	**0.46**	**J**	**0.83**		1.3	U
Naphthalene	0.36	11.88	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*1*	*U*	*0.82*	*U*	*0.79*	*U*	*3.66*	U
o-Xylene	440	14,520	**1.3**	**J**	0.87	U	**0.30**	**J**	0.87	U	**0.68**	**J**	2.3	U	1.6	U	0.43	U	0.759	U
Styrene	4,400	145,200	**0.31**	**J**	0.85	U	**1.1**	**J**	0.85	U	0.85	U	2.3	U	1.6	U	0.64	U	0.851	U
Tetrachloroethene	47	1,551	1.4	U	**0.4**	**J**	**18**		**0.44**	**J**	1.4	U	3.6	U	2.5	U	**0.34**		1.36	U
Toluene	22,000	726,000	**6.1**		**0.54**	**J**	**0.44**	**J**	**0.38**	**J**	**3.8**		**3.3**		**0.49**	**J**	**1.9**		**1.16**	**J**
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	**1.3**	**J**	1.5	U	0.4	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.4	U	1.7	U	0.68	U	0.681	U
Trichloroethene	3	99	2.1	U	**1.4**	**J**	**2.5**	**J**	2.1	U	2.1	U	2.9	U	2	U	0.11	U	0.804	U
Trichlorofluoromethane (Freon 11)	NA	NA	**1.3**	**J**	**1.4**	**J**	**1.4**	**J**	**1.5**	**J**	**1.1**	**J**	**1.5**	**J**	**1.2**	**J**	**1.3**		**1.31**	**J**
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.1	U	5.5	U	**0.56**		0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1.4	U	0.96	U	0.26	U	0.511	U

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = hazard quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 5. SD052-SVI Site Buildings 785 and 786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	785786-INF															
Field Sample Identification			785786-INF_1116		785786-INF-0317		Not sampled; System non-		785786-INF-1118		785786-INF-0319		785786-INF-1119		785786-INF-1220		785786-INF_1222	
Sample Location			Influent		Influent				Influent		Influent		Influent		Influent		Influent	
Sample Type			Normal		Normal				Normal		Normal		Normal		Normal		Normal	
Date of Collection			11/28/2016		3/10/2017		3/21/2018		11/29/2018		3/26/2019		11/20/2019		12/2/2020		12/21/2022	
Sample Depth (feet bgs / ags)			NA		NA		NA		NA		NA		NA		NA		NA	
Sample Collection Duration (hours)			Quick Grab		Quick Grab		NA		Quick Grab		Quick Grab		Quick Grab		Quick Grab		Quick Grab	
VOCs ($\mu g/m^3$)																		
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	NA		**0.53**	**J**	**0.37**	**J**	3	U	2.1	U	0.816	U
1,1,2,2-Tetrachloroethane	0.21	6.93	*1.4*	*U*	*1.4*	*U*	NA		*1.4*	*U*	*1.4*	*U*	*3.7*	*U*	*2.6*	*U*	*1.03*	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	NA		3.1	U	3.1	U	4.2	U	2.9	U	1.53	U
1,1,2-Trichloroethane	0.77	25.4	*1.1*	*U*	*1.1*	*U*	NA		*1.1*	*U*	*1.1*	*U*	*3*	*U*	*2.1*	*U*	*1.09*	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	NA		0.81	U	0.81	U	2.2	U	1.5	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	NA		1.6	U	1.6	U	2.2	U	1.5	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	*8.9*	*U*	*8.9*	*U*	NA		*8.9*	*U*	*8.9*	*U*	*15*	*U*	*12*	*U*	2.29	U
1,2,4-Trimethylbenzene	260	8,580	2	U	**1.9**	**J**	NA		2	U	2	U	2.7	U	1.8	U	0.982	U
1,2-Dibromoethane (EDB)	0.02	0.7	*1.5*	*U*	*1.5*	*U*	NA		*1.5*	*U*	*1.5*	*U*	*4.2*	*U*	*2.9*	*U*	*1.15*	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	NA		2.4	U	2.4	U	3.3	U	2.3	U	1.8	U
1,2-Dichloroethane	0.47	15.5	*0.81*	*U*	*0.81*	*U*	NA		*0.81*	*U*	*0.81*	*U*	*2.2*	*U*	*1.5*	*U*	*0.607*	U
1,2-Dichloropropane	3.3	108.9	*3.7*	*U*	**1.1**	**J**	NA		*3.7*	*U*	*3.7*	*U*	2.5	U	1.7	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	2	U	**2.2**	**J**	NA		2	U	2	U	2.7	U	1.8	U	0.982	U
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	NA		2.4	U	2.4	U	3.3	U	2.3	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	*2.4*	*U*	*2.4*	*U*	NA		*2.4*	*U*	*2.4*	*U*	*3.3*	*U*	*2.3*	*U*	0.782	U
2-Butanone (MEK)	22,000	726,000	**2.6**		**7.1**		NA		**2.4**		**2.5**		**7.8**	**J**	4.6	U	**1.96**	**J**
2-Hexanone	130	4,290	**0.4**	**J**	0.82	U	NA		0.82	U	0.82	U	8.4	U	6.4	U	1.23	U
4-Ethyltoluene	NA	NA	2	U	2	U	NA		2	U	2	U	2.7	U	1.8	U	0.982	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	NA		1.6	U	1.6	U	2.2	U	4.6	U	0.778	U
Acetone	NA	NA	**13**		**25**		NA		**14**		**8**	**J**	**21**		**7.6**	**J**	**5.51**	**J**
Benzene	1.6	52.8	**0.3**	**J**	**3.6**		NA		**0.49**	**J**	0.64	U	**0.75**	**J**	1.2	U	**0.719**	**J**
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	*2.1*	*U*	*2.1*	*U*	NA		*2.1*	*U*	*2.1*	*U*	*2.8*	*U*	*2*	*U*	*0.675*	U
Bromodichloromethane	0.33	10.89	*1.3*	*U*	*1.3*	*U*	NA		*1.3*	*U*	*1.3*	*U*	*3.6*	*U*	*2.5*	*U*	*1.01*	U
Bromoform	11	363	2.1	U	2.1	U	NA		2.1	U	2.1	U	5.6	U	3.9	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	NA		3.1	U	3.1	U	7.9	U	6.1	U	0.776	U
Butadiene	0.41	NA	*0.88*	*U*	*0.88*	*U*	NA		*0.88*	*U*	*0.88*	*U*	*1.2*	*U*	*0.84*	*U*	*1.39*	U
Carbon disulfide	3,100	102,300	**0.56**	**J**	**27**		NA		**8.5**		**1.2**	**J**	6.4	U	4.9	U	0.778	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	NA		*2.5*	*U*	*2.5*	*U*	*3.4*	*U*	*2.4*	*U*	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	NA		0.92	U	0.92	U	2.5	U	1.7	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	NA		2.1	U	2.1	U	5.4	U	4.2	U	0.528	U
Chloroform	0.53	17.49	**1.4**	**J**	**0.82**	**J**	NA		**1.3**	**J**	**1.1**	**J**	*2.6*	*U*	*1.8*	*U*	*0.73*	U
Chloromethane	390	12,870	**0.41**	**J**	0.83	U	NA		0.83	U	0.83	U	**1.2**	**J**	3.2	U	**1.03**	
cis-1,2-Dichloroethene	180	5,940	**0.81**	**J**	**0.61**	**J**	NA		**0.62**	**J**	**0.56**	**J**	2.2	U	1.5	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	NA		1.8	U	1.8	U	2.5	U	1.7	U	0.681	U
Dibromochloromethane	NA	NA	1.7	U	1.7	U	NA		1.7	U	1.7	U	4.6	U	3.2	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.6**	**J**	**2.6**	**J**	NA		**1.7**	**J**	**2.3**	**J**	2.2	**J**	**1.9**	**J**	**2.22**	**J**
Ethylbenzene	4.9	161.7	0.87	U	**4.1**		NA		0.87	U	0.87	U	2.4	U	1.6	U	0.867	U
Hexachlorobutadiene	0.56	18.48	*13*	*U*	*13*	*U*	NA		*13*	*U*	*13*	*U*	*22*	*U*	*17*	*U*	*2.67*	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	NA		1.4	U	1.4	U	7.4	U	5.7	U	0.468	U
Methylene Chloride	1,200	39,600	**0.34**	**J**	0.69	*U*	NA		0.69	U	0.69	U	7.1	U	5.5	U	**0.455**	**J**
m-Xylene & p-Xylene	880***	NA	**0.85**	**J**	**10**		NA		0.87	U	0.87	U	**0.46**	**J**	1.6	U	1.3	U
Naphthalene	0.36	11.88	*6.3*	*U*	*6.3*	*U*	NA		*6.3*	*U*	*6.3*	*U*	*1.1*	*U*	*0.82*	*U*	*3.66*	U
o-Xylene	440	14,520	**0.28**	**J**	**2.9**		NA		0.87	U	0.87	U	2.4	U	1.6	U	0.759	U
Styrene	4,400	145,200	0.85	U	0.85	U	NA		0.85	U	0.85	U	2.3	U	1.6	U	0.851	U
Tetrachloroethene	47	1,551	1.4	U	**0.6**	**J**	NA		**10**		**13**		3.7	U	2.6	U	1.36	U
Toluene	22,000	726,000	**1.4**	**J**	**43**		NA		0.75	U	0.75	U	**1**	**J**	**0.21**	**J**	0.942	U
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	NA		0.79	U	0.79	U	2.2	U	1.5	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	NA		0.91	U	0.91	U	2.5	U	1.7	U	0.681	U
Trichloroethene	3	99	**0.97**	**J**	**11**		NA		**130**		**160**		2.9	U	2	U	**0.43**	**J**
Trichlorofluoromethane (Freon 11)	NA	NA	**1.5**	**J**	2.2	U	NA		**1.3**	**J**	**1.3**	**J**	**1.7**	**J**	**1.2**	**J**	**1.37**	**J**
Vinyl acetate	880	29,040	1.4	U	**1.1**	**J**	NA		1.4	U	1.4	U	7.2	U	5.5	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	NA		1	U	1	U	1.4	U	0.97	U	0.511	U

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = hazard quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
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VOC = volatile organic compound
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 5. SD052-SVI Site Buildings 785 and 786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	786VMP-1																	
Field Sample Identification			786VMP-1_1216		786VMP-1_0317		786VMP-1_0318		786VMP-1_1118		Not sampled; clogged vapor monitoring		786-VMP-1_1119		786-VMP-1_1220		Not sampled; location inaccessible		786-VMP-1_1222	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab				Sub-Slab		Sub-Slab				Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal				Normal		Normal				Normal	
Date of Collection			12/1/2016		3/21/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/2/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			2.5		2.5		2.5		2.5		NA		2.5		2.5		NA		2.5	
Sample Collection Duration (hours)			8		8		8		8		NA		8		8		NA		8	
VOCs (µg/m³)																				
1,1,1-Trichloroethane	22,000	726,000	2.8	U	1.1	U	**2.1**		1.1	U	NA		3.7	U	2.2	U	NA		0.816	U
1,1,2,2-Tetrachloroethane	0.21	6.93	3.5	U	1.4	U	1.4	U	1.4	U	NA		4.6	U	2.8	U	NA		1.03	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	7.8	U	3.1	U	3.1	U	3.1	U	NA		5.2	U	3.1	U	NA		1.53	U
1,1,2-Trichloroethane	0.77	25.4	2.8	U	1.1	U	1.1	U	1.1	U	NA		3.7	U	2.2	U	NA		1.09	U
1,1-Dichloroethane	7.7	254.1	2.1	U	0.81	U	0.81	U	0.81	U	NA		2.7	U	1.7	U	NA		0.601	U
1,1-Dichloroethene	880	29,040	4.1	U	1.6	U	1.6	U	1.6	U	NA		2.7	U	1.6	U	NA		0.793	U
1,2,4-Trichlorobenzene	8.8	290	23	U	8.9	U	8.9	U	8.9	U	NA		19	U	13	U	NA		2.29	U
1,2,4-Trimethylbenzene	260	8,580	**48**	**D**	**10**		**49**		2	U	NA		**2.9**	**J**	**2.8**	**J**	NA		**0.506**	**J**
1,2-Dibromoethane (EDB)	0.02	0.7	*3.9*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	NA		*5.2*	*U*	*3.2*	*U*	NA		1.15	U
1,2-Dichlorobenzene	880	29,040	6.2	U	2.4	U	2.4	U	2.4	U	NA		4	U	2.5	U	NA		1.8	U
1,2-Dichloroethane	0.47	15.5	2.1	U	0.81	U	0.81	U	0.81	U	NA		2.7	U	1.7	U	NA		0.607	U
1,2-Dichloropropane	3.3	108.9	**17**	**D**	3.7	U	3.7	U	3.7	U	NA		3.1	U	1.9	U	NA		0.924	U
1,3,5-Trimethylbenzene	260	8,580	**22**	**D**	**3.7**	**J**	**29**		2	U	NA		**1.2**	**J**	**0.94**	**J**	NA		0.982	U
1,3-Dichlorobenzene	NA	NA	6.2	U	**3.7**	**J**	2.4	U	2.4	U	NA		4	U	2.5	U	NA		2.4	U
1,4-Dichlorobenzene	1.1	36.3	6.2	U	2.4	U	2.4	U	2.4	U	NA		4	U	2.5	U	NA		0.782	U
2-Butanone (MEK)	22,000	726,000	3	U	**8.1**		**3.3**		**5.5**		NA		**2.4**	**J**	**47**		NA		**0.507**	**J**
2-Hexanone	130	4,290	2.1	U	**0.37**	**J**	0.82	U	0.82	U	NA		10	U	7	U	NA		1.23	U
4-Ethyltoluene	NA	NA	**25**	**D**	**3.8**	**J**	**19**		2	U	NA		**3.1**	**J**	**3**	**J**	NA		0.982	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	4.2	U	**4.4**		**4.5**		1.6	U	NA		2.8	U	**4.7**		NA		0.778	U
Acetone	NA	NA	**6**	**J D**	**31**		**41**		**36**		NA		**7.5**	**J**	**120**		NA		**3.56**	**J**
Benzene	1.6	52.8	**0.81**	**J D**	**1**	**J**	**3.8**		**0.41**	**J**	NA		**0.7**	**J**	**0.54**	**J**	NA		**0.457**	**J**
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	5.3	U	2.1	U	2.1	U	2.1	U	NA		3.5	U	2.1	U	NA		0.675	U
Bromodichloromethane	0.33	10.89	3.4	U	1.3	U	1.3	U	1.3	U	NA		4.5	U	2.8	U	NA		1.01	U
Bromoform	11	363	5.3	U	2.1	U	2.1	U	2.1	U	NA		6.9	U	4.2	U	NA		3.21	U
Bromomethane	22	726	8	U	3.1	U	3.1	U	3.1	U	NA		9.8	U	6.6	U	NA		0.776	U
Butadiene	0.41	NA	2.3	U	0.88	U	**4.7**		0.88	U	NA		1.5	U	0.91	U	NA		1.39	U
Carbon disulfide	3,100	102,300	**1.3**	**J D**	**0.73**	**J**	**4.1**		**0.7**	**J**	NA		7.8	U	**13**		NA		**0.532**	**J**
Carbon tetrachloride	2	66	3.2	U	2.5	U	2.5	U	2.5	U	NA		4.2	U	2.6	U	NA		0.945	U
Chlorobenzene	220	7,260	2.4	U	0.92	U	0.92	U	0.92	U	NA		3.1	U	1.9	U	NA		0.924	U
Chloroethane	18,000	594,000	5.4	U	2.1	U	2.1	U	2.1	U	NA		6.6	U	4.5	U	NA		0.528	U
Chloroform	0.53	17.49	2.5	U	0.98	U	**0.85**	**J**	0.98	U	NA		3.3	U	2	U	NA		0.73	U
Chloromethane	390	12,870	2.1	U	**1.4**	**J**	**2.2**		**3.6**		NA		5.2	U	3.5	U	NA		**0.801**	**J**
cis-1,2-Dichloroethene	180	5,940	2	U	0.79	U	0.79	U	0.79	U	NA		2.7	U	1.6	U	NA		0.793	U
cis-1,3-Dichloropropene	NA	NA	4.6	U	1.8	U	1.8	U	1.8	U	NA		3	U	1.9	U	NA		0.681	U
Dibromochloromethane	NA	NA	4.4	U	1.7	U	1.7	U	1.7	U	NA		5.7	U	3.5	U	NA		1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.5**	**J D**	**2.6**	**J**	**1.7**	**J**	**1.7**	**J**	NA		**2.6**	**J**	**2.2**	**J**	NA		**2.19**	**J**
Ethylbenzene	4.9	161.7	**150**	**D**	**4.4**		**32**		0.87	U	NA		2.9	U	**15**		NA		0.867	U
Hexachlorobutadiene	0.56	18.48	*33*	*U*	13	U	13	U	13	U	NA		*27*	*U*	18	U	NA		2.67	U
Methyl tert-butyl ether	47	1,551	3.7	U	1.4	U	1.4	U	1.4	U	NA		9.1	U	6.2	U	NA		0.468	U
Methylene Chloride	1,200	39,600	1.8	U	**1.2**	**J**	**0.56**	**J**	0.69	U	NA		8.8	U	5.9	U	NA		**0.385**	**J**
m-Xylene & p-Xylene	880***	NA	**650**	**D**	**15**		**160**		**0.58**	**J**	NA		**2.3**	**J**	**66**		NA		**0.863**	**J**
Naphthalene	0.36	11.88	*16*	U	6.3	U	**9.1**	**J**	6.3	U	NA		**2.8**	**J**	**0.37**	**J**	NA		3.66	U
o-Xylene	440	14,520	**260**	**D**	**7.9**		**89**		**0.27**	**J**	NA		**1.6**	**J**	**20**		NA		0.759	U
Styrene	4,400	145,200	2.2	U	**1.3**	**J**	0.85	U	0.85	U	NA		2.9	U	**3.9**		NA		0.851	U
Tetrachloroethene	47	1,551	**1.3**	**J D**	1.4	U	**5.3**		1.4	U	NA		**2**	**J**	**1.6**	**J**	NA		1.36	U
Toluene	22,000	726,000	**240**	**D**	**14**		**8.2**		**0.79**	**J**	NA		**1**	**J**	**13**		NA		**1.1**	**J**
trans-1,2-Dichloroethene	180	5,940	2	U	0.79	U	0.79	U	0.79	U	NA		2.7	U	1.6	U	NA		0.594	U
trans-1,3-Dichloropropene	NA	NA	2.3	U	0.91	U	0.91	U	0.91	U	NA		3	U	1.9	U	NA		0.681	U
Trichloroethene	3	99	**12**	**D**	2.1	U	**89**		**1.1**	**J**	NA		**3.2**	**J**	2.2	U	NA		0.804	U
Trichlorofluoromethane (Freon 11)	NA	NA	5.8	U	**1.4**	**J**	**2.1**	**J**	**1.3**	**J**	NA		**1.5**	**J**	**1.2**	**J**	NA		**1.31**	**J**
Vinyl acetate	880	29,040	3.6	U	1.4	U	1.4	U	1.4	U	NA		8.9	U	6	U	NA		0.88	U
Vinyl chloride	2.8	92.4	2.6	U	**0.35**	**J**	1	U	1	U	NA		1.7	U	1	U	NA		0.511	U

Notes:
µg/m³ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = hazard quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 5. SD052-SVI Site Buildings 785 and 786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	786VMP-2																	
Field Sample Identification			786VMP-2_1216		786VMP-2_0317		786VMP-2_0318		786VMP-2_1118		786VMP-2_0319		786-VMP-2_1119		786-VMP-2_1220		786-VMP-2_011422		786-VMP-2_1222	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/17/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/2/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			2.5		2.5		2.5		2.5		2.5		2.5		2.5		1		1	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8	
VOCs (µg/m³)																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	**9.8**		1.1	U	1.1	U	3.6	U	2.2	U	2.2	U	0.816	U
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	4.5	U	2.8	U	2.7	U	1.03	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	**3.9**	**J**	3.1	U	3.1	U	5	U	3.1	U	3.1	U	**0.966**	**J**
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.6	U	2.2	U	2.2	U	1.09	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.6	U	1.6	U	1.6	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.6	U	1.6	U	1.6	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	18	U	12	U	4.5	U	2.29	U
1,2,4-Trimethylbenzene	260	8,580	**4.1**		**5.7**		**3**	**J**	**1.1**	**J**	**1.1**	**J**	**5.3**	**J**	**1.8**	**J**	2	U	**0.574**	**J**
1,2-Dibromoethane (EDB)	0.02	0.7	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*5*	*U*	*3.1*	*U*	*4.6*	*U*	1.15	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.9	U	2.4	U	2.4	U	1.8	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.6	U	1.6	U	1.6	U	0.607	U
1,2-Dichloropropane	3.3	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3	U	1.9	U	1.8	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	**1.6**	**J**	**2**	**J**	**1.1**	**J**	2	U	2	U	**1.5**	**J**	**0.49**	**J**	2	U	0.982	U
1,3-Dichlorobenzene	NA	NA	2.4	U	**2.3**	**J**	2.4	U	2.4	U	2.4	U	3.9	U	2.4	U	4.2	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.9	U	2.4	U	2.4	U	0.782	U
2-Butanone (MEK)	22,000	726,000	**5.4**		**11**		**1.6**	**J**	**0.8**	**J**	**8.2**		**3.5**	**J**	5	U	1.8	U	**0.54**	**J**
2-Hexanone	130	4,290	0.82	U	**0.5**	**J**	0.82	U	0.82	U	**0.5**	**J**	10	U	6.9	U	2.5	U	1.23	U
4-Ethyltoluene	NA	NA	**2.4**	**J**	**2.1**	**J**	**0.97**	**J**	**12**		**1.4**	**J**	**6.4**		**2**	**J**	2.9	U	**0.49**	**J**
4-Methyl-2-pentanone (MIBK)	13,000	429,000	**0.69**	**J**	**5.4**		1.6	U	1.6	U	1.6	U	2.7	U	1.6	U	1.6	U	0.778	U
Acetone	NA	NA	**17**		**45**		**11**	**J**	**5.7**	**J**	**28**		**11**	**J**	**3.3**	**J**	**4.0**		**4.47**	**J**
Benzene	1.6	52.8	**0.57**	**J**	**2.3**		**0.64**	**J**	**0.3**	**J**	**0.49**	**J**	**0.77**	**J**	**0.46**	**J**	1.3	U	**0.476**	**J**
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	3.4	U	2.1	U	2.1	U	0.675	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	**0.49**	**J**	1.3	U	1.3	U	4.4	U	2.7	U	2.7	U	1.01	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	6.8	U	4.2	U	4.1	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	9.6	U	6.6	U	1.6	U	0.776	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	1.4	U	0.9	U	0.88	U	1.39	U
Carbon disulfide	3,100	102,300	1.2	U	1.2	U	**4.2**		1.2	U	**2.1**	**J**	7.7	U	5.2	U	1.2	U	0.778	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	2.5	U	2.5	U	2.5	U	4.1	U	2.5	U	2.5	U	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	3	U	1.9	U	1.8	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	6.5	U	4.4	U	1.1	U	0.528	U
Chloroform	0.53	17.49	**0.73**	**J**	**1.6**		**27**		0.98	U	**1.4**	**J**	**1.1**	**J**	2	U	2	U	0.73	U
Chloromethane	390	12,870	**0.87**	**J**	**1.2**	**J**	**1.7**		**0.56**	**J**	**1.1**	**J**	5.1	U	3.5	U	**0.78**		**0.469**	**J**
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.6	U	1.6	U	1.6	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	3	U	1.8	U	1.8	U	0.681	U
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	5.6	U	3.4	U	3.4	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.3**	**J**	**3**	**J**	**2.1**	**J**	**1.7**	**J**	**2.6**	**J**	**2.5**	**J**	**2.1**	**J**	**2.2**		**2.2**	**J**
Ethylbenzene	4.9	161.7	**14**		**2.5**		**5.5**		**0.73**	**J**	**4.8**		**11**		**4.3**		**3.4**		**0.767**	**J**
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	13	U	*26*	*U*	18	U	4.3	U	2.67	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	8.9	U	6.1	U	1.4	U	0.468	U
Methylene Chloride	1,200	39,600	**0.32**	**J**	**0.54**	**J**	**0.49**	**J**	0.69	U	**0.39**	**J**	8.5	U	5.9	U	1.4	U	**3.54**	
m-Xylene & p-Xylene	880***	NA	**72**		**8.2**		**33**		**3.4**	**J**	**25**		**63**		**20**		**16**		**2.28**	**J**
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	**1.2**	**J**	0.88	U	3.1	U	3.66	U
o-Xylene	440	14,520	**24**		**4**		**11**		**1.1**	**J**	**7.1**		**19**		**7.8**		**6.5**		**1.19**	**J**
Styrene	4,400	145,200	0.85	U	**0.98**	**J**	0.85	U	0.85	U	0.85	U	2.8	U	**2.4**	**J**	2.6	U	0.851	U
Tetrachloroethene	47	1,551	1.4	U	1.4	U	**2.2**	**J**	1.4	U	1.4	U	**1.7**	**J**	2.7	U	0.68	U	1.36	U
Toluene	22,000	726,000	**2.3**		**11**		**0.77**	**J**	**0.51**	**J**	**0.93**	**J**	**2.4**	**J**	**1.1**	**J**	**1.9**		**1.65**	**J**
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.6	U	1.6	U	1.6	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	3	U	1.8	U	2.7	U	0.681	U
Trichloroethene	3	99	**0.88**	**J**	2.1	U	**200**		**0.81**	**J**	**6.3**		**5**		**2.6**	**J**	**2.1**		**4.7**	
Trichlorofluoromethane (Freon 11)	NA	NA	**1.5**	**J**	**1.9**	**J**	**3.2**	**J**	**1.3**	**J**	**1.4**	**J**	**1.6**	**J**	**1.1**	**J**	2.2	U	**1.35**	**J**
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	8.7	U	5.9	U	2.1	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	**0.75**	**J**	1	U	1	U	1	U	1.7	U	1	U	1	U	0.511	U

Notes:
µg/m³ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = hazard quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 5. SD052-SVI Site Buildings 785 and 786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	786VMP-3																			
Field Sample Identification			786VMP-3_1216		786VMP-3_0317		786VMP-3_0318		786VMP-3_1118		786VMP-3_0319		786-VMP-3_1119		786-VMP-3_1220		786-VMP-3_011422		786-VMP-3_1222	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/17/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/2/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	**0.66**	**J**	1.1	U	1.1	U	3.5	U	2.2	U	2.2	U	**1**	**J**
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	4.4	U	2.8	U	2.7	U	1.03	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	4.9	U	3.1	U	3.1	U	1.53	U
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.5	U	2.2	U	2.2	U	1.09	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.6	U	1.6	U	1.6	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.6	U	1.6	U	1.6	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	18	U	12	U	4.5	U	2.29	U
1,2,4-Trimethylbenzene	260	8,580	**2.2**	**J**	**4.8**		2	U	2	U	2	U	**0.8**	**J**	2	U	2	U	0.982	U
1,2-Dibromoethane (EDB)	0.02	0.7	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*4.9*	*U*	*3.1*	*U*	*4.6*	*U*	1.15	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.9	U	2.4	U	2.4	U	1.8	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.6	U	1.6	U	1.6	U	0.607	U
1,2-Dichloropropane	3.3	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3	U	1.8	U	1.8	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	**0.75**	**J**	**1.7**	**J**	2	U	2	U	2	U	3.2	U	2	U	2	U	0.982	U
1,3-Dichlorobenzene	NA	NA	2.4	U	**2.3**	**J**	2.4	U	2.4	U	2.4	U	3.9	U	2.4	U	4.2	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.9	U	2.4	U	2.4	U	0.782	U
2-Butanone (MEK)	22,000	726,000	**2.9**		**6.1**		**7**		**0.72**	**J**	**3.6**		**12**		**3.4**	**J**	**1.5**		**1.35**	**J**
2-Hexanone	130	4,290	0.82	U	0.82	U	**1.6**		0.82	U	**0.6**	**J**	9.9	U	6.9	U	2.5	U	1.23	U
4-Ethyltoluene	NA	NA	2	U	**1.9**	**J**	2	U	2	U	2	U	**0.71**	**J**	2	U	2.9	U	0.982	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	**3.1**	**J**	1.6	U	1.6	U	**0.73**	**J**	2.6	U	1.6	U	1.6	U	0.778	U
Acetone	NA	NA	**30**		**37**		**21**		**16**		**18**		**42**		**12**	**J**	**14**		**6.94**	
Benzene	1.6	52.8	**1.9**		**2.2**		**0.49**	**J**	0.64	U	**0.38**	**J**	**0.96**	**J**	**0.42**	**J**	1.3	U	**0.47**	**J**
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	3.3	U	2.1	U	2.1	U	0.675	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	4.3	U	2.7	U	2.7	U	1.01	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	6.6	U	4.2	U	4.1	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	9.4	U	6.5	U	1.6	U	0.776	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	1.4	U	0.89	U	0.88	U	1.39	U
Carbon disulfide	3,100	102,300	1.2	U	**0.78**	**J**	**24**		1.2	U	1.2	U	7.5	U	**15**		1.2	U	**0.417**	**J**
Carbon tetrachloride	2	66	1.3	U	1.3	U	2.5	U	2.5	U	2.5	U	4	U	2.5	U	2.5	U	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	3	U	1.8	U	1.8	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	6.4	U	4.4	U	1.1	U	0.528	U
Chloroform	0.53	17.49	0.98	U	0.98	U	**0.49**	**J**	0.98	U	0.98	U	3.1	U	2	U	2	U	**0.72**	**J**
Chloromethane	390	12,870	**0.57**	**J**	**1**	**J**	**0.84**	**J**	**0.54**	**J**	0.83	U	5	U	3.4	U	**1.5**		**0.446**	**J**
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.6	U	1.6	U	1.6	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2.9	U	1.8	U	1.8	U	0.681	U
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	5.5	U	3.4	U	3.4	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.3**	**J**	**2.9**	**J**	**1.5**	**J**	**1.8**	**J**	**2.2**	**J**	**2.7**	**J**	**2.3**	**J**	**2.1**		**2.12**	**J**
Ethylbenzene	4.9	161.7	**2**		**2.9**		**0.29**	**J**	0.87	U	0.87	U	2.8	U	**0.25**	**J**	1.7	U	0.867	U
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	13	U	*26*	*U*	18	U	4.3	U	2.67	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	8.7	U	6	U	1.4	U	0.468	U
Methylene Chloride	1,200	39,600	**0.41**	**J**	**0.57**	**J**	**0.42**	**J**	0.69	U	**0.26**	**J**	8.4	U	5.8	U	1.4	U	0.694	U
m-Xylene & p-Xylene	880***	NA	**7.9**		**10**		**1.1**	**J**	0.87	U	**0.7**	**J**	**1.6**	**J**	**1.1**	**J**	2.6	U	**0.85**	**J**
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	**0.51**	**J**	0.88	U	3.1	U	3.66	U
o-Xylene	440	14,520	**2.7**		**4.6**		**0.52**	**J**	0.87	U	**0.36**	**J**	2.8	U	**0.52**	**J**	1.7	U	0.759	U
Styrene	4,400	145,200	**0.68**	**J**	0.85	U	0.85	U	0.85	U	0.85	U	2.7	U	**0.84**	**J**	2.6	U	0.851	U
Tetrachloroethene	47	1,551	**2.7**		1.4	U	**3.9**		1.4	U	1.4	U	**3.4**	**J**	**2.7**	**J**	0.68	U	**8.28**	
Toluene	22,000	726,000	**11**		**11**		**0.55**	**J**	0.75	U	**0.31**	**J**	**1.4**	**J**	**0.66**	**J**	2.3	U	**0.825**	**J**
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.6	U	1.6	U	1.6	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.9	U	1.8	U	2.7	U	0.681	U
Trichloroethene	3	99	2.1	U	2.1	U	**40**		2.1	U	**2.2**	**J**	**4.6**		**15**		**1.5**		**84.1**	
Trichlorofluoromethane (Freon 11)	NA	NA	**1.3**	**J**	**1.6**	**J**	**1.6**	**J**	**1.2**	**J**	**1.2**	**J**	**1.2**	**J**	**1.1**	**J**	2.2	U	**1.29**	**J**
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	8.5	U	5.9	U	2.1	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1.6	U	1	U	1	U	0.511	U

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = hazard quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 5. SD052-SVI Site Buildings 785 and 786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	786IA-1																			
Field Sample Identification			786IA-1_1216		786IA-1_0317		786IA-1_0318		786IA-1_1118		786IA-1_0319		786-IA-1_1119		786-IA-1_1220		786-IA-1_011422		786-IA-1_1222	
Sample Location			Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/17/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/2/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			5		5		5		5		5		5		5		5		5	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	0.055	U	0.055	U	0.055	U	0.057	U	**0.016**	**J**	0.0082	U	0.103	U
1,1,2,2-Tetrachloroethane	0.21	6.93	*1.4*	*U*	*1.4*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	0.77	25.4	*1.1*	*U*	*1.1*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	0.04	U	0.04	U	0.04	U	0.042	U	0.044	U	0.004	U	0.0753	U
1,2,4-Trichlorobenzene	8.8	290	*8.9*	*U*	*8.9*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,2,4-Trimethylbenzene	260	8,580	**2**	**J**	**1.8**	**J**	NA		NA		NA		NA		NA		NA		NA	
1,2-Dibromoethane (EDB)	0.02	0.7	*1.5*	U	*1.5*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	0.47	15.5	*0.81*	*U*	*0.81*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloropropane	3.3	108.9	*3.7*	*U*	*3.7*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,3,5-Trimethylbenzene	260	8,580	**0.77**	**J**	**0.85**	**J**	NA		NA		NA		NA		NA		NA		NA	
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	1.1	36.3	*2.4*	*U*	*2.4*	*U*	NA		NA		NA		NA		NA		NA		NA	
2-Butanone (MEK)	22,000	726,000	1.2	U	**0.76**	**J**	NA		NA		NA		NA		NA		NA		NA	
2-Hexanone	130	4,290	0.82	U	0.82	U	NA		NA		NA		NA		NA		NA		NA	
4-Ethyltoluene	NA	NA	**0.99**	**J**	**1.1**	**J**	NA		NA		NA		NA		NA		NA		NA	
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	**0.57**	**J**	NA		NA		NA		NA		NA		NA		NA	
Acetone	NA	NA	**2.3**	**J**	**6.3**	**J**	NA		NA		NA		NA		NA		NA		NA	
Benzene	1.6	52.8	**0.49**	**J**	**0.6**	**J**	**0.4**		**0.32**		**0.3**		**0.53**		**0.35**		**0.64**		**0.505**	
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	*2.1*	*U*	*2.1*	*U*	NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	0.33	10.89	*1.3*	*U*	*1.3*	*U*	NA		NA		NA		NA		NA		NA		NA	
Bromoform	11	363	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA		NA	
Bromomethane	22	726	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA		NA	
Butadiene	0.41	NA	*0.88*	*U*	*0.88*	*U*	NA		NA		NA		NA		NA		NA		NA	
Carbon disulfide	3,100	102,300	1.2	U	1.2	U	NA		NA		NA		NA		NA		NA		NA	
Carbon tetrachloride	2	66	1.3	U	1.3	U	NA		**0.58**		**0.46**		**0.47**		**0.48**		**0.3**		**0.503**	
Chlorobenzene	220	7,260	0.92	U	0.92	U	NA		NA		NA		NA		NA		NA		NA	
Chloroethane	18,000	594,000	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA		NA	
Chloroform	0.53	17.49	*0.98*	*U*	*0.98*	*U*	NA		NA		NA		NA		NA		NA		NA	
Chloromethane	390	12,870	**1.2**	**J**	**1.4**	**J**	NA		NA		NA		NA		NA		NA		NA	
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.04	U	0.04	U	0.04	U	0.042	U	0.044	U	0.0079	U	0.119	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	NA		NA		NA		NA		NA		NA		NA	
Dibromochloromethane	NA	NA	1.7	U	1.7	U	NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane (Freon 12)	440	14,520	**2**	**J**	**2.6**	**J**	NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	4.9	161.7	**0.57**	**J**	**0.29**	**J**	NA		NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	0.56	18.48	*13*	*U*	*13*	*U*	NA		NA		NA		NA		NA		NA		NA	
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA		NA	
Methylene Chloride	1,200	39,600	0.69	U	**1.5**		0.35	U	0.35	U	**5.1**		0.91	U	0.73	U	NA		NA	
m-Xylene & p-Xylene	880***	NA	**2.6**	**J**	**1.3**	**J**	NA		NA		NA		NA		NA		NA		NA	
Naphthalene	0.36	11.88	*6.3*	*U*	*6.3*	*U*	NA		NA		NA		NA		NA		NA		NA	
o-Xylene	440	14,520	**1**	**J**	**0.71**	**J**	NA		NA		NA		NA		NA		NA		NA	
Styrene	4,400	145,200	**0.38**	**J**	0.85	U	NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	47	1,551	**1.1**	**J**	1.4	U	0.14	U	0.14	U	0.14	U	**11**		**0.094**	**J**	0.01	U	0.204	U
Toluene	22,000	726,000	**2**		**1.1**	**J**	NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	3	99	2.1	U	2.1	U	**0.035**	**J**	0.054	U	0.054	U	**0.039**	**J**	**0.042**	**J**	0.0081	U	**0.0884**	**J**
Trichlorofluoromethane (Freon 11)	NA	NA	**1.3**	**J**	**1.3**	**J**	NA		NA		NA		NA		NA		NA		NA	
Vinyl acetate	880	29,040	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	2.8	92.4	1	U	1	U	0.026	U	0.026	U	0.026	U	0.027	U	0.029	U	0.0038	U	0.0486	U

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = hazard quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the limit of detection
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 6. SD052-SVI Site Buildings 774 and 776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	774VMP-1																			
Field Sample Identification			774VMP-1_1216		774VMP-1_0317		774VMP-1_0318		774VMP-1_1118		774VMP-1_0319		774VMP-1_1119		774VMP-1_1220		774-VMP-1_011422		774-VMP-1_1222	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/16/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/1/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			1		1		1		1		1		1		1		1		1	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																				
1,1,1-Trichloroethane	22,000	726,000	**0.4**	**J**	1.1	U	1.1	U	**2.1**		**5.3**		**28**		**6.3**		2.2	U	**18.4**	
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	3.9	U	2.8	U	2.7	U	1.03	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	3.1	U	**1.4**	**J**	**2.1**	**J**	**2.9**	**J**	3.1	U	3.1	U	**1.92**	**J**
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.1	U	2.2	U	2.2	U	1.09	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	**1.1**	**J**	1.7	U	1.6	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.2	U	1.6	U	1.6	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	16	U	13	U	4.5	U	2.29	U
1,2,4-Trimethylbenzene	260	8,580	2	U	2	U	2	U	2	U	2	U	2.8	U	2	U	2	U	0.982	U
1,2-Dibromoethane (EDB)	0.02	0.66	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*4.3*	*U*	*3.2*	*U*	*4.6*	*U*	1.15	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.4	U	2.5	U	2.4	U	1.8	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.3	U	1.7	U	1.6	U	0.607	U
1,2-Dichloropropane	3.30	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	2.6	U	1.9	U	1.8	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	2	U	2	U	2	U	2	U	2	U	2.8	U	2	U	2	U	0.982	U
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.4	U	2.5	U	4.2	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.4	U	2.5	U	2.4	U	0.782	U
2-Butanone (MEK)	22,000	726,000	**1.2**	**J**	**2.4**		**1.5**	**J**	**2.7**		**3.8**		6.2	U	**3.2**	**J**	1.8	U	**0.961**	**J**
2-Hexanone	130	4,290	0.82	U	0.82	U	0.82	U	**0.53**	**J**	0.82	U	8.7	U	7	U	2.5	U	1.23	U
4-Ethyltoluene	NA	NA	2	U	2	U	2	U	2	U	2	U	2.8	U	2	U	2.9	U	0.982	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	1.6	U	**1.1**	**J**	**0.55**	**J**	2.3	U	1.7	U	1.6	U	0.778	U
Acetone	NA	NA	**12**		**32**		**21**		**20**		**40**		**17**		**27**		**13**		**6.75**	
Benzene	1.6	52.8	**0.4**	**J**	**0.55**	**J**	**0.53**	**J**	**0.39**	**J**	**0.41**	**J**	**0.72**	**J**	1.3	U	1.3	U	**0.422**	**J**
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.9	U	2.1	U	2.1	U	0.675	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	3.8	U	2.8	U	2.7	U	1.01	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.8	U	4.2	U	4.1	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	8.2	U	6.6	U	1.6	U	0.776	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	1.2	U	0.91	U	0.88	U	1.39	U
Carbon disulfide	3,100	102,300	1.2	U	1.2	U	1.2	U	**1.9**	**J**	**19**		6.6	U	**39**		1.2	U	0.778	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	2.5	U	2.5	U	2.5	U	3.5	U	2.6	U	2.5	U	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	2.6	U	1.9	U	1.8	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.6	U	4.5	U	1.1	U	0.528	U
Chloroform	0.53	17.49	0.98	U	0.98	U	0.98	U	0.98	U	**0.76**	**J**	**2**	**J**	**1.2**	**J**	2	U	0.73	U
Chloromethane	390	12,870	**0.79**	**J**	**0.94**	**J**	**1.5**	**J**	**1.3**	**J**	**1.1**	**J**	4.4	U	3.5	U	**1.4**	**J**	0.516	U
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	**0.4**	**J**	**4.4**		**1**	**J**	1.6	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2.6	U	1.9	U	1.8	U	0.681	U
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	4.8	U	3.5	U	3.4	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.4**	**J**	**2.7**	**J**	**1.8**	**J**	**2.5**	**J**	**2.4**	**J**	**3**	**J**	**2.2**	**J**	**2.2**	**J**	**2.13**	**J**
Ethylbenzene	4.9	161.7	0.87	U	0.87	U	0.87	U	0.87	U	**0.36**	**J**	2.4	U	1.8	U	1.7	U	0.867	U
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	13	U	*22*	*U*	18	U	4.3	U	2.67	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.6	U	6.2	U	1.4	U	0.468	U
Methylene Chloride	1,200	39,600	**0.4**	**J**	**0.43**	**J**	**0.49**	**J**	**0.27**	**J**	**0.51**	**J**	7.3	U	5.9	U	1.4	U	0.694	U
m-Xylene & p-Xylene****	880****	NA	0.87	U	0.87	U	0.87	U	**0.64**	**J**	**0.92**	**J**	2.4	U	1.8	U	2.6	U	**0.672**	**J**
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	1.1	U	**0.52**	**J**	3.1	U	3.66	U
o-Xylene	440	14,520	0.87	U	0.87	U	0.87	U	**0.23**	**J**	**0.43**	**J**	2.4	U	1.8	U	1.7	U	0.759	U
Styrene	4,400	145,200	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	2.4	U	1.8	U	2.6	U	0.851	U
Tetrachloroethene	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	3.8	U	2.8	U	0.68	U	**21.5**	
Toluene	22,000	726,000	**0.85**	**J**	0.75	U	**0.77**	**J**	**0.69**	**J**	**0.96**	**J**	**0.88**	**J**	**0.66**	**J**	**1.5**	**J**	**1.58**	**J**
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.2	U	1.6	U	1.6	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.6	U	1.9	U	2.7	U	0.681	U
Trichloroethene	3	99	**0.68**	**J**	2.1	U	2.1	U	2.1	U	**0.67**	**J**	**29**		**35**		**1.6**		**133**	
Trichlorofluoromethane (Freon 11)	NA	NA	**8.9**		**5.4**		**8.4**		**7.8**		3.8	**J**	**7**		**3.3**	**J**	**7.9**		**7.19**	
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.4	U	6	U	2.1	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1.4	U	1	U	1	U	0.511	U
1,4-Dioxane	2.5	82.5	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = Hazard Quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the method detection limit
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 6. SD052-SVI Site Buildings 774 and 776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	774VMP-2																	
Field Sample Identification			774VMP-2-1216		774VMP-2_0317		774VMP-2_0318		774VMP-2_0319		774VMP-2_1119		774VMP-2_1220		774-VMP-2_011422		774-VMP-2_1222	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/16/2017		3/21/2018		3/25/2019		11/20/2019		12/1/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			1		1		1		1		1		1		1		1	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8	
VOCs (µg/m³)																		
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	1.1	U	1.1	U	4.1	U	**1.7**	**J**	**7.1**		**5.36**	
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	1.4	U	5.1	U	2.8	U	2.7	U	1.03	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	3.1	U	3.1	U	5.7	U	3.2	U	3.1	U	1.53	U
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	1.1	U	4.1	U	2.2	U	2.2	U	1.09	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	3	U	1.7	U	1.6	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	3	U	1.6	U	1.6	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	8.9	U	21	U	13	U	4.5	U	2.29	U
1,2,4-Trimethylbenzene	260	8,580	2	U	**15**		2	U	2	U	**1.6**	**J**	2	U	2	U	**0.451**	**J**
1,2-Dibromoethane (EDB)	0.02	0.66	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*5.7*	*U*	*3.2*	*U*	*4.6*	*U*	1.15	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	4.5	U	2.5	U	2.4	U	1.8	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	3	U	1.7	U	1.6	U	0.607	U
1,2-Dichloropropane	3.30	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.4	U	1.9	U	1.8	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	2	U	5		2	U	2	U	**0.63**	**J**	2	U	2	U	0.982	U
1,3-Dichlorobenzene	NA	NA	2.4	U	**6.2**		2.4	U	2.4	U	4.5	U	2.5	U	4.2	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	4.5	U	2.5	U	2.4	U	0.782	U
2-Butanone (MEK)	22,000	726,000	**1.5**	**J**	**6.5**		**1.2**	**J**	**2.1**	**J**	**2.6**	**J**	**2**	**J**	**3.5**		**3.86**	
2-Hexanone	130	4,290	0.82	U	0.82	U	0.82	U	0.82	U	11	U	7.1	U	2.5	U	1.23	U
4-Ethyltoluene	NA	NA	2	U	**5**		2	U	2	U	**1.6**	**J**	2	U	2.9	U	0.982	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	**6.4**		1.6	U	1.6	U	**3.2**	**J**	1.7	U	1.6	U	**0.483**	**J**
Acetone	NA	NA	**13**		**23**		**21**		**39**		**32**		**33**		**77.9**		**47.3**	
Benzene	1.6	52.8	**0.51**	**J**	**2.7**		**0.55**	**J**	**0.4**	**J**	**1.1**	**J**	1.3	U	1.3	U	**0.489**	**J**
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	3.9	U	2.1	U	2.1	U	0.675	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	1.3	U	5	U	2.8	U	2.7	U	1.01	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	7.7	U	4.3	U	4.1	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	11	U	6.7	U	1.6	U	0.776	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	1.6	U	0.92	U	0.88	U	1.39	U
Carbon disulfide	3,100	102,300	**1.4**	**J**	1.2	U	1.2	U	**2.7**		8.7	U	5.4	U	1.2	U	0.778	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	2.5	U	2.5	U	4.7	U	2.6	U	2.5	U	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	3.4	U	1.9	U	1.8	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	2.1	U	7.4	U	4.6	U	1.1	U	0.528	U
Chloroform	0.53	17.49	0.98	U	0.98	U	0.98	U	**0.86**	**J**	3.6	U	2	U	**2.7**	J	0.73	U
Chloromethane	390	12,870	**1.3**	**J**	**0.99**	**J**	**1**	**J**	**1.4**	**J**	5.8	U	3.6	U	0.83	U	**0.603**	**J**
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	3	U	1.6	U	1.6	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	3.4	U	1.9	U	1.8	U	0.681	U
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	6.4	U	3.5	U	3.4	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.4**	**J**	**2.7**	**J**	**1.8**	**J**	**2.4**	**J**	**3.4**	**J**	**2.3**	**J**	**2.2**	**J**	**2.26**	**J**
Ethylbenzene	4.9	161.7	0.87	U	**11**		**0.4**	**J**	**0.29**	**J**	3.2	U	1.8	U	1.7	U	0.867	U
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	*30*	*U*	18	U	4.3	U	2.67	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	10	U	6.2	U	1.4	U	0.468	U
Methylene Chloride	1,200	39,600	**0.38**	**J**	**0.56**	**J**	**0.58**	**J**	**0.48**	**J**	9.7	U	6	U	1.4	U	0.694	U
m-Xylene & p-Xylene****	880****	NA	**0.46**	**J**	**37**		**0.48**	**J**	**0.67**	**J**	**1.9**	**J**	**0.88**	**J**	2.6	U	**0.681**	**J**
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	**0.6**	**J**	**0.81**	**J**	3.1	U	3.66	U
o-Xylene	440	14,520	0.87	U	**16**		0.87	U	**0.32**	**J**	**1.4**	**J**	1.8	U	1.7	U	0.759	U
Styrene	4,400	145,200	0.85	U	0.85	U	0.85	U	**0.33**	**J**	3.2	U	1.8	U	2.6	U	0.851	U
Tetrachloroethene	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	5.1	U	2.8	U	0.68	U	**1.45**	**J**
Toluene	22,000	726,000	**0.81**	**J**	**35**		**1.1**	**J**	**0.73**	**J**	**7.4**		**1.4**	**J**	**1.7**	**J**	0.942	U
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	3	U	1.6	U	1.6	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	3.4	U	1.9	U	2.7	U	0.681	U
Trichloroethene	3	99	2.1	U	2.1	U	**0.66**	**J**	**0.64**	**J**	4	U	**18**		**40**		**37.7**	
Trichlorofluoromethane (Freon 11)	NA	NA	**8.6**		**5.1**		**9.1**		**13**		**7.9**		**3.4**	**J**	**55**		**78.1**	
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	9.9	U	6.1	U	2.1	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1.9	U	1	U	1	U	0.511	U
1,4-Dioxane	2.5	82.5	NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
µg/m³ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = Hazard Quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the method detection limit
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 6. SD052-SVI Site Buildings 774 and 776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	774VMP-3																			
Field Sample Identification			774VMP-3-1216		774VMP-3-0317		774VMP-3-0318		774VMP-3-1118		774VMP-3-0319		774VMP-3-1119		774VMP-3-1220		774-VMP-3_011422		774-VMP-3_1222	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/16/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/1/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			1		1		1		1		1		1		1		1		1	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	**1.2**	**J**	2.2	U	2.2	U	0.816	U
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	3.8	U	2.8	U	2.7	U	1.03	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	4.3	U	3.1	U	3.1	U	1.53	U
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3	U	2.2	U	2.2	U	1.09	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.2	U	1.6	U	1.6	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.2	U	1.6	U	1.6	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	15	U	13	U	4.5	U	2.29	U
1,2,4-Trimethylbenzene	260	8,580	2	U	**8.4**		2	U	**2.2**	**J**	2	U	**2.4**	**J**	2	U	2	U	0.982	U
1,2-Dibromoethane (EDB)	0.02	0.66	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*4.3*	*U*	*3.1*	*U*	*4.6*	*U*	1.15	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.3	U	2.4	U	2.4	U	1.8	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.2	U	1.6	U	1.6	U	0.607	U
1,2-Dichloropropane	3.30	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	2.6	U	1.9	U	1.8	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	2	U	**4**		2	U	**1**	**J**	2	U	**0.55**	**J**	2	U	2	U	0.982	U
1,3-Dichlorobenzene	NA	NA	2.4	U	**3.8**	**J**	2.4	U	2.4	U	2.4	U	3.3	U	2.4	U	4.2	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.3	U	2.4	U	2.4	U	0.782	U
2-Butanone (MEK)	22,000	726,000	**3.3**		**6.4**		1.2	U	**1.5**	**J**	**1.6**	**J**	**6.6**	**J**	5	U	**13**		**1.69**	**J**
2-Hexanone	130	4,290	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	8.5	U	7	U	2.5	U	1.23	U
4-Ethyltoluene	NA	NA	2	U	**3.4**	**J**	2	U	2	U	2	U	**2.1**	**J**	2	U	2.9	U	0.982	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	**6.1**		1.6	U	1.6	U	1.6	U	**3**		1.7	U	1.6	U	0.778	U
Acetone	NA	NA	**20**		**22**		**7.9**	**J**	**22**		**38**		**37**		**15**	**J**	**19**		**11.8**	
Benzene	1.6	52.8	**0.6**	**J**	**2.1**		**0.47**	**J**	**0.43**	**J**	**0.47**	**J**	**1.2**	**J**	**0.51**	**J**	1.3	U	**0.616**	**J**
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.9	U	2.1	U	2.1	U	0.675	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	3.7	U	2.7	U	2.7	U	1.01	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.7	U	4.2	U	4.1	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	8.1	U	6.6	U	1.6	U	0.776	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	1.2	U	0.9	U	0.88	U	1.39	U
Carbon disulfide	3,100	102,300	**8.3**		1.2	U	1.2	U	**0.83**	**J**	**0.59**	**J**	6.5	U	5.3	U	1.2	U	0.778	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	2.5	U	2.5	U	2.5	U	3.5	U	2.6	U	2.5	U	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	2.6	U	1.9	U	1.8	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.5	U	4.5	U	1.1	U	0.528	U
Chloroform	0.53	17.49	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	2.7	U	2	U	2	U	0.73	U
Chloromethane	390	12,870	**1.2**	**J**	**1.2**	**J**	**2.4**		**1.0**	J	**1.1**	**J**	**1.2**	**J**	3.5	U	**1.5**	**J**	**0.609**	**J**
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.2	U	1.6	U	1.6	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2.5	U	1.8	U	1.8	U	0.681	U
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	4.7	U	3.5	U	3.4	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.7**	**J**	**2.8**	**J**	**2.1**	**J**	**2.5**	**J**	**2.3**	**J**	**3.4**	**J**	**2.5**	**J**	**2.2**	**J**	**2.27**	**J**
Ethylbenzene	4.9	161.7	0.87	U	**11**		0.87	U	**0.82**	**J**	0.87	U	**1.5**	**J**	1.8	U	1.7	U	0.867	U
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	13	U	*22*	*U*	18	U	4.3	U	2.67	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	**18**		**15**		7.5	U	6.1	U	1.4	U	0.468	U
Methylene Chloride	1,200	39,600	**0.57**	**J**	**0.71**	**J**	**23**		**0.28**	**J**	**0.42**	**J**	7.2	U	5.9	U	1.4	U	0.694	U
m-Xylene & p-Xylene****	880****	NA	**0.77**	**J**	**36**		0.87	U	**4.5**		**0.56**	**J**	**6.3**		**0.24**	**J**	2.6	U	1.3	U
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	**0.67**	**J**	0.89	U	3.1	U	3.66	U
o-Xylene	440	14,520	**0.29**	**J**	**15**		0.87	U	**2.3**		**0.26**	**J**	**2.2**	**J**	1.8	U	1.7	U	0.759	U
Styrene	4,400	145,200	0.85	U	0.85	U	0.85	U	0.85	U	**0.26**	**J**	**1**	**J**	1.7	U	2.6	U	0.851	U
Tetrachloroethene	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	3.8	U	2.8	U	0.68	U	**0.623**	**J**
Toluene	22,000	726,000	**2.2**		**31**		**0.42**	**J**	**1.6**		**0.86**	**J**	**2.8**		**0.71**	**J**	2.3	U	0.942	U
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.2	U	1.6	U	1.6	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.5	U	1.8	U	2.7	U	0.681	U
Trichloroethene	3	99	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	**3**	**J**	**1.4**	**J**	0.43	U	**8.57**	
Trichlorofluoromethane (Freon 11)	NA	NA	**67**		**65**		**46**		**260**		**100**		**490**		**190**		**23**		**356**	
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.3	U	6	U	2.1	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1.4	U	1	U	1	U	0.511	U
1,4-Dioxane	2.5	82.5	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = Hazard Quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the method detection limit
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 6. SD052-SVI Site Buildings 774 and 776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	774IA-1																			
Field Sample Identification			774IA-1_1216		774IA-1_0317		774IA-1_0318		774IA-1_1118		774IA-1_0319		774IA-1_1119		774IA-1_1220		774-IA-1_011422		774-IA-1_1222	
Sample Location			Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/16/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/1/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			5		5		5		5		5		5		5		5		5	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	0.055	U	0.055	U	**0.049**	**J**	**0.021**	**J**	**0.024**	**J**	0.0082	U	0.103	U
1,1,2,2-Tetrachloroethane	0.21	6.93	*1.4*	*U*	*1.4*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	0.77	25.4	*1.1*	*U*	*1.1*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	0.04	U	0.04	U	0.04	U	0.034	U	0.044	U	0.004	U	0.0753	U
1,2,4-Trichlorobenzene	8.8	290	*8.9*	*U*	*8.9*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,2,4-Trimethylbenzene	260	8,580	2	U	2	U	NA		NA		NA		NA		NA		NA		NA	
1,2-Dibromoethane (EDB)	0.02	0.66	*1.5*	*U*	*1.5*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	0.47	15.5	*0.81*	*U*	*0.81*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloropropane	3.30	108.9	*3.7*	*U*	*3.7*	*U*	NA		NA		NA		NA		NA		NA		NA	
1,3,5-Trimethylbenzene	260	8,580	2	U	2	U	NA		NA		NA		NA		NA		NA		NA	
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	1.1	36.3	*2.4*	*U*	*2.4*	*U*	NA		NA		NA		NA		NA		NA		NA	
2-Butanone (MEK)	22,000	726,000	**1**	**J**	**1.9**	**J**	NA		NA		NA		NA		NA		NA		NA	
2-Hexanone	130	4,290	0.82	U	0.82	U	NA		NA		NA		NA		NA		NA		NA	
4-Ethyltoluene	NA	NA	2	U	2	U	NA		NA		NA		NA		NA		NA		NA	
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	NA		NA		NA		NA		NA		NA		NA	
Acetone	NA	NA	**14**		**8.7**	**J**	NA		NA		NA		NA		NA		NA		NA	
Benzene	1.6	52.8	**0.51**	**J**	**1.7**		**0.44**		**0.35**		**0.32**		**0.43**		**0.45**		**0.38**		**0.434**	
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	*2.1*	*U*	*2.1*	*U*	NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	0.33	10.89	*1.3*	*U*	*1.3*	*U*	NA		NA		NA		NA		NA		NA		NA	
Bromoform	11	363	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA		NA	
Bromomethane	22	726	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA		NA	
Butadiene	0.41	NA	*0.88*	*U*	*0.88*	*U*	NA		NA		NA		NA		NA		NA		NA	
Carbon disulfide	3,100	102,300	1.2	U	**3.1**		NA		NA		NA		NA		NA		NA		NA	
Carbon tetrachloride	2	66	1.3	U	1.3	U	**0.41**		**0.61**		**0.43**		**0.49**		**0.47**		**0.31**		**0.503**	
Chlorobenzene	220	7,260	0.92	U	0.92	U	NA		NA		NA		NA		NA		NA		NA	
Chloroethane	18,000	594,000	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA		NA	
Chloroform	0.53	17.49	*0.98*	*U*	*0.98*	*U*	NA		NA		NA		NA		NA		NA		NA	
Chloromethane	390	12,870	**1.4**	**J**	**1.4**	**J**	NA		NA		NA		NA		NA		NA		NA	
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	**0.071**	**J**	0.04	U	0.04	U	0.034	U	0.044	U	0.0079	U	0.119	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	NA		NA		NA		NA		NA		NA		NA	
Dibromochloromethane	NA	NA	1.7	U	1.7	U	NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.5**	**J**	**2.7**	**J**	NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	4.9	161.7	0.87	U	**0.38**	**J**	NA		NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	0.56	18.48	*13*	*U*	*13*	*U*	NA		NA		NA		NA		NA		NA		NA	
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA		NA	
Methylene Chloride	1,200	39,600	**0.48**	**J**	**0.47**	**J**	**0.37**	**J**	0.35	U	0.35	U	0.75	U	0.53	UB	NA		NA	
m-Xylene & p-Xylene****	880****	NA	**0.52**	**J**	**1.1**	**J**	NA		NA		NA		NA		NA		NA		NA	
Naphthalene	0.36	11.88	*6.3*	*U*	*6.3*	*U*	NA		NA		NA		NA		NA		NA		NA	
o-Xylene	440	14,520	0.87	U	**0.43**	**J**	NA		NA		NA		NA		NA		NA		NA	
Styrene	4,400	145,200	**0.26**	**J**	0.85	U	NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	47	1,551	1.4	U	1.4	U	**0.080**	**J**	0.14	U	0.14	U	**0.049**	**J**	**0.093**	**J**	**0.054**		**1.2**	
Toluene	22,000	726,000	**0.97**	**J**	**2**		NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	3	99	2.1	U	2.1	U	**0.11**		**0.039**	**J**	**0.17**		**0.13**	**J**	**0.14**	**J**	**0.075**		**0.225**	
Trichlorofluoromethane (Freon 11)	NA	NA	**47**		**35**		NA		NA		NA		NA		NA		NA		NA	
Vinyl acetate	880	29,040	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	2.8	92.4	1	U	1	U	0.026	U	0.026	U	0.026	U	0.022	U	0.028	U	0.0038	U	0.0486	U
1,4-Dioxane	2.5	82.5	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = Hazard Quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the method detection limit
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 6. SD052-SVI Site Buildings 774 and 776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	774776-INF																	
Field Sample Identification			774776-INF_1116		774776-INF_0317		774776-INF_0318		774776-INLET_1118		774776-INLET_0319		774776-INF_1119		774776-INF_1220		774776-INF_1222	
Sample Location			Influent		Influent		Influent		Influent		Influent		Influent		Influent		Influent	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			11/28/2016		3/17/2017		3/21/2018		11/29/2018		3/26/2019		11/20/2019		12/1/2020		12/21/2022	
Sample Depth (feet bgs / ags)			NA		NA		NA		NA		NA		NA		NA		NA	
Sample Collection Duration (hours)			Quick Grab		Quick Grab		Quick Grab		Quick Grab		Quick Grab		Quick Grab		Quick Grab		Quick Grab	
VOCs ($\mu g/m^3$)																		
1,1,1-Trichloroethane	22,000	726,000	**0.96**	**J**	**1.2**	**J**	**1.5**	J	1.1	U	1.1	U	3.1	U	2.1	U	0.816	U
1,1,2,2-Tetrachloroethane	0.21	6.93	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*3.9*	*U*	*2.6*	*U*	*1.03*	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	4.3	U	2.9	U	1.53	U
1,1,2-Trichloroethane	0.77	25.4	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*3.1*	*U*	*2.1*	*U*	*1.09*	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.3	U	1.6	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.2	U	1.5	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	*16*	*U*	*12*	*U*	2.29	U
1,2,4-Trimethylbenzene	260	8,580	2	U	**2.7**	**J**	2	U	2	U	2	U	2.8	U	1.9	U	0.982	U
1,2-Dibromoethane (EDB)	0.02	0.66	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*4.3*	*U*	*3*	*U*	*1.15*	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.4	U	2.3	U	1.8	U
1,2-Dichloroethane	0.47	15.5	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*2.3*	*U*	*1.6*	*U*	*0.607*	U
1,2-Dichloropropane	3.30	108.9	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	2.6	U	1.8	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	2	U	**1**	**J**	2	U	2	U	2	U	2.8	U	1.9	U	0.982	U
1,3-Dichlorobenzene	NA	NA	2.4	U	**1.3**	**J**	2.4	U	**1.0**	**J**	2.4	U	3.4	U	2.3	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	*3.4*	*U*	*2.3*	*U*	0.782	U
2-Butanone (MEK)	22,000	726,000	**3.2**		**2.1**	**J**	**0.68**	**J**	**4.8**		**0.82**	**J**	6.2	U	**1.8**	**J**	0.56	U
2-Hexanone	130	4,290	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	8.7	U	6.6	U	1.23	U
4-Ethyltoluene	NA	NA	2	U	**1**	**J**	2	U	2	U	2	U	2.8	U	1.9	U	0.982	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.3	U	1.6	U	0.778	U
Acetone	NA	NA	**28**		**17**		**19**		**12**		**3.4**	**J**	**23**		**17**		**5.63**	**J**
Benzene	1.6	52.8	**0.76**	**J**	**1.5**		**0.99**	**J**	**0.37**	**J**	**0.37**	**J**	**6.2**		**4.5**		**1.77**	
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	*2.9*	*U*	*2*	*U*	*0.675*	U
Bromodichloromethane	0.33	10.89	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*3.8*	*U*	*2.6*	*U*	*1.01*	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.8	U	4	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	8.2	U	6.2	U	0.776	U
Butadiene	0.41	NA	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*1.2*	*U*	*0.85*	*U*	*1.39*	U
Carbon disulfide	3,100	102,300	**0.53**	**J**	1.2	U	**11**		**10**		1.2	U	6.6	U	**6.4**	**J**	0.778	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	*2.5*	*U*	*2.5*	*U*	*2.5*	*U*	*3.5*	*U*	**0.51**	**J**	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	2.6	U	1.8	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.6	U	4.2	U	0.528	U
Chloroform	0.53	17.49	**1.2**	**J**	**1.2**	**J**	**1.2**	**J**	*0.98*	*U*	*0.98*	*U*	*2.8*	*U*	*1.9*	*U*	*0.73*	U
Chloromethane	390	12,870	**1.3**	**J**	**0.81**	**J**	**1.8**		**1.2**	**J**	**1.4**	**J**	**1.4**	**J**	3.3	U	**1.2**	
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	**6.3**		1.5	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2.6	U	1.7	U	0.681	U
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	4.8	U	3.3	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**5**		**5.4**		**3.0**	**J**	**2.3**	**J**	**2.3**	**J**	**2.8**	**J**	**2**	**J**	**2.05**	**J**
Ethylbenzene	4.9	161.7	0.87	U	**2.5**		**0.29**	**J**	0.87	U	0.87	U	2.4	U	1.7	U	0.867	U
Hexachlorobutadiene	0.56	18.48	*13*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*22*	*U*	*17*	*U*	*2.67*	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.6	U	5.8	U	0.468	U
Methylene Chloride	1,200	39,600	**0.36**	**J**	**0.68**	**J**	**0.50**	**J**	**0.41**	**J**	**0.41**	**J**	7.3	U	5.6	U	**0.399**	**J**
m-Xylene & p-Xylene****	880****	NA	0.87	U	**9**		**1.0**	**J**	**0.57**	**J**	**0.55**	**J**	2.4	U	1.7	U	1.3	U
Naphthalene	0.36	11.88	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*1.1*	*U*	*0.84*	*U*	*3.66*	U
o-Xylene	440	14,520	0.87	U	**3.8**		**0.47**	**J**	**0.27**	**J**	**0.29**	**J**	2.4	U	1.7	U	0.759	U
Styrene	4,400	145,200	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	2.4	U	1.6	U	0.851	U
Tetrachloroethene	47	1,551	1.4	U	1.4	U	**0.76**	**J**	**1.6**	**J**	1.4	U	3.8	U	2.6	U	1.36	U
Toluene	22,000	726,000	**0.22**	**J**	**5.9**		**0.81**	**J**	**0.53**	**J**	**0.3**	**J**	**0.65**	**J**	**0.45**	**J**	0.942	U
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.2	U	1.5	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.6	U	1.7	U	0.681	U
Trichloroethene	3	99	**37**		**36**		**57**		2.1	U	2.1	U	**73**		2.1	U	0.804	U
Trichlorofluoromethane (Freon 11)	NA	NA	**22**		**56**		**35**		**1.5**	**J**	**1.4**	**J**	**1.1**	**J**	**1.1**	**J**	**1.26**	**J**
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.4	U	5.6	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1.4	U	0.98	U	0.511	U
1,4-Dioxane	2.5	82.5	NA		NA		**0.54**	**J**	NA		NA		NA		NA		NA	

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = Hazard Quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the method detection limit
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 6. SD052-SVI Site Buildings 774 and 776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	776VMP-1																			
Field Sample Identification			776VMP-1_1216		776VMP-1_0317		776VMP-1_0318		776VMP-1_1118		776VMP-1_0319		776VMP-1_1119		776VMP-1_1220		776-VMP-1_011422		776-VMP-1_1222	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/16/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/1/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			1		1		1		1		1		1		1		1		1	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.1	U	2.2	U	2.2	U	0.816	U
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	3.9	U	2.8	U	2.7	U	1.03	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	3.1	U	3.1	U	**1.2**	**J**	4.3	U	3.2	U	3.1	U	**1.13**	**J**
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.1	U	2.2	U	2.2	U	1.09	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.3	U	1.7	U	1.6	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.2	U	1.6	U	1.6	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	16	U	13	U	4.5	U	2.29	U
1,2,4-Trimethylbenzene	260	8,580	**2.8**	**J**	2	U	2	U	2	U	2	U	2.8	U	2	U	2	U	0.982	U
1,2-Dibromoethane (EDB)	0.02	0.66	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*4.3*	*U*	*3.2*	*U*	*4.6*	*U*	1.15	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.4	U	2.5	U	2.4	U	1.8	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.3	U	1.7	U	1.6	U	0.607	U
1,2-Dichloropropane	3.30	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	2.6	U	1.9	U	1.8	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	**0.89**	**J**	2	U	2	U	2	U	2	U	2.8	U	2	U	2	U	0.982	U
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.4	U	2.5	U	4.2	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.4	U	2.5	U	2.4	U	0.782	U
2-Butanone (MEK)	22,000	726,000	**6**		**2**	**J**	**2.3**	**J**	**2.8**		**2.6**		**7.3**	**J**	**4**	**J**	**1.8**	**J**	**1.07**	**J**
2-Hexanone	130	4,290	**0.4**	**J**	0.82	U	0.82	U	0.82	U	0.82	U	**2.2**	**J**	7.1	U	2.5	U	1.23	U
4-Ethyltoluene	NA	NA	2	U	2	U	2	U	2	U	2	U	2.8	U	2	U	2.9	U	0.982	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	**0.99**	**J**	**1.3**	**J**	**0.84**	**J**	**0.72**	**J**	**2.2**	**J**	1.7	U	1.6	U	0.778	U
Acetone	NA	NA	**51**		**26**		**51**		**41**		**35**		**58**		**42**		**17**		**7.46**	
Benzene	1.6	52.8	**2.5**		**0.55**	**J**	**0.64**	**J**	**0.44**	**J**	**0.38**	**J**	**0.62**	**J**	**0.41**	**J**	1.3	U	**0.495**	**J**
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.9	U	2.1	U	2.1	U	0.675	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	3.8	U	2.8	U	2.7	U	1.01	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.8	U	4.3	U	4.1	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	8.2	U	6.7	U	1.6	U	0.776	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	1.2	U	0.92	U	0.88	U	1.39	U
Carbon disulfide	3,100	102,300	1.2	U	**0.58**	**J**	1.2	U	**12**		**0.61**	**J**	6.6	U	**15**		1.2	U	0.778	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	2.5	U	2.5	U	2.5	U	3.5	U	2.6	U	2.5	U	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	2.6	U	1.9	U	1.8	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.6	U	4.6	U	1.1	U	0.528	U
Chloroform	0.53	17.49	0.98	U	0.98	U	**0.52**	**J**	0.98	U	0.98	U	**0.56**	**J**	2	U	2	U	0.73	U
Chloromethane	390	12,870	**1.2**	**J**	**1.1**	**J**	**1.2**	**J**	**1.1**	**J**	**1**	**J**	4.4	U	3.6	U	**1.2**	**J**	**0.735**	**J**
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.2	U	1.6	U	1.6	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2.6	U	1.9	U	1.8	U	0.681	U
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	4.8	U	3.5	U	3.4	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.5**	**J**	**2.9**	**J**	**1.9**	**J**	**2.5**	**J**	**2.7**	**J**	**3.6**		**2.5**	**J**	**2.4**	**J**	**2.69**	**J**
Ethylbenzene	4.9	161.7	**2.6**		0.87	U	**0.33**	**J**	**0.28**	**J**	0.87	U	2.4	U	1.8	U	1.7	U	0.867	U
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	13	U	*22*	*U*	18	U	4.3	U	2.67	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.6	U	6.2	U	1.4	U	0.468	U
Methylene Chloride	1,200	39,600	**0.45**	**J**	**0.4**	**J**	**0.52**	**J**	0.69	U	**0.34**	**J**	7.3	U	6	U	1.4	U	**0.354**	**J**
m-Xylene & p-Xylene****	880****	NA	**10**		**0.6**	**J**	**0.78**	**J**	**0.77**	**J**	**0.66**	**J**	**1**	**J**	**0.78**	**J**	2.6	U	1.3	U
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	**2.3**	**J**	**1.5**	**J**	3.1	U	3.66	U
o-Xylene	440	14,520	**3.2**		**0.26**	**J**	**0.30**	**J**	**0.28**	**J**	**0.3**	**J**	2.4	U	1.8	U	1.7	U	0.759	U
Styrene	4,400	145,200	**1.2**	**J**	0.85	U	**0.29**	**J**	0.85	U	**0.33**	**J**	**0.72**	**J**	1.8	U	2.6	U	0.851	U
Tetrachloroethene	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	3.8	U	2.8	U	0.68	U	1.36	U
Toluene	22,000	726,000	**15**		**0.91**	**J**	**1.2**	**J**	**1.1**	**J**	**0.85**	**J**	**1.5**	**J**	**0.98**	**J**	**3.4**		**0.889**	**J**
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.2	U	1.6	U	1.6	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.6	U	1.9	U	2.7	U	0.681	U
Trichloroethene	3	99	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	3	U	2.2	U	0.43	U	0.804	U
Trichlorofluoromethane (Freon 11)	NA	NA	2.2	U	**1.3**	**J**	**1.7**	**J**	**1.6**	**J**	**1.7**	**J**	**1.4**	**J**	**1.1**	**J**	2.2	U	**1.41**	**J**
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.4	U	6.1	U	2.1	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1.4	U	1	U	1	U	0.511	U
1,4-Dioxane	2.5	82.5	NA		NA		1.4	U	NA		NA		NA		NA		NA		NA	

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = Hazard Quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the method detection limit
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 6. SD052-SVI Site Buildings 774 and 776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results
(December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	776VMP-2																																	
Field Sample Identification			776VMP-2_1216		776VMP-2_1216-a		776VMP-2_0317		776VMP-2_0317-a		776VMP-2_0318		776VMP-2_0318-a		776VMP-2_1118		776VMP-2_1118-a		776VMP-2_0319		776VMP-2_0319-a		776VMP-2_1119		776VMP-2_1119-a		776VMP-2_1220		776VMP-2_1220-a		776-VMP-2_011422		776-VMP-2_011422_A		776-VMP-2_1222		776-VMP-2_1222-A	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate		Field Duplicate		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate		Normal		Field Duplicate	
Date of Collection			12/1/2016		12/1/2016		3/16/2017		3/16/2017		3/21/2018		3/21/2018		11/29/2018		11/29/2018		3/25/2019		3/25/2019		11/20/2019		11/20/2019		12/1/2020		12/1/2020		1/14/2022		1/14/2022		12/21/2022		12/21/2022	
Sample Depth (feet bgs / ags)			1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		2.5		2.5	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8	
VOCs (µg/m³)																																						
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.1	U	**0.54**	**J**	2.2	U	2.3	U	2.2	U	2.2	U	0.816	U	0.816	U
1,1,2,2-Tetrachloroethane	0.21	6.93	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	1.4	U	3.9	U	3.9	U	2.8	U	2.9	U	2.7	U	2.7	U	1.03	U	1.03	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	**1.4**	**J**	**1.2**	**J**	3.1	U	3.2	U	3.1	U	3.1	U	**2.08**	**J**	**2.1**	**J**
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.1	U	3.1	U	2.2	U	2.3	U	2.2	U	2.2	U	1.09	U	1.09	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.3	U	2.3	U	1.6	U	1.7	U	1.6	U	1.6	U	0.601	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.2	U	2.2	U	1.6	U	1.7	U	1.6	U	1.6	U	0.793	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	16	U	16	U	12	U	13	U	4.5	U	4.5	U	2.29	U	2.29	U
1,2,4-Trimethylbenzene	260	8,580	**3**	**J**	**3.1**	**J**	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	**0.47**	**J**	2.8	U	2	U	2.1	U	2	U	2	U	**1.22**	**J**	**1.06**	**J**
1,2-Dibromoethane (EDB)	0.02	0.66	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*4.3*	*U*	*4.3*	*U*	*3.1*	*U*	*3.2*	*U*	*4.6*	*U*	*4.6*	*U*	1.15	U	1.15	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.4	U	3.4	U	2.4	U	2.5	U	2.4	U	2.4	U	1.8	U	1.8	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.3	U	2.3	U	1.6	U	1.7	U	1.6	U	1.6	U	0.607	U	0.607	U
1,2-Dichloropropane	3.30	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	2.6	U	2.6	U	1.8	U	1.9	U	1.8	U	1.8	U	0.924	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	**0.9**	**J**	**0.99**	**J**	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2.8	U	2.8	U	2	U	2.1	U	2	U	2	U	0.982	U	0.982	U
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.4	U	3.4	U	2.4	U	2.5	U	4.2	U	4.2	U	2.4	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.4	U	3.4	U	2.4	U	2.5	U	2.4	U	2.4	U	0.782	U	0.782	U
2-Butanone (MEK)	22,000	726,000	**5.2**		**4.5**		**1.8**	**J**	**1.9**	**J**	**2.7**		**2.3**	**J**	**2.3**	**J**	**2.6**		**2.9**		**3.1**		**10**		**9.1**		**4.1**	**J**	**2.7**	**J**	**1.5**	**J**	1.8	U	**14.2**		**12.8**	
2-Hexanone	130	4,290	**0.52**	**J**	**0.42**	**J**	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	**2.6**	**J**	**2.2**	**J**	6.9	U	7.2	U	2.5	U	2.5	U	1.23	U	1.23	U
4-Ethyltoluene	NA	NA	2	U	**1.2**	**J**	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2.8	U	2.8	U	2	U	2.1	U	2.9	U	2.9	U	0.982	U	0.982	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	**0.92**	**J**	**0.89**	**J**	**1.7**	**J**	**1.5**	**J**	**0.63**	**J**	**0.60**	**J**	**0.85**	**J**	**0.63**	**J**	**2**	**J**	**1.9**	**J**	1.6	U	1.7	U	1.6	U	1.6	U	0.778	U	0.778	U
Acetone	NA	NA	**42**		**37**		**32**		**27**		**55**		**53**		**71**		**73**		**90**		**110**		**140**		**130**		**80**	**J**	**52**	**J**	**30.4**	**J**	**14**	**J**	**41.1**		**38.3**	
Benzene	1.6	52.8	**2.1**		**2**		**0.53**	**J**	**0.56**	**J**	**0.62**	**J**	**0.61**	**J**	**0.53**	**J**	**0.55**	**J**	**0.44**	**J**	**0.45**	**J**	**0.66**	**J**	**0.61**	**J**	**0.49**	**J**	1.3	U	**2.3**		1.3	U	**0.76**	**J**	**0.961**	
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.9	U	2.9	U	2.1	U	2.2	U	2.1	U	2.1	U	0.675	U	0.675	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	3.8	U	3.8	U	2.7	U	2.8	U	2.7	U	2.7	U	1.01	U	1.01	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.8	U	5.8	U	4.2	U	4.3	U	4.1	U	4.1	U	3.21	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	8.2	U	8.2	U	6.5	U	6.8	U	1.6	U	1.6	U	0.776	U	**1.1**	**J**
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	1.2	U	1.2	U	0.89	U	0.93	U	0.88	U	0.88	U	1.39	U	1.39	U
Carbon disulfide	3,100	102,300	1.2	U	1.2	U	1.2	U	**0.62**	**J**	1.2	U	1.2	U	**1.1**	**J**	**0.93**	**J**	**0.48**	**J**	**2.7**	**J**	**3**	**J**	6.6	U	**15**		5.4	U	1.2	U	1.2	U	0.778	U	0.778	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	1.3	U	1.3	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	3.5	U	3.5	U	2.5	U	2.6	U	2.5	U	2.5	U	0.945	U	**0.494**	**J**
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	2.6	U	2.6	U	1.8	U	1.9	U	1.8	U	1.8	U	0.924	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.6	U	5.6	U	4.4	U	4.6	U	1.1	U	1.1	U	0.528	U	0.528	U
Chloroform	0.53	17.49	0.98	U	**0.53**	**J**	**0.53**	**J**	**0.54**	**J**	**0.58**	**J**	**0.53**	**J**	0.98	U	0.98	U	0.98	U	0.98	U	**0.65**	**J**	**0.94**	**J**	2	U	2	U	2	U	2	U	0.73	U	0.73	U
Chloromethane	390	12,870	**1.4**	**J**	**1.5**	**J**	**1.5**	**J**	**1.5**	**J**	**1.5**	**J**	**1.4**	**J**	**0.95**	**J**	**1.1**	**J**	**1.2**	**J**	**1.2**	**J**	**1.4**	**J**	**2**	**J**	3.4	U	3.6	U	**1.4**	**J**	**1.5**	**J**	**0.754**	**J**	**0.746**	**J**
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.2	U	2.2	U	1.6	U	1.7	U	1.6	U	1.6	U	0.793	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2.6	U	2.6	U	1.8	U	1.9	U	1.8	U	1.8	U	0.681	U	0.681	U
Dibromochloromethane	NA	NA	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	1.7	U	4.8	U	4.8	U	3.4	U	3.6	U	3.4	U	3.4	U	1.28	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.8**	**J**	**2.9**	**J**	**3.2**	**J**	**3.2**	**J**	**2**	**J**	**2**	**J**	**2.7**	**J**	**2.7**	**J**	**3.5**	**J**	**3.5**	**J**	**4.2**		**3.6**		**3.1**	**J**	**3**	**J**	**2.5**	**J**	**2.8**	**J**	**4.48**		**4.37**	
Ethylbenzene	4.9	161.7	**2.9**		**2.9**		**0.28**	**J**	0.87	U	**0.33**	**J**	0.87	U	0.87	U	0.87	U	**0.47**	**J**	**0.42**	**J**	2.4	U	2.4	U	1.7	U	**0.29**	**J**	1.7	U	1.7	U	**1.58**	**J**	**1.85**	
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U	*22*	*U*	*22*	*U*	18	U	*19*	*U*	4.3	U	4.3	U	2.67	U	2.67	U
Methyl tert-butyl ether	47	1,551	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	1.4	U	7.6	U	7.6	U	6	U	6.3	U	1.4	U	1.4	U	0.468	U	0.468	U
Methylene Chloride	1,200	39,600	**0.46**	**J**	**0.53**	**J**	**0.53**	**J**	**0.51**	**J**	**0.64**	**J**	**0.59**	**J**	0.69	U	0.69	U	**0.38**	**J**	**0.34**	**J**	7.3	U	7.3	U	5.8	U	6.1	U	1.4	U	1.4	U	0.694	U	0.694	U
m-Xylene & p-Xylene****	880****	NA	**11**		**11**		**0.64**	**J**	**0.56**	**J**	**0.75**	**J**	0.87	U	**0.61**	**J**	0.87	U	**1.2**	**J**	**1.1**	**J**	**1.1**	**J**	**1.3**	**J**	**1.4**	**J**	**1.3**	**J**	2.6	U	2.6	U	**5.51**		**6.16**	
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	**1.9**	**J**	**1.4**	**J**	**1.1**	**J**	**1**	**J**	3.1	U	3.1	U	3.66	U	3.66	U
o-Xylene	440	14,520	**3.6**		**3.6**		**0.27**	**J**	**0.24**	**J**	**0.34**	**J**	0.87	U	**0.23**	**J**	0.87	U	**0.54**	**J**	**0.46**	**J**	2.4	U	2.4	U	**0.5**	**J**	**0.59**	**J**	1.7	U	1.7	U	**1.7**		**1.96**	
Styrene	4,400	145,200	**1.5**	**J**	**1.7**		**0.28**	**J**	0.85	U	**0.41**	**J**	0.85	U	**0.34**	**J**	0.85	U	**0.55**	**J**	**0.42**	**J**	**0.78**	**J**	**0.56**	**J**	**0.29**	**J**	1.8	U	2.6	U	2.6	U	0.851	U	0.851	U
Tetrachloroethene	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	**0.40**	**J**	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	3.8	U	3.8	U	2.7	U	2.8	U	0.68	U	0.68	U	1.36	U	1.36	U
Toluene	22,000	726,000	**16**		**15**		**0.95**	**J**	**0.9**	**J**	**1.3**	**J**	**1.1**	**J**	**1.2**	**J**	**1.2**	**J**	**1.4**	**J**	**1.3**	**J**	**2.4**	**J**	**2.6**		**0.99**	**J**	**0.95**	**J**	**3.0**	**J**	2.3	U	0.942	U	0.942	U
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.2	U	2.2	U	1.6	U	1.7	U	1.6	U	1.6	U	0.594	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.6	U	2.6	U	1.8	U	1.9	U	2.7	U	2.7	U	0.681	U	0.681	U
Trichloroethene	3	99	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	**1.3**	**J**	**1.2**	**J**	**1.2**	**J**	**1.4**	**J**	**1.7**	**J**	**1**	**J**	0.43	U	0.43	U	**0.847**	**J**	**0.702**	**J**
Trichlorofluoromethane (Freon 11)	NA	NA	**1.4**	**J**	**1.6**	**J**	**1.4**	**J**	**1.4**	**J**	**1.7**	**J**	**1.8**	**J**	**1.7**	**J**	**1.9**	**J**	**1.7**	**J**	**1.6**	**J**	**1.3**	**J**	**1.7**	**J**	**1.4**	**J**	**1.2**	**J**	2.2	U	2.2	U	**1.78**	**J**	**1.72**	**J**
Vinyl acetate	880	29,040	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	1.4	U	7.4	U	7.4	U	5.9	U	6.2	U	2.1	U	2.1	U	0.88	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.4	U	1.4	U	1	U	1.1	U	1	U	1	U	0.511	U	0.511	U
1,4-Dioxane	2.5	82.5	NA		NA		NA		NA		1.4	U	1.4	U	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
µg/m³ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = Hazard Quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the method detection limit
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 6. SD052-SVI Site Buildings 774 and 776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	776VMP-3																			
Field Sample Identification			776VMP-3_1216		776VMP-3_0317		776VMP-3_0318		776VMP-3_1118		776VMP-3_0319		776VMP-3_0319		776VMP-3_1220		776-VMP-3_011422		776-VMP-3_1222	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/16/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/1/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			1		1		1		1		1		1		1		1		1	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	1.1	U	1.1	U	**0.35**	**J**	3	U	2.2	U	2.2	U	0.816	U
1,1,2,2-Tetrachloroethane	0.21	6.93	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	3.8	U	2.8	U	2.7	U	1.03	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	4.3	U	3.1	U	3.1	U	**0.658**	**J**
1,1,2-Trichloroethane	0.77	25.4	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3	U	2.2	U	2.2	U	1.09	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.2	U	1.6	U	1.6	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.2	U	1.6	U	1.6	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	8.9	U	8.9	U	8.9	U	8.9	U	8.9	U	15	U	12	U	4.5	U	2.29	U
1,2,4-Trimethylbenzene	260	8,580	**1.3**	**J**	2	U	2	U	**2.2**	**J**	2	U	2.7	U	2	U	2	U	**0.604**	**J**
1,2-Dibromoethane (EDB)	0.02	0.66	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*4.3*	*U*	*3.1*	*U*	*4.6*	*U*	1.15	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.3	U	2.4	U	2.4	U	1.8	U
1,2-Dichloroethane	0.47	15.5	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.2	U	1.6	U	1.6	U	0.607	U
1,2-Dichloropropane	3.30	108.9	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	2.6	U	1.9	U	1.8	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	2	U	2	U	2	U	**0.80**	**J**	2	U	2.7	U	2	U	2	U	0.982	U
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.3	U	2.4	U	4.2	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.3	U	2.4	U	2.4	U	0.782	U
2-Butanone (MEK)	22,000	726,000	**5.4**		**2.3**	**J**	**2.9**		**7.1**		**2.2**	**J**	**3.4**	**J**	**3.3**	**J**	1.8	U	**0.958**	**J**
2-Hexanone	130	4,290	0.82	U	0.82	U	0.82	U	0.82	U	**0.44**	**J**	8.5	U	6.9	U	2.5	U	1.23	U
4-Ethyltoluene	NA	NA	2	U	2	U	2	U	2	U	2	U	2.7	U	2	U	2.9	U	**0.506**	**J**
4-Methyl-2-pentanone (MIBK)	13,000	429,000	**1.7**	**J**	**1.2**	**J**	1.6	U	**0.92**	**J**	**1.3**	**J**	**1.2**	**J**	1.6	U	1.6	U	0.778	U
Acetone	NA	NA	**64**		**39**		**76**		**41**		**19**		**43**		**25**		**13**		**7.68**	
Benzene	1.6	52.8	**2.5**		**0.53**	**J**	**0.36**	**J**	**0.87**	**J**	**0.37**	**J**	**0.49**	**J**	**1.3**	**J**	1.3	U	**0.521**	**J**
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.9	U	2.1	U	2.1	U	0.675	U
Bromodichloromethane	0.33	10.89	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	3.7	U	2.7	U	2.7	U	1.01	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.7	U	4.2	U	4.1	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	8.1	U	6.6	U	1.6	U	0.776	U
Butadiene	0.41	NA	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	1.2	U	0.9	U	0.88	U	1.39	U
Carbon disulfide	3,100	102,300	**5.7**		1.2	U	1.2	U	**2**	**J**	**4.5**		6.5	U	5.2	U	1.2	U	0.778	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	2.5	U	2.5	U	2.5	U	3.5	U	2.5	U	2.5	U	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	**0.46**	**J**	0.92	U	0.92	U	2.6	U	1.9	U	1.8	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.5	U	4.4	U	1.1	U	0.528	U
Chloroform	0.53	17.49	0.98	U	0.98	U	**0.46**	**J**	0.98	U	**0.55**	**J**	**1.3**	**J**	2	U	2	U	0.73	U
Chloromethane	390	12,870	**1.1**	**J**	**0.81**	**J**	**0.88**	**J**	**1.0**	**J**	**0.87**	**J**	4.3	U	3.5	U	**1.6**	**J**	**0.576**	**J**
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.2	U	1.6	U	1.6	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2.5	U	1.8	U	1.8	U	0.681	U
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	4.7	U	3.4	U	3.4	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.8**	**J**	**3**	**J**	**2**	**J**	**2.7**	**J**	**3.7**	**J**	**5.6**		**4.1**		**2.9**	**J**	**4.18**	
Ethylbenzene	4.9	161.7	**2.1**		0.87	U	**3**		**2**		0.87	U	2.4	U	**0.67**	**J**	1.7	U	0.867	U
Hexachlorobutadiene	0.56	18.48	13	U	13	U	13	U	13	U	13	U	*22*	*U*	18	U	4.3	U	2.67	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.5	U	6.1	U	1.4	U	0.468	U
Methylene Chloride	1,200	39,600	**0.44**	**J**	**0.45**	**J**	**0.41**	**J**	0.69	U	**0.39**	**J**	7.2	U	5.9	U	1.4	U	0.694	U
m-Xylene & p-Xylene****	880****	NA	**7.7**		**0.62**	**J**	**1.4**	**J**	**6.9**		0.87	U	**0.49**	**J**	**2.3**	**J**	2.6	U	1.3	U
Naphthalene	0.36	11.88	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	**0.98**	**J**	**0.93**	**J**	3.1	U	3.66	U
o-Xylene	440	14,520	**2.6**		**0.28**	**J**	**0.42**	**J**	**3.5**		0.87	U	2.4	U	**0.94**	**J**	1.7	U	0.759	U
Styrene	4,400	145,200	**0.43**	**J**	0.85	U	**1.5**	**J**	0.85	U	0.85	U	2.4	U	**0.21**	**J**	2.6	U	0.851	U
Tetrachloroethene	47	1,551	1.4	U	1.4	U	**100**		1.4	U	1.4	U	3.8	U	2.7	U	0.68	U	1.36	U
Toluene	22,000	726,000	**14**		**0.89**	**J**	**0.77**	**J**	**5.2**		**0.9**	**J**	**1.7**	**J**	**4.5**		2.3	U	0.942	U
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.2	U	1.6	U	1.6	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.5	U	1.8	U	2.7	U	0.681	U
Trichloroethene	3	99	2.1	U	**0.94**	**J**	**27**		2.1	U	**4**	**J**	**0.96**	**J**	2.2	U	**0.64**	**J**	**1.36**	**J**
Trichlorofluoromethane (Freon 11)	NA	NA	**1.4**	**J**	**1.4**	**J**	**1.5**	**J**	**1.9**	**J**	**1.4**	**J**	**1.4**	**J**	**1.1**	**J**	2.2	U	**1.43**	**J**
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.3	U	5.9	U	2.1	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1.4	U	1	U	1	U	0.511	U
1,4-Dioxane	2.5	82.5	NA		NA		1.4	U	NA		NA		NA		NA		NA		NA	

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = Hazard Quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the method detection limit
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 6. SD052-SVI Site Buildings 774 and 776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	776IA-1																					
Field Sample Identification			776IA-1_1216		776IA-1_0317		776IA-1_0318		776IA-1_1118		776IA-1_0319		776IA-1_1119		776IA-1_1220		776-IA-1_011422		776-IA-1_0322		776-IA-1_1222	
Sample Location			Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/16/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/1/2020		1/14/2022		3/25/2022		12/21/2022	
Sample Depth (feet bgs / ags)			5		5		5		5		5		5		5		5		5		5	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																						
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	0.055	U	0.055	U	0.055	U	0.045	U	**0.018**	**J**	NA		**0.031**		0.103	U
1,1,2,2-Tetrachloroethane	0.21	6.93	*1.4*	*U*	*1.4*	*U*	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	0.77	25.4	*1.1*	*U*	*1.1*	*U*	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	0.04	U	0.04	U	0.04	U	0.033	U	0.045	U	0.004	U	**0.013**		0.0753	U
1,2,4-Trichlorobenzene	8.8	290	*8.9*	*U*	*8.9*	*U*	NA		NA		NA		NA		NA		NA		NA		NA	
1,2,4-Trimethylbenzene	260	8,580	2	U	**1.6**	**J**	NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dibromoethane (EDB)	0.02	0.66	*1.5*	*U*	*1.5*	*U*	NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	0.47	15.5	*0.81*	*U*	*0.81*	*U*	NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloropropane	3.30	108.9	*3.7*	*U*	*3.7*	*U*	NA		NA		NA		NA		NA		NA		NA		NA	
1,3,5-Trimethylbenzene	260	8,580	2	U	2	U	NA		NA		NA		NA		NA		NA		NA		NA	
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	1.1	36.3	*2.4*	*U*	*2.4*	*U*	NA		NA		NA		NA		NA		NA		NA		NA	
2-Butanone (MEK)	22,000	726,000	**1.7**	**J**	**1.7**	**J**	NA		NA		NA		NA		NA		NA		NA		NA	
2-Hexanone	130	4,290	0.82	U	0.82	U	NA		NA		NA		NA		NA		NA		NA		NA	
4-Ethyltoluene	NA	NA	2	U	2	U	NA		NA		NA		NA		NA		NA		NA		NA	
4-Methyl-2-pentanone (MIBK)	13,000	429,000	**2**	**J**	1.6	U	NA		NA		NA		NA		NA		NA		NA		NA	
Acetone	NA	NA	**28**		**25**		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene	1.6	52.8	**0.46**	**J**	**0.53**	**J**	**0.48**		**0.37**		**0.35**		**0.49**		**0.44**		**0.45**		**0.35**		**0.54**	
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	*2.1*	*U*	*2.1*	*U*	NA		NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	0.33	10.89	*1.3*	*U*	*1.3*	*U*	NA		NA		NA		NA		NA		NA		NA		NA	
Bromoform	11	363	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Bromomethane	22	726	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Butadiene	0.41	NA	*0.88*	*U*	*0.88*	*U*	NA		NA		NA		NA		NA		NA		NA		NA	
Carbon disulfide	3,100	102,300	1.2	U	1.2	U	NA		NA		NA		NA		NA		NA		NA		NA	
Carbon tetrachloride	2	66	1.3	U	1.3	*U*	**0.42**		**0.65**		**0.42**		**0.59**		**0.54**		**0.33**		**0.47**		**0.513**	
Chlorobenzene	220	7,260	0.92	U	0.92	U	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroethane	18,000	594,000	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroform	0.53	17.49	**0.5**	**J**	**0.47**	**J**	NA		NA		NA		NA		NA		NA		NA		NA	
Chloromethane	390	12,870	**1.3**	**J**	**1.7**		NA		NA		NA		NA		NA		NA		NA		NA	
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	**1.2**		0.04	U	0.04	U	0.033	U	0.045	U	**0.59**		0.79	U	0.119	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	NA		NA		NA		NA		NA		NA		NA		NA	
Dibromochloromethane	NA	NA	1.7	U	1.7	U	NA		NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.7**	**J**	**3.2**	**J**	NA		NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	4.9	161.7	**0.31**	**J**	**0.29**	**J**	NA		NA		NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	0.56	18.48	*13*	*U*	*13*	*U*	NA		NA		NA		NA		NA		NA		NA		NA	
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA		NA		NA	
Methylene Chloride	1,200	39,600	**0.35**	**J**	**0.41**	**J**	**0.38**	**J**	0.35	U	**0.56**	**J**	0.72	U	0.61	UB	NA		NA		NA	
m-Xylene & p-Xylene****	880****	NA	**0.72**	**J**	**1.1**	**J**	NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene	0.36	11.88	*6.3*	*U*	*6.3*	*U*	NA		NA		NA		NA		NA		NA		NA		NA	
o-Xylene	440	14,520	**0.3**	**J**	**0.57**	**J**	NA		NA		NA		NA		NA		NA		NA		NA	
Styrene	4,400	145,200	**0.54**	**J**	**0.27**	**J**	NA		NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	47	1,551	1.4	U	1.4	U	**0.17**		0.14	U	0.14	U	**0.088**	**J**	**0.045**	**J**	**6.6**		**0.068**		0.204	U
Toluene	22,000	726,000	**1.2**	**J**	**0.93**	**J**	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	NA		NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	3	99	2.1	U	2.1	U	**0.13**		0.054	U	**0.027**	**J**	**0.081**	**J**	**0.074**	**J**	**2.4**		**0.21**		**0.149**	**J**
Trichlorofluoromethane (Freon 11)	NA	NA	**1.3**	**J**	**1.3**	**J**	NA		NA		NA		NA		NA		NA		NA		NA	
Vinyl acetate	880	29,040	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	2.8	92.4	1	U	1	U	0.026	U	0.026	U	0.026	U	0.021	U	0.029	U	0.0038	U	0.0051	U	0.0486	U
1,4-Dioxane	2.5	82.5	NA		NA		**0.062**	**J**	NA		NA		NA		NA		NA		NA		NA	

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = Hazard Quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the method detection limit
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

Table 6. SD052-SVI Site Buildings 774 and 776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through December 2022)

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	776OA-1																			
Field Sample Identification			776OA-1_1216		776OA-1_0317		776OA-1_0318		776OA-1_1118		776OA-1_0319		776OA-1_1119		776OA-1_1220		776-OA-1_011422		776-OA-1_1222	
Sample Location			Outdoor		Outdoor		Outdoor		Outdoor		Outdoor		Outdoor		Outdoor		Outdoor		Outdoor	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			12/1/2016		3/16/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/1/2020		1/14/2022		12/21/2022	
Sample Depth (feet bgs / ags)			2		2		2		2		2		2		2		2		2	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8	
VOCs ($\mu g/m^3$)																				
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	1.1	U	2.6	U	1.1	U	2.8	U	2	U	0.55	U	0.816	U
1,1,2,2-Tetrachloroethane	0.21	6.93	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*3.3*	*U*	*1.4*	*U*	*3.6*	*U*	*2.6*	*U*	*0.69*	*U*	*1.03*	U
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	3.1	U	7.3	U	3.1	U	4	U	2.9	U	0.77	U	1.53	U
1,1,2-Trichloroethane	0.77	25.4	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*2.6*	*U*	*1.1*	*U*	*2.8*	*U*	*2*	*U*	0.55	U	*1.09*	U
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	0.81	U	1.9	U	0.81	U	2.1	U	1.5	U	0.4	U	0.601	U
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	1.6	U	3.8	U	1.6	U	2.1	U	1.5	U	0.4	U	0.793	U
1,2,4-Trichlorobenzene	8.8	290	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	*21*	*U*	*8.9*	*U*	*14*	*U*	*12*	*U*	1.1	U	2.29	U
1,2,4-Trimethylbenzene	260	8,580	2	U	2	U	2	U	4.7	U	2	U	**0.82**	**J**	1.8	U	0.49	U	0.982	U
1,2-Dibromoethane (EDB)	0.02	0.66	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*3.7*	*U*	*1.5*	*U*	*4*	*U*	*2.9*	*U*	*1.2*	*U*	*1.15*	U
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U	5.7	U	2.4	U	3.1	U	2.2	U	0.6	U	1.8	U
1,2-Dichloroethane	0.47	15.5	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*1.9*	*U*	*0.81*	*U*	*2.1*	*U*	*1.5*	*U*	0.4	U	*0.607*	U
1,2-Dichloropropane	3.30	108.9	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	*8.8*	*U*	*3.7*	*U*	2.4	U	1.7	U	0.46	U	0.924	U
1,3,5-Trimethylbenzene	260	8,580	2	U	2	U	2	U	4.7	U	2	U	2.6	U	1.8	U	0.49	U	0.982	U
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	2.4	U	5.7	U	2.4	U	3.1	U	2.2	U	1.1	U	2.4	U
1,4-Dichlorobenzene	1.1	36.3	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	*5.7*	*U*	*2.4*	*U*	*3.1*	*U*	*2.2*	*U*	0.6	U	0.782	U
2-Butanone (MEK)	22,000	726,000	**0.82**	**J**	**1.1**	**J**	**1.2**	**J**	**3.3**	**J D**	**1.9**	**J**	**2.6**	**J**	4.6	U	**0.5**	**J**	0.56	U
2-Hexanone	130	4,290	0.82	U	0.82	U	0.82	U	2	U	0.82	U	8	U	6.4	U	0.61	U	1.23	U
4-Ethyltoluene	NA	NA	2	U	2	U	2	U	4.7	U	2	U	2.6	U	1.8	U	0.74	U	0.982	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	1.6	U	3.9	U	1.6	U	2.1	U	1.5	U	0.41	U	0.778	U
Acetone	NA	NA	**14**		**7**	**J**	**8.3**	**J**	**34**	D	**14**		**23**		**24**		**4.3**		**2.76**	**J**
Benzene	1.6	52.8	**1.8**		**0.45**	**J**	**0.49**	**J**	1.5	U	**0.8**	**J**	*1.7*	U	1.2	U	**0.70**		**0.629**	**J**
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	*4.9*	*U*	*2.1*	*U*	*2.7*	*U*	*1.9*	*U*	*0.52*	*U*	*0.675*	U
Bromodichloromethane	0.33	10.89	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*3.2*	*U*	*1.3*	*U*	*3.5*	*U*	*2.5*	*U*	*0.67*	*U*	*1.01*	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	4.9	U	2.1	U	5.4	U	3.9	U	1	U	3.21	U
Bromomethane	22	726	3.1	U	3.1	U	3.1	U	7.4	U	3.1	U	7.6	U	6.1	U	0.39	U	0.776	U
Butadiene	0.41	NA	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*2.1*	*U*	*0.88*	*U*	*1.2*	*U*	*0.83*	*U*	0.22	U	*1.39*	U
Carbon disulfide	3,100	102,300	1.2	U	1.2	U	1.2	U	3	U	**1**	**J**	6.1	U	4.9	U	0.31	U	0.778	U
Carbon tetrachloride	2	66	1.3	U	1.3	U	*2.5*	*U*	*6*	*U*	*2.5*	*U*	*3.3*	*U*	*2.4*	*U*	0.63	U	0.945	U
Chlorobenzene	220	7,260	0.92	U	0.92	U	0.92	U	2.2	U	0.92	U	2.4	U	1.7	U	0.46	U	0.924	U
Chloroethane	18,000	594,000	2.1	U	2.1	U	2.1	U	5	U	2.1	U	4	U	4.1	U	0.26	U	0.528	U
Chloroform	0.53	17.49	*0.98*	*U*	*0.98*	*U*	*0.98*	*U*	*2.3*	*U*	*0.98*	*U*	*2.5*	*U*	*1.8*	*U*	0.49	*U*	*0.73*	U
Chloromethane	390	12,870	**0.97**	**J**	**1.3**	**J**	**1.6**	**J**	**1.2**	**J D**	**1.4**	**J**	**1.6**	**J**	**1.5**	**J**	**1.3**		**0.983**	**J**
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	1.9	U	0.79	U	2.1	U	1.5	U	0.4	U	0.793	U
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	1.8	U	4.3	U	1.8	U	2.4	U	1.7	U	0.45	U	0.681	U
Dibromochloromethane	NA	NA	1.7	U	1.7	U	1.7	U	4.1	U	1.7	U	4.4	U	3.2	U	0.85	U	1.28	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.3**	**J**	**2.8**	**J**	**1.9**	**J**	**2.1**	**J D**	**2.5**	**J**	**2.5**	**J**	**2.3**	**J**	**2.5**		**2.18**	**J**
Ethylbenzene	4.9	161.7	0.87	U	0.87	U	0.87	U	**1.6**	**J D**	0.87	U	**0.62**	**J**	1.6	U	0.43	U	0.867	U
Hexachlorobutadiene	0.56	18.48	*13*	*U*	*13*	*U*	*13*	*U*	*31*	*U*	*13*	*U*	*21*	*U*	*17*	*U*	*1.1*	*U*	*2.67*	U
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	1.4	U	3.4	U	1.4	U	7	U	5.6	U	0.36	U	0.468	U
Methylene Chloride	1,200	39,600	**0.3**	**J**	**0.4**	**J**	**0.52**	**J**	1.7	U	**0.35**	**J**	6.8	U	5.4	U	**0.73**		**0.389**	**J**
m-Xylene & p-Xylene****	880****	NA	0.87	U	0.87	U	0.87	U	**2.3**	**J D**	**0.52**	**J**	**2.9**		1.6	U	0.65	U	1.3	U
Naphthalene	0.36	11.88	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*15*	*U*	*6.3*	*U*	*1*	*U*	*0.82*	*U*	*0.79*	*U*	*3.66*	U
o-Xylene	440	14,520	0.87	U	0.87	U	0.87	U	2.1	U	0.87	U	**1.1**	**J**	1.6	U	0.43	U	0.759	U
Styrene	4,400	145,200	0.85	U	0.85	U	0.85	U	2	U	0.85	U	2.2	U	1.6	U	0.64	U	0.851	U
Tetrachloroethene	47	1,551	1.4	U	1.4	U	1.4	U	3.2	U	1.4	U	3.5	U	2.5	U	0.17	U	1.36	U
Toluene	22,000	726,000	**0.49**	**J**	**0.23**	**J**	**0.53**	**J**	**0.6**	**J D**	**3**		**1.5**	**J**	**0.38**	**J**	**0.68**	**J**	**0.998**	**J**
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.79	U	1.9	U	0.79	U	2.1	U	1.5	U	0.4	U	0.594	U
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	0.91	U	2.2	U	0.91	U	2.4	U	1.7	U	0.68	U	0.681	U
Trichloroethene	3	99	2.1	U	2.1	U	2.1	U	*5.1*	U	2.1	U	2.8	U	2	U	0.11	U	0.804	U
Trichlorofluoromethane (Freon 11)	NA	NA	**1.2**	**J**	**1.4**	**J**	**1.6**	**J**	5.4	U	**1.3**	**J**	**1**	**J**	**0.98**	**J**	**1.3**		**1.28**	**J**
Vinyl acetate	880	29,040	1.4	U	1.4	U	1.4	U	3.4	U	1.4	U	6.9	U	5.5	U	0.53	U	0.88	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	2.4	U	1	U	1.3	U	0.96	U	0.26	U	0.511	U
1,4-Dioxane	2.5	82.5	NA		NA		1.4	U	NA		NA		NA		NA		0.54	U	NA	

Notes:
$\mu g/m^3$ = micrograms per cubic meter
ags = above ground surface
bgs = below ground surface
DAF = Dilution Attenuation Factor
HQ = Hazard Quotient
NA = Not applicable
OSWER = Office of Solid Waste and Emergency Response
RSL = Regional Screening Level
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
Bolded results are detections above the method detection limit
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds applicable screening criteria with no negative impact on the quality or usability of the data.
* = USEPA Industrial Air RSL, HQ = 1, November 2022
** = 33x USEPA RSL Indoor Air Screening Level (33x DAF) (see Section 6.3.5, Page 81, Footnote 134 of OSWER Directive 9200.2-154)
*** = screening level is the summation of m-xylene and p-xylene
Data Qualifiers
D - the reported value is from a dilution
J - Estimated: The analyte was positively identified; the quantitation is an estimation
U - Undetected at the Limit of Detection
UB - considered an artifact of blank contamination

APPENDICES

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APPENDIX A
FIELD FORMS

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bhate

SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 774VMP-1	DATE: 12/21/22	TIME: 0810-0815
SAMPLE DEPTH:		
FIELD PERSONNEL: J. Dawud		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP		
CGI		

TRACER GAS VERIFIED (Y/N):	No
TRACER GAS CONC (%):	-
SAMPLE PURGE VOLUME:	Syringe
VOLUME OF SOIL VAPOR EXTRACTED:	
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	20 Hg
AFTER SAMPLING:	0 Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Dry

COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):

In office w/ 2 occupants. No abnormal conditions.

VOCs USED DURING NORMAL OPERATIONS: Janitor closet almost empty. Mr. Clean, Clorox wipe.

WEATHER CONDITIONS:	Partly cloudy	VENTILATION CONDITIONS:	
OUTDOOR TEMPERATURE:	30s	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.5	INDOOR AIR TEMPERATURE:	65F
WIND SPEED & DIRECTION:	Calm	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	-		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 774VMP-2	DATE: 12/21/22	TIME: 0820-0822
SAMPLE DEPTH:		
FIELD PERSONNEL: J. Dawud		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP		
CGI		

TRACER GAS VERIFIED (Y/N):	Yes
TRACER GAS CONC (%):	0 ppm
SAMPLE PURGE VOLUME:	Syringe
VOLUME OF SOIL VAPOR EXTRACTED:	
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	32 Hg
AFTER SAMPLING:	1 Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Dry

COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):

Front part of women's bathroom/change room. No abnormal conditions.

VOCs USED DURING NORMAL OPERATIONS: Normal janitorial supplies. Closet had Mr Clean & Clorox wip

WEATHER CONDITIONS:	Partly cloudy	VENTILATION CONDITIONS:	
OUTDOOR TEMPERATURE:	30s	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.5	INDOOR AIR TEMPERATURE:	65F
WIND SPEED & DIRECTION:	Calm	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	-		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 774VMP-3	DATE: 12/21/22	TIME: 0842-0850
SAMPLE DEPTH:		
FIELD PERSONNEL: J. Dawud		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP		
CGI		

TRACER GAS VERIFIED (Y/N): No	
TRACER GAS CONC (%): -	
SAMPLE PURGE VOLUME: Purged-syringe method	
VOLUME OF SOIL VAPOR EXTRACTED:	
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING: 32 Hg	
AFTER SAMPLING: 1 Hg	
APPARENT MOISTURE CONTENT (dry/moist/saturated): Dry	
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):	
In back office. Nothing abnormal	
VOCs USED DURING NORMAL OPERATIONS: Standard cleaning supplies/janitor closet	

WEATHER CONDITIONS: Partly cloudy	VENTILATION CONDITIONS:
OUTDOOR TEMPERATURE: 30s	HEATING SYSYTEM ACTIVE (Y/N): Yes
BAROMETRIC PRESSURE: 29.5	INDOOR AIR TEMPERATURE: 65F
WIND SPEED & DIRECTION: Calm	WINDOWS CLOSED (Y/N): Yes
PRECIPITATION: -	

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INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 774IA-1	DATE: 12/21/22	TIME: 0820
SAMPLE DEPTH: On table in office		
FIELD PERSONNEL: J. Dawud		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	
CGI	-	

TYPE OF SAMPLE (indoor/outdoor):	Indoor
DURATION OF AIR SAMPLING:	8 hr
VOLUME OF AIR SAMPLED:	6<
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	30 Hg
AFTER SAMPLING:	0 Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Dry.

COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):

Empty office

VOCs USED DURING NORMAL OPERATIONS:

Standard janitorial supplies. White board.

WEATHER CONDITIONS: Partly cloudy	VENTILATION CONDITIONS:
OUTDOOR TEMPERATURE: 30s	HEATING SYSYTEM ACTIVE (Y/N): Yes
BAROMETRIC PRESSURE: 29.5	INDOOR AIR TEMPERATURE: 65F
WIND SPEED & DIRECTION: Calm	WINDOWS CLOSED (Y/N): Yes
PRECIPITATION: -	

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 776VMP-1	DATE: 12/22/22	TIME: 0900-0955
SAMPLE DEPTH:		
FIELD PERSONNEL: J. Dawud		
INSTRUMENTS:	MODEL #	SERIAL #
PUMP		
CGI		
TRACER GAS VERIFIED (Y/N): No		
TRACER GAS CONC (%): -		
SAMPLE PURGE VOLUME: Syringe		
VOLUME OF SOIL VAPOR EXTRACTED:		
SUMMA CANISTER VACUUM:		
BEFORE SAMPLING: 29 Hg		
AFTER SAMPLING: 0 Hg		
APPARENT MOISTURE CONTENT (dry/moist/saturated): Dry		
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):		
In hallway by copy machine. In storage area		
VOCs USED DURING NORMAL OPERATIONS: Standard janitorial but janitor closet locked.		
WEATHER CONDITIONS: Partly cloudy	VENTILATION CONDITIONS:	
OUTDOOR TEMPERATURE: 30s	HEATING SYSYTEM ACTIVE (Y/N): Yes	
BAROMETRIC PRESSURE: 29.5	INDOOR AIR TEMPERATURE: 65F	
WIND SPEED & DIRECTION: Calm	WINDOWS CLOSED (Y/N): Yes	
PRECIPITATION: -		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 776VMP-2	DATE: 12/22/2022	TIME: 0840-0845
SAMPLE DEPTH:		
FIELD PERSONNEL: J. Dawud		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP		
CGI		

TRACER GAS VERIFIED (Y/N):	No
TRACER GAS CONC (%):	-
SAMPLE PURGE VOLUME:	Syringe
VOLUME OF SOIL VAPOR EXTRACTED:	
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	-30 Hg
AFTER SAMPLING:	0 Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Dry.

COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):

In closet off waiting area. Nothing abnormal but closet was full of items for storage.

VOCs USED DURING NORMAL OPERATIONS:

Standard cleaning supplies. Janitor closet locked, no access.

WEATHER CONDITIONS:	Partly cloudy	VENTILATION CONDITIONS:	
OUTDOOR TEMPERATURE:	30s	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.5	INDOOR AIR TEMPERATURE:	65F
WIND SPEED & DIRECTION:	Calm	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	-		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 776VMP-3	DATE: 12/22/22	TIME: 0850/0850
SAMPLE DEPTH:		
FIELD PERSONNEL: J. Dawud		
INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	
CGI	-	
TRACER GAS VERIFIED (Y/N): Yes		
TRACER GAS CONC (%): 22.9% in bucket and 21% in line.		
SAMPLE PURGE VOLUME: Syringe & the detector		
VOLUME OF SOIL VAPOR EXTRACTED:		
SUMMA CANISTER VACUUM:		
BEFORE SAMPLING: 29.5 Hg		
AFTER SAMPLING: 0 Hg		
APPARENT MOISTURE CONTENT (dry/moist/saturated): Dry.		
Back hallway next to door exterior & cubicle/desk. No abnormal conditions.		
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):		
VOCs USED DURING NORMAL OPERATIONS:		
Normal janitor. Closet locked-no access.		
WEATHER CONDITIONS: Partly cloudy	VENTILATION CONDITIONS:	
OUTDOOR TEMPERATURE: 30s	HEATING SYSYTEM ACTIVE (Y/N): Yes	
BAROMETRIC PRESSURE: 29.5	INDOOR AIR TEMPERATURE: 65F	
WIND SPEED & DIRECTION: Calm	WINDOWS CLOSED (Y/N): Yes	
PRECIPITATION: -		

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INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 776IA-1	DATE: 12/21/2022	TIME: 0900-1002
SAMPLE DEPTH: On desk in office.		
FIELD PERSONNEL:		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	
CGI	-	

TYPE OF SAMPLE (indoor/outdoor):	Indoor
DURATION OF AIR SAMPLING:	8 hr
VOLUME OF AIR SAMPLED:	6 L
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	30 Hg
AFTER SAMPLING:	0 Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Dry.

COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):

Empty office on desk. No abnormal conditions.

VOCs USED DURING NORMAL OPERATIONS: Standard cleaning & janitorial.

Janitor closet locked, no access.

WEATHER CONDITIONS: Partly cloudy	VENTILATION CONDITIONS:
OUTDOOR TEMPERATURE: 30s	HEATING SYSYTEM ACTIVE (Y/N): Yes
BAROMETRIC PRESSURE: 29.5	INDOOR AIR TEMPERATURE: 65F
WIND SPEED & DIRECTION: Calm	WINDOWS CLOSED (Y/N): Yes
PRECIPITATION: -	

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INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 776OA-1	DATE: 12/21/2022	TIME: 0835-1015
SAMPLE DEPTH: Hang from tree - 3.5 ft above ground		
FIELD PERSONNEL: J. Dawud		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	
CGI	-	

TYPE OF SAMPLE (indoor/outdoor):	Outdoor
DURATION OF AIR SAMPLING:	2 hr
VOLUME OF AIR SAMPLED:	6 L
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	30 Hg
AFTER SAMPLING:	0 Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Moist-some snow nearby.

COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):

Nothing abnormal.

VOCs USED DURING NORMAL OPERATIONS:

N/A

WEATHER CONDITIONS:	Partly cloudy	VENTILATION CONDITIONS:	
OUTDOOR TEMPERATURE:	mid 30s	HEATING SYSYTEM ACTIVE (Y/N):	-
BAROMETRIC PRESSURE:	29.5	INDOOR AIR TEMPERATURE:	-
WIND SPEED & DIRECTION:	Calm	WINDOWS CLOSED (Y/N):	-
PRECIPITATION:	-		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 785VMP-2 & dup	DATE: 12/21/2022	TIME: 1435/1545
SAMPLE DEPTH:		
FIELD PERSONNEL: J. Dawud		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	
CGI	-	

TRACER GAS VERIFIED (Y/N): No	
TRACER GAS CONC (%): -	
SAMPLE PURGE VOLUME: Syringe	
VOLUME OF SOIL VAPOR EXTRACTED:	
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING: 31 Hg/29 Hg	
AFTER SAMPLING: 2 Hg/0 Hg	
APPARENT MOISTURE CONTENT (dry/moist/saturated): Dry.	
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):	
Under aircraft wing, near wheel.	
VOCs USED DURING NORMAL OPERATIONS:	
Aviation fluids, cleaners, paints, oils, etc. See pictures.	

WEATHER CONDITIONS: Partly cloudy	VENTILATION CONDITIONS:
OUTDOOR TEMPERATURE: 29F	HEATING SYSYTEM ACTIVE (Y/N): Yes
BAROMETRIC PRESSURE: 30.43	INDOOR AIR TEMPERATURE: High 50s
WIND SPEED & DIRECTION: 5 mph	WINDOWS CLOSED (Y/N): Yes (doors closed)
PRECIPITATION: -	

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 785VMP-4	DATE: 12/21/22	TIME: 1455/1535
SAMPLE DEPTH:		
FIELD PERSONNEL: J. Dawud		
INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	-
CGI	-	-
TRACER GAS VERIFIED (Y/N): Yes		
TRACER GAS CONC (%): 0.0		
SAMPLE PURGE VOLUME: Syringe & Hg sampler		
VOLUME OF SOIL VAPOR EXTRACTED:		
SUMMA CANISTER VACUUM:		
BEFORE SAMPLING: 29 Hg		
AFTER SAMPLING: 0 Hg		
APPARENT MOISTURE CONTENT (dry/moist/saturated): Dry. Slight moist?		
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):		
Nothing abnormal.		
VOCs USED DURING NORMAL OPERATIONS:		
See pics. Numerous cleaners, paint supplies, oils, etc in chemical lockers.		
WEATHER CONDITIONS: Partly cloudy	VENTILATION CONDITIONS: -	
OUTDOOR TEMPERATURE: 29F	HEATING SYSYTEM ACTIVE (Y/N): Yes	
BAROMETRIC PRESSURE: 30.43	INDOOR AIR TEMPERATURE: High 50s	
WIND SPEED & DIRECTION: 5 mph west, calm	WINDOWS CLOSED (Y/N): Yes (doors closed)	
PRECIPITATION: -		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 785VMP-5	DATE: 12/21/2022	TIME: 1525/1600
SAMPLE DEPTH: 12/21/2022		
FIELD PERSONNEL:		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	
CGI	-	

TRACER GAS VERIFIED (Y/N): No	
TRACER GAS CONC (%): -	
SAMPLE PURGE VOLUME: Syringe	
VOLUME OF SOIL VAPOR EXTRACTED:	
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING: 33 Hg	
AFTER SAMPLING: 0 Hg	
APPARENT MOISTURE CONTENT (dry/moist/saturated): Dry.	
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):	
Mechanical room. Empty otherwise.	
VOCs USED DURING NORMAL OPERATIONS:	
none - maybe mech maintenance?	

WEATHER CONDITIONS: Partly cloudy	VENTILATION CONDITIONS:
OUTDOOR TEMPERATURE: 29F	HEATING SYSYTEM ACTIVE (Y/N): Yes
BAROMETRIC PRESSURE: 30.43	INDOOR AIR TEMPERATURE: Cold-40s?
WIND SPEED & DIRECTION: Calm 5mph	WINDOWS CLOSED (Y/N): Yes/NA
PRECIPITATION: -	

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INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 785IA-1	DATE: 12/21/2022	TIME: 1515/1530
SAMPLE DEPTH: 3-4 ft up on frame		
FIELD PERSONNEL: J. Dawud		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	-
CGI	-	-

TYPE OF SAMPLE (indoor/outdoor):	Indoor
DURATION OF AIR SAMPLING:	8 hr
VOLUME OF AIR SAMPLED:	6 L
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	30 Hg
AFTER SAMPLING:	0 Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Dry.

COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):

Aircraft & vehicle hangar, many chem storage lockers & paints, etc.

VOCs USED DURING NORMAL OPERATIONS:

See building list/pics

WEATHER CONDITIONS:	VENTILATION CONDITIONS: -
OUTDOOR TEMPERATURE: 29F	HEATING SYSYTEM ACTIVE (Y/N): Yes
BAROMETRIC PRESSURE: 30.43	INDOOR AIR TEMPERATURE: High 50s F
WIND SPEED & DIRECTION: 5 mph	WINDOWS CLOSED (Y/N): Yes
PRECIPITATION: None	

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 786VMP-1	DATE: 12/21/2022	TIME: 1600/1615
SAMPLE DEPTH:		
FIELD PERSONNEL: J. Dawud		
INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	
CGI	-	
TRACER GAS VERIFIED (Y/N): No		
TRACER GAS CONC (%): -		
SAMPLE PURGE VOLUME: Syringe		
VOLUME OF SOIL VAPOR EXTRACTED:		
SUMMA CANISTER VACUUM:		
BEFORE SAMPLING: 30 Hg		
AFTER SAMPLING: 0 Hg		
APPARENT MOISTURE CONTENT (dry/moist/saturated):		
Dry to moist		
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):		
Vault flooded-mid hangar.		
VOCs USED DURING NORMAL OPERATIONS:		
Laundry area, household cleaners		
WEATHER CONDITIONS: Partly cloudy	VENTILATION CONDITIONS: -	
OUTDOOR TEMPERATURE: 29F	HEATING SYSYTEM ACTIVE (Y/N): Yes	
BAROMETRIC PRESSURE: 30.43	INDOOR AIR TEMPERATURE: 50s/60s	
WIND SPEED & DIRECTION: 5mph W	WINDOWS CLOSED (Y/N): Yes (Baydoors)	
PRECIPITATION: -		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 786VMP-2	DATE: 12/21/2022	TIME: 1545/1620
SAMPLE DEPTH:		
FIELD PERSONNEL: J. Dawud		
INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	
CGI	-	
TRACER GAS VERIFIED (Y/N): Yes		
TRACER GAS CONC (%): 20% in bucket. O ppm from VMP.		
SAMPLE PURGE VOLUME: Syringe + the meter		
VOLUME OF SOIL VAPOR EXTRACTED:		
SUMMA CANISTER VACUUM:		
BEFORE SAMPLING: 30 Hg		
AFTER SAMPLING: 1.5 Hg		
APPARENT MOISTURE CONTENT (dry/moist/saturated):		
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):		
Dry.		
VOCs USED DURING NORMAL OPERATIONS:		
Near laundry area.		
WEATHER CONDITIONS: Partly cloudy.	VENTILATION CONDITIONS: -	
OUTDOOR TEMPERATURE: 29F	HEATING SYSYTEM ACTIVE (Y/N): Yes	
BAROMETRIC PRESSURE: 30.43	INDOOR AIR TEMPERATURE: 50/60 F	
WIND SPEED & DIRECTION: 5 mph	WINDOWS CLOSED (Y/N): Yes (Baydoors)	
PRECIPITATION: -		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 786VMP-3	DATE: 12/21/2022	TIME: 1605/1625
SAMPLE DEPTH:		
FIELD PERSONNEL: J. Dawud		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	
CGI	-	

TRACER GAS VERIFIED (Y/N):	No
TRACER GAS CONC (%):	-
SAMPLE PURGE VOLUME:	Syringe
VOLUME OF SOIL VAPOR EXTRACTED:	
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	31 Hg
AFTER SAMPLING:	0 Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Dry.

COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):

Far corner, nothing abnormal.

VOCs USED DURING NORMAL OPERATIONS:

Laundry supplies, standard house cleaners.

WEATHER CONDITIONS:	Partly cloudy	VENTILATION CONDITIONS:	-
OUTDOOR TEMPERATURE:	29F	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	30.43	INDOOR AIR TEMPERATURE:	50/60 F
WIND SPEED & DIRECTION:	5 mph	WINDOWS CLOSED (Y/N):	Yes (Baydoors)
PRECIPITATION:	-		

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INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 786IA-1	DATE: 12/21/2022	TIME: 1540-1610
SAMPLE DEPTH: 3 ft above on beam.		
FIELD PERSONNEL: J. Dawud		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	
CGI	-	

TYPE OF SAMPLE (indoor/outdoor):	Indoor
DURATION OF AIR SAMPLING:	8 hr
VOLUME OF AIR SAMPLED:	6 L
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	28.5 Hg
AFTER SAMPLING:	0
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Dry.
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):	Nothing abnormal.
VOCs USED DURING NORMAL OPERATIONS:	Laundry, cleaner.

WEATHER CONDITIONS: Partly cloudy	VENTILATION CONDITIONS: -
OUTDOOR TEMPERATURE: 29F	HEATING SYSYTEM ACTIVE (Y/N): Yes
BAROMETRIC PRESSURE: 30.43	INDOOR AIR TEMPERATURE: 50/60 F
WIND SPEED & DIRECTION: 5 mph W	WINDOWS CLOSED (Y/N): Yes (Baydoors)
PRECIPITATION:	

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INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 785OA-1	DATE: 12/21/2022	TIME: 1455/1625
SAMPLE DEPTH:		
FIELD PERSONNEL:		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	
CGI	-	

TYPE OF SAMPLE (indoor/outdoor):	Outdoor
DURATION OF AIR SAMPLING:	8 hr
VOLUME OF AIR SAMPLED:	6 L
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	30 Hg
AFTER SAMPLING:	0
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Dry.

COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):

Nothing close by, on GAC Drum.

VOCs USED DURING NORMAL OPERATIONS:

N/A

WEATHER CONDITIONS:	VENTILATION CONDITIONS:
OUTDOOR TEMPERATURE: 29F	HEATING SYSYTEM ACTIVE (Y/N): -
BAROMETRIC PRESSURE: 30.43	INDOOR AIR TEMPERATURE: -
WIND SPEED & DIRECTION: 5mph west	WINDOWS CLOSED (Y/N): -
PRECIPITATION: -	

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INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 785 786-INF-1222	DATE: 12/21/2022	TIME: 1505
SAMPLE DEPTH:		
FIELD PERSONNEL: Junaid Dawud		

INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	
CGI	-	

TYPE OF SAMPLE (indoor/outdoor): -	
DURATION OF AIR SAMPLING: -	
VOLUME OF AIR SAMPLED: -	
SUMMA CANISTER VACUUM: Grab.	
BEFORE SAMPLING: 30 Hg	
AFTER SAMPLING: 0 Hg	
APPARENT MOISTURE CONTENT (dry/moist/saturated): Dry.	
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):	
Nothing abnormal.	
VOCs USED DURING NORMAL OPERATIONS:	
N/A	

WEATHER CONDITIONS: -	VENTILATION CONDITIONS: -
OUTDOOR TEMPERATURE: 29 F	HEATING SYSYTEM ACTIVE (Y/N): -
BAROMETRIC PRESSURE: 30.43	INDOOR AIR TEMPERATURE: -
WIND SPEED & DIRECTION: 5 mph W	WINDOWS CLOSED (Y/N): -
PRECIPITATION: -	

B774

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Junaid Dawud Date/Time Prepared 12/22/22

Preparer's Affiliation Bhate Phone No._____

Purpose of Investigation SVI Sampling

1. OCCUPANT:

Interviewed: Y ☑ **N** ☐

Last Name: ---------- First Name: Linda

Address: B 774

County: Oneida

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location Unknown Age of Occupants Adults

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y ☐ **N** ☑

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Check appropriate response)

☐ Residential	☐ School	☑ Commercial/Multi-use
☑ Industrial	☐ Church	☐ Other: _____

If the property is residential, type? (Check appropriate response)

☐ Ranch	☐ 2-Family	☐ 3-Family
☐ Raised Ranch	☐ Split Level	☐ Colonial
☐ Cape Cod	☐ Contemporary	☐ Mobile Home
☐ Duplex	☐ Apartment House	☐ Townhouses/Condos
☐ Modular	☐ Log Home	☐ Other:_____

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) BAE Systems

Does it include residences (i.e., multi-use)? Y ☐ N ☑ If yes, how many? _____

Other characteristics:

Number of floors 1 Building age_____

Is the building insulated? Y ☑ N ☐ How air tight? Tight ☑ Average ☑ Not Tight ☐

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

_____

_____

_____

Airflow near source

_____

_____

_____

Outdoor air infiltration

_____

_____

_____

Infiltration into air ducts

_____

_____

_____

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Check all that apply)

a. Above grade construction: ☐ wood frame ☑ concrete ☐ stone ☐ brick

b. Basement type: ☐ full ☐ crawlspace ☐ slab ☐ other _____

c. Basement floor: ☐ concrete ☐ dirt ☐ stone ☐ other _____

d. Basement floor: ☐ uncovered ☐ covered ☐ covered with _____

e. Concrete floor: ☐ unsealed ☑ sealed ☐ sealed with _____

f. Foundation walls: ☑ poured ☐ block ☐ stone other _____

g. Foundation walls: ☐ unsealed ☐ sealed ☐ sealed with _____

h. The basement is: ☐ wet ☐ damp ☐ dry ☐ moldy

i. The basement is: ☐ finished ☐ unfinished ☐ partially finished

j. Sump present? Y ☐ N ☐

k. Water in sump? Y ☐ N ☐ not applicable ☐

Basement/Lowest level depth below grade: 0 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

SVI through slab

6. HEATING, VENTING and AIR CONDITIONING (Check all that apply)

Type of heating system(s) used in this building: (check all that apply – note primary)

☑ Hot air circulation
☑ Space Heaters
☐ Electric baseboard
☐ Heat pump
☐ Stream radiation
☐ Wood stove
☐ Hot water baseboard
☐ Radiant floor
☐ Outdoor wood boiler
Other _____

The primary type of fuel used is:

☐ Natural Gas
☐ Electric
☐ Wood
☐ Fuel Oil
☐ Propane
☐ Coal
☐ Kerosene
☐ Solar

Domestic hot water tank fueled by: N/A

Boiler/furnace located in: ☐ Basement ☐ Outdoors ☐ Main Floor ☑ Other Roof

Air conditioning: ☑ Central Air ☐ Window uni ☐ Open Windows ☐ None

Are there air distribution ducts present? Y ☑ N ☐

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Good.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time ☑ (9-5) Occasionally ☐ Seldom ☐ Almost Never ☐

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	-
1st Floor	Offices
2nd Floor	-
3rd Floor	-
4th Floor	-

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y ☐ N ☑

b. Does the garage have a separate heating unit? Y ☐ N ☐ NA ☑

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y ☐ N ☐ NA ☑

Please specify_____

d. Has the building ever had a fire? Y ☐ N ☑ When? _____

e. Is a kerosene or unvented gas space heater present? Y ☐ N ☑ Where? _____

f. Is there a workshop or hobby/craft area? Y ☐ N ☐ Where & Type Unknown

g. Is there smoking in the building? Y ☐ N ☑ How frequently? _____

h. Have cleaning products been used recently? Y ☐ N ☐ When & Type? Unknown

i. Have cosmetic products been used recently? Y ☑ N ☐ When & Type? Ladies room

j. Has painting/staining been done in the last 6 months? Y☐ N☐ Where & When? Unknown

k. Is there new carpet, drapes or other textiles? Y☐ N☑ Where & When? _____

l. Have air fresheners been used recently? Y☑ N☐ When & Type? Unknown

m. Is there a kitchen exhaust fan? Y☐ N☑ If yes, where vented?_____

n. Is there a bathroom exhaust fan? Y☑ N☐ If yes, where vented?_____

o. Is there a clothes dryer? Y☐ N☑ If yes, is it vented outside? Y☐N☐

p. Has there been a pesticide application? Y☐ N☐ When & Type? Unknown

Are there odors in the building? Y☐ N☑
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y☐ N☑
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y☐ N☐

Do any of the building occupants regularly use or work at a dry-cleaning service? (Check the appropriate response)

☐ Yes, use dry-cleaning regularly (weekly)
☐ Yes, use dry-cleaning infrequently (monthly or less)
☐ Yes, work at a dry-cleaning service
☐ No
☑ Unknown

Is there a radon mitigation system for the building/structure? Y☐ N☐
Date of Installation: _____
Is the system active or passive? Active☐ Passive☐ Unknown

9. WATER AND SEWAGE

Water Supply: ☑Public Water ☐Drilled Well ☐Driven Well ☐Dug Well ☐Other: _____

Sewage Disposal: ☑Public Sewer ☐Septic Tank ☐Leach Field ☐Dry Well ☐Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: ☐remain in home ☐relocate to friends/family ☐relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y☐ N☐

d. Relocation package provided and explained to residents? Y☐ N☐

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

First Floor:

See Figure

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

See Figure

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
	Mr Clean		U		-	Y
	Clorox wipes				-	Y

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

B776

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Junaid Dawud Date/Time Prepared 12/22/22

Preparer's Affiliation Bhate Phone No._____

Purpose of Investigation SVI Sampling

1. OCCUPANT:

Interviewed: Y ☐ **N** ☑

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y ☐ **N** ☑

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Check appropriate response)

☐ Residential	☐ School	☑ Commercial/Multi-use
☑ Industrial	☐ Church	☐ Other: _____

If the property is residential, type? (Check appropriate response)

☐ Ranch	☐ 2-Family	☐ 3-Family
☐ Raised Ranch	☐ Split Level	☐ Colonial
☐ Cape Cod	☐ Contemporary	☐ Mobile Home
☐ Duplex	☐ Apartment House	☐ Townhouses/Condos
☐ Modular	☐ Log Home	☐ Other:_____

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) Offices

Does it include residences (i.e., multi-use)? Y ☐ N ☑ If yes, how many? _____

Other characteristics:

Number of floors 1 Building age Unknown

Is the building insulated? Y ☑ N ☐ How air tight? Tight ☐ Average ☑ Not Tight ☐

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

_____

_____

_____

Airflow near source

_____

_____

_____

Outdoor air infiltration

_____

_____

_____

Infiltration into air ducts

_____

_____

_____

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Check all that apply)

a. Above grade construction: ☐ wood frame ☑ concrete ☐ stone ☐ brick

b. Basement type: ☐ full ☐ crawlspace ☐ slab ☐ other _____

c. Basement floor: ☐ concrete ☐ dirt ☐ stone ☐ other _____

d. Basement floor: ☐ uncovered ☐ covered ☐ covered with _____

e. Concrete floor: ☐ unsealed ☐ sealed ☐ sealed with _____

f. Foundation walls: ☑ poured ☐ block ☐ stone other _____

g. Foundation walls: ☐ unsealed ☑ sealed ☐ sealed with _____

h. The basement is: ☐ wet ☐ damp ☐ dry ☐ moldy

i. The basement is: ☐ finished ☐ unfinished ☐ partially finished

j. Sump present? Y ☐ N ☐

k. Water in sump? Y ☐ N ☐ not applicable ☐

Basement/Lowest level depth below grade: 0 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

SVI through slab

6. HEATING, VENTING and AIR CONDITIONING (Check all that apply)

Type of heating system(s) used in this building: (check all that apply – note primary)

☑ Hot air circulation
☑ Space Heaters
☐ Electric baseboard
☐ Heat pump
☐ Stream radiation
☐ Wood stove
☐ Hot water baseboard
☐ Radiant floor
☐ Outdoor wood boiler
Other _____

The primary type of fuel used is:

☐ Natural Gas
☐ Electric
☐ Wood
☐ Fuel Oil
☐ Propane
☐ Coal
☐ Kerosene
☐ Solar
Unknown

Domestic hot water tank fueled by: -

Boiler/furnace located in: ☐ Basement ☐ Outdoors ☐ Main Floor ☑ Other Roof

Air conditioning: ☐ Central Air ☐ Window uni ☐ Open Windows ☑ None Roof

Are there air distribution ducts present? Y ☑ N ☐

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Good.

7. OCCUPANCY

9-5

Is basement/lowest level occupied? Full-time ☑ Occasionally ☐ Seldom ☐ Almost Never ☐

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	-
1st Floor	Offices-mostly empty
2nd Floor	-
3rd Floor	-
4th Floor	-

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y ☐ N ☑

b. Does the garage have a separate heating unit? Y ☐ N ☐ NA ☑

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y ☐ N ☐ NA ☑

Please specify_____

d. Has the building ever had a fire? Y ☐ N ☐ When? Unknown

e. Is a kerosene or unvented gas space heater present? Y ☐ N ☑ Where? _____

f. Is there a workshop or hobby/craft area? Y ☐ N ☑ Where & Type_____

g. Is there smoking in the building? Y ☐ N ☑ How frequently? _____

h. Have cleaning products been used recently? Y ☐ N ☐ When & Type? Unknown

i. Have cosmetic products been used recently? Y ☐ N ☐ When & Type? Unknown

j. Has painting/staining been done in the last 6 months? Y☐ N☑ Where & When? _____

k. Is there new carpet, drapes or other textiles? Y☐ N☑ Where & When? _____

l. Have air fresheners been used recently? Y☐ N☐ When & Type? Unknown

m. Is there a kitchen exhaust fan? Y☐ N☑ If yes, where vented?_____

n. Is there a bathroom exhaust fan? Y☑ N☐ If yes, where vented?_____

o. Is there a clothes dryer? Y☐ N☑ If yes, is it vented outside? Y☐N☐

p. Has there been a pesticide application? Y☐ N☐ When & Type? Unknown

Are there odors in the building? Y☐ N☑
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y☐ N☑
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y☐ N☐

Do any of the building occupants regularly use or work at a dry-cleaning service? (Check the appropriate response)

☐ Yes, use dry-cleaning regularly (weekly)
☐ Yes, use dry-cleaning infrequently (monthly or less)
☐ Yes, work at a dry-cleaning service
☐ No
☑ Unknown

Is there a radon mitigation system for the building/structure? Y☐ N☐ Unknown
Date of Installation: _____
Is the system active or passive? Active☐ Passive☐

9. WATER AND SEWAGE

Water Supply: ☑Public Water ☐Drilled Well ☐Driven Well ☐Dug Well ☐Other: _____

Sewage Disposal: ☑Public Sewer ☐Septic Tank ☐Leach Field ☐Dry Well ☐Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: ☐remain in home ☐relocate to friends/family ☐relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y☐ N☐

d. Relocation package provided and explained to residents? Y☐ N☐

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

First Floor:

See Figure

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Janitor closet locked

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

B785

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Junaid Dawud Date/Time Prepared 12/22/22

Preparer's Affiliation Bhate Phone No._____

Purpose of Investigation SVI Sampling

1. OCCUPANT:

Interviewed: Y ☐ **N** ☑

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y ☐ **N** ☑

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Check appropriate response)

☐ Residential	☐ School	☑ Commercial/Multi-use
☑ Industrial	☐ Church	☐ Other: _____

If the property is residential, type? (Check appropriate response)

☐ Ranch	☐ 2-Family	☐ 3-Family
☐ Raised Ranch	☐ Split Level	☐ Colonial
☐ Cape Cod	☐ Contemporary	☐ Mobile Home
☐ Duplex	☐ Apartment House	☐ Townhouses/Condos
☐ Modular	☐ Log Home	☐ Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Hangar

Does it include residences (i.e., multi-use)? Y ☐ N ☑ If yes, how many? _____

Other characteristics:

Number of floors 1 Building age Unknown

Is the building insulated? Y ☐ N ☐ Both How air tight? Tight ☑ Average ☑ Offices Not Tight ☑ Hangar

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

_____

_____

_____

Airflow near source

_____

_____

_____

Outdoor air infiltration

_____

_____

_____

Infiltration into air ducts

_____

_____

_____

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Check all that apply)

a. Above grade construction: ☐ wood frame ☐ concrete ☐ stone ☐ brick

b. Basement type: ☐ full ☐ crawlspace ☐ slab ☐ other _____

c. Basement floor: ☐ concrete ☐ dirt ☐ stone ☐ other _____

d. Basement floor: ☐ uncovered ☐ covered ☐ covered with _____

e. Concrete floor: ☐ unsealed ☑ sealed ☐ sealed with _____

f. Foundation walls: ☐ poured ☑ block ☐ stone other _____

g. Foundation walls: ☐ unsealed ☑ sealed ☐ sealed with _____

h. The basement is: ☐ wet ☐ damp ☐ dry ☐ moldy

i. The basement is: ☐ finished ☐ unfinished ☐ partially finished

j. Sump present? Y ☐ N ☐

k. Water in sump? Y ☐ N ☐ not applicable ☐

Basement/Lowest level depth below grade: 0 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Sub-slab SVI

6. HEATING, VENTING and AIR CONDITIONING (Check all that apply)

Type of heating system(s) used in this building: (check all that apply – note primary)

☑ Hot air circulation ☐ Heat pump ☐ Hot water baseboard
☐ Space Heaters ☐ Stream radiation ☐ Radiant floor
☐ Electric baseboard ☐ Wood stove ☐ Outdoor wood boiler Other _____

The primary type of fuel used is:

☐ Natural Gas ☐ Fuel Oil ☐ Kerosene Unknown
☐ Electric ☐ Propane ☐ Solar
☐ Wood ☐ Coal

Domestic hot water tank fueled by: -

Boiler/furnace located in: ☐ Basement ☐ Outdoors ☐ Main Floor ☐ Other Y

Air conditioning: ☐ Central Air ☐ Window uni ☐ Open Windows ☐ None Other

Are there air distribution ducts present? Y ☑ N ☐

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

In offices.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time ☐ Occasionally ☐ Seldom ☐ Almost Never ☐

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	-
1st Floor	
2nd Floor	Hangar & Offices
3rd Floor	-
4th Floor	-

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y ☑ N ☐ Hangar

b. Does the garage have a separate heating unit? Y ☑ N ☐ NA ☐

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y ☑ N ☐ NA ☐
Please specify Aircraft

d. Has the building ever had a fire? Y ☐ N ☐ When? Unknown

e. Is a kerosene or unvented gas space heater present? Y ☐ N ☐ Where? Unknown

f. Is there a workshop or hobby/craft area? Y ☑ N ☐ Where & Type Hangar/Aircraft

g. Is there smoking in the building? Y ☐ N ☑ How frequently? _____

h. Have cleaning products been used recently? Y ☑ N ☐ When & Type? Reg

i. Have cosmetic products been used recently? Y ☐ N ☑ When & Type? _____

j. Has painting/staining been done in the last 6 months? Y ☑ N ☐ Where & When? Regularly

k. Is there new carpet, drapes or other textiles? Y ☐ N ☑ Where & When? _____

l. Have air fresheners been used recently? Y ☐ N ☐ When & Type? Unknown

m. Is there a kitchen exhaust fan? Y ☐ N ☐ If yes, where vented? Unknown

n. Is there a bathroom exhaust fan? Y ☐ N ☐ If yes, where vented? Unknown

o. Is there a clothes dryer? Y ☐ N ☑ If yes, is it vented outside? Y ☐ N ☐

p. Has there been a pesticide application? Y ☐ N ☐ When & Type? Unknown

Are there odors in the building? Y ☑ N ☐
If yes, please describe: Typical shop/maintenance odors.

Do any of the building occupants use solvents at work? Y ☑ N ☐
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? For paints, oils, aircraft/mechanical maintenance.

If yes, are their clothes washed at work? Y ☐ N ☑

Do any of the building occupants regularly use or work at a dry-cleaning service? (Check the appropriate response)

- ☐ Yes, use dry-cleaning regularly (weekly)
- ☐ Yes, use dry-cleaning infrequently (monthly or less)
- ☐ Yes, work at a dry-cleaning service
- ☐ No
- ☑ Unknown

Is there a radon mitigation system for the building/structure? Y ☐ N ☐ Unknown
Date of Installation: _____
Is the system active or passive? Active ☐ Passive ☐

9. WATER AND SEWAGE

Water Supply: ☑ Public Water ☐ Drilled Well ☐ Driven Well ☐ Dug Well ☐ Other: _____

Sewage Disposal: ☑ Public Sewer ☐ Septic Tank ☐ Leach Field ☐ Dry Well ☐ Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: ☐ remain in home ☐ relocate to friends/family ☐ relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y ☐ N ☐

d. Relocation package provided and explained to residents? Y ☐ N ☐

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

First Floor:

Figure

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: -_____

List specific products found in the residence that have the potential to affect indoor air quality.

See photos

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
						Y

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

B786

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Junaid Dawud Date/Time Prepared 12/12/22

Preparer's Affiliation Bhate Phone No._____

Purpose of Investigation SVI Sampling

1. OCCUPANT:

Interviewed: Y ☐ **N** ☑

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y ☐ **N** ☑

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Check appropriate response)

☐ Residential	☐ School	☑ Commercial/Multi-use
☑ Industrial	☐ Church	☐ Other: _____

If the property is residential, type? (Check appropriate response)

☐ Ranch	☐ 2-Family	☐ 3-Family
☐ Raised Ranch	☐ Split Level	☐ Colonial
☐ Cape Cod	☐ Contemporary	☐ Mobile Home
☐ Duplex	☐ Apartment House	☐ Townhouses/Condos
☐ Modular	☐ Log Home	☐ Other:_____

If multiple units, how many? -_____

If the property is commercial, type?

Business Type(s) Storage/Hangar

Does it include residences (i.e., multi-use)? Y ☐ N ☑ If yes, how many? _____

Other characteristics:

Number of floors 1 Building age Unknown

Is the building insulated? Y ☐ N ☐ How air tight? Tight ☐ Average ☐ Not Tight ☐

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

-

Airflow near source

-

Outdoor air infiltration

-

Infiltration into air ducts

-

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Check all that apply)

a. Above grade construction: ☐ wood frame ☐ concrete ☐ stone ☐ brick Steel

b. Basement type: ☐ full ☐ crawlspace ☐ slab ☐ other _____

c. Basement floor: ☐ concrete ☐ dirt ☐ stone ☐ other _____

d. Basement floor: ☐ uncovered ☐ covered ☐ covered with _____

e. Concrete floor: ☐ unsealed ☑ sealed ☐ sealed with _____

f. Foundation walls: ☐ poured ☑ block ☐ stone other _____

g. Foundation walls: ☐ unsealed ☑ sealed ☐ sealed with _____

h. The basement is: ☐ wet ☐ damp ☐ dry ☐ moldy

i. The basement is: ☐ finished ☐ unfinished ☐ partially finished

j. Sump present? Y ☐ N ☐

k. Water in sump? Y ☐ N ☐ not applicable ☐

Basement/Lowest level depth below grade: 0 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Sub-slab SVI

6. HEATING, VENTING and AIR CONDITIONING (Check all that apply)

Type of heating system(s) used in this building: (check all that apply – note primary)

☑ Hot air circulation ☐ Heat pump ☐ Hot water baseboard
☐ Space Heaters ☐ Stream radiation ☐ Radiant floor
☐ Electric baseboard ☐ Wood stove ☐ Outdoor wood boiler Other _____

The primary type of fuel used is:

☐ Natural Gas ☐ Fuel Oil ☐ Kerosene Unknown
☐ Electric ☐ Propane ☐ Solar
☐ Wood ☐ Coal

Domestic hot water tank fueled by: -

Boiler/furnace located in: ☐ Basement ☐ Outdoors ☐ Main Floor ☑ Other X

Air conditioning: ☐ Central Air ☐ Window uni ☐ Open Windows ☐ None

Are there air distribution ducts present? Y ☑ N ☐

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

_____

_____

_____

_____

7. OCCUPANCY

Is basement/lowest level occupied? Full-time ☐ Occasionally ☐ Seldom ☐ Almost Never ☐

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	-
1st Floor	Hangar & offices
2nd Floor	-
3rd Floor	-
4th Floor	-

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y ☑ N ☐ Hangar

b. Does the garage have a separate heating unit? Y ☑ N ☐ NA ☐

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y ☑ N ☐ NA ☐

Please specify Fire trucks & other vehicles

d. Has the building ever had a fire? Y ☐ N ☐ When? Unknown

e. Is a kerosene or unvented gas space heater present? Y ☐ N ☐ Where? Unknown

f. Is there a workshop or hobby/craft area? Y ☑ N ☐ Where & Type Hangar-paint & maint

g. Is there smoking in the building? Y ☐ N ☑ How frequently? _____

h. Have cleaning products been used recently? Y ☑ N ☐ When & Type? _____

i. Have cosmetic products been used recently? Y ☐ N ☑ When & Type? _____

j. Has painting/staining been done in the last 6 months? Y ☑ N ☐ Where & When? reg

k. Is there new carpet, drapes or other textiles? Y ☐ N ☑ Where & When? _____

l. Have air fresheners been used recently? Y ☐ N ☐ When & Type? Unknown

m. Is there a kitchen exhaust fan? Y ☐ N ☑ If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y ☐ N ☑ If yes, where vented? _____

o. Is there a clothes dryer? Y ☑ N ☐ If yes, is it vented outside? Y ☐ N ☑

p. Has there been a pesticide application? Y ☐ N ☐ When & Type? Unknown

Are there odors in the building? Y ☑ N ☐
If yes, please describe: Shop smell - not bad

Do any of the building occupants use solvents at work? Y ☑ N ☐
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Clean/mount/etc

If yes, are their clothes washed at work? Y ☑ N ☐

Do any of the building occupants regularly use or work at a dry-cleaning service? (Check the appropriate response)

☐ Yes, use dry-cleaning regularly (weekly)
☐ Yes, use dry-cleaning infrequently (monthly or less)
☐ Yes, work at a dry-cleaning service
☐ No
☑ Unknown

Is there a radon mitigation system for the building/structure? Y ☐ N ☐
Date of Installation: _____
Is the system active or passive? Active ☐ Passive ☐ Unknown

9. WATER AND SEWAGE

Water Supply: ☑ Public Water ☐ Drilled Well ☐ Driven Well ☐ Dug Well ☐ Other: _____

Sewage Disposal: ☑ Public Sewer ☐ Septic Tank ☐ Leach Field ☐ Dry Well ☐ Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: -

b. Residents choose to: ☐ remain in home ☐ relocate to friends/family ☐ relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y ☐ N ☐

d. Relocation package provided and explained to residents? Y ☐ N ☐

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

First Floor:

Figure

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



Figure

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: -_____

List specific products found in the residence that have the potential to affect indoor air quality.

See pics

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
						Y

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

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APPENDIX B
LABORATORY DATA PACKAGES

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ANALYTICAL REPORT

February 27, 2023

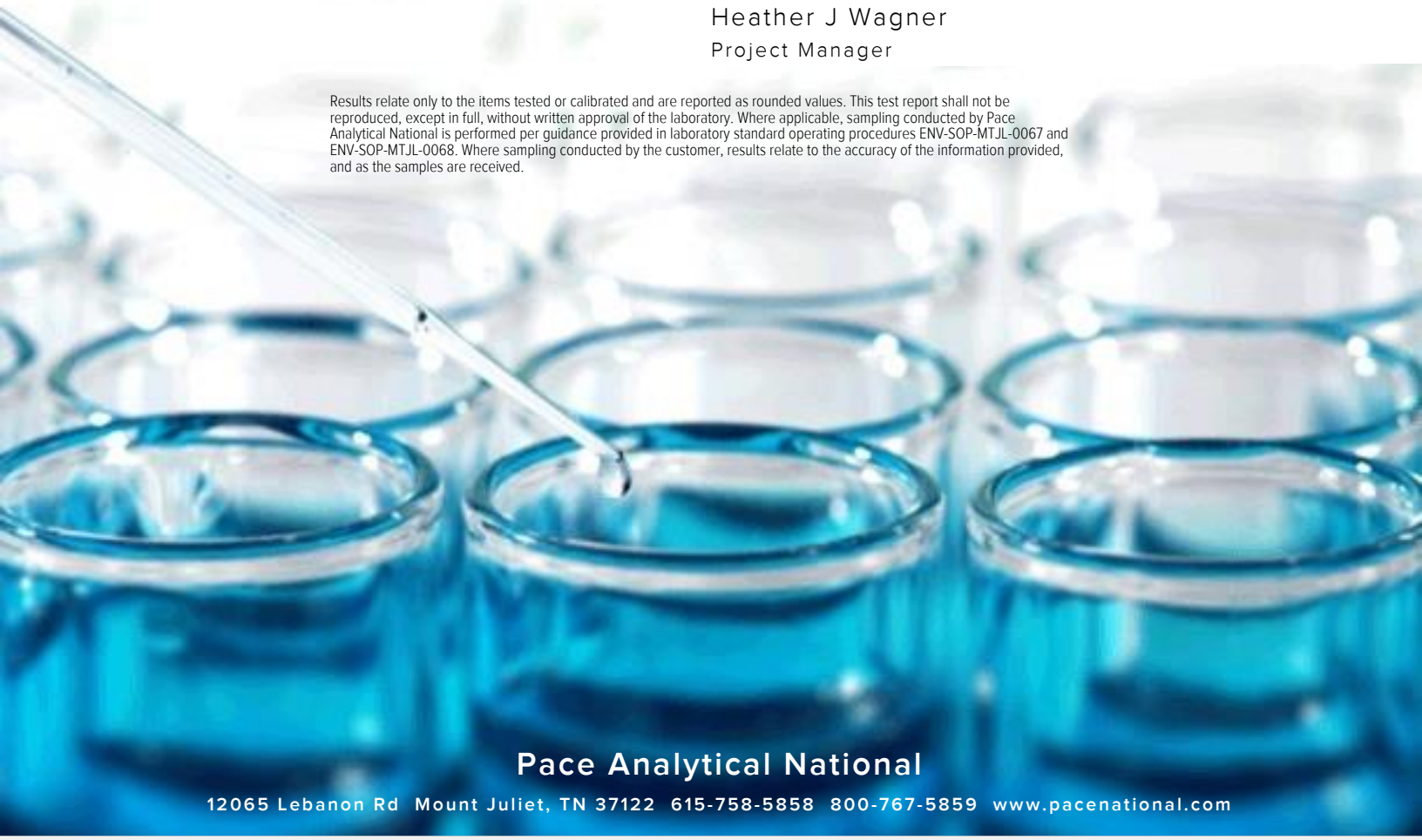
BHATE Environmental - Birmingham

Sample Delivery Group:	L1570570
Samples Received:	12/24/2022
Project Number:	MSC2021.0012
Description:	Griffiss AFB
Site:	BUILDING 774/776 SITE
Report To:	David Badio 1608 13th Ave. S Suite 300 Birmingham, AL 35205

Entire Report Reviewed By:

Heather J Wagner
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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Raw Data - 1229_07 59

L1570570-04 12/29/22 15:52 AIRMS4 78

Raw Data - 1229_08 80

L1570570-05 12/29/22 16:35 AIRMS4 96

Raw Data - 1229_09 98

L1570570-06 12/29/22 17:19 AIRMS4 116

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774776-INF_1222 L1570570-01 Air

Collected by	Collected date/time	Received date/time
	12/21/22 10:30	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 13:39	12/29/22 13:39	DAH	Mt. Juliet, TN

774-VMP-1_1222 L1570570-02 Air

Collected by	Collected date/time	Received date/time
	12/21/22 08:15	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 14:24	12/29/22 14:24	DAH	Mt. Juliet, TN

774-VMP-2_1222 L1570570-03 Air

Collected by	Collected date/time	Received date/time
	12/21/22 08:22	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 15:08	12/29/22 15:08	DAH	Mt. Juliet, TN

774-VMP-3_1222 L1570570-04 Air

Collected by	Collected date/time	Received date/time
	12/21/22 08:30	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 15:52	12/29/22 15:52	DAH	Mt. Juliet, TN

776-VMP-1_1222 L1570570-05 Air

Collected by	Collected date/time	Received date/time
	12/22/22 09:00	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 16:35	12/29/22 16:35	DAH	Mt. Juliet, TN

776-VMP-2_1222 L1570570-06 Air

Collected by	Collected date/time	Received date/time
	12/22/22 08:45	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 17:19	12/29/22 17:19	DAH	Mt. Juliet, TN

776-VMP-2_1222-A L1570570-07 Air

Collected by	Collected date/time	Received date/time
	12/22/22 08:45	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 18:02	12/29/22 18:02	DAH	Mt. Juliet, TN

776-VMP-3_1222 L1570570-08 Air

Collected by	Collected date/time	Received date/time
	12/22/22 08:50	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 18:45	12/29/22 18:45	DAH	Mt. Juliet, TN

SAMPLE SUMMARY

776-OA-1_1222 L1570570-09 Air

			Collected by	Collected date/time	Received date/time	
				12/22/22 08:35	12/24/22 11:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 19:31	12/29/22 19:31	DAH	Mt. Juliet, TN

774-IA-1_1222 L1570570-10 Air

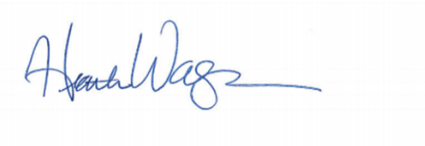
			Collected by	Collected date/time	Received date/time	
				12/02/22 08:20	12/24/22 11:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15-SIM	WG1980882	1	12/29/22 17:57	12/29/22 17:57	MBF	Mt. Juliet, TN

776-IA-1_1222 L1570570-11 Air

			Collected by	Collected date/time	Received date/time	
				12/22/22 09:00	12/24/22 11:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15-SIM	WG1980882	1	12/29/22 18:36	12/29/22 18:36	MBF	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Heather J Wagner
Project Manager

Report Revision History

Level II Report - Version 1: 02/06/23 09:21

TO-15 Volatile Organic Compounds (MS)

2A-OR

SURROGATE RECOVERY

Analytical Method: TO-15 **SDG:** L1570570

Matrix: Air

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1	TOT Out
				% Rec.	
774776-INF_1222	L1570570-01	AIRMS4	1229_05	86.3	0
774-VMP-1_1222	L1570570-02	AIRMS4	1229_06	87.8	0
774-VMP-2_1222	L1570570-03	AIRMS4	1229_07	86.5	0
774-VMP-3_1222	L1570570-04	AIRMS4	1229_08	85.9	0
776-VMP-1_1222	L1570570-05	AIRMS4	1229_09	85.6	0
776-VMP-2_1222	L1570570-06	AIRMS4	1229_10	85.7	0
776-VMP-2_1222-A	L1570570-07	AIRMS4	1229_11	83.8	0
776-VMP-3_1222	L1570570-08	AIRMS4	1229_12	84.8	0
776-OA-1_1222	L1570570-09	AIRMS4	1229_13	86.2	0
BLANK	R3876561-3	AIRMS4	1229_04	86.5	0
LCS	R3876561-1	AIRMS4	1229_02	89.7	0
LCSD	R3876561-2	AIRMS4	1229_03	88.4	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	1,4-Bromofluorobenzene	60.0 - 140

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1570570-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R3876561-1
R3876561-2

LCS Sample / File ID:	R3876561-1 / 1229_02	**SDG:**	L1570570
LCSD Sample / File ID:	R3876561-2 / 1229_03	**Analytical Batch:**	WG1980894
Instrument ID:	AIRMS4	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ppbv	*ppbv*	*ppbv*	*%*	*%*	*%*	*%*	*%*
Acetone	3.75	3.11	3.06	82.9	81.6	58.0 - 128	1.62	20
Benzene	3.75	3.82	3.69	102	98.4	69.0 - 119	3.46	20
Benzyl Chloride	3.75	3.85	3.80	103	101	50.0 - 147	1.31	20
Bromodichloromethane	3.75	3.78	3.74	101	99.7	72.0 - 128	1.06	20
Bromoform	3.75	4.23	4.18	113	111	66.0 - 139	1.19	20
Bromomethane	3.75	3.73	3.81	99.5	102	63.0 - 134	2.12	20
1,3-Butadiene	3.75	3.13	3.08	83.5	82.1	66.0 - 134	1.61	20
Carbon disulfide	3.75	3.41	3.33	90.9	88.8	57.0 - 134	2.37	20
Carbon tetrachloride	3.75	3.68	3.61	98.1	96.3	68.0 - 132	1.92	20
Chlorobenzene	3.75	4.08	3.89	109	104	70.0 - 119	4.77	20
Chloroethane	3.75	3.29	3.22	87.7	85.9	63.0 - 127	2.15	20
Chloroform	3.75	3.57	3.45	95.2	92.0	68.0 - 123	3.42	20
Chloromethane	3.75	3.39	3.22	90.4	85.9	59.0 - 132	5.14	20
Dibromochloromethane	3.75	4.16	3.98	111	106	70.0 - 130	4.42	20
1,2-Dibromoethane	3.75	3.97	3.88	106	103	74.0 - 122	2.29	20
1,2-Dichlorobenzene	3.75	4.38	4.25	117	113	63.0 - 129	3.01	20
1,3-Dichlorobenzene	3.75	4.41	4.29	118	114	65.0 - 130	2.76	20
1,4-Dichlorobenzene	3.75	4.52	4.45	121	119	60.0 - 131	1.56	20
1,2-Dichloroethane	3.75	3.74	3.58	99.7	95.5	65.0 - 128	4.37	20
1,1-Dichloroethane	3.75	3.46	3.41	92.3	90.9	68.0 - 126	1.46	20
1,1-Dichloroethene	3.75	3.49	3.37	93.1	89.9	61.0 - 133	3.50	20
cis-1,2-Dichloroethene	3.75	3.39	3.39	90.4	90.4	70.0 - 121	0.000	20
trans-1,2-Dichloroethene	3.75	3.39	3.32	90.4	88.5	67.0 - 124	2.09	20
1,2-Dichloropropane	3.75	3.66	3.53	97.6	94.1	69.0 - 123	3.62	20
cis-1,3-Dichloropropene	3.75	3.69	3.57	98.4	95.2	70.0 - 128	3.31	20
trans-1,3-Dichloropropene	3.75	3.75	3.53	100	94.1	75.0 - 133	6.04	20
Ethylbenzene	3.75	3.87	3.84	103	102	70.0 - 124	0.778	20
4-Ethyltoluene	3.75	3.93	3.74	105	99.7	67.0 - 129	4.95	20
Trichlorofluoromethane	3.75	4.05	4.01	108	107	62.0 - 126	0.993	20
Dichlorodifluoromethane	3.75	3.64	3.56	97.1	94.9	59.0 - 128	2.22	20
1,1,2-Trichlorotrifluoroethane	3.75	3.75	3.76	100	100	66.0 - 126	0.266	20
Hexachloro-1,3-butadiene	3.75	4.48	4.36	119	116	56.0 - 138	2.71	20
Methylene Chloride	3.75	3.35	3.24	89.3	86.4	62.0 - 115	3.34	20
Methyl Butyl Ketone	3.75	4.13	3.90	110	104	62.0 - 128	5.73	20
2-Butanone (MEK)	3.75	3.56	3.42	94.9	91.2	67.0 - 130	4.01	20
4-Methyl-2-pentanone (MIBK)	3.75	3.92	3.78	105	101	67.0 - 130	3.64	20
MTBE	3.75	3.50	3.40	93.3	90.7	66.0 - 126	2.90	20
Naphthalene	3.75	3.83	3.71	102	98.9	57.0 - 138	3.18	20
Styrene	3.75	3.98	3.85	106	103	73.0 - 127	3.32	20
1,1,2,2-Tetrachloroethane	3.75	3.80	3.75	101	100	65.0 - 127	1.32	20
Tetrachloroethylene	3.75	4.30	4.13	115	110	66.0 - 124	4.03	20
Toluene	3.75	3.82	3.62	102	96.5	66.0 - 119	5.38	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1570570-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R3876561-1
R3876561-2

LCS Sample / File ID:	R3876561-1 / 1229_02	**SDG:**	L1570570
LCSD Sample / File ID:	R3876561-2 / 1229_03	**Analytical Batch:**	WG1980894
Instrument ID:	AIRMS4	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ppbv	*ppbv*	*ppbv*	*%*	*%*	*%*	*%*	*%*
1,2,4-Trichlorobenzene	3.75	4.49	4.25	120	113	55.0 - 142	5.49	20
1,1,1-Trichloroethane	3.75	3.55	3.55	94.7	94.7	68.0 - 125	0.000	20
1,1,2-Trichloroethane	3.75	3.89	3.75	104	100	73.0 - 119	3.66	20
Trichloroethylene	3.75	3.83	3.72	102	99.2	71.0 - 123	2.91	20
1,2,4-Trimethylbenzene	3.75	3.80	3.76	101	100	66.0 - 132	1.06	20
1,3,5-Trimethylbenzene	3.75	3.92	3.78	105	101	67.0 - 130	3.64	20
Vinyl chloride	3.75	3.49	3.46	93.1	92.3	64.0 - 127	0.863	20
Vinyl acetate	3.75	3.02	3.15	80.5	84.0	56.0 - 139	4.21	20
m&p-Xylene	7.50	7.82	7.51	104	100	61.0 - 134	4.04	20
o-Xylene	3.75	3.71	3.60	98.9	96.0	67.0 - 125	3.01	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Lab Sample ID:	R3876561-3	**SDG:**	L1570570
Lab File ID:	1229_04	**Preparation Date/Time:**	12/29/22 12:46
Instrument ID:	AIRMS4	**Analysis Date/Time:**	12/29/22 12:46
Analytical Batch:	WG1980894	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3876561-1	AIRMS4	1229_02	12/29/22 11:19
LCSD	R3876561-2	AIRMS4	1229_03	12/29/22 12:04
774776-INF_1222	L1570570-01	AIRMS4	1229_05	12/29/22 13:39
774-VMP-1_1222	L1570570-02	AIRMS4	1229_06	12/29/22 14:24
774-VMP-2_1222	L1570570-03	AIRMS4	1229_07	12/29/22 15:08
774-VMP-3_1222	L1570570-04	AIRMS4	1229_08	12/29/22 15:52
776-VMP-1_1222	L1570570-05	AIRMS4	1229_09	12/29/22 16:35
776-VMP-2_1222	L1570570-06	AIRMS4	1229_10	12/29/22 17:19
776-VMP-2_1222-A	L1570570-07	AIRMS4	1229_11	12/29/22 18:02
776-VMP-3_1222	L1570570-08	AIRMS4	1229_12	12/29/22 18:45
776-OA-1_1222	L1570570-09	AIRMS4	1229_13	12/29/22 19:31

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	1130_02	**SDG:**	L1570570
Instrument ID:	AIRMS4	**Analytical Method:**	TO-15
Analysis Date/Time:	11/30/22 15:19		

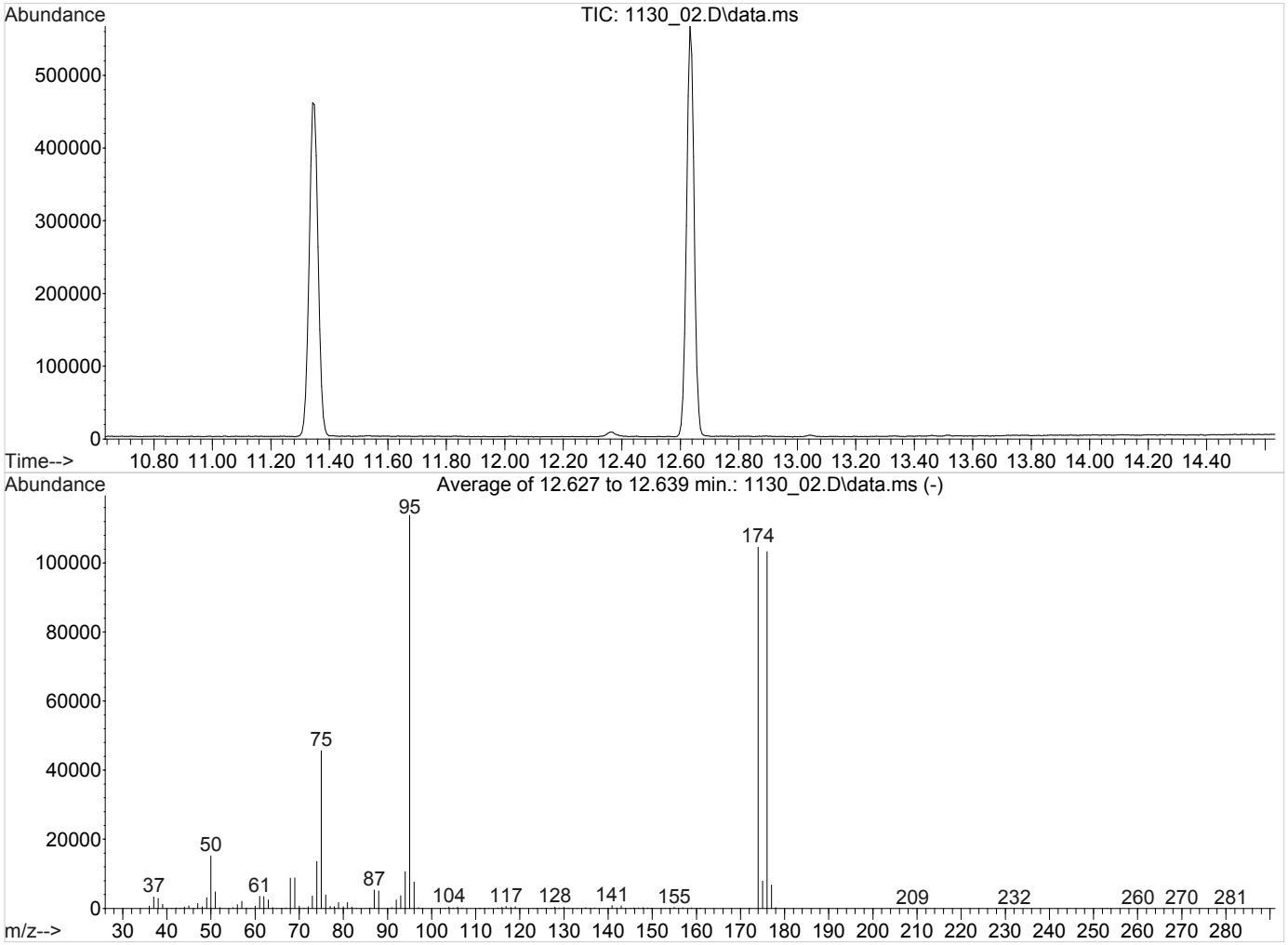
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	13
75	95	30	66	40
95	95	100	100	100
96	95	5	9	7
173	174	0	2	0
174	95	50	120	92
175	174	4	9	8
176	174	93	101	99
177	176	5	9	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-0.19	0.19	1130_07	11/30/22 18:49
STD-0.31	0.31	1130_08	11/30/22 19:29
STD-0.63	0.63	1130_09	11/30/22 20:09
STD-1.25	1.25	1130_10	11/30/22 20:50
STD-2.5	2.5	1130_11	11/30/22 21:31
STD-3.75	3.75	1130_12	11/30/22 22:14
STD-10	10	1130_13	11/30/22 22:55
STD-25	25	1130_14	11/30/22 23:36
STD-50	50	1130_15	12/01/22 00:21
STD-100	100	1130_16	12/01/22 01:11
SSCV	AIRMS41130221130_18606182	1130_18	12/01/22 02:34

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_02.D
Acq On : 30 Nov 2022 3:19 pm
Operator :
Sample : INSTBLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Title : AIRMS4
Last Update : Thu Dec 01 08:21:50 2022



Spectrum Information: Average of 12.627 to 12.639 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.3	15176	PASS
75	95	30	66	40.1	45595	PASS
95	95	100	100	100.0	113819	PASS
96	95	5	9	6.7	7611	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.9	104565	PASS
175	174	4	9	7.5	7879	PASS
176	174	93	101	98.8	103277	PASS
177	176	5	9	6.5	6755	PASS

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	1229_01T	**SDG:**	L1570570
Instrument ID:	AIRMS4	**Analytical Method:**	TO-15
Analysis Date/Time:	12/29/22 10:36		

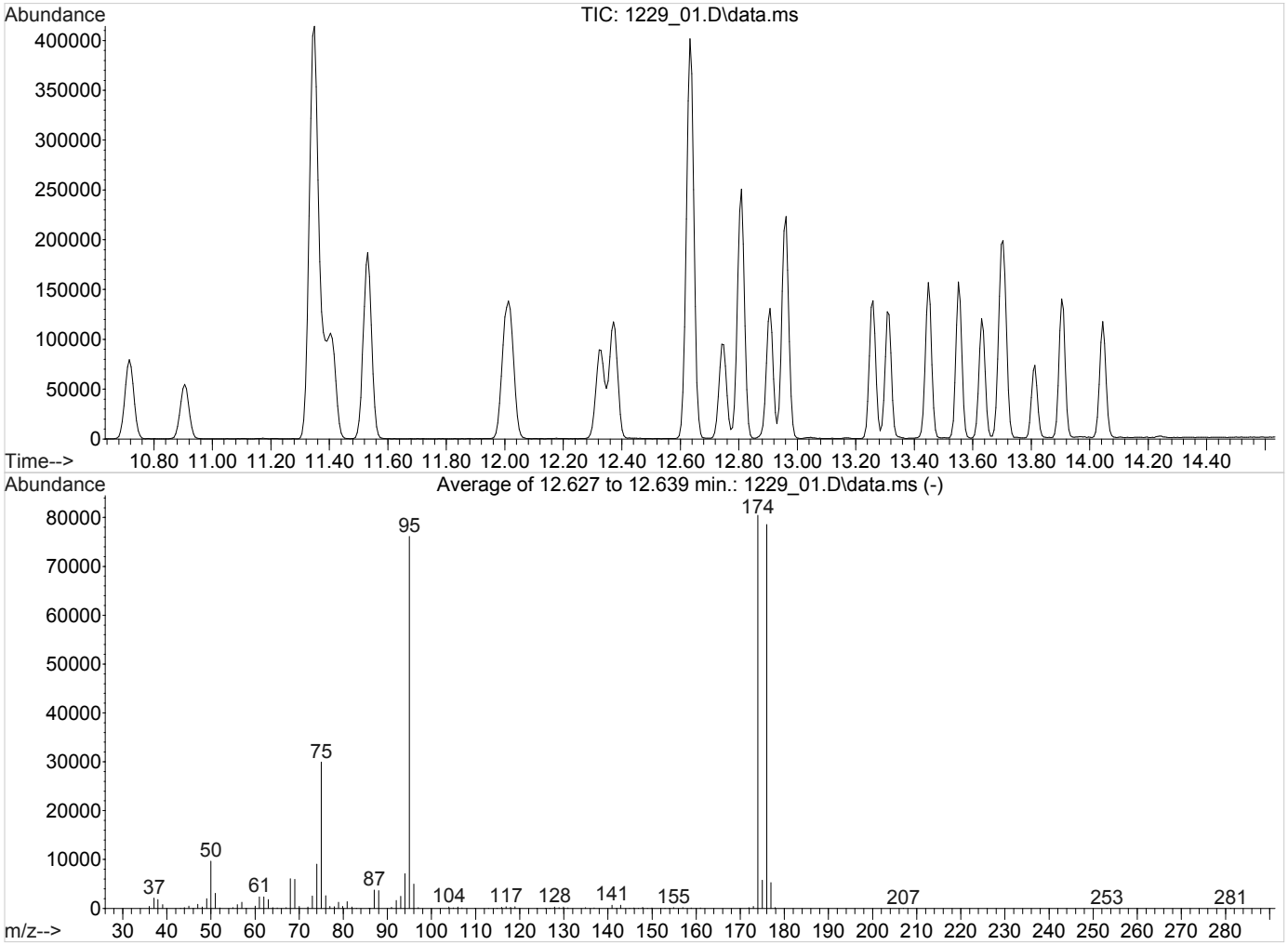
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	13
75	95	30	66	39
95	95	100	100	100
96	95	5	9	6
173	174	0	2	0
174	95	50	120	106
175	174	4	9	7
176	174	93	101	98
177	176	5	9	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	AIRMS41229221229_01606182	1229_01	12/29/22 10:36
LCS	R3876561-1	1229_02	12/29/22 11:19
LCSD	R3876561-2	1229_03	12/29/22 12:04
BLANK	R3876561-3	1229_04	12/29/22 12:46
774776-INF_1222	L1570570-01	1229_05	12/29/22 13:39
774-VMP-1_1222	L1570570-02	1229_06	12/29/22 14:24
774-VMP-2_1222	L1570570-03	1229_07	12/29/22 15:08
774-VMP-3_1222	L1570570-04	1229_08	12/29/22 15:52
776-VMP-1_1222	L1570570-05	1229_09	12/29/22 16:35
776-VMP-2_1222	L1570570-06	1229_10	12/29/22 17:19
776-VMP-2_1222-A	L1570570-07	1229_11	12/29/22 18:02
776-VMP-3_1222	L1570570-08	1229_12	12/29/22 18:45
776-OA-1_1222	L1570570-09	1229_13	12/29/22 19:31
CCV	AIRMS41229221229_24606182	1229_24	12/30/22 03:22

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Title : AIRMS4
Last Update : Thu Dec 01 08:21:50 2022



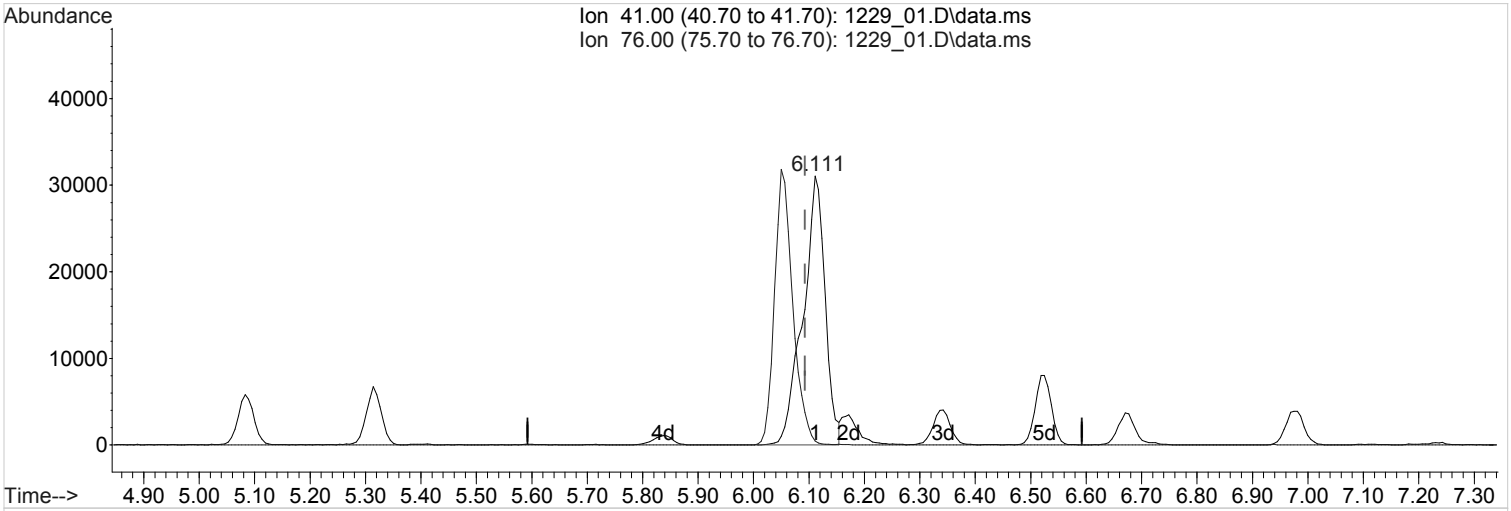
Spectrum Information: Average of 12.627 to 12.639 min.

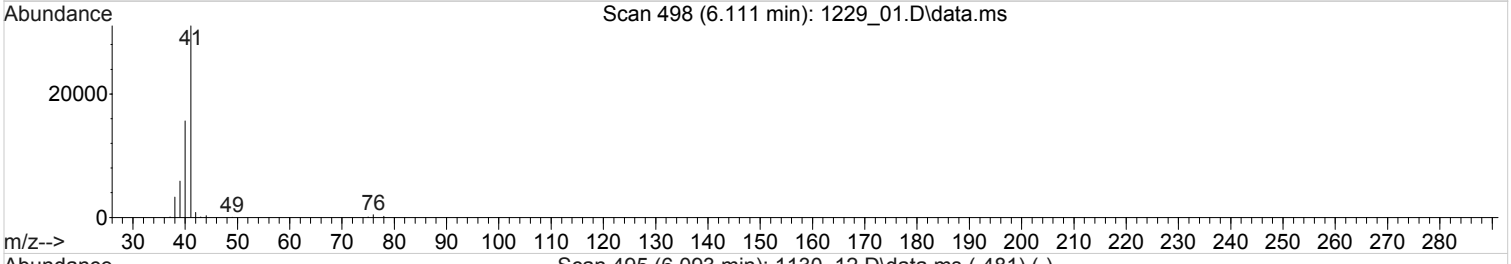
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.7	9661	PASS
75	95	30	66	39.3	29920	PASS
95	95	100	100	100.0	76144	PASS
96	95	5	9	6.5	4983	PASS
173	174	0.00	2	0.5	399	PASS
174	95	50	120	105.7	80480	PASS
175	174	4	9	7.2	5767	PASS
176	174	93	101	97.6	78539	PASS
177	176	5	9	6.7	5283	PASS

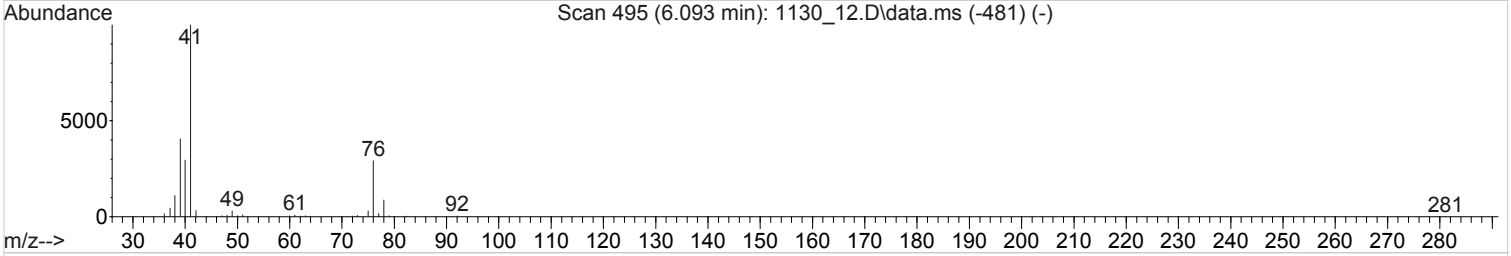
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 11:12:51 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_01.D\data.ms

(25) Allyl Chloride (T,M)

6.111min (+0.018) 13.4781782 ppbv

Qvalue = 1

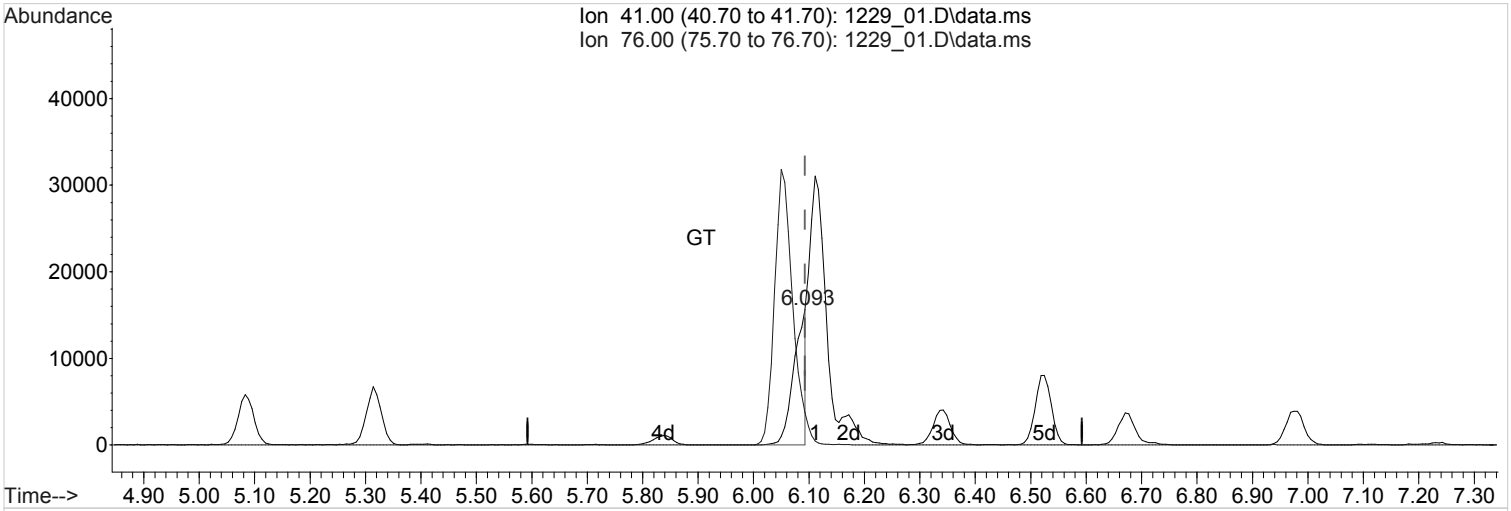
response 85767

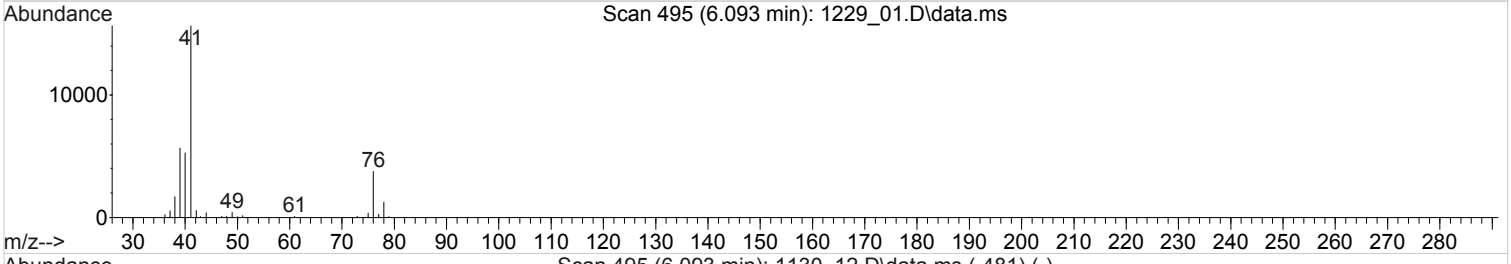
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	84.64#
0.00	0.00	0.00
0.00	0.00	0.00

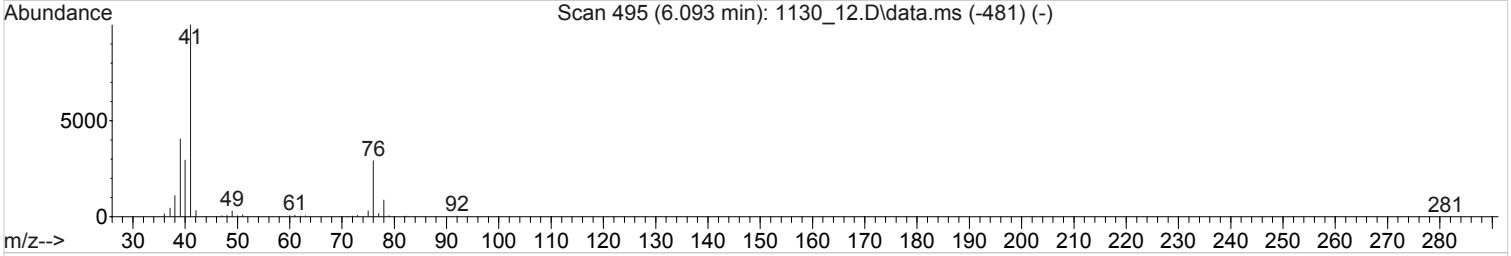
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 11:12:51 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_01.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 3.8360014 ppbv m

response 24410

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	297.37
0.00	0.00	0.00
0.00	0.00	0.00

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1570570	**Analytical Method:**	TO-15
Instrument ID:	AIRMS4	**Calibration Start Date:**	11/30/22 18:49
Std File:	1229_01	**Calibration End Date:**	12/01/22 01:11
		Std Analysis Date:	12/29/22 10:36

Sample ID	File ID	DFB		BCM		CB	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		284231	8.31	79247	7.50	243117	11.34
UPPER LIMIT		522577		136608		466065	
LOWER LIMIT		223962		58546		199742	
LCS R3876561-1 WG1980894 1x	1229_02	272809	8.31	77535	7.50	242736	11.34
LCSD R3876561-2 WG1980894 1x	1229_03	284263	8.31	78775	7.50	249283	11.34
BLANK R3876561-3 WG1980894 1x	1229_04	287423	8.31	80248	7.50	249011	11.34
L1570570-01 WG1980894 1x	1229_05	278268	8.31	77903	7.50	236189	11.34
L1570570-02 WG1980894 1x	1229_06	275569	8.31	77224	7.50	237390	11.34
L1570570-03 WG1980894 1x	1229_07	278287	8.31	77795	7.50	239400	11.34
L1570570-04 WG1980894 1x	1229_08	266225	8.31	73117	7.50	236406	11.34
L1570570-05 WG1980894 1x	1229_09	277657	8.31	77392	7.50	236624	11.34
L1570570-06 WG1980894 1x	1229_10	267959	8.31	75272	7.50	232664	11.34
L1570570-07 WG1980894 1x	1229_11	279182	8.31	79698	7.50	240242	11.34
L1570570-08 WG1980894 1x	1229_12	278860	8.31	78969	7.50	245657	11.34
L1570570-09 WG1980894 1x	1229_13	272641	8.31	76121	7.50	236552	11.34

DFB - 1,4-DIFLUOROBENZENE BCM - BROMOCHLOROMETHANE
CB - CHLOROBENZENE-D5

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
774776-INF_1222

Lab Sample ID:	L1570570-01	**SDG:**	L1570570
Client Sample ID:	774776-INF_1222	**Collected Date/Time:**	12/21/22 10:30
Lab File ID:	1229_05	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 13:39
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 13:39
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.82	5.63	J	1.39	2.85	5.70
Benzene	71-43-2	8.03	1.77		0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	7.83	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	1.20		0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	0	0.867	U	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	0	0.982	U	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.26	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	2.05	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	1.53	U	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	6.21	0.399	J	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	0	0.560	U	0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	0	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	0	0.942	U	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570570-01	**SDG:**	L1570570
Client Sample ID:	774776-INF_1222	**Collected Date/Time:**	12/21/22 10:30
Lab File ID:	1229_05	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 13:39
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 13:39
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	0	0.804	U	0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	0	0.982	U	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	1.30	U	0.585	1.30	2.60
o-Xylene	95-47-6	0	0.759	U	0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_05.D
Acq On : 29 Dec 2022 1:39 pm
Operator :
Sample : L1570570-01 1x WG1980894
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 15:14:42 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

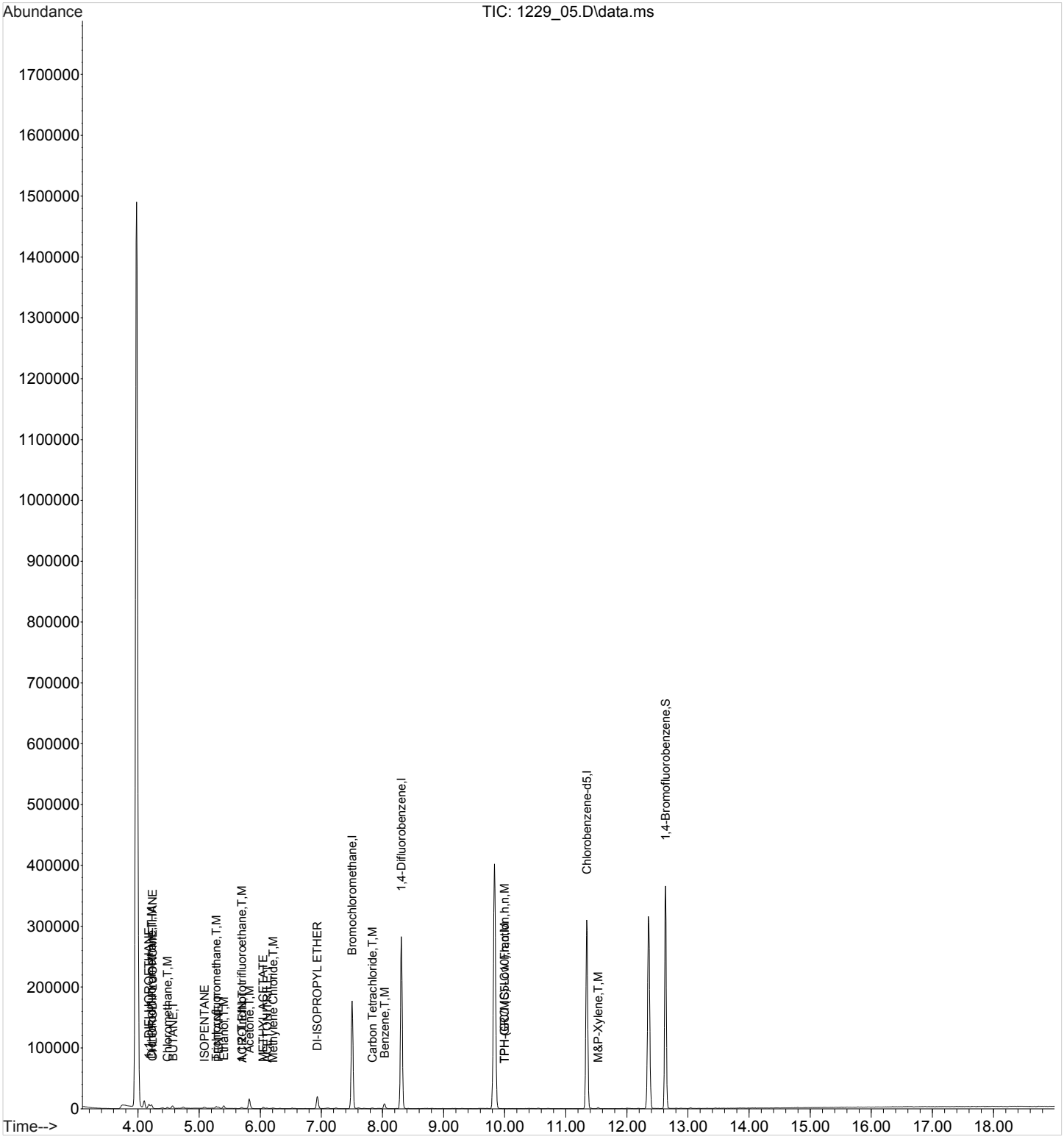
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	77903	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.307	114	278268	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	236189	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	139131	3.4523885	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 86.31%				
Target Compounds							Qvalue
3) BUTANE	4.572	43	2956	0.4135134	ppbv		98
4) 1,1-DIFLUOROETHANE	4.176	51	2786	0.4535434	ppbv		98
5) Dichlorodifluoromethane	4.219	85	5468	0.4136919	ppbv		98
6) CHLORODIFLUOROMETHANE	4.237	51	1659	0.2226838	ppbv		95
8) Chloromethane	4.481	50	2756	0.5800249	ppbv		98
13) ISOPENTANE	5.089	43	945	0.1913878	ppbv	#	89
15) Trichlorofluoromethane	5.278	101	2475	0.2236873	ppbv		99
16) PENTANE	5.314	43	1584	0.1559619	ppbv	#	95
17) Ethanol	5.405	45	5382	2.1520881	ppbv		99
18) ACROLEIN	5.703	56	221	0.0951979	ppbv	#	68
19) 1,1,2-Trichlorotrifluo...	5.697	101	879	0.0734302	ppbv	#	94
21) Acetone	5.819	43	20254	2.3692767	ppbv	#	89
26) METHYL ACETATE	6.044	43	1591	0.1675167	ppbv	#	94
27) ACETONITRILE	6.111	41	451	0.0853728	ppbv	#	83
28) Methylene Chloride	6.208	49	675	0.1145403	ppbv		97
36) DI-ISOPROPYL ETHER	6.932	45	3683	0.2289377	ppbv	#	61
45) Carbon Tetrachloride	7.833	117	856	0.0693152	ppbv		95
48) Benzene	8.033	78	8676	0.5526901	ppbv		97
73) M&P-Xylene	11.525	91	1389	0.0783742	ppbv		94
101) TPH (GC/MS) Low Fraction	10.000	TIC	1946481m	55.4507410	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	2032895m	68.6218040	ppbv		

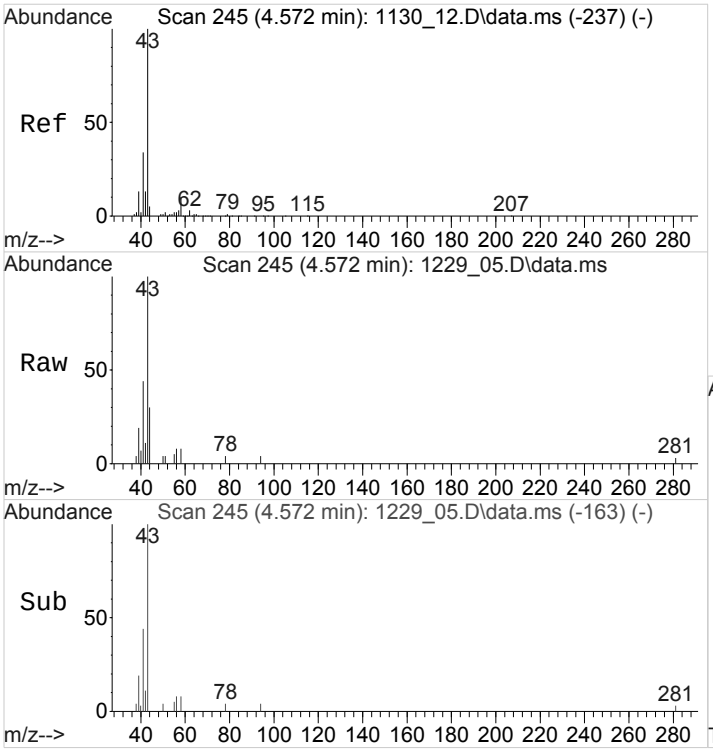
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_05.D
Acq On : 29 Dec 2022 1:39 pm
Operator :
Sample : L1570570-01 1x WG1980894
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 15:14:42 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

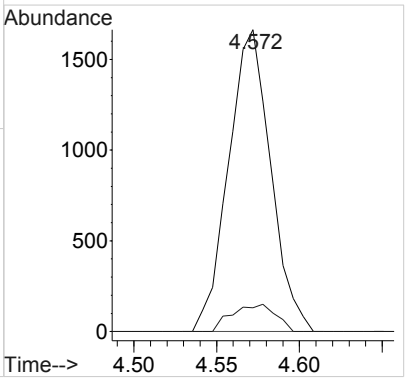


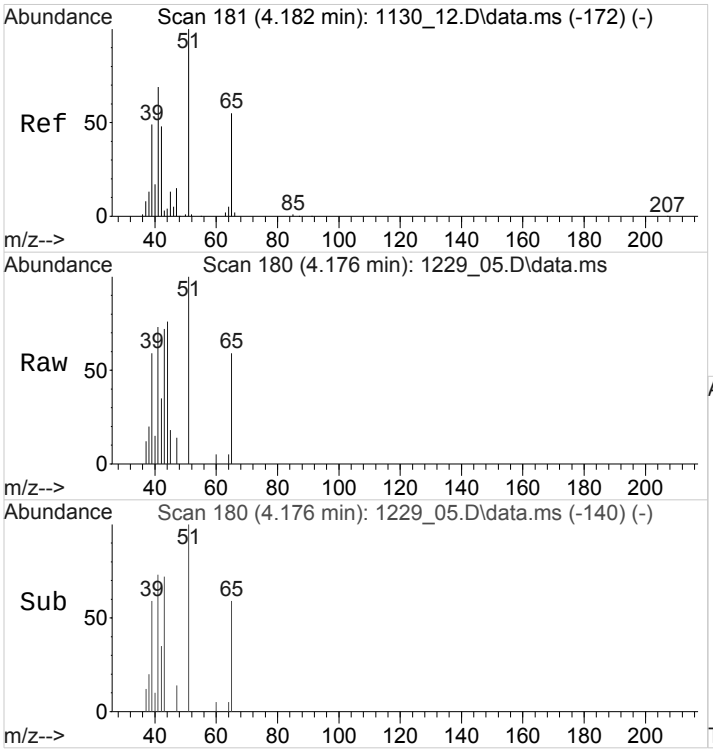


#3
BUTANE
Concen: 0.4135134 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 43 Resp: 2956

Ion	Ratio	Lower	Upper
43	100		
58	9.4	8.0	12.0

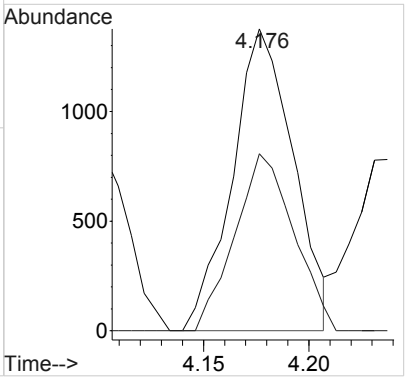




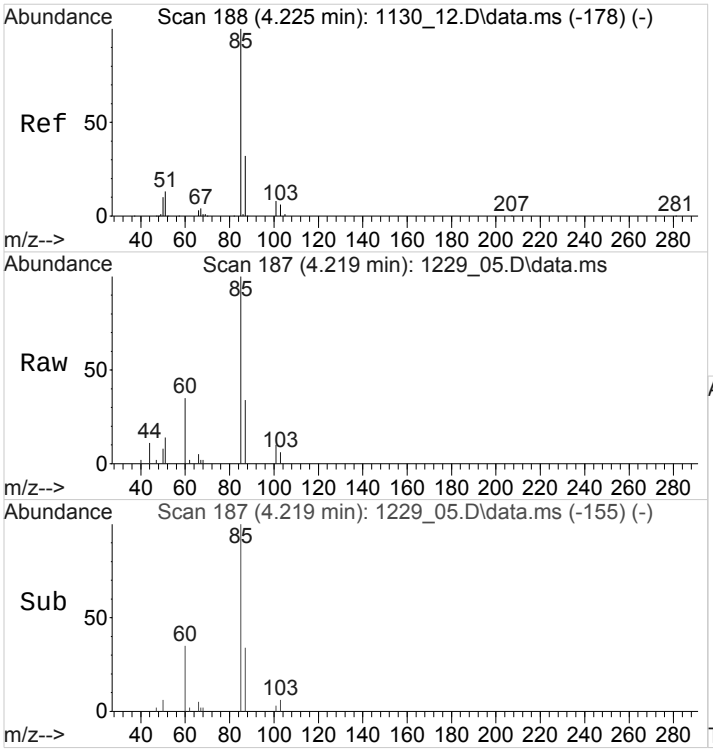
#4
1,1-DIFLUOROETHANE
Concen: 0.4535434 ppbv
RT: 4.176 min Scan# 180
Delta R.T. -0.006 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 51 Resp: 2786

Ion	Ratio	Lower	Upper
51	100		
65	56.4	44.1	66.1



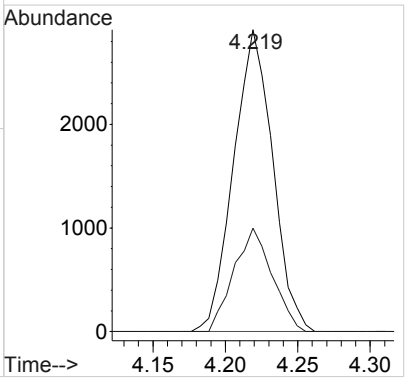
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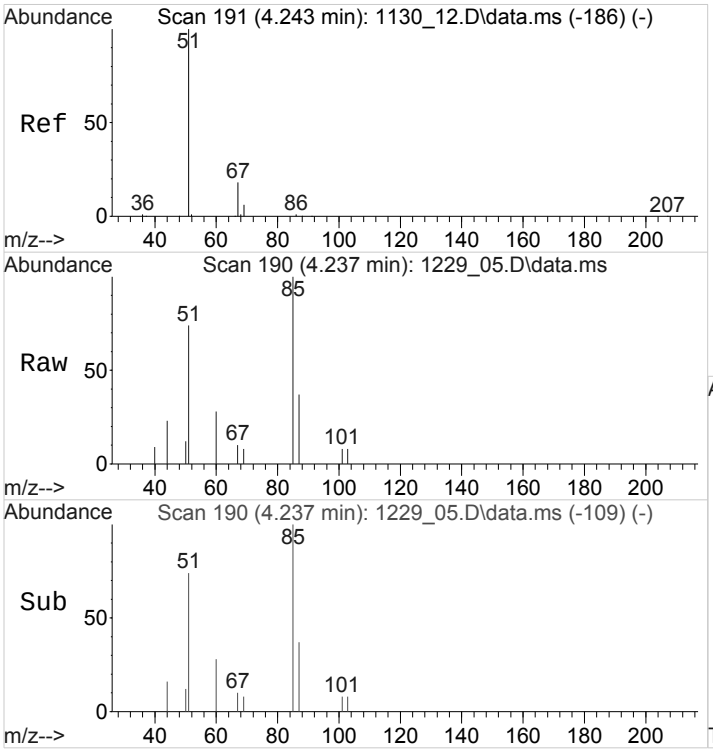


#5
Dichlorodifluoromethane
Concen: 0.4136919 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 85 Resp: 5468

Ion	Ratio	Lower	Upper
85	100		
87	33.5	25.8	38.6

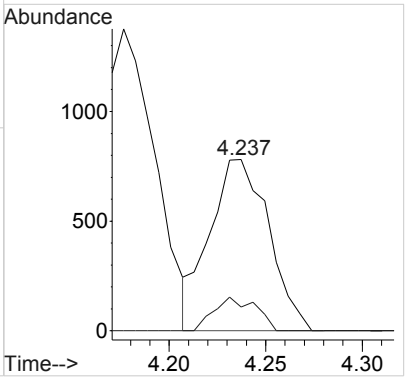




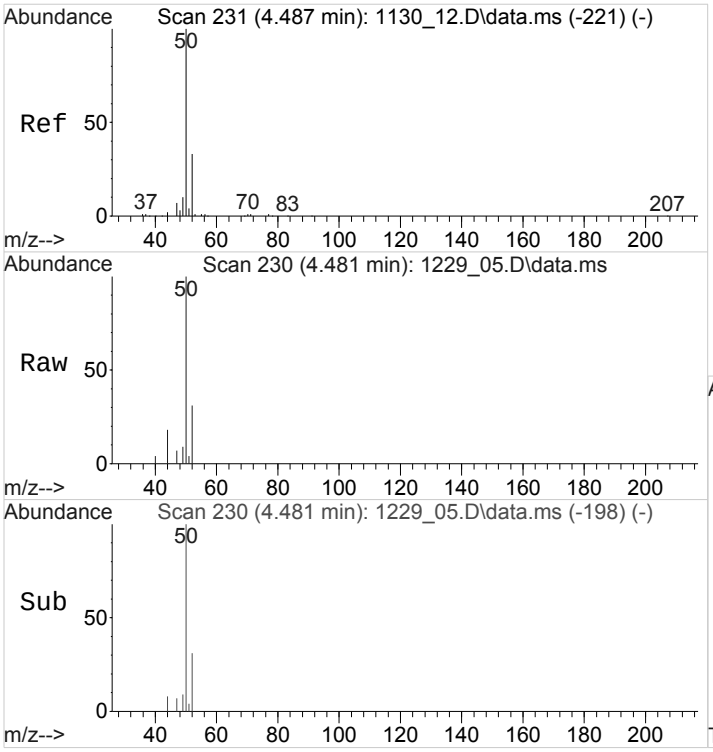
#6
CHLORODIFLUOROMETHANE
Concen: 0.2226838 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 51 Resp: 1659

Ion	Ratio	Lower	Upper
51	100		
67	14.0	13.0	19.4



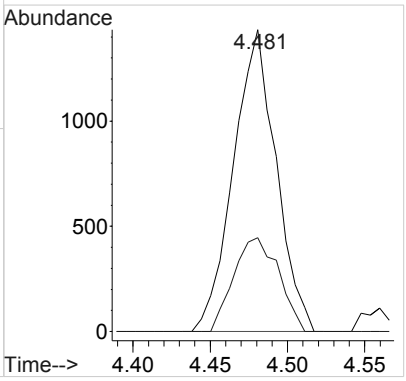
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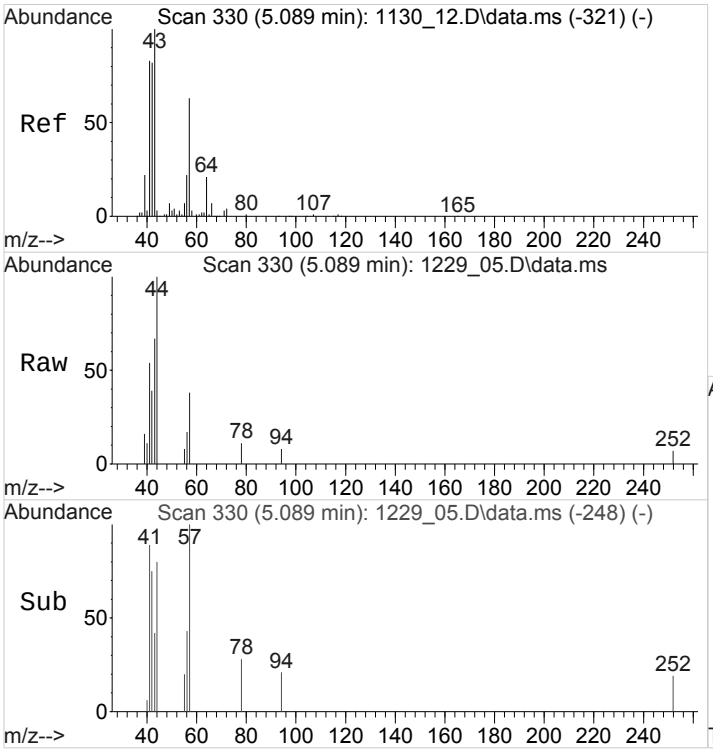


#8
Chloromethane
Concen: 0.5800249 ppbv
RT: 4.481 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 50 Resp: 2756

Ion	Ratio	Lower	Upper
50	100		
52	32.8	27.1	40.7

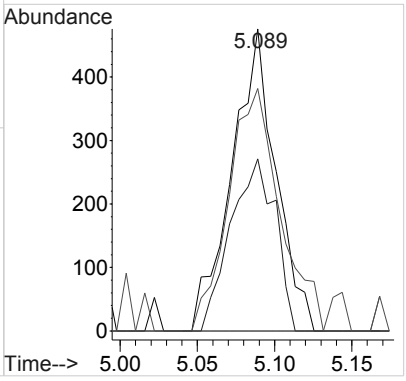




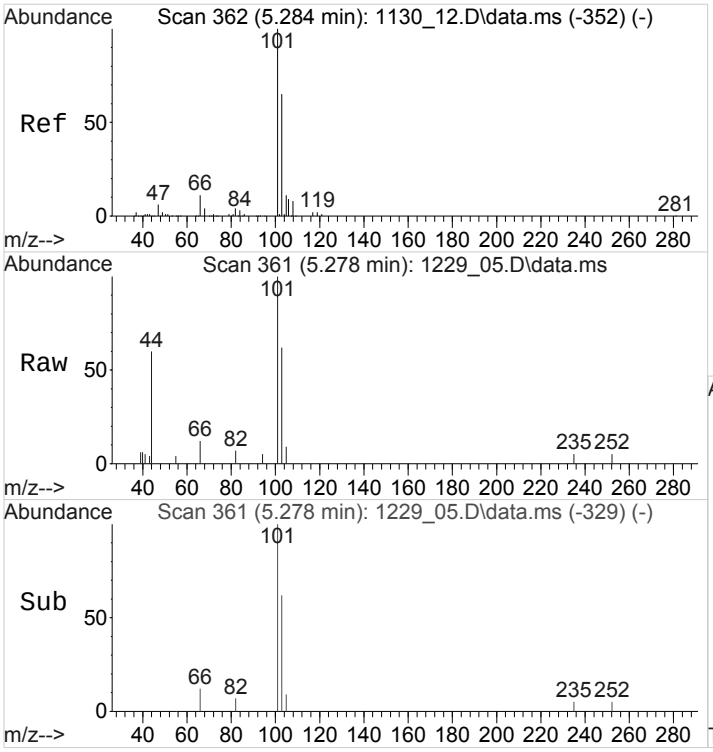
#13
ISOPENTANE
Concen: 0.1913878 ppbv
RT: 5.089 min Scan# 330
Delta R.T. 0.000 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 43 Resp: 945

Ion	Ratio	Lower	Upper
43	100		
57	57.7	51.7	77.5
41	93.7	66.4	99.6
72	0.0	3.2	4.8#



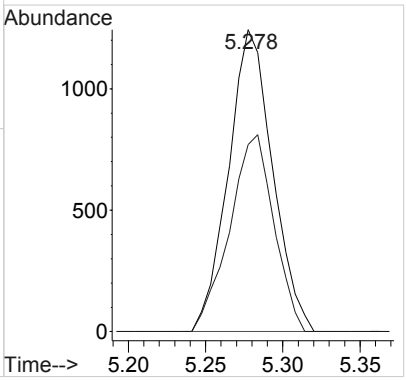
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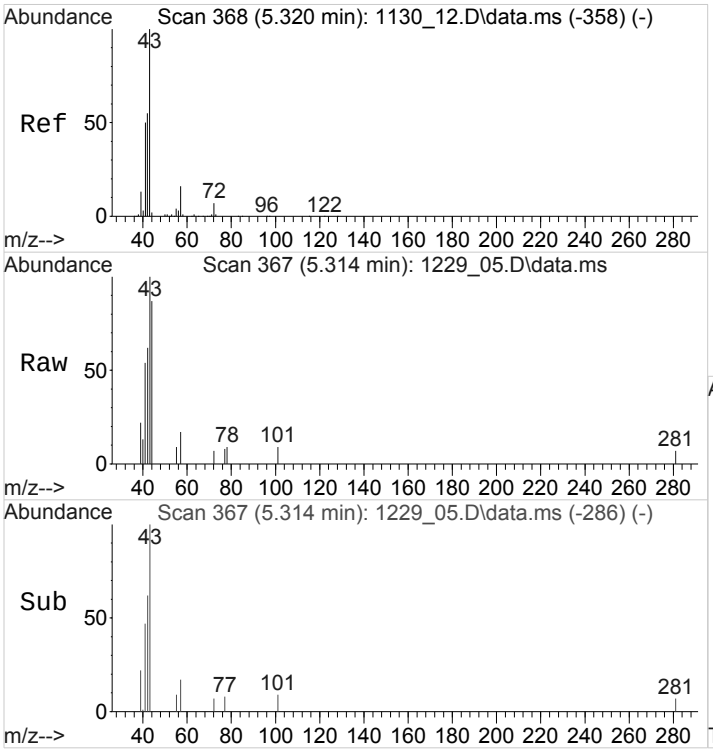


#15
Trichlorofluoromethane
Concen: 0.2236873 ppbv
RT: 5.278 min Scan# 361
Delta R.T. -0.006 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion:101 Resp: 2475

Ion	Ratio	Lower	Upper
101	100		
103	65.3	52.8	79.2

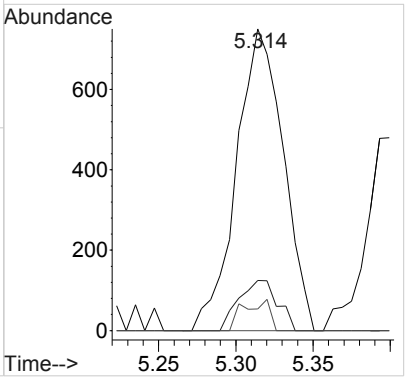




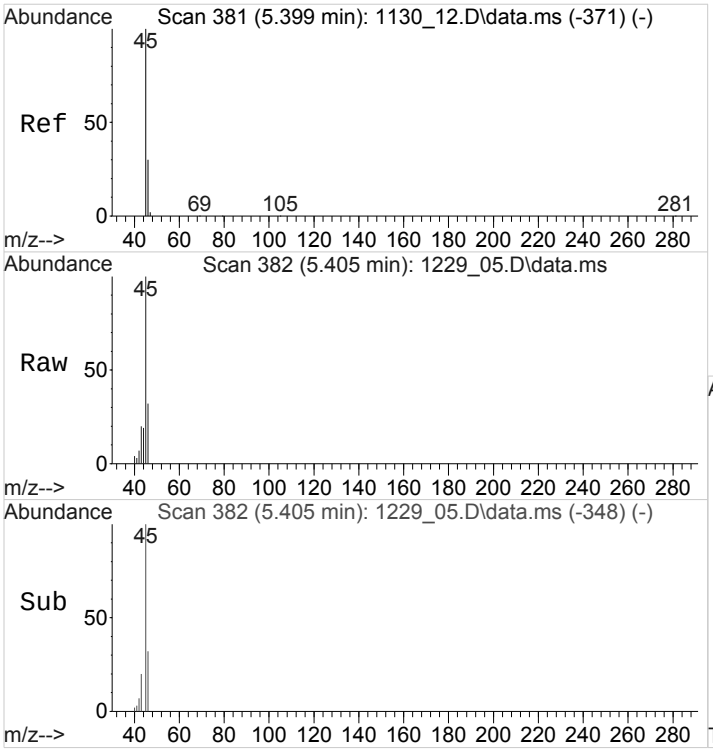
#16
PENTANE
Concen: 0.1559619 ppbv
RT: 5.314 min Scan# 367
Delta R.T. -0.006 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 43 Resp: 1584

Ion	Ratio	Lower	Upper
43	100		
57	13.8	13.0	19.4
72	5.8	5.8	8.8#



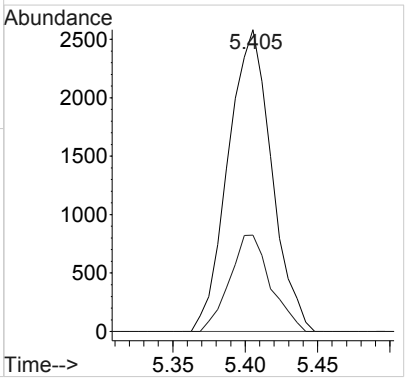
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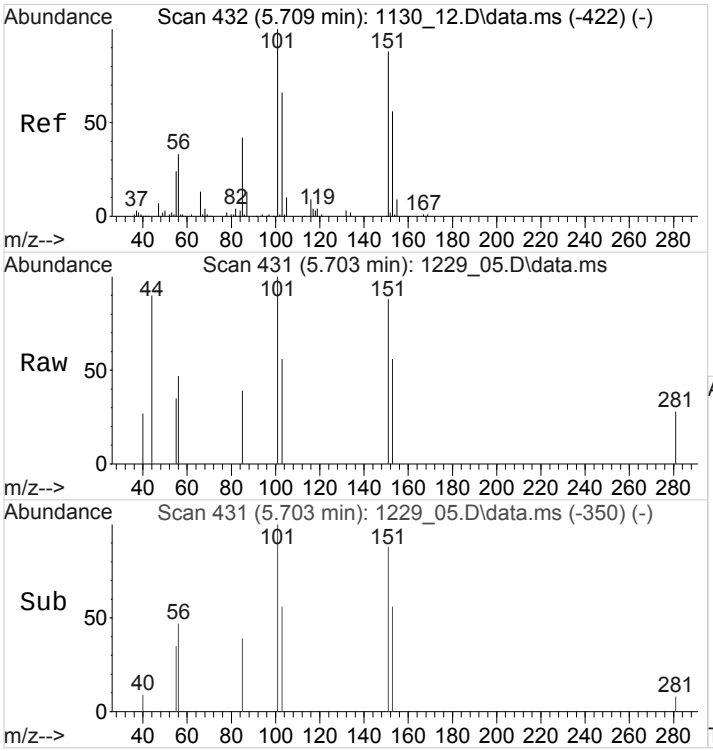


#17
Ethanol
Concen: 2.1520881 ppbv
RT: 5.405 min Scan# 382
Delta R.T. 0.006 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 45 Resp: 5382

Ion	Ratio	Lower	Upper
45	100		
46	30.0	23.6	35.4

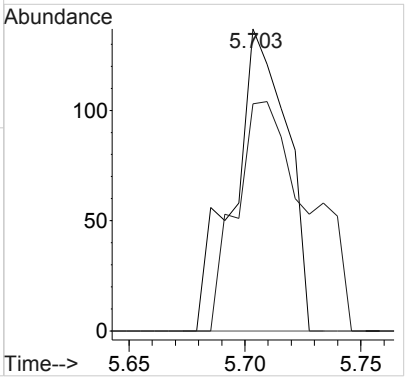




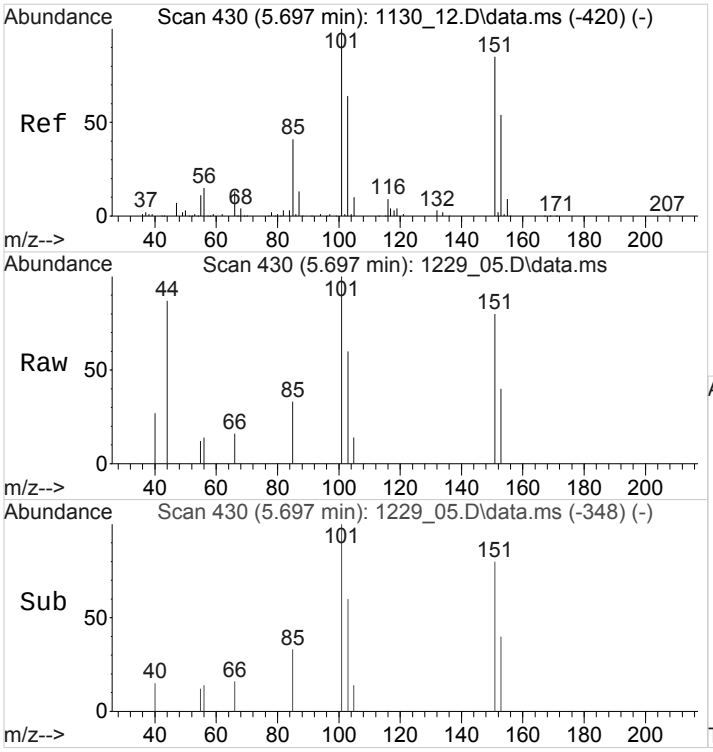
#18
ACROLEIN
Concen: 0.0951979 ppbv
RT: 5.703 min Scan# 431
Delta R.T. -0.006 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 56 Resp: 221

Ion	Ratio	Lower	Upper
56	100		
55	102.7	60.4	90.6#



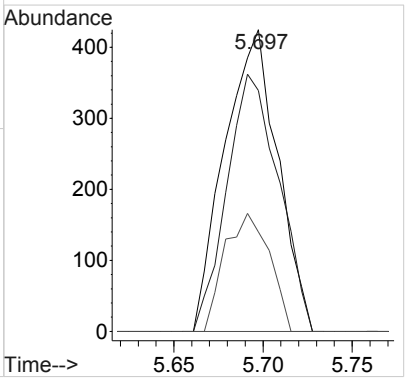
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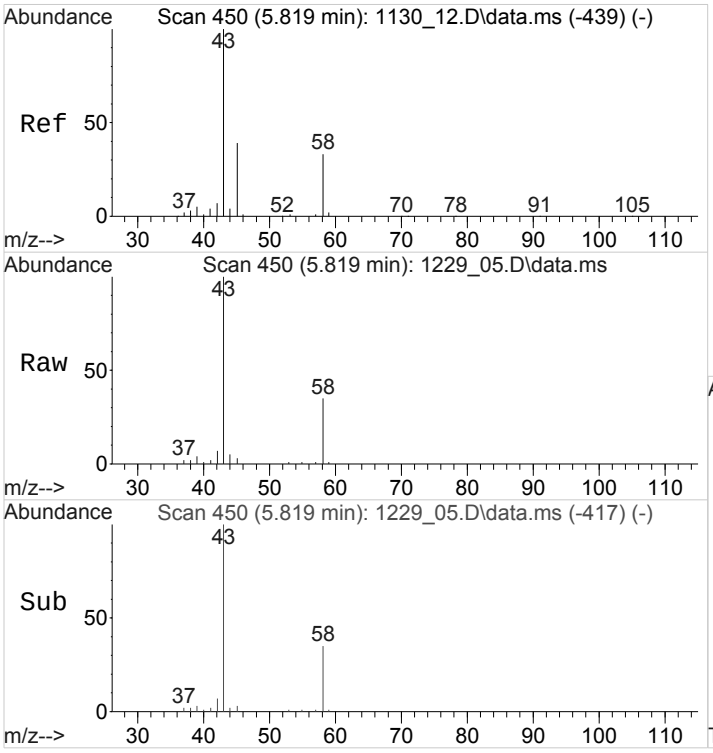


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.0734302 ppbv
RT: 5.697 min Scan# 430
Delta R.T. 0.000 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion:101 Resp: 879

Ion	Ratio	Lower	Upper
101	100		
151	82.8	67.4	101.2
85	33.1	34.4	51.6#

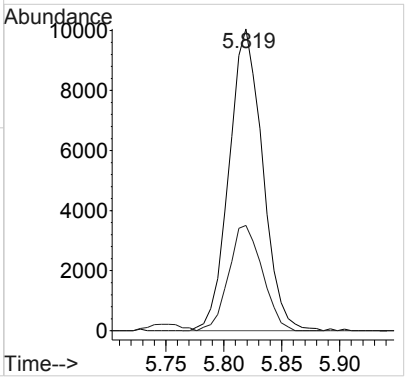




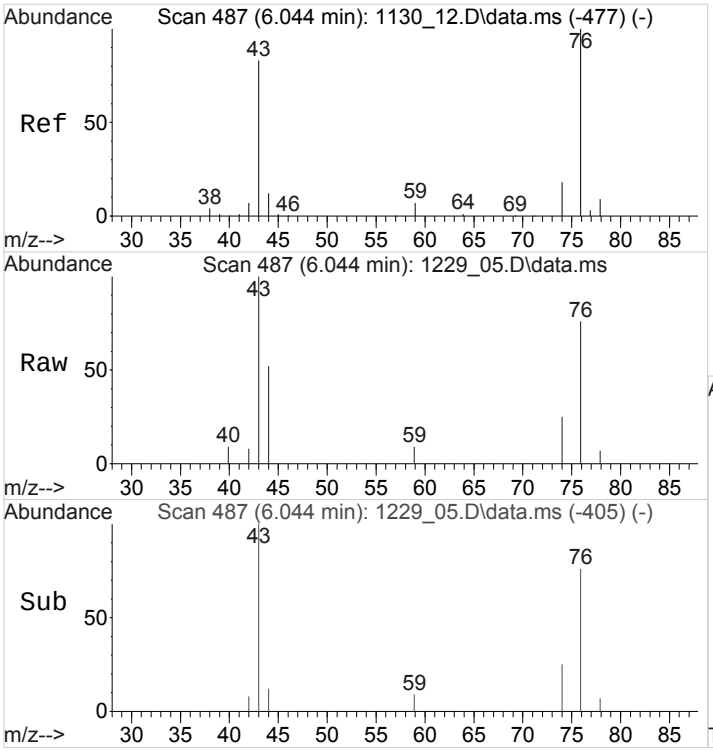
#21
Acetone
Concen: 2.3692767 ppbv
RT: 5.819 min Scan# 450
Delta R.T. 0.000 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 43 Resp: 20254

Ion	Ratio	Lower	Upper
43	100		
58	34.9	23.1	34.7#



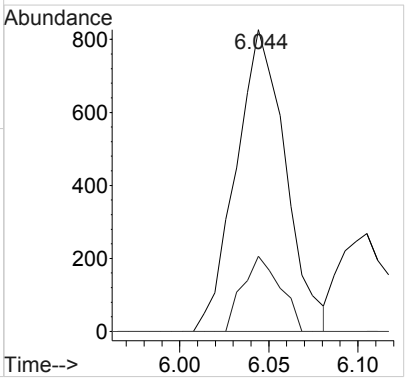
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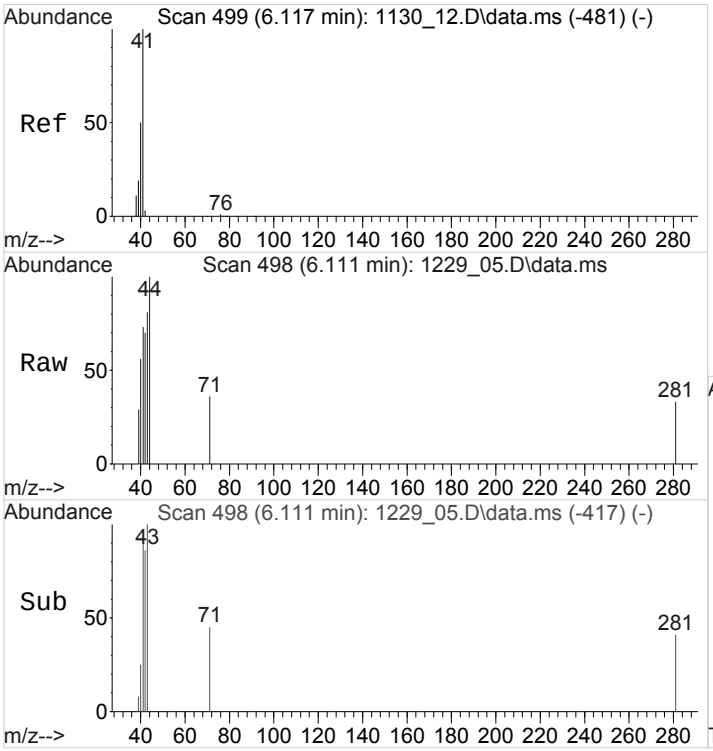


#26
METHYL ACETATE
Concen: 0.1675167 ppbv
RT: 6.044 min Scan# 487
Delta R.T. 0.000 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 43 Resp: 1591

Ion	Ratio	Lower	Upper
43	100		
74	19.0	17.4	26.0
29	0.0	0.0	0.0

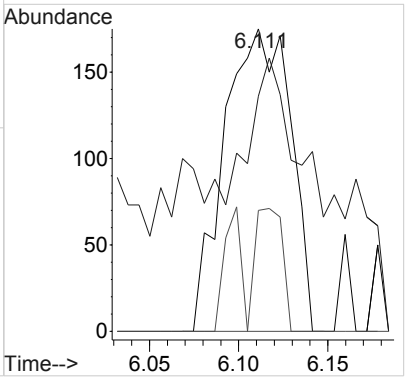




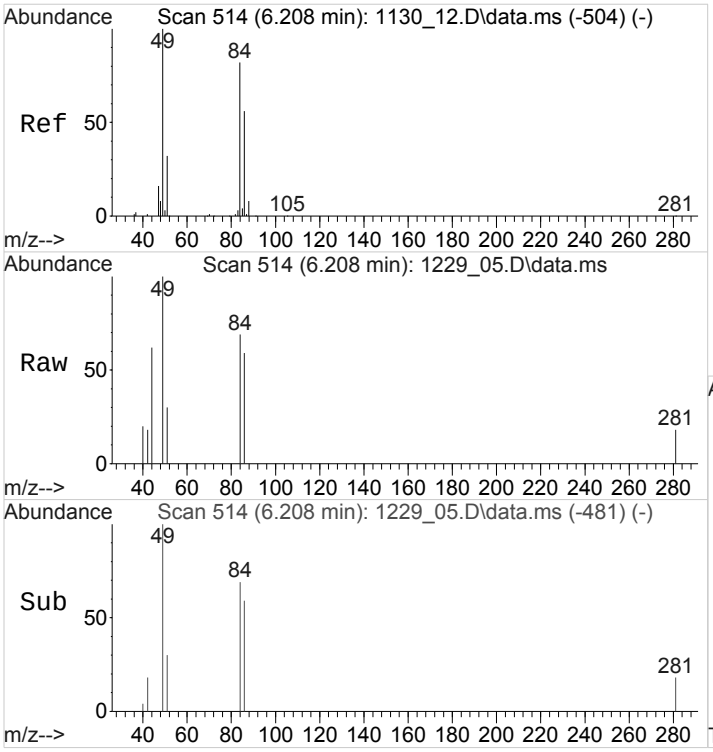
#27
ACETONITRILE
Concen: 0.0853728 ppbv
RT: 6.111 min Scan# 498
Delta R.T. -0.006 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 41 Resp: 451

Ion	Ratio	Lower	Upper
41	100		
40	49.9	32.7	49.1#
39	16.9	22.7	34.1#



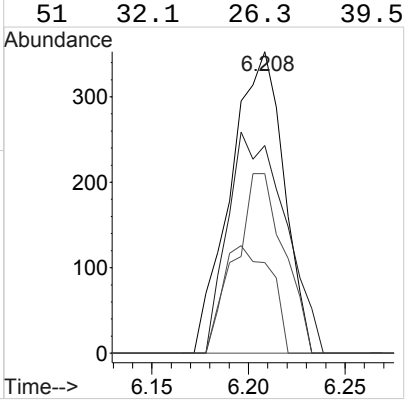
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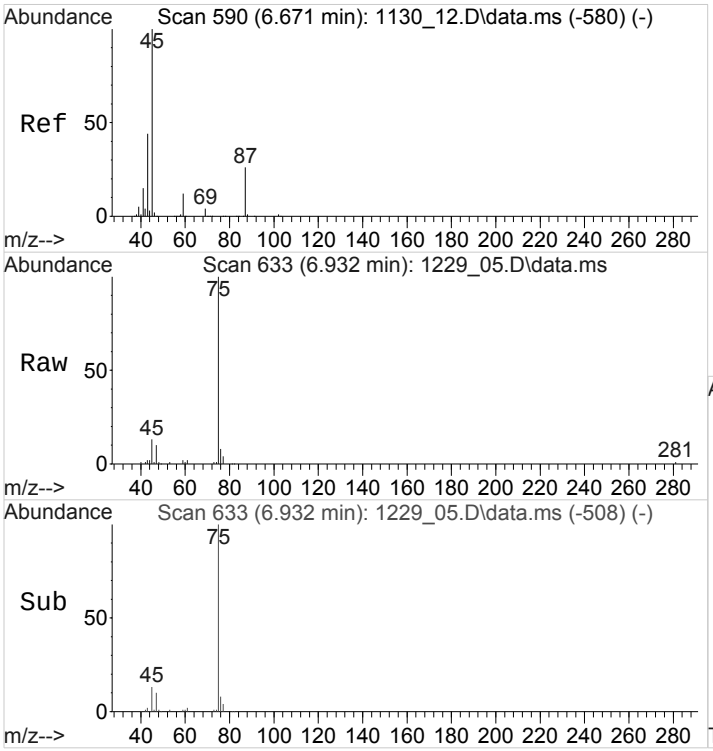


#28
Methylene Chloride
Concen: 0.1145403 ppbv
RT: 6.208 min Scan# 514
Delta R.T. 0.000 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 49 Resp: 675

Ion	Ratio	Lower	Upper
49	100		
84	79.1	65.0	97.6
86	54.7	41.8	62.6
51	32.1	26.3	39.5

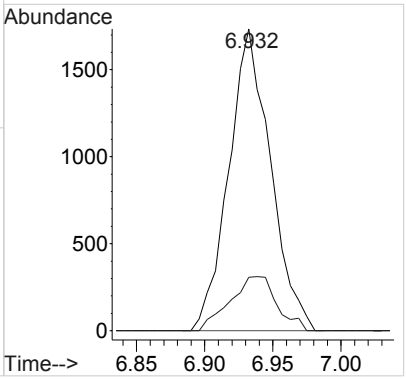




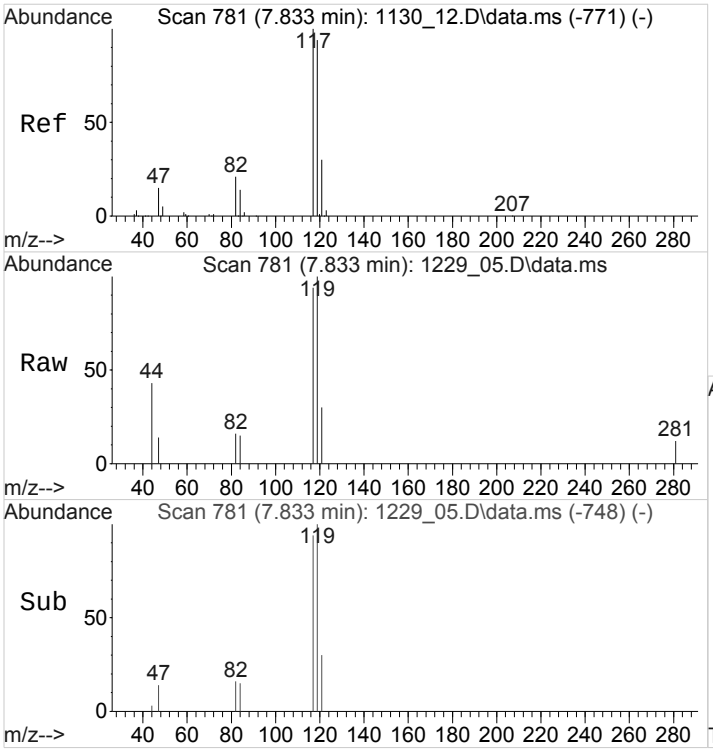
#36
DI-ISOPROPYL ETHER
Concen: 0.2289377 ppbv
RT: 6.932 min Scan# 633
Delta R.T. 0.262 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 45 Resp: 3683

Ion	Ratio	Lower	Upper
45	100		
43	20.1	36.7	55.1#



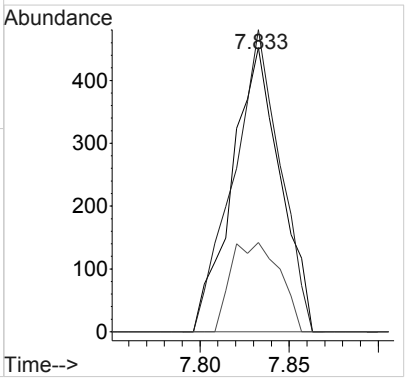
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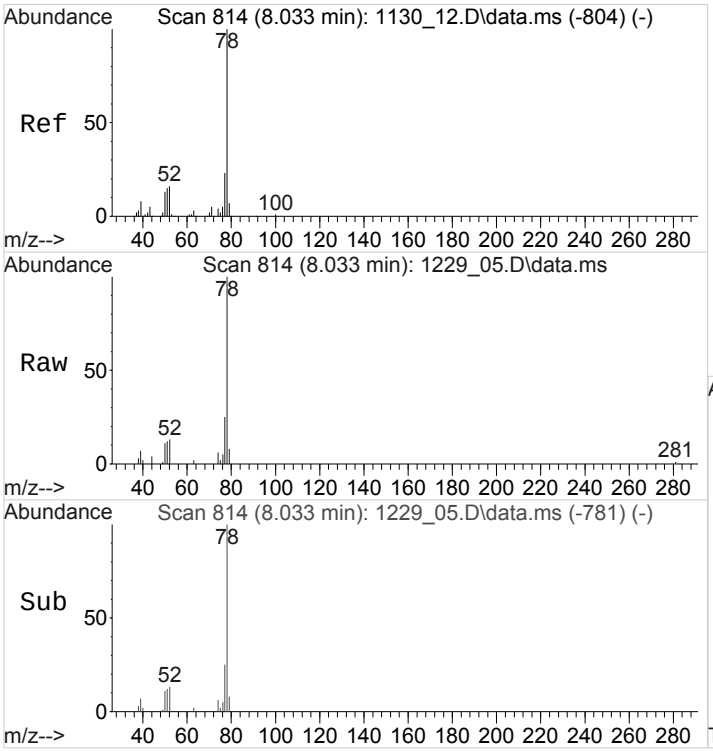


#45
Carbon Tetrachloride
Concen: 0.0693152 ppbv
RT: 7.833 min Scan# 781
Delta R.T. 0.000 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion:117 Resp: 856

Ion	Ratio	Lower	Upper
117	100		
119	102.6	77.3	115.9
121	31.8	25.0	37.4

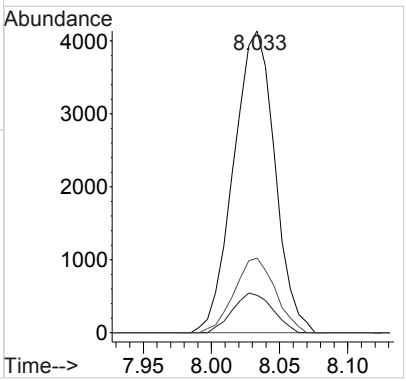




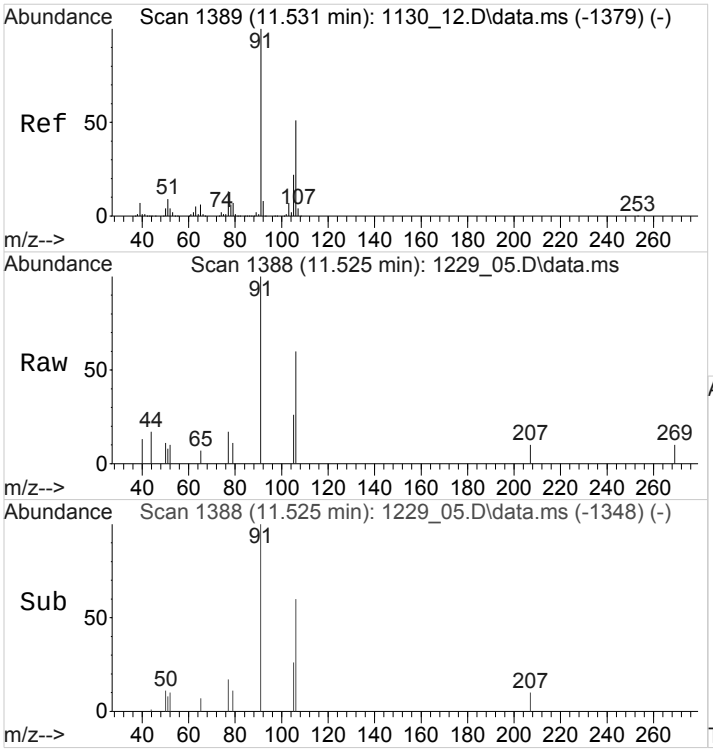
#48
Benzene
Concen: 0.5526901 ppbv
RT: 8.033 min Scan# 814
Delta R.T. 0.000 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 78 Resp: 8676

Ion	Ratio	Lower	Upper
78	100		
51	12.8	12.1	18.1
77	24.6	18.8	28.2



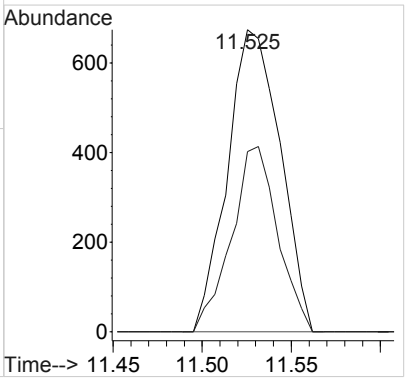
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	33 of 471

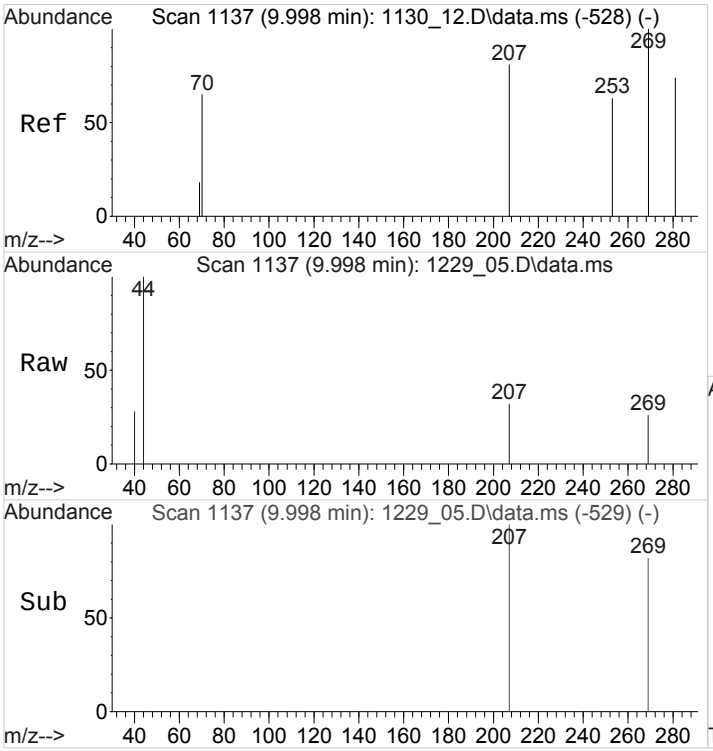


#73
M&P-Xylene
Concen: 0.0783742 ppbv
RT: 11.525 min Scan# 1388
Delta R.T. -0.006 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion: 91 Resp: 1389

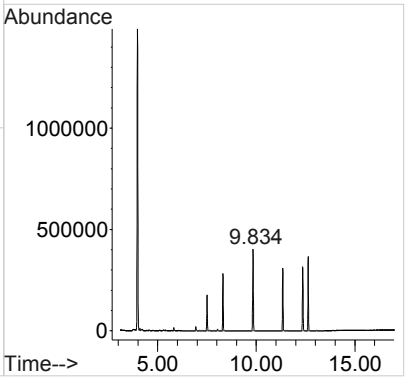
Ion	Ratio	Lower	Upper
91	100		
106	53.6	39.7	59.5



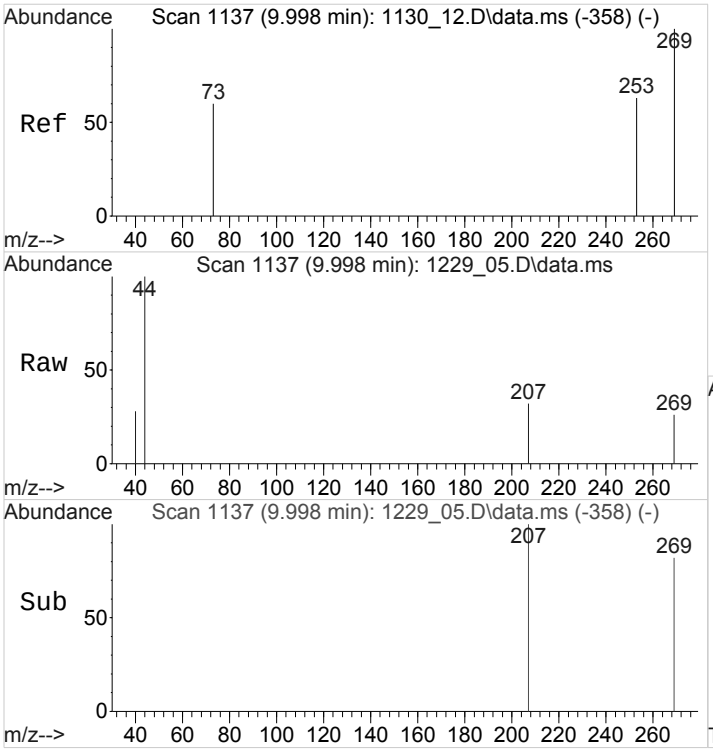


#101
TPH (GC/MS) Low Fraction
Concen: 55.4507410 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion:TIC Resp: 1946481

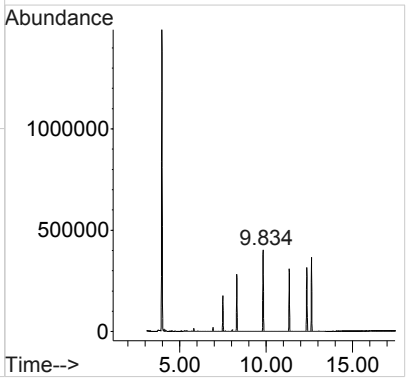


ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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#102
TPH-GRO (C5-C10)
Concen: 68.6218040 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_05.D
Acq: 29 Dec 2022 1:39 pm

Tgt Ion:TIC Resp: 2032895



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
774-VMP-1_1222

Lab Sample ID:	L1570570-02	**SDG:**	L1570570
Client Sample ID:	774-VMP-1_1222	**Collected Date/Time:**	12/21/22 08:15
Lab File ID:	1229_06	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 14:24
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 14:24
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.82	6.75		1.39	2.85	5.70
Benzene	71-43-2	8.03	0.422	J	0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	7.83	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	0	0.516	U	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	11.41	0.867	U	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	0	0.982	U	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	7.19		0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	2.13	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	1.92	J	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	0	0.694	U	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	0.961	J	0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	10.39	21.5		0.553	1.36	2.72
Toluene	108-88-3	9.82	1.58	J	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570570-02	**SDG:**	L1570570
Client Sample ID:	774-VMP-1_1222	**Collected Date/Time:**	12/21/22 08:15
Lab File ID:	1229_06	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 14:24
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 14:24
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	7.70	18.4		0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.59	133		0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	0	0.982	U	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	0.672	J	0.585	1.30	2.60
o-Xylene	95-47-6	12.01	0.759	U	0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_06.D
Acq On : 29 Dec 2022 2:24 pm
Operator :
Sample : L1570570-02 1x WG1980894
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 15:16:56 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

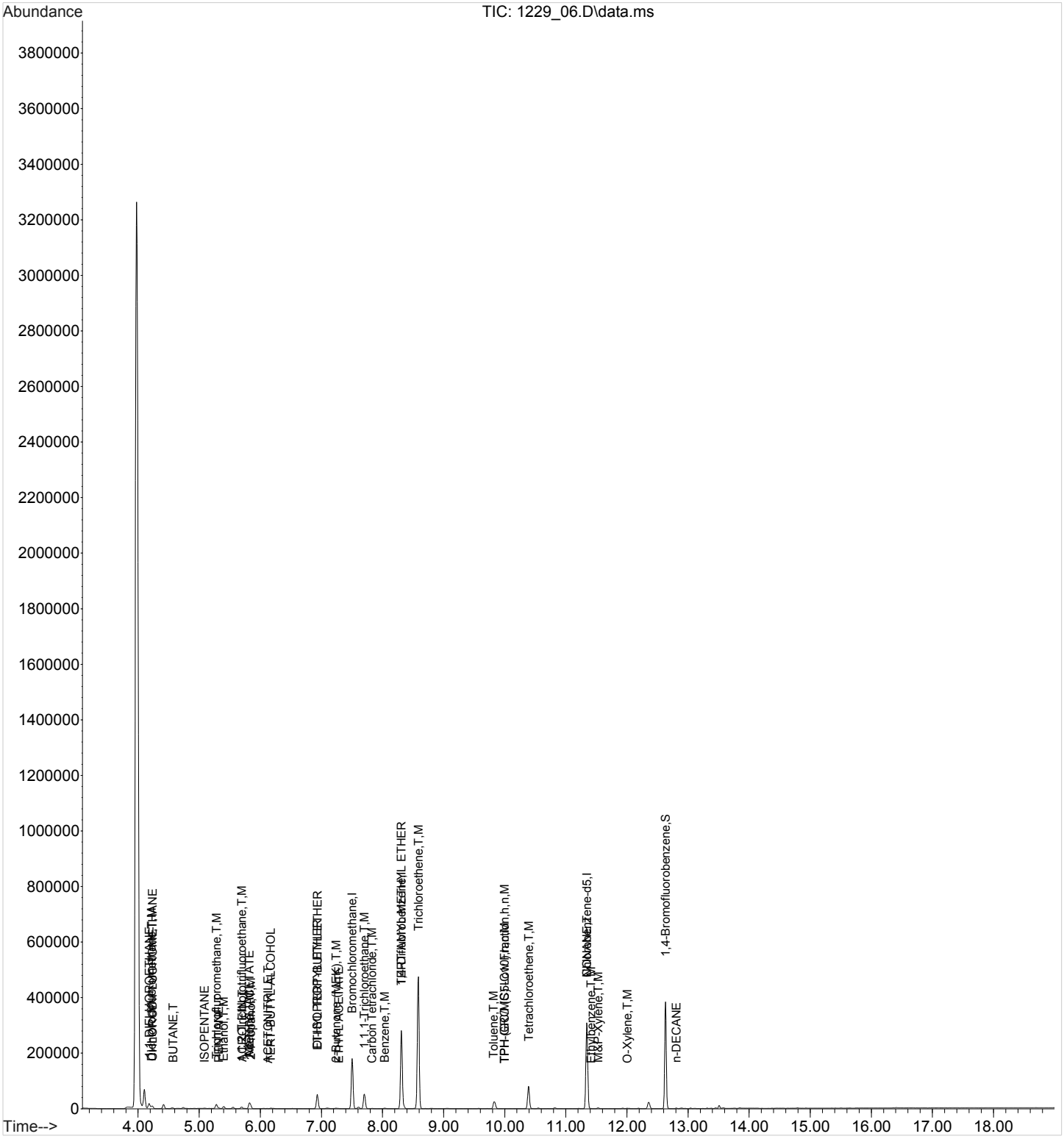
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	77224	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.307	114	275569	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	237390	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.632	95	142252	3.5119747	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 87.80%			
Target Compounds						Qvalue
3) BUTANE	4.572	43	1608	0.2269202	ppbv	99
4) 1,1-DIFLUOROETHANE	4.182	51	13746	2.2574385	ppbv	94
5) Dichlorodifluoromethane	4.219	85	5631	0.4297699	ppbv	98
6) CHLORODIFLUOROMETHANE	4.237	51	9392	1.2717513	ppbv	98
13) ISOPENTANE	5.083	43	677	0.1383162	ppbv #	86
15) Trichlorofluoromethane	5.283	101	14035	1.2796184	ppbv	99
16) PENTANE	5.320	43	1990	0.1976598	ppbv #	90
17) Ethanol	5.399	45	10334	4.1685661	ppbv	99
18) ACROLEIN	5.703	56	165	0.0717003	ppbv #	64
19) 1,1,2-Trichlorotrifluo...	5.697	101	2972	0.2504591	ppbv	97
21) Acetone	5.819	43	24082	2.8418387	ppbv	92
23) 2-Propanol	5.843	45	15296	1.6347010	ppbv #	31
26) METHYL ACETATE	5.819	43	24082	2.5578929	ppbv #	54
27) ACETONITRILE	6.123	41	487	0.0929980	ppbv #	85
29) TERT-BUTYL ALCOHOL	6.172	59	2698	0.2738859	ppbv #	1
36) DI-ISOPROPYL ETHER	6.932	45	9064	0.5683781	ppbv #	58
37) ETHYL TERT-BUTYL ETHER	6.938	59	1604	0.0949083	ppbv #	48
38) ETHYL ACETATE	7.285	45	277	0.1575116	ppbv #	1
39) 2-Butanone (MEK)	7.242	72	845	0.3261282	ppbv	99
44) 1,1,1-Trichloroethane	7.705	97	38868	3.3847095	ppbv	99
45) Carbon Tetrachloride	7.826	117	825	0.0673924	ppbv	92
48) Benzene	8.033	78	2052	0.1319995	ppbv	98
49) TERT-AMYL METHYL ETHER	8.307	73	2617	0.1710467	ppbv #	51
52) Trichloroethene	8.587	95	188448	24.7941922	ppbv	92
62) Toluene	9.816	91	8341	0.4186779	ppbv	100
65) Tetrachloroethene	10.394	166	31525	3.1712460	ppbv	94
70) NONANE	11.343	43	714	0.0502768	ppbv #	64
72) Ethylbenzene	11.410	91	1188	0.0522674	ppbv	97
73) M&P-Xylene	11.525	91	2768	0.1553941	ppbv	97
74) O-Xylene	12.006	91	1195	0.0636047	ppbv	94
80) n-DECANE	12.809	43	760	0.0638676	ppbv	98
101) TPH (GC/MS) Low Fraction	10.000	TIC	1730645m	49.0526628	ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	1966174m	66.0338362	ppbv	

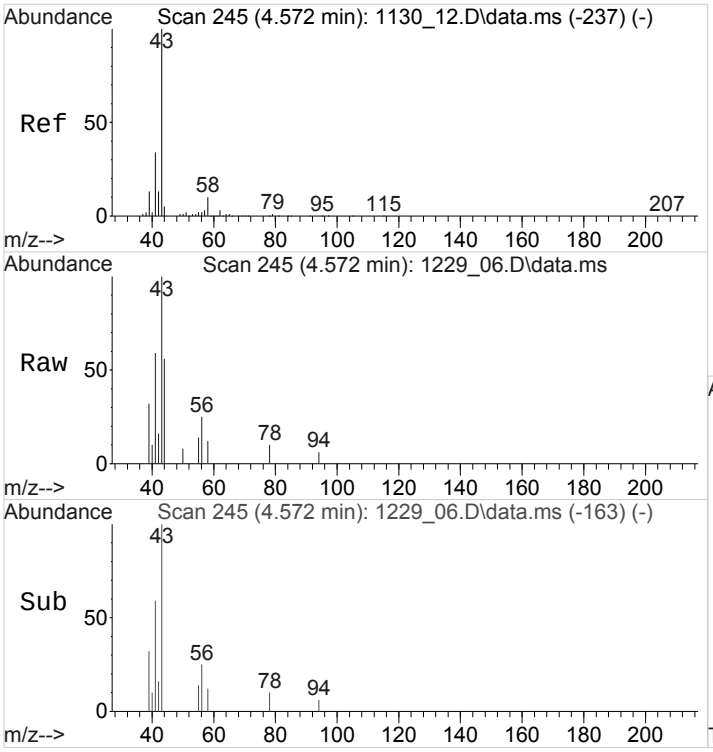
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_06.D
Acq On : 29 Dec 2022 2:24 pm
Operator :
Sample : L1570570-02 1x WG1980894
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 15:16:56 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

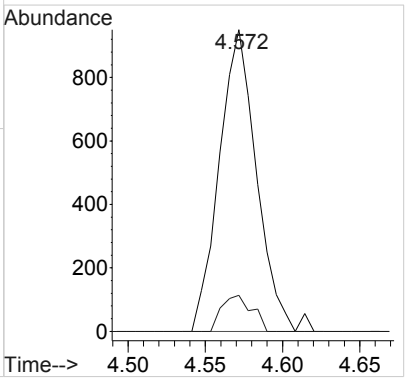


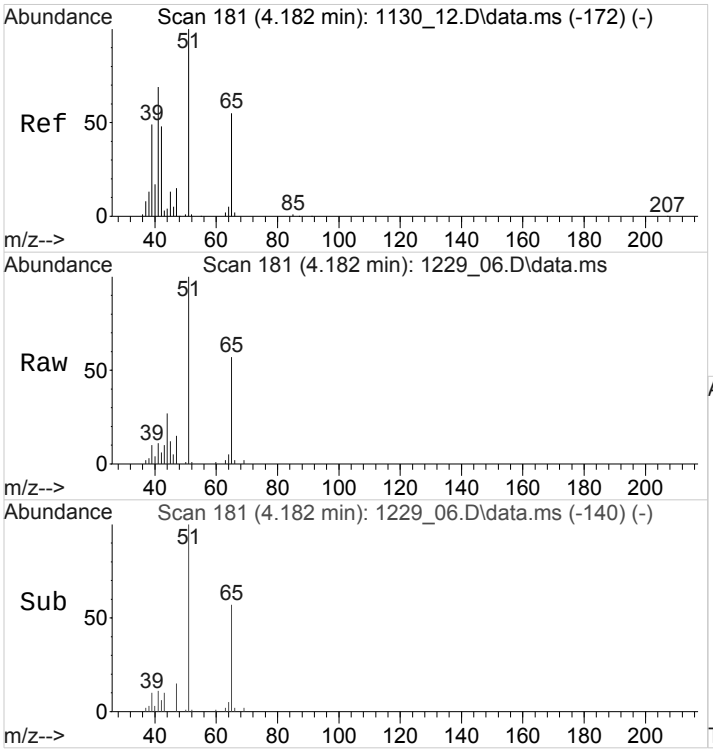


#3
BUTANE
Concen: 0.2269202 ppbv
RT: 4.572 min Scan# 245
Delta R.T. -0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 43 Resp: 1608

Ion	Ratio	Lower	Upper
43	100		
58	9.6	8.0	12.0

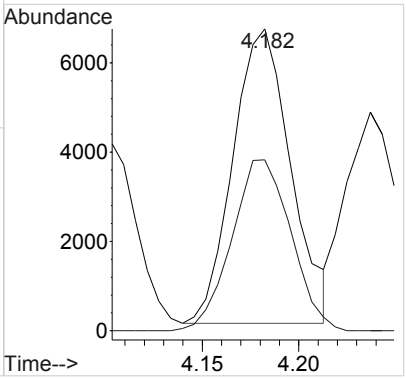




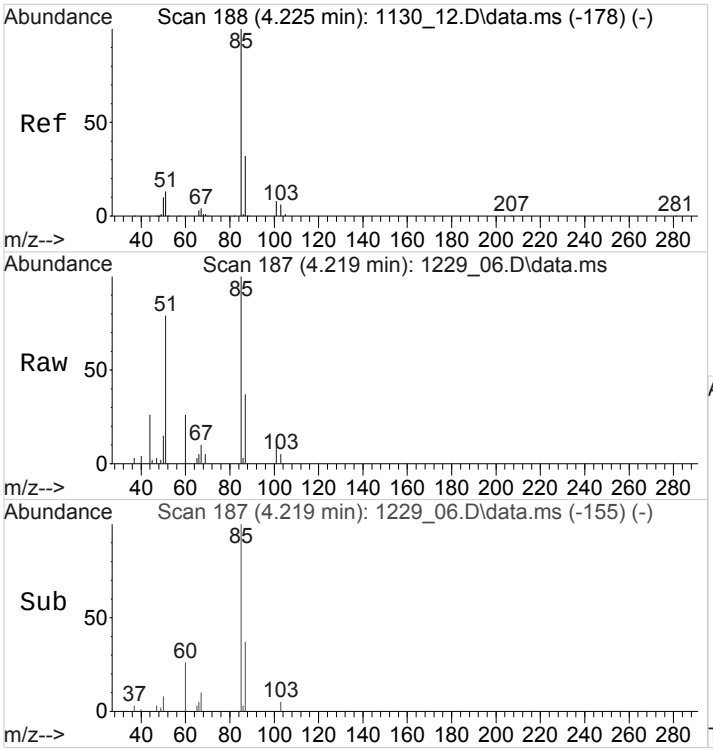
#4
1,1-DIFLUOROETHANE
Concen: 2.2574385 ppbv
RT: 4.182 min Scan# 181
Delta R.T. -0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 51 Resp: 13746

Ion	Ratio	Lower	Upper
51	100		
65	59.3	44.1	66.1



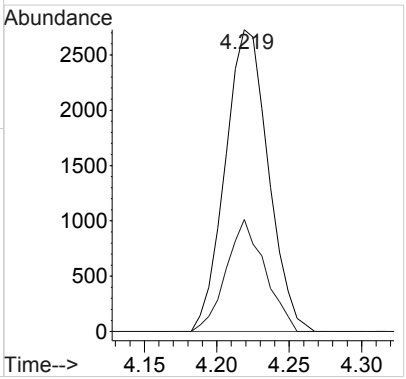
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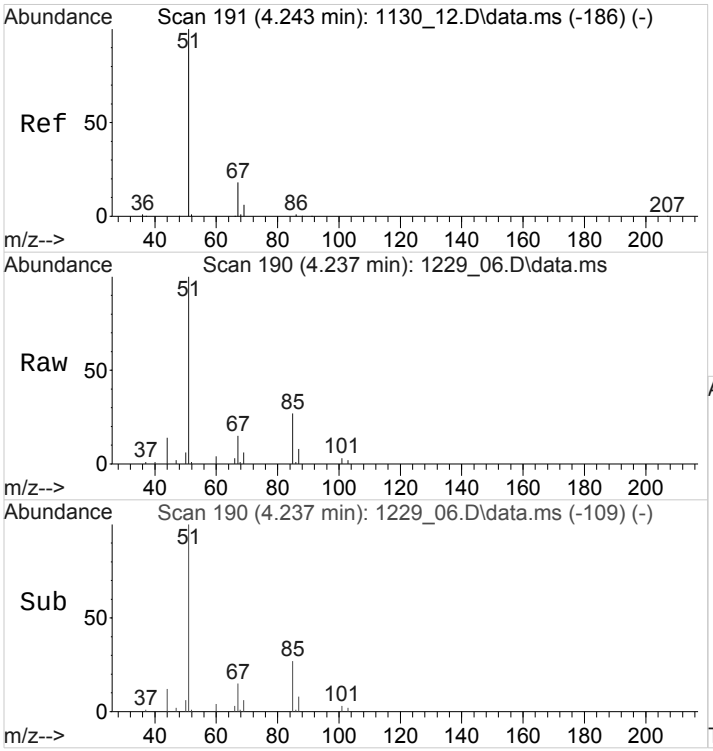


#5
Dichlorodifluoromethane
Concen: 0.4297699 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 85 Resp: 5631

Ion	Ratio	Lower	Upper
85	100		
87	33.4	25.8	38.6

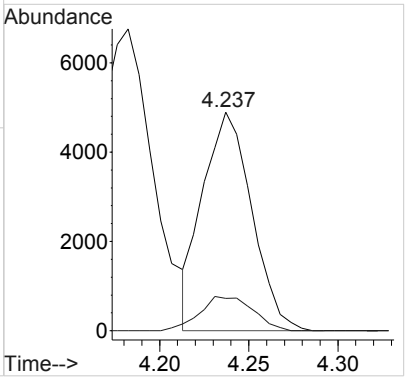




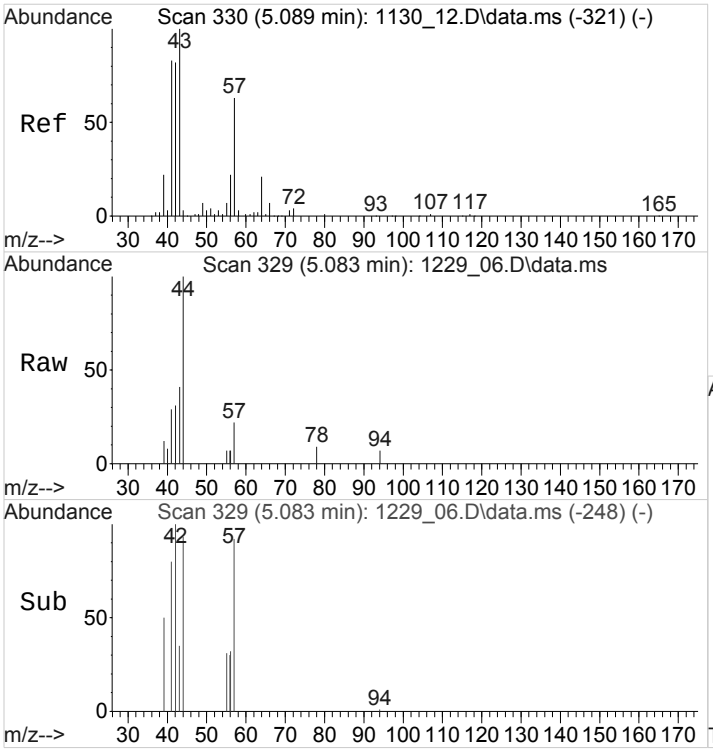
#6
CHLORODIFLUOROMETHANE
Concen: 1.2717513 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 51 Resp: 9392

Ion	Ratio	Lower	Upper
51	100		
67	17.0	13.0	19.4



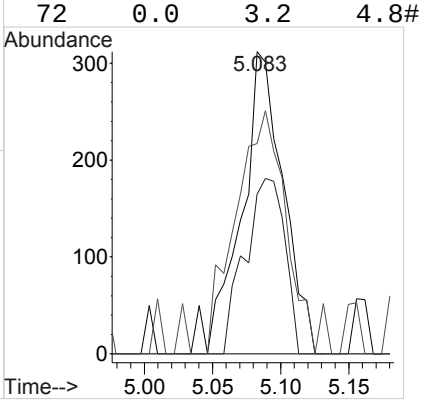
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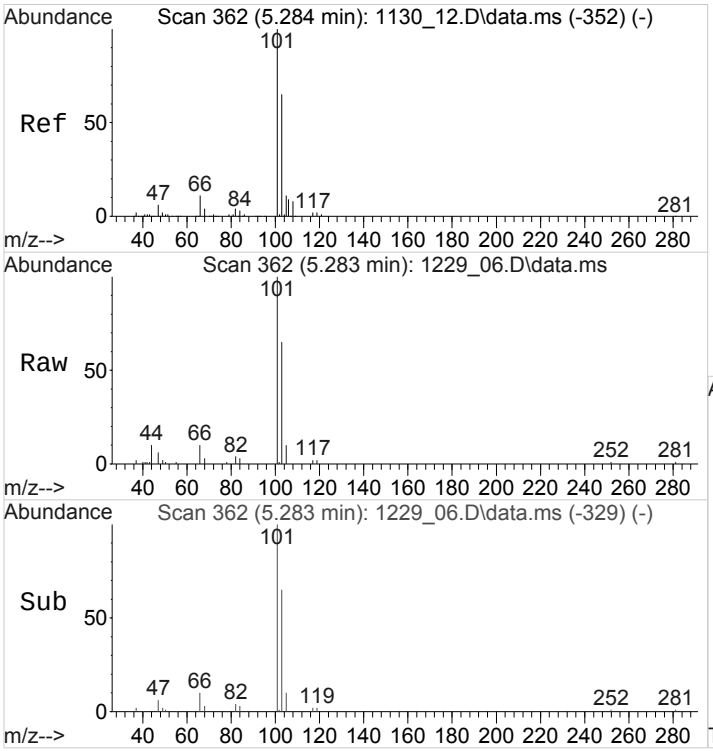


#13
ISOPENTANE
Concen: 0.1383162 ppbv
RT: 5.083 min Scan# 329
Delta R.T. -0.006 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 43 Resp: 677

Ion	Ratio	Lower	Upper
43	100		
57	54.2	51.7	77.5
41	97.0	66.4	99.6
72	0.0	3.2	4.8#

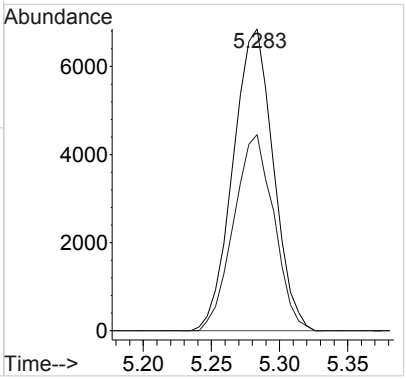




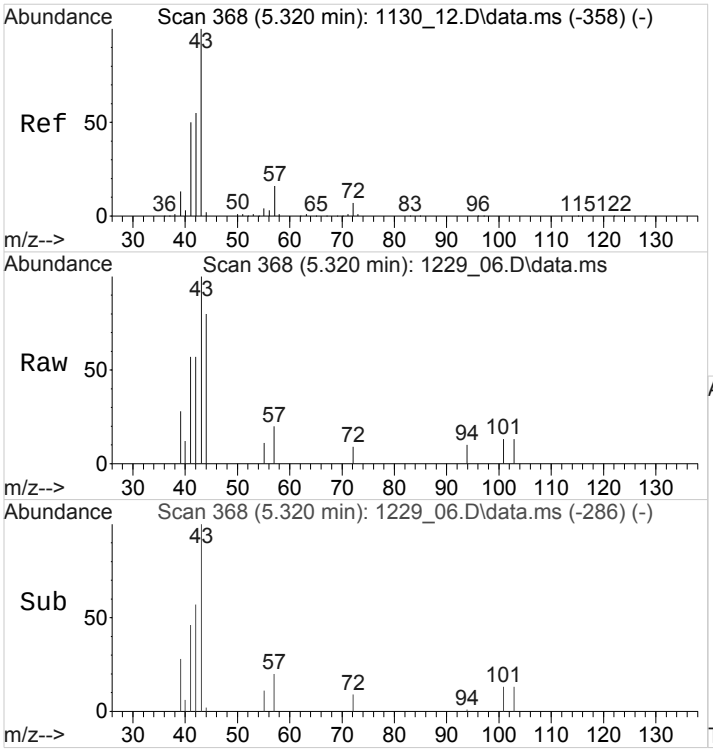
#15
Trichlorofluoromethane
Concen: 1.2796184 ppbv
RT: 5.283 min Scan# 362
Delta R.T. -0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion:101 Resp: 14035

Ion	Ratio	Lower	Upper
101	100		
103	64.9	52.8	79.2



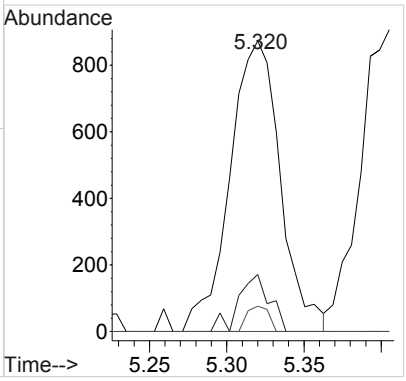
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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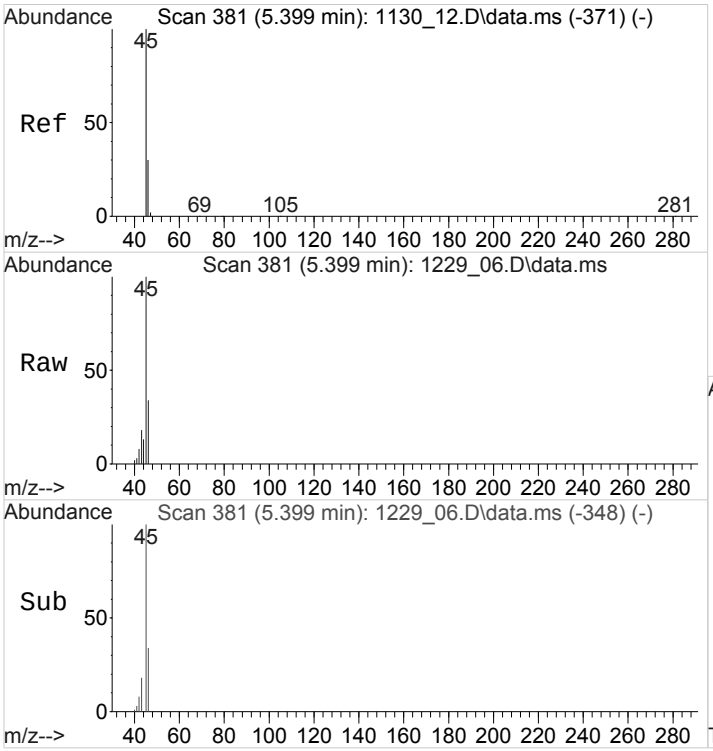


#16
PENTANE
Concen: 0.1976598 ppbv
RT: 5.320 min Scan# 368
Delta R.T. -0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 43 Resp: 1990

Ion	Ratio	Lower	Upper
43	100		
57	12.1	13.0	19.4#
72	3.8	5.8	8.8#

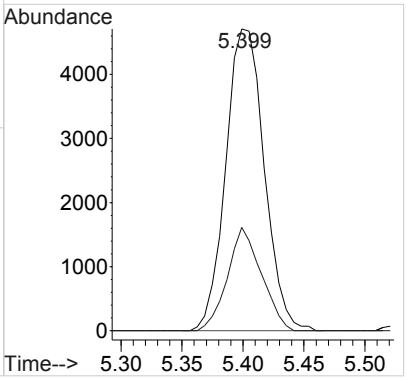




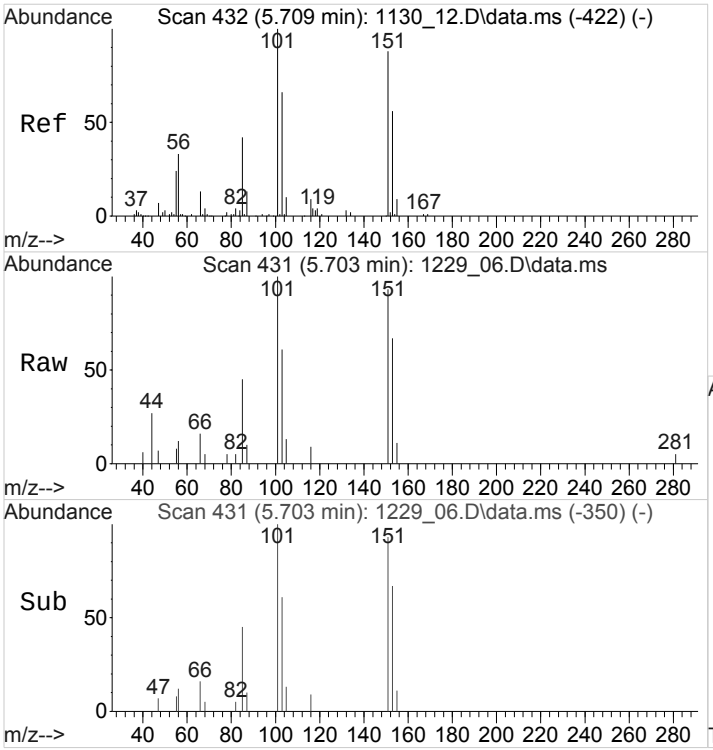
#17
Ethanol
Concen: 4.1685661 ppbv
RT: 5.399 min Scan# 381
Delta R.T. 0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 45 Resp: 10334

Ion	Ratio	Lower	Upper
45	100		
46	30.2	23.6	35.4



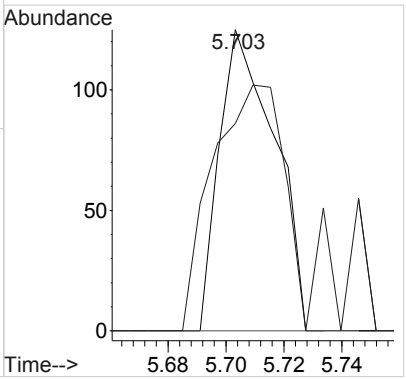
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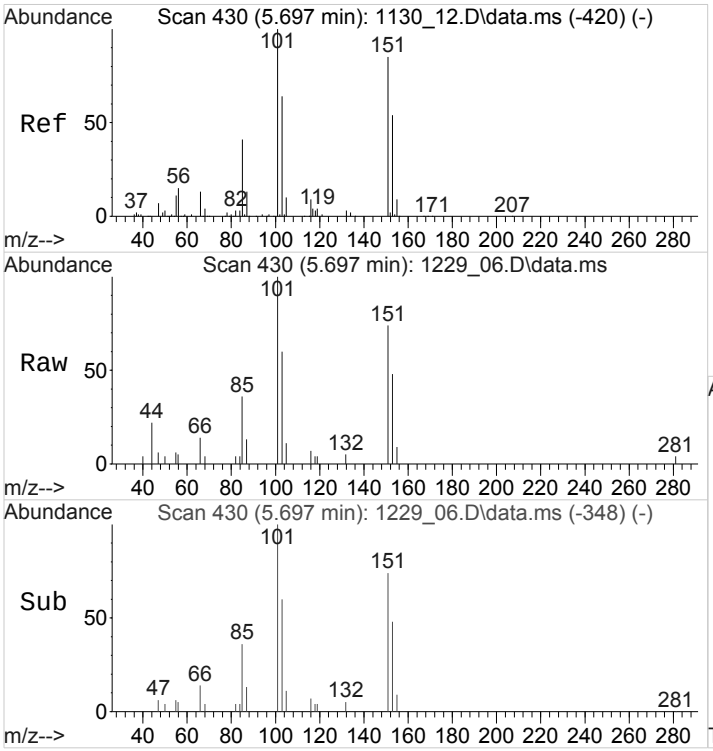


#18
ACROLEIN
Concen: 0.0717003 ppbv
RT: 5.703 min Scan# 431
Delta R.T. -0.006 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 56 Resp: 165

Ion	Ratio	Lower	Upper
56	100		
55	106.1	60.4	90.6#

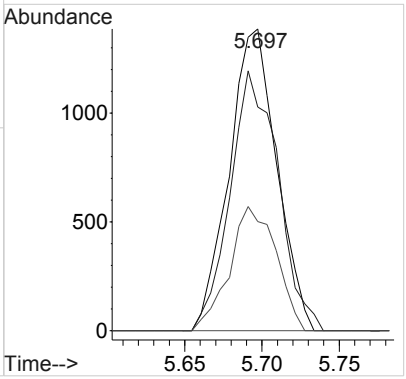




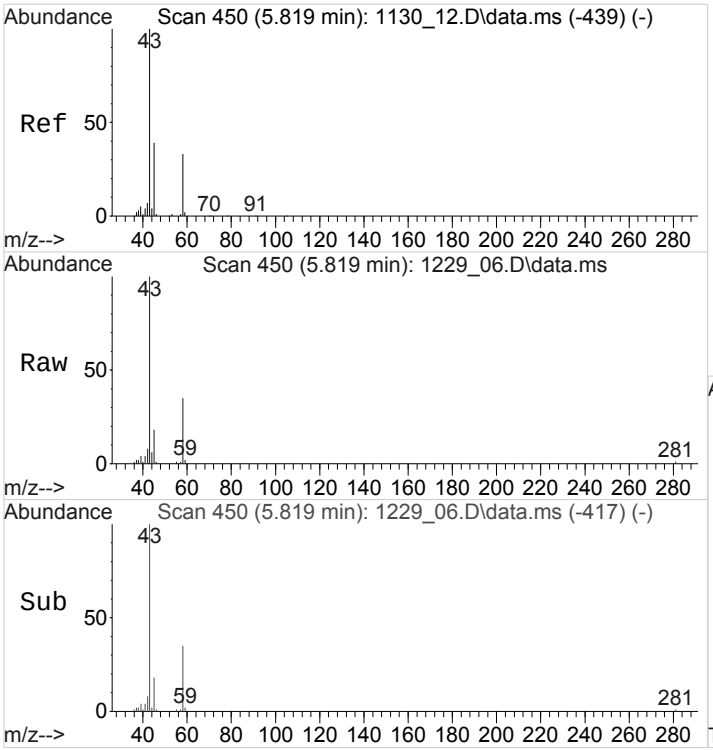
#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.2504591 ppbv
RT: 5.697 min Scan# 430
Delta R.T. -0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion:101 Resp: 2972

Ion	Ratio	Lower	Upper
101	100		
151	86.6	67.4	101.2
85	40.2	34.4	51.6



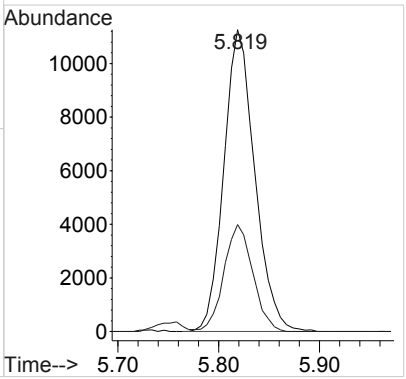
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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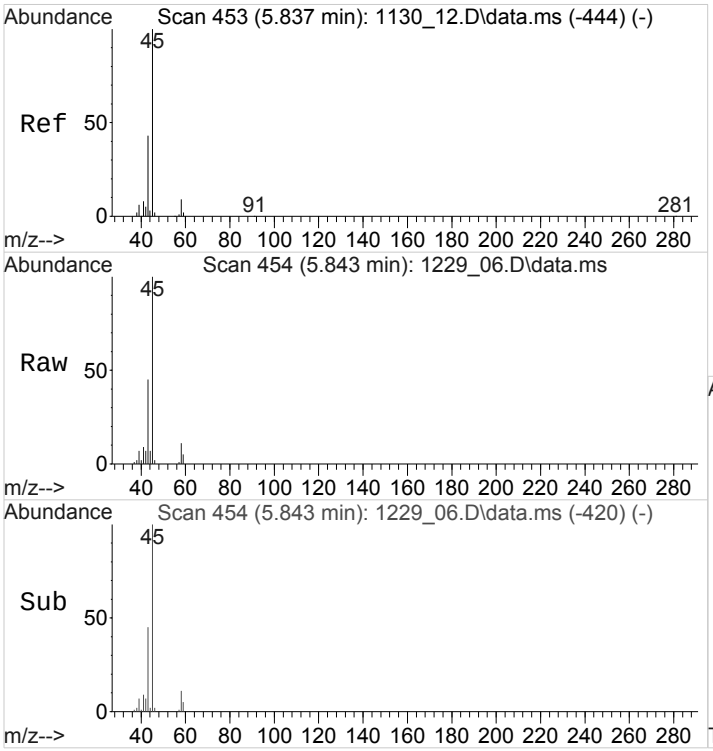


#21
Acetone
Concen: 2.8418387 ppbv
RT: 5.819 min Scan# 450
Delta R.T. -0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 43 Resp: 24082

Ion	Ratio	Lower	Upper
43	100		
58	33.0	23.1	34.7

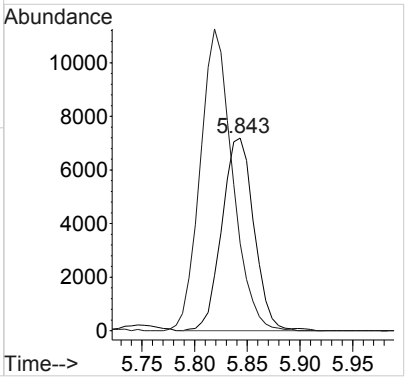




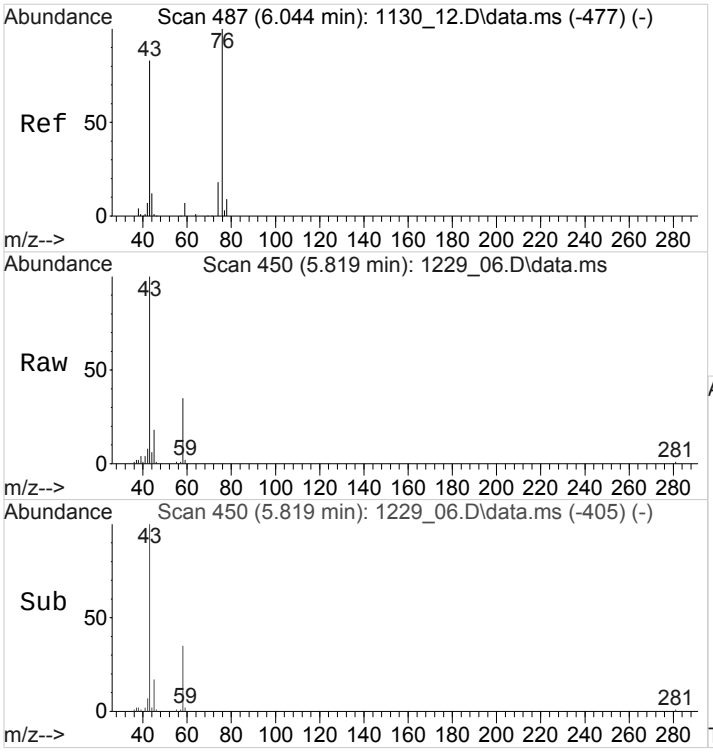
#23
2-Propanol
Concen: 1.6347010 ppbv
RT: 5.843 min Scan# 454
Delta R.T. 0.006 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 45 Resp: 15296

Ion	Ratio	Lower	Upper
45	100		
43	157.4	73.5	110.3#



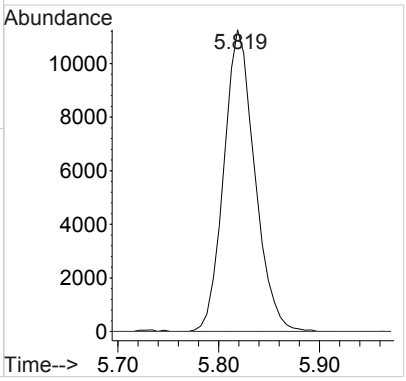
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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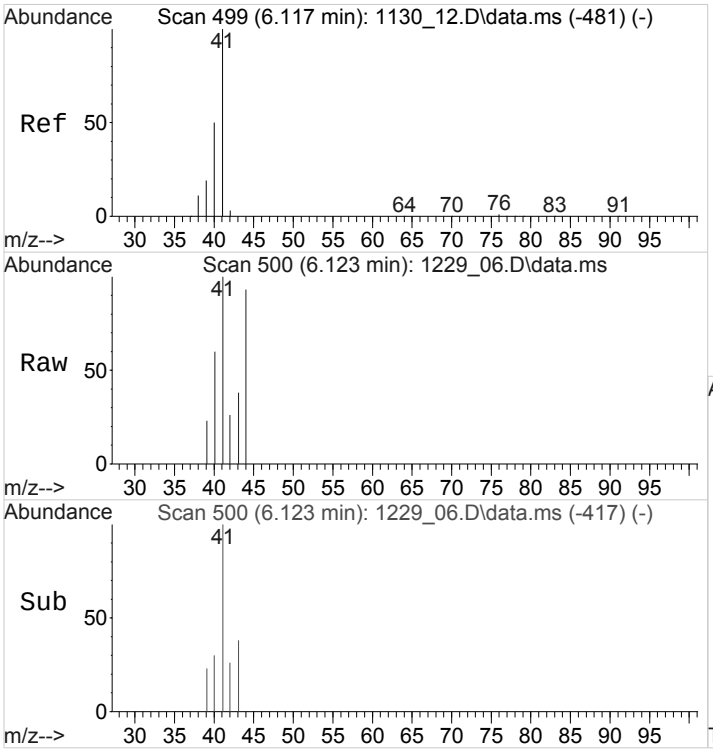


#26
METHYL ACETATE
Concen: 2.5578929 ppbv
RT: 5.819 min Scan# 450
Delta R.T. -0.225 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 43 Resp: 24082

Ion	Ratio	Lower	Upper
43	100		
74	0.0	17.4	26.0#
29	0.0	0.0	0.0

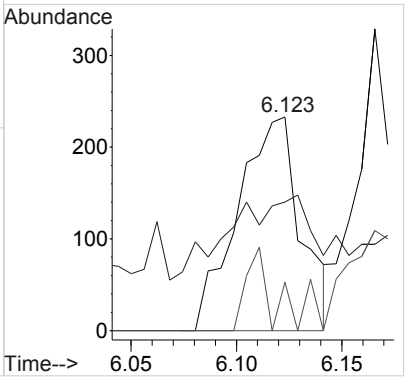




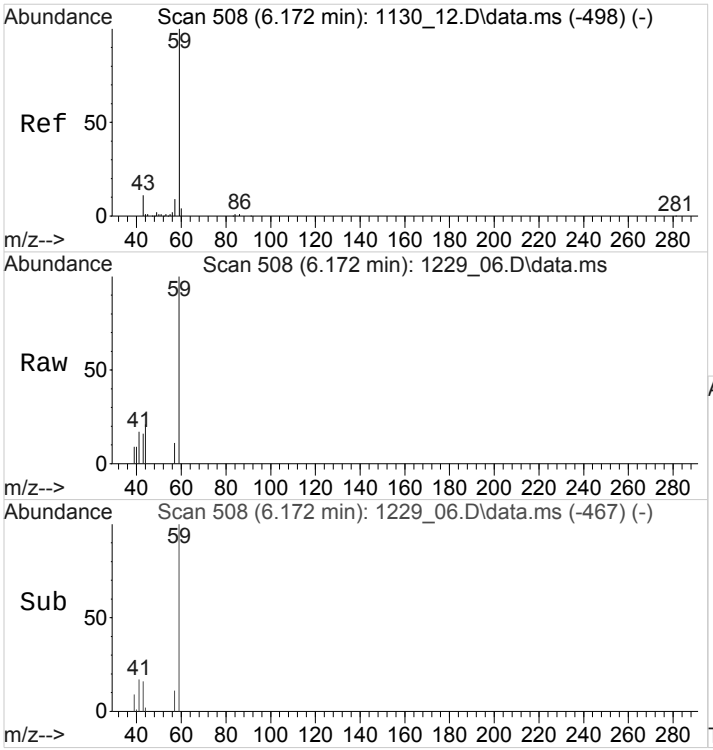
#27
ACETONITRILE
Concen: 0.0929980 ppbv
RT: 6.123 min Scan# 500
Delta R.T. 0.006 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 41 Resp: 487

Ion	Ratio	Lower	Upper
41	100		
40	46.0	32.7	49.1
39	15.2	22.7	34.1#



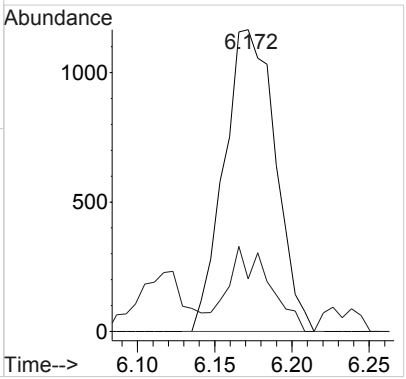
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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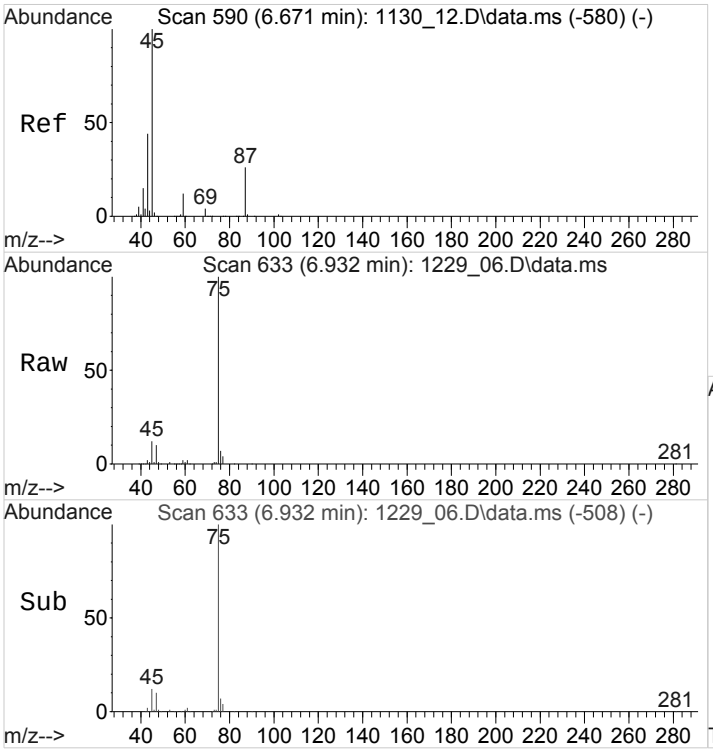


#29
TERT-BUTYL ALCOHOL
Concen: 0.2738859 ppbv
RT: 6.172 min Scan# 508
Delta R.T. -0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 59 Resp: 2698

Ion	Ratio	Lower	Upper
59	100		
41	23.1	216.4	324.6#

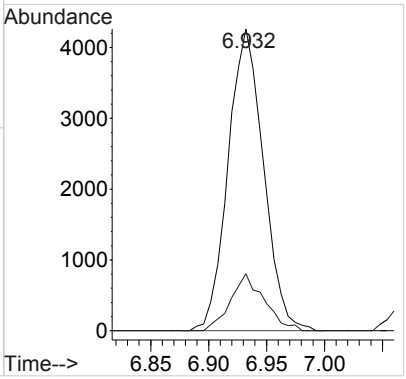




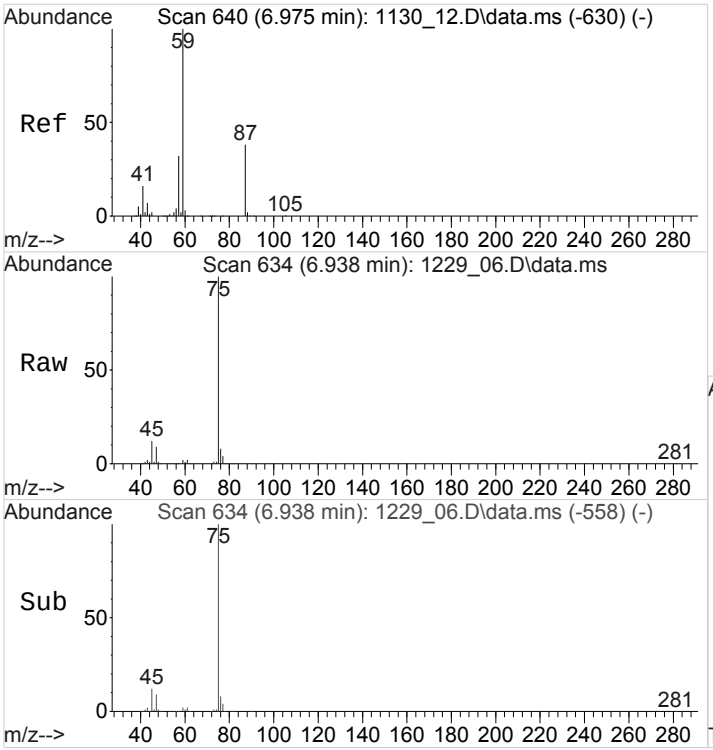
#36
DI-ISOPROPYL ETHER
Concen: 0.5683781 ppbv
RT: 6.932 min Scan# 633
Delta R.T. 0.262 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 45 Resp: 9064

Ion	Ratio	Lower	Upper
45	100		
43	17.9	36.7	55.1#



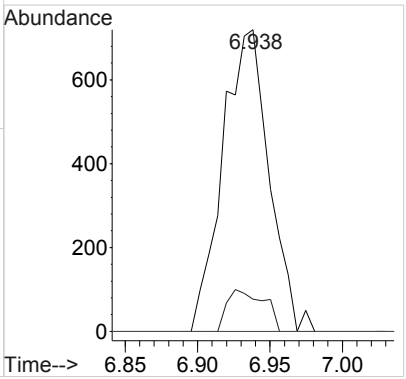
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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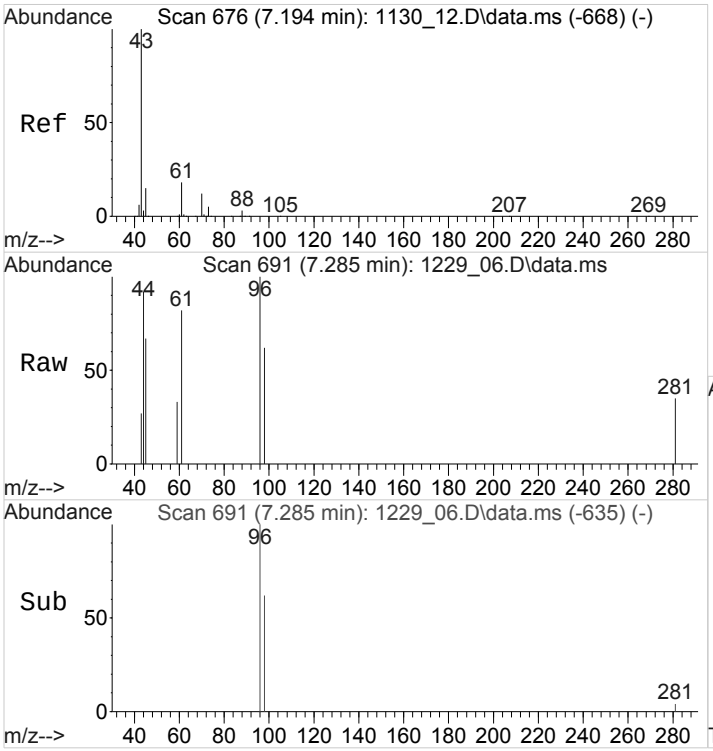


#37
ETHYL TERT-BUTYL ETHER
Concen: 0.0949083 ppbv
RT: 6.938 min Scan# 634
Delta R.T. -0.037 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 59 Resp: 1604

Ion	Ratio	Lower	Upper
59	100		
57	11.0	26.6	39.8#
87	0.0	30.4	45.6#

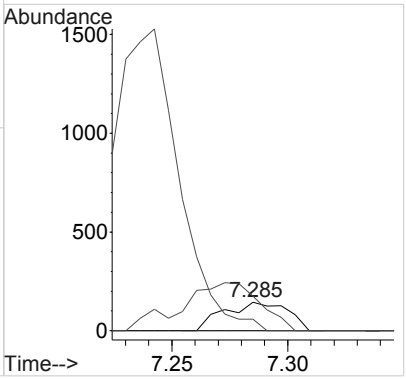




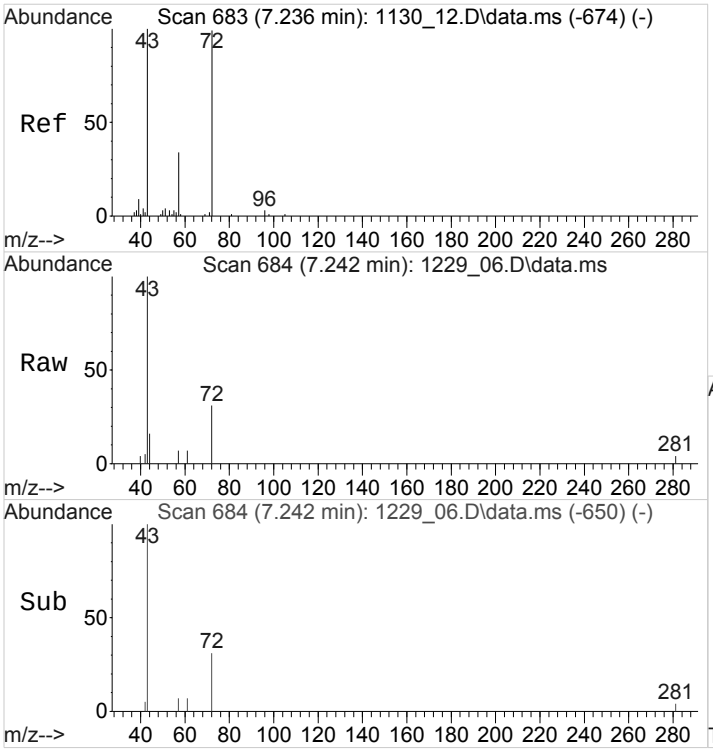
#38
ETHYL ACETATE
Concen: 0.1575116 ppbv
RT: 7.285 min Scan# 691
Delta R.T. 0.091 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 45 Resp: 277

Ion	Ratio	Lower	Upper
45	100		
70	0.0	60.5	90.7#
43	1384.1	543.4	815.0#
61	208.3	89.8	134.6#



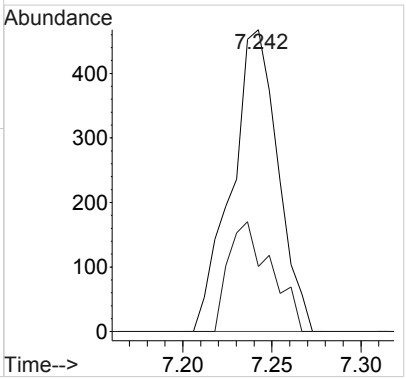
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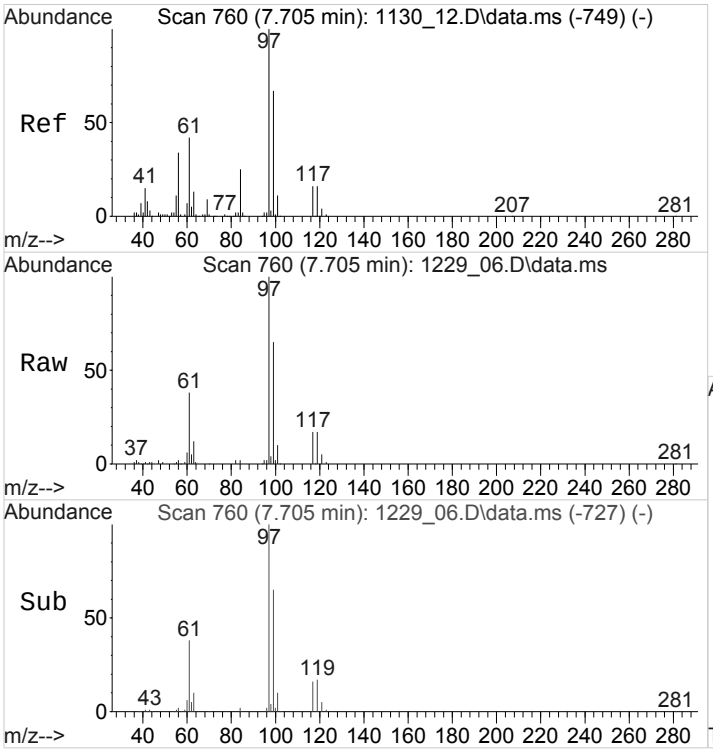


#39
2-Butanone (MEK)
Concen: 0.3261282 ppbv
RT: 7.242 min Scan# 684
Delta R.T. 0.006 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 72 Resp: 845

Ion	Ratio	Lower	Upper
72	100		
57	33.4	27.3	40.9

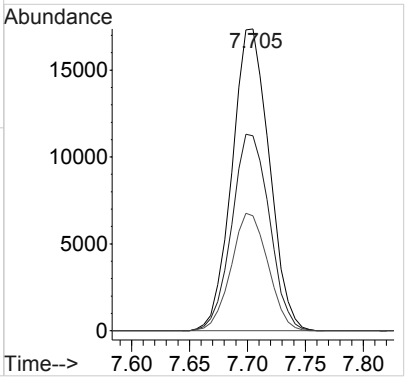




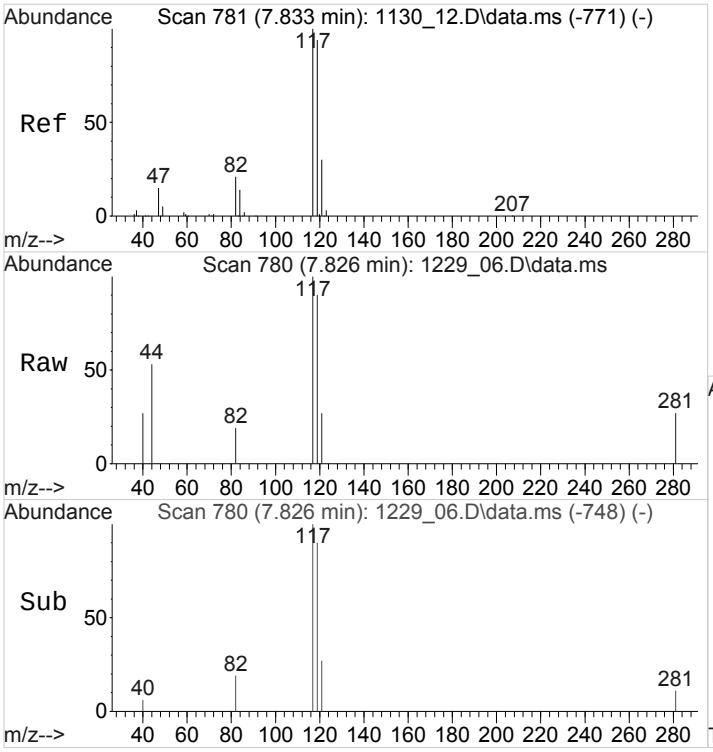
#44
1,1,1-Trichloroethane
Concen: 3.3847095 ppbv
RT: 7.705 min Scan# 760
Delta R.T. -0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 97 Resp: 38868

Ion	Ratio	Lower	Upper
97	100		
99	65.8	52.5	78.7
61	38.6	31.9	47.9



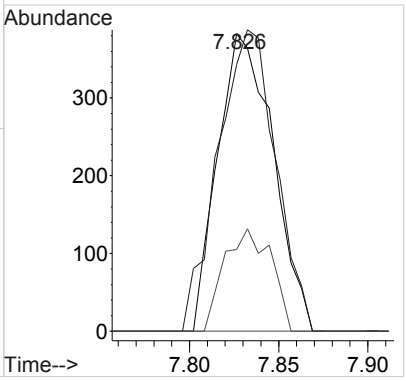
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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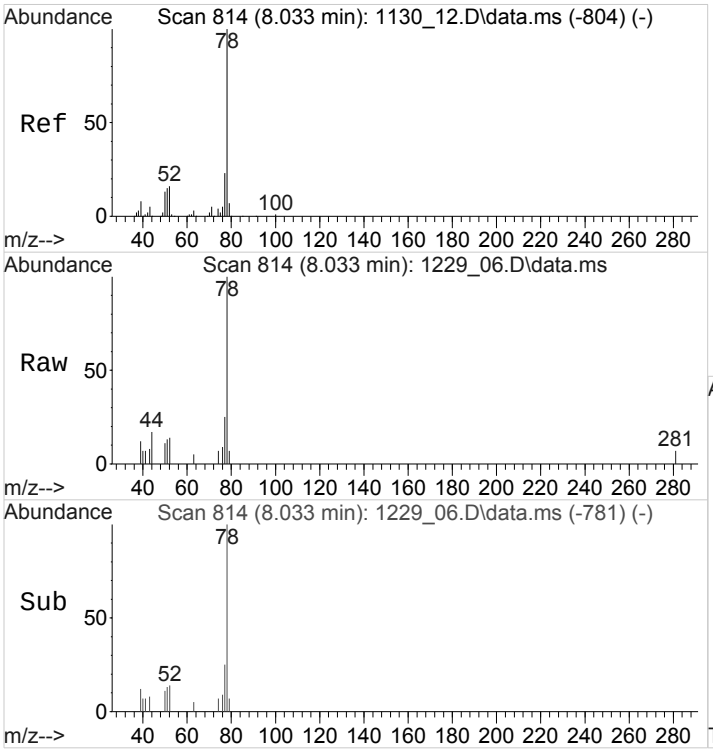


#45
Carbon Tetrachloride
Concen: 0.0673924 ppbv
RT: 7.826 min Scan# 780
Delta R.T. -0.006 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion:117 Resp: 825

Ion	Ratio	Lower	Upper
117	100		
119	105.6	77.3	115.9
121	29.2	25.0	37.4

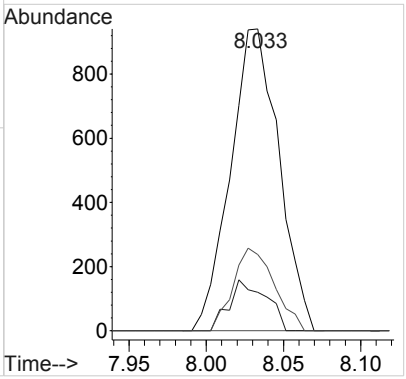




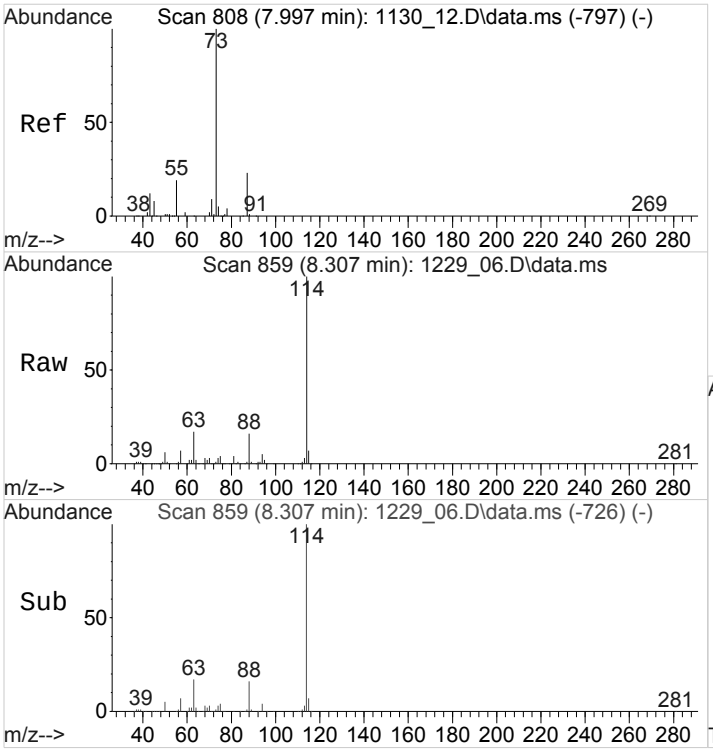
#48
Benzene
Concen: 0.1319995 ppbv
RT: 8.033 min Scan# 814
Delta R.T. -0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 78 Resp: 2052

Ion	Ratio	Lower	Upper
78	100		
51	13.0	12.1	18.1
77	23.3	18.8	28.2



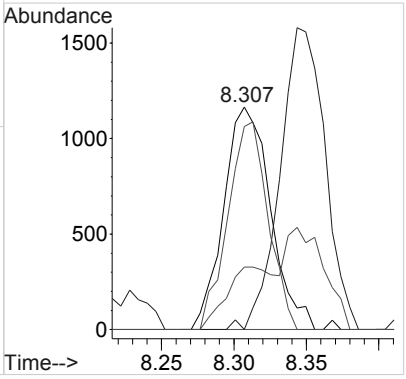
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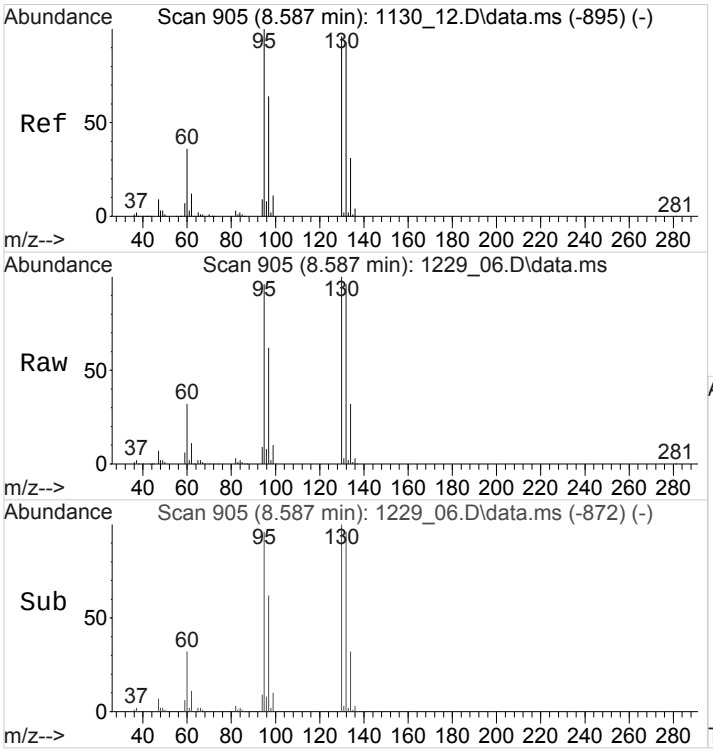


#49
TERT-AMYL METHYL ETHER
Concen: 0.1710467 ppbv
RT: 8.307 min Scan# 859
Delta R.T. 0.310 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 73 Resp: 2617

Ion	Ratio	Lower	Upper
73	100		
43	13.5	24.9	37.3#
55	26.2	18.8	28.2
87	80.1	18.6	28.0#

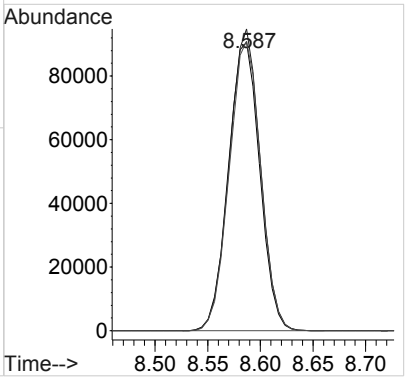




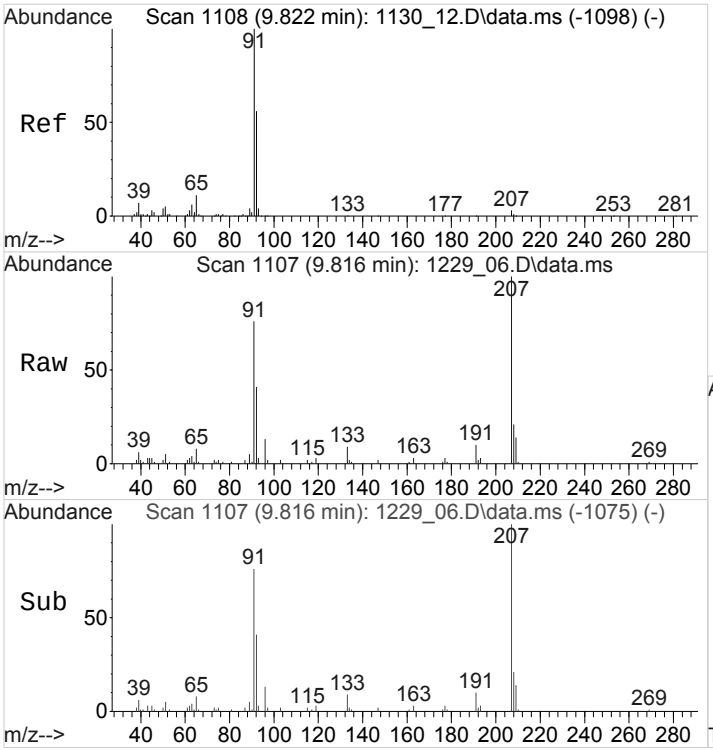
#52
Trichloroethene
Concen: 24.7941922 ppbv
RT: 8.587 min Scan# 905
Delta R.T. -0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 95 Resp: 188448

Ion	Ratio	Lower	Upper
95	100		
130	103.2	76.9	115.3
132	100.2	73.3	109.9



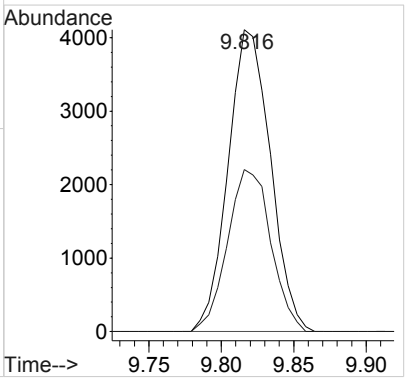
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BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	51 of 471

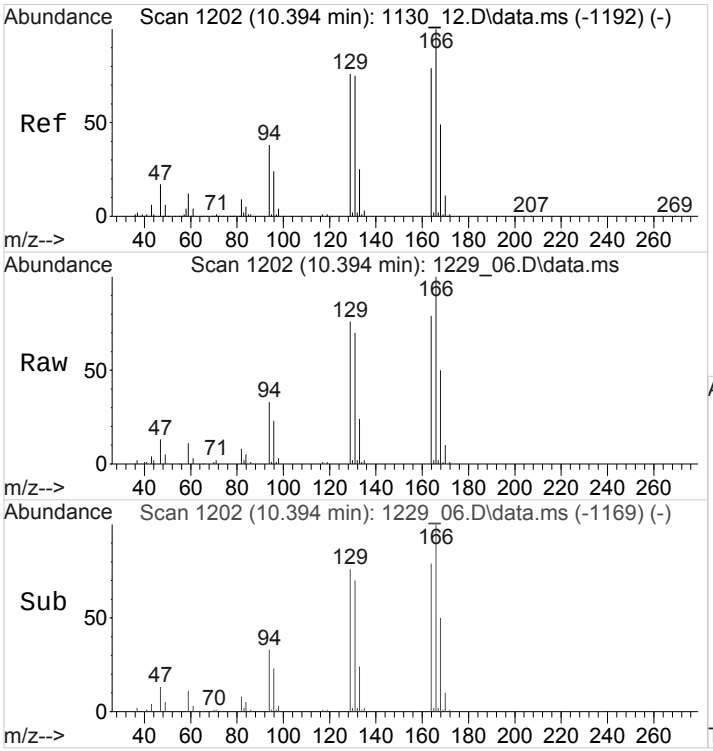


#62
Toluene
Concen: 0.4186779 ppbv
RT: 9.816 min Scan# 1107
Delta R.T. -0.006 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 91 Resp: 8341

Ion	Ratio	Lower	Upper
91	100		
92	54.8	44.1	66.1

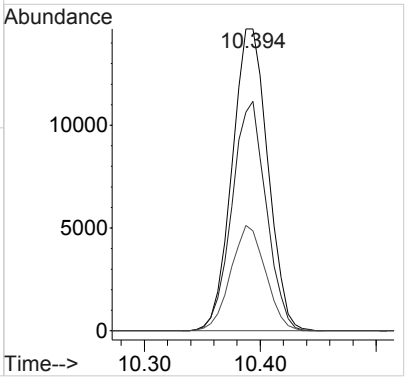




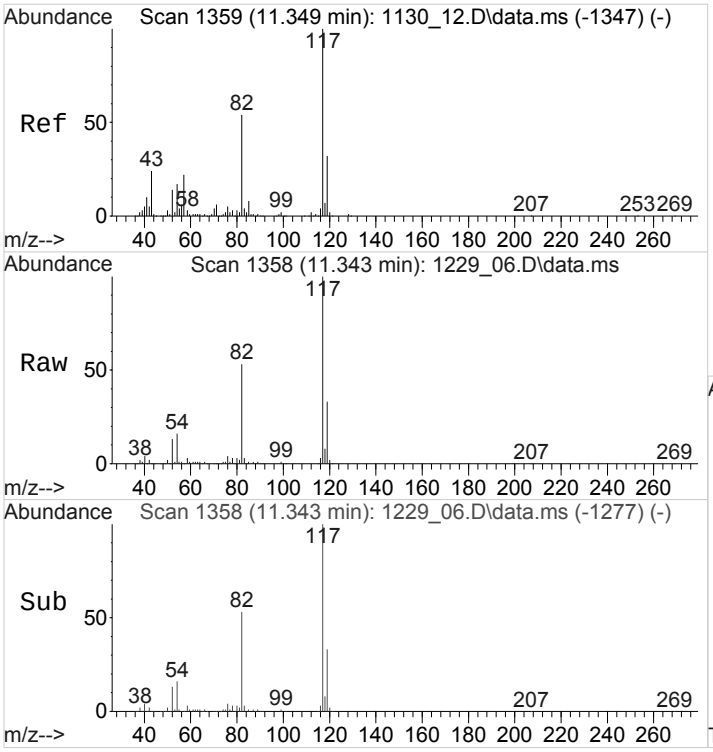
#65
Tetrachloroethene
Concen: 3.1712460 ppbv
RT: 10.394 min Scan# 1202
Delta R.T. -0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion:166 Resp: 31525

Ion	Ratio	Lower	Upper
166	100		
129	72.8	62.1	93.1
94	33.9	30.3	45.5



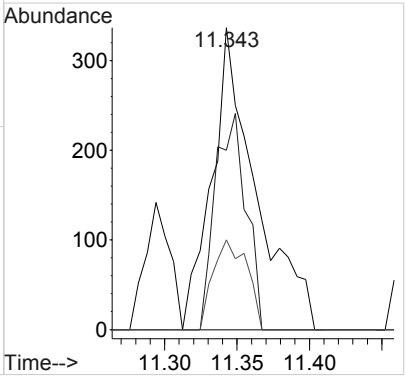
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	52 of 471

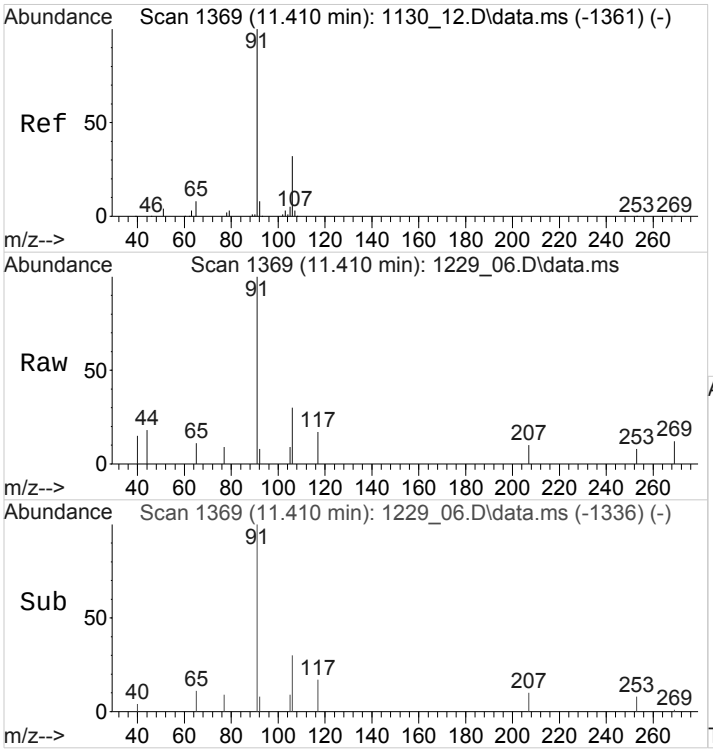


#70
NONANE
Concen: 0.0502768 ppbv
RT: 11.343 min Scan# 1358
Delta R.T. -0.006 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 43 Resp: 714

Ion	Ratio	Lower	Upper
43	100		
57	50.1	74.6	112.0#
71	22.7	20.0	30.0
128	0.0	1.9	2.9#

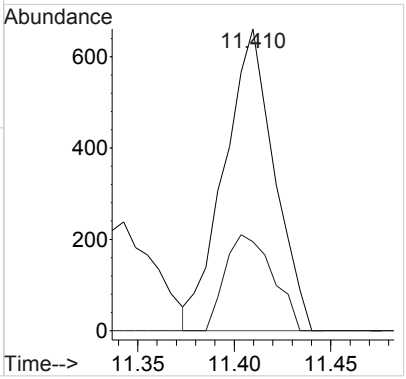




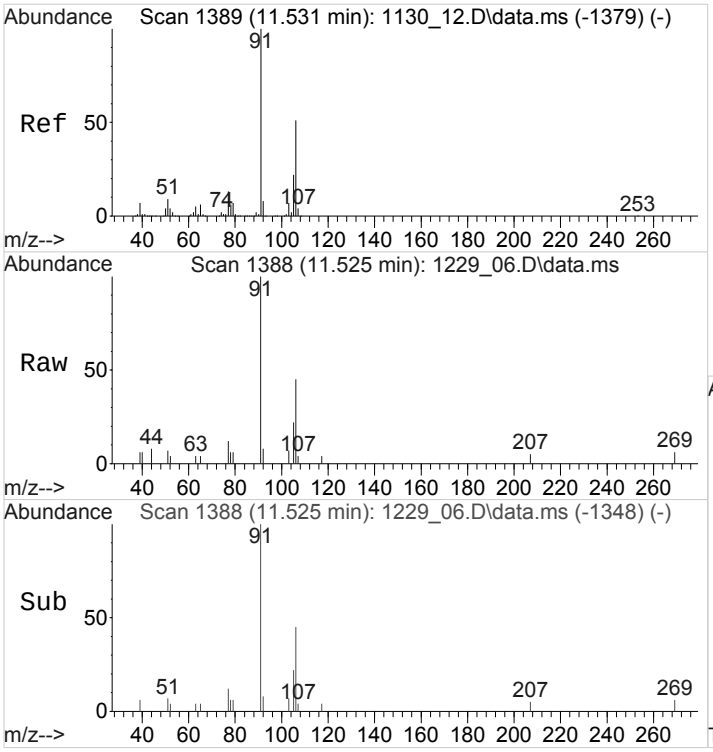
#72
Ethylbenzene
Concen: 0.0522674 ppbv
RT: 11.410 min Scan# 1369
Delta R.T. -0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 91 Resp: 1188

Ion	Ratio	Lower	Upper
91	100		
106	30.5	25.6	38.4



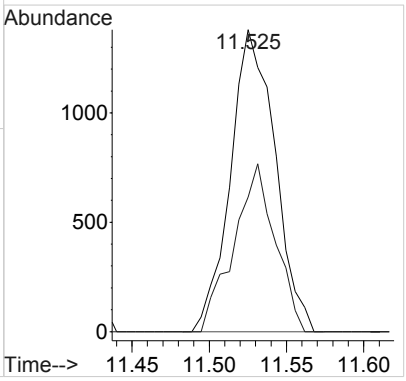
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	53 of 471

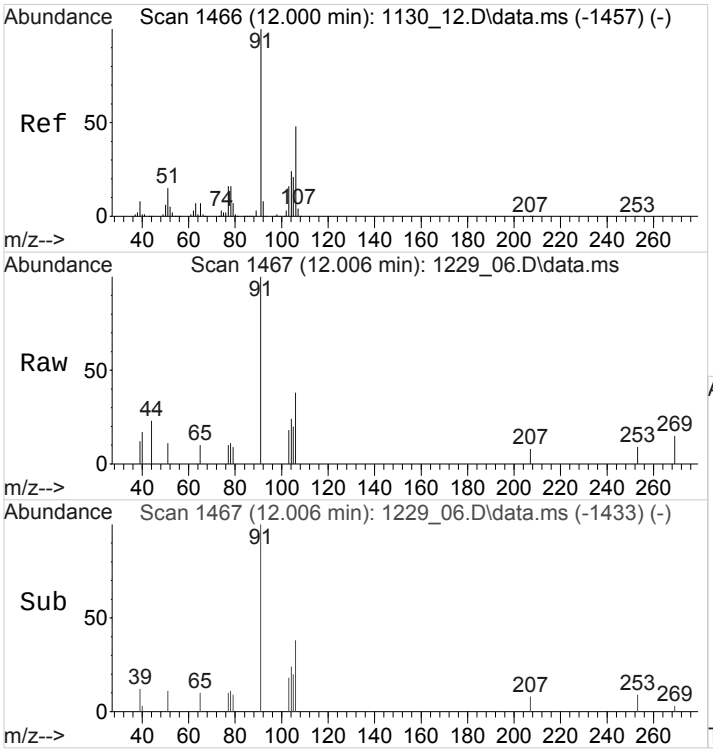


#73
M&P-Xylene
Concen: 0.1553941 ppbv
RT: 11.525 min Scan# 1388
Delta R.T. -0.006 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 91 Resp: 2768

Ion	Ratio	Lower	Upper
91	100		
106	51.6	39.7	59.5

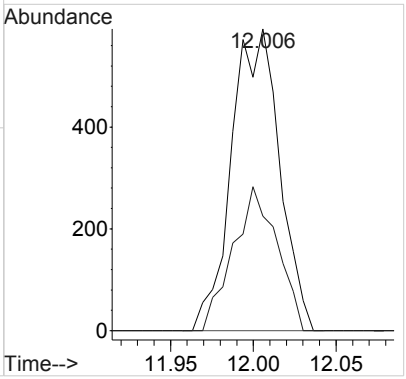




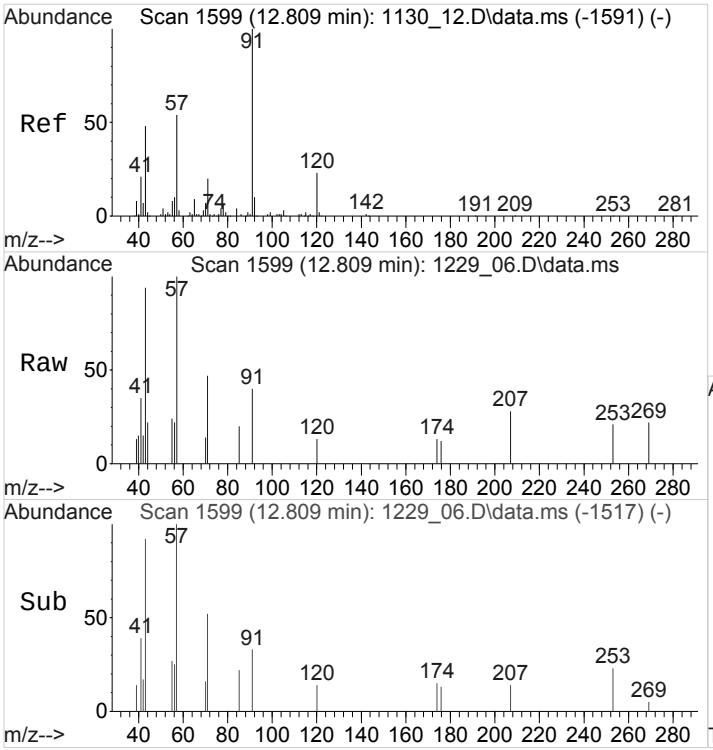
#74
O-Xylene
Concen: 0.0636047 ppbv
RT: 12.006 min Scan# 1467
Delta R.T. 0.006 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 91 Resp: 1195

Ion	Ratio	Lower	Upper
91	100		
106	43.8	38.4	57.6



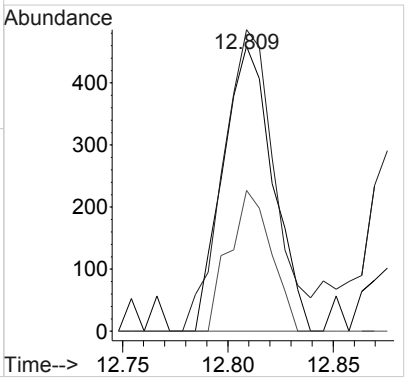
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	54 of 471

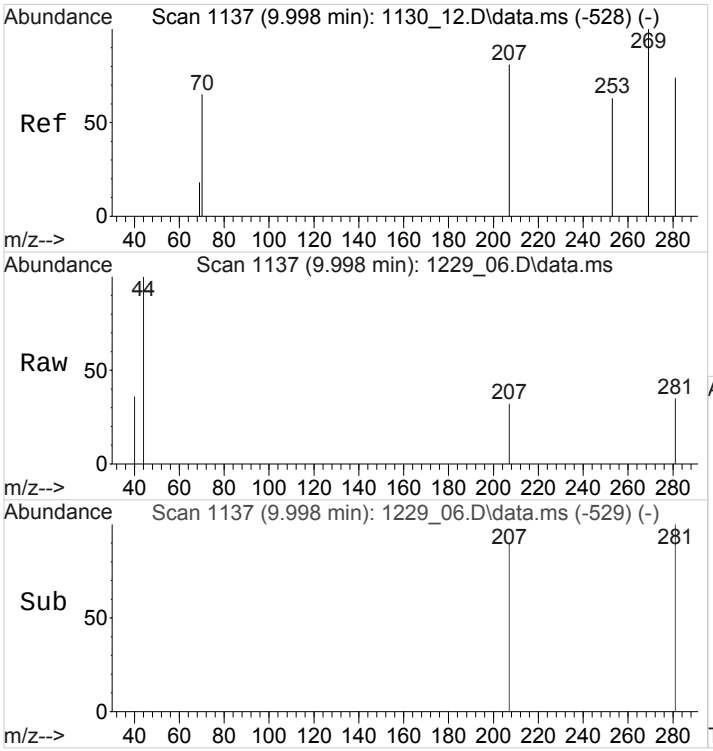


#80
n-DECANE
Concen: 0.0638676 ppbv
RT: 12.809 min Scan# 1599
Delta R.T. -0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion: 43 Resp: 760

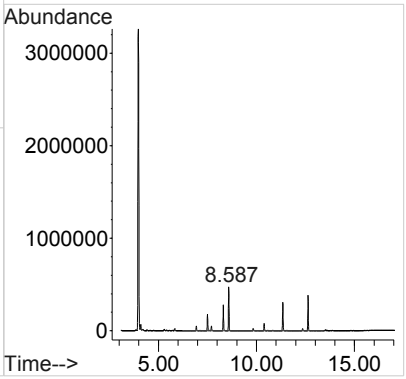
Ion	Ratio	Lower	Upper
43	100		
57	109.1	89.7	134.5
71	41.6	34.1	51.1



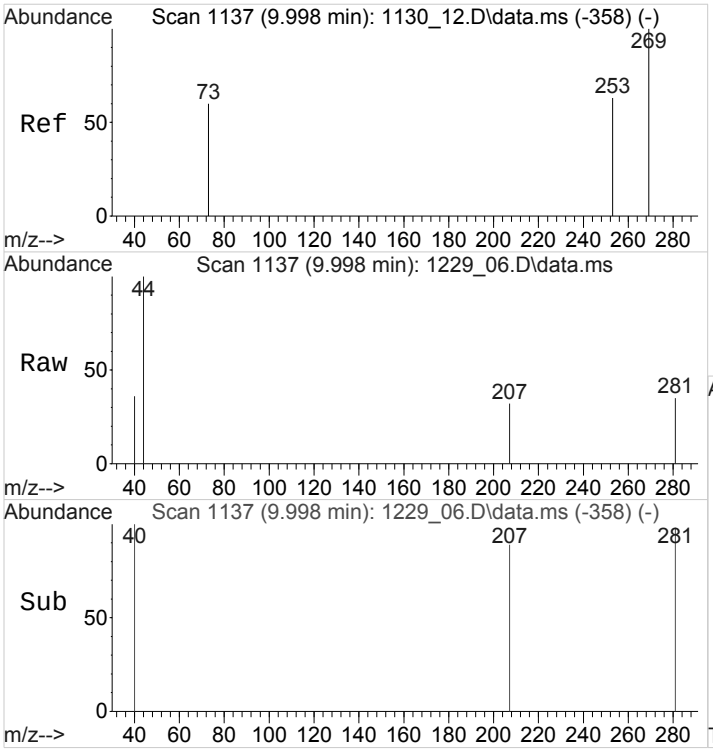


#101
TPH (GC/MS) Low Fraction
Concen: 49.0526628 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion:TIC Resp: 1730645

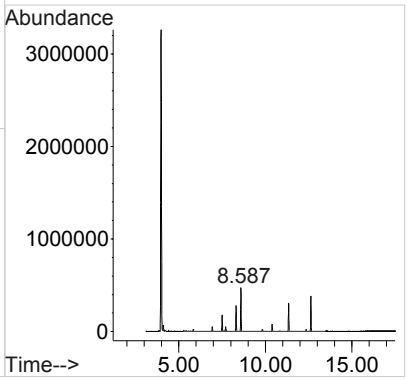


ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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#102
TPH-GRO (C5-C10)
Concen: 66.0338362 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_06.D
Acq: 29 Dec 2022 2:24 pm

Tgt Ion:TIC Resp: 1966174



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	56 of 471

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570570-03	**SDG:**	L1570570
Client Sample ID:	774-VMP-2_1222	**Collected Date/Time:**	12/21/22 08:22
Lab File ID:	1229_07	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 15:08
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 15:08
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.81	47.3		1.39	2.85	5.70
Benzene	71-43-2	8.04	0.489	J	0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	7.83	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	0.603	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	11.41	0.867	U	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	0	0.982	U	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	78.1		0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.23	2.26	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	0	1.53	U	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	0	0.694	U	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.23	3.86		0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	9.57	0.483	J	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	10.39	1.45	J	0.553	1.36	2.72
Toluene	108-88-3	0	0.942	U	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570570-03	**SDG:**	L1570570
Client Sample ID:	774-VMP-2_1222	**Collected Date/Time:**	12/21/22 08:22
Lab File ID:	1229_07	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 15:08
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 15:08
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	7.70	5.36		0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.58	37.7		0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	13.31	0.451	J	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	0.681	J	0.585	1.30	2.60
o-Xylene	95-47-6	12	0.759	U	0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_07.D
Acq On : 29 Dec 2022 3:08 pm
Operator :
Sample : L1570570-03 1x WG1980894
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 31 07:15:04 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

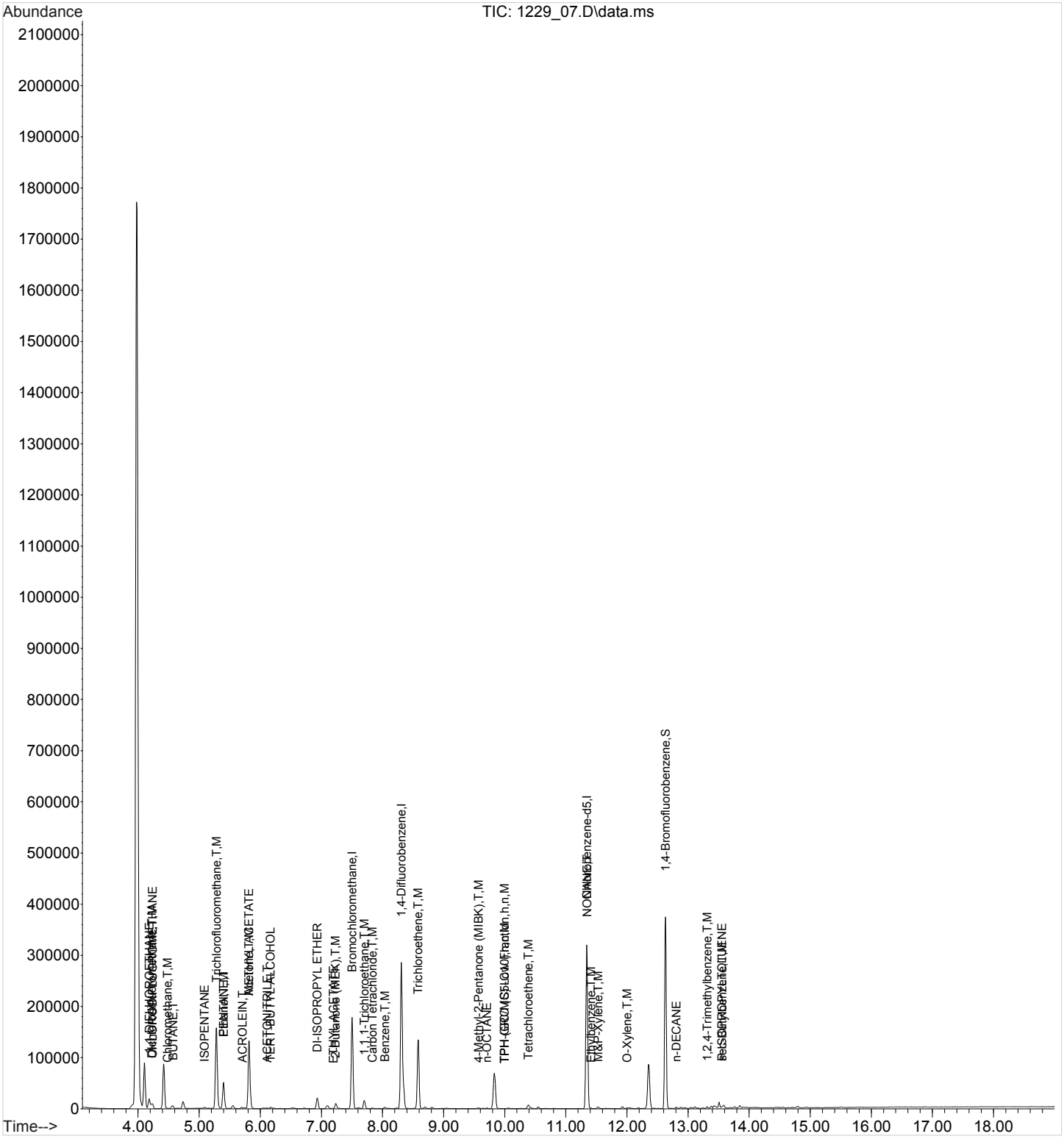
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	77795	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.307	114	278287	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	239400	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	141275	3.4585702	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 86.46%				
Target Compounds							Qvalue
3) BUTANE	4.572	43	3285	0.4601750	ppbv		97
4) 1,1-DIFLUOROETHANE	4.182	51	12717	2.0731220	ppbv		93
5) Dichlorodifluoromethane	4.225	85	6017	0.4558595	ppbv		100
6) CHLORODIFLUOROMETHANE	4.237	51	9273	1.2464216	ppbv		99
8) Chloromethane	4.481	50	1387	0.2923118	ppbv		96
13) ISOPENTANE	5.089	43	1032	0.2092978	ppbv	#	89
15) Trichlorofluoromethane	5.284	101	153866	13.9255166	ppbv		99
16) PENTANE	5.399	43	12419	1.2244825	ppbv	#	67
17) Ethanol	5.399	45	67389	26.9840950	ppbv		98
18) ACROLEIN	5.709	56	562	0.2424230	ppbv		99
21) Acetone	5.813	43	169701	19.8788784	ppbv	#	86
26) METHYL ACETATE	5.813	43	169701	17.8926561	ppbv	#	54
27) ACETONITRILE	6.111	41	958	0.1815979	ppbv	#	88
29) TERT-BUTYL ALCOHOL	6.166	59	3607	0.3634750	ppbv	#	1
36) DI-ISOPROPYL ETHER	6.932	45	3823	0.2379701	ppbv	#	59
38) ETHYL ACETATE	7.194	45	101	0.0570105	ppbv	#	1
39) 2-Butanone (MEK)	7.230	72	3409	1.3060485	ppbv		94
44) 1,1,1-Trichloroethane	7.705	97	11409	0.9862282	ppbv		99
45) Carbon Tetrachloride	7.833	117	845	0.0685195	ppbv		95
48) Benzene	8.039	78	2397	0.1526865	ppbv		96
52) Trichloroethene	8.581	95	54020	7.0380193	ppbv		92
60) 4-Methyl-2-Pentanone (...	9.573	43	1326	0.1183862	ppbv	#	85
61) n-OCTANE	9.706	43	1058	0.0780866	ppbv	#	78
65) Tetrachloroethene	10.388	166	2139	0.2130704	ppbv		98
70) NONANE	11.349	43	1442	0.1005478	ppbv	#	48
72) Ethylbenzene	11.410	91	1311	0.0571946	ppbv		92
73) M&P-Xylene	11.525	91	2828	0.1574295	ppbv		99
74) O-Xylene	12.000	91	1230	0.0649179	ppbv		99
80) n-DECANE	12.809	43	1089	0.0907471	ppbv		87
88) 1,2,4-Trimethylbenzene	13.314	105	1757	0.0917589	ppbv		100
89) sec-Butylbenzene	13.557	134	441	0.0795540	ppbv		82
91) P-ISOPROPYLTOLUENE	13.551	119	1585	0.0711763	ppbv		94
101) TPH (GC/MS) Low Fraction	10.000	TIC	1236937m	34.7648375	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	2024273m	67.4142576	ppbv		

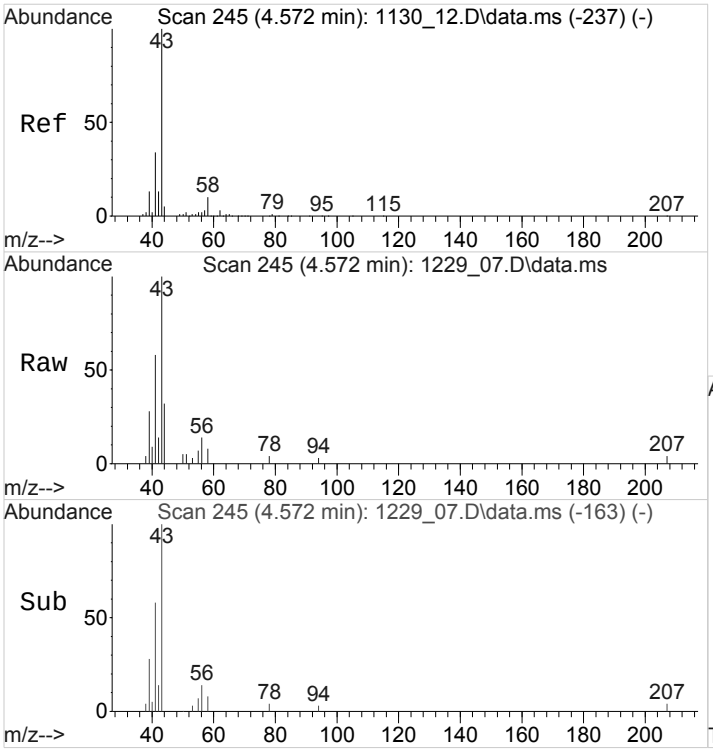
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_07.D
Acq On : 29 Dec 2022 3:08 pm
Operator :
Sample : L1570570-03 1x WG1980894
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 31 07:15:04 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

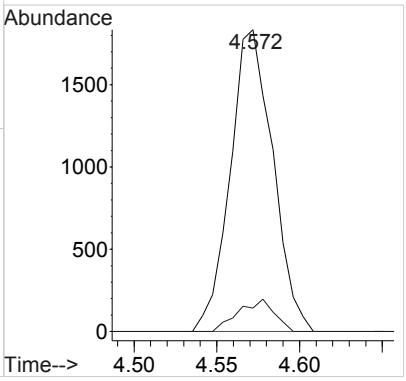


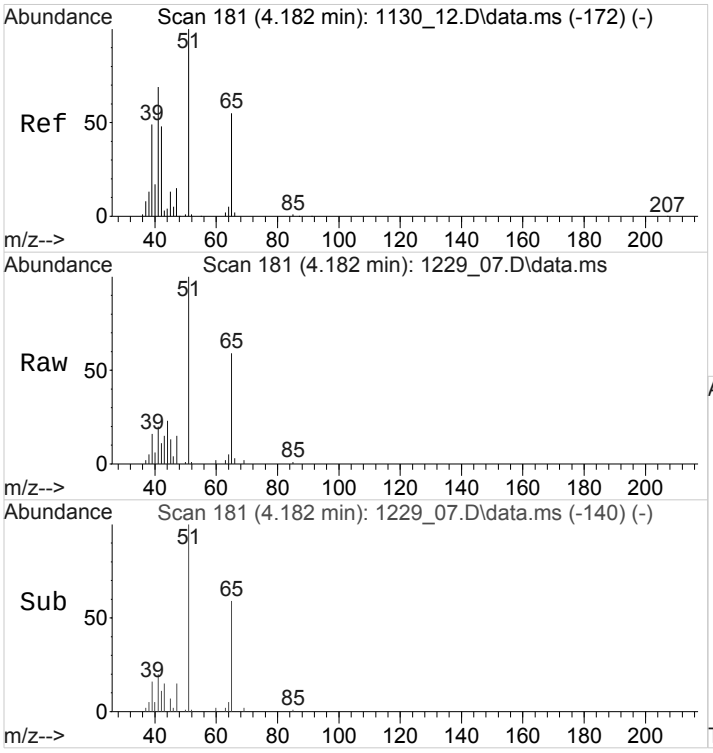


#3
BUTANE
Concen: 0.4601750 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 43 Resp: 3285

Ion	Ratio	Lower	Upper
43	100		
58	9.0	8.0	12.0

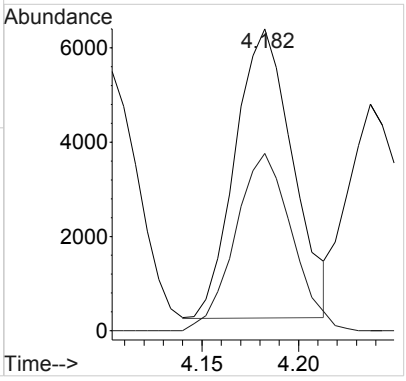




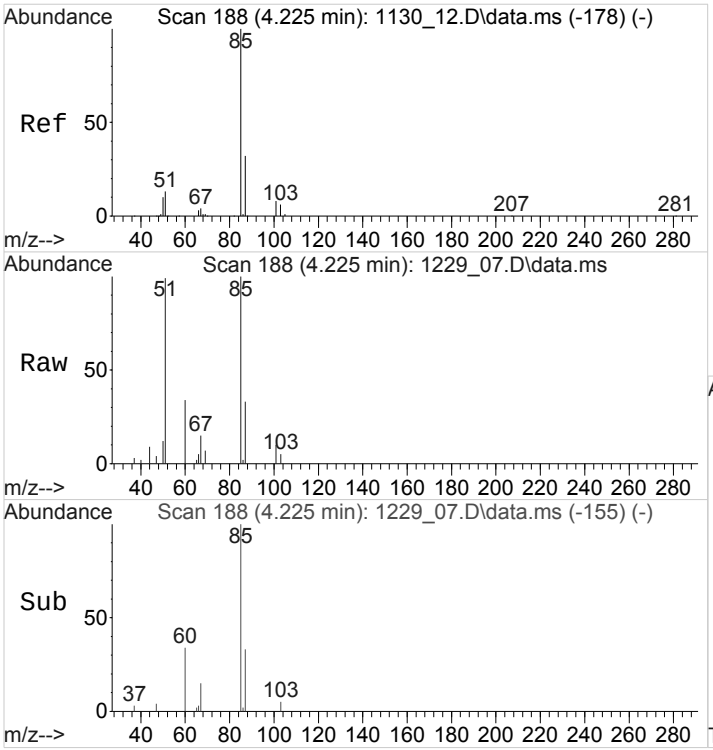
#4
1,1-DIFLUOROETHANE
Concen: 2.0731220 ppbv
RT: 4.182 min Scan# 181
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 51 Resp: 12717

Ion	Ratio	Lower	Upper
51	100		
65	60.2	44.1	66.1



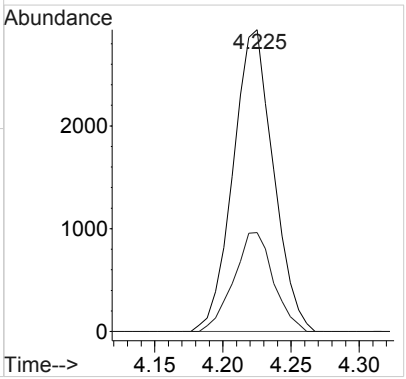
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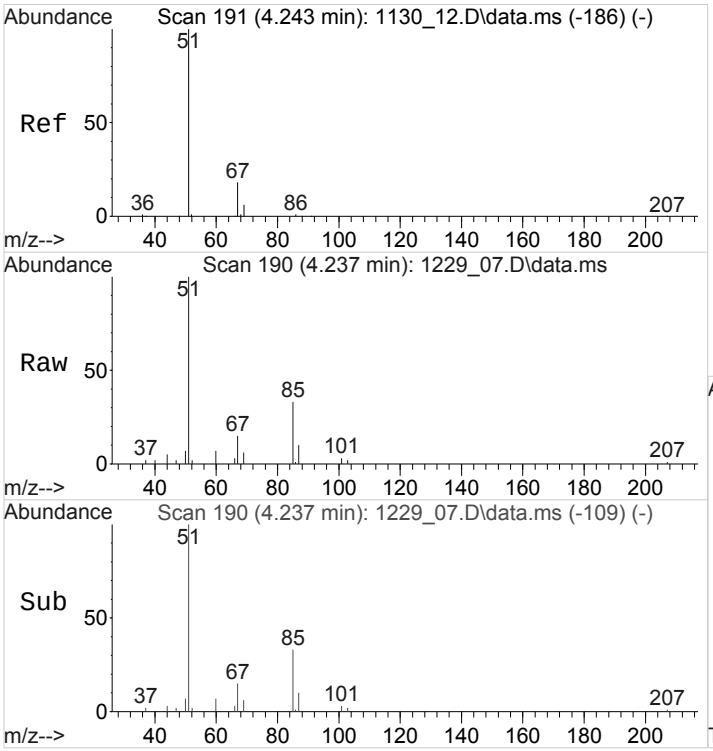


#5
Dichlorodifluoromethane
Concen: 0.4558595 ppbv
RT: 4.225 min Scan# 188
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 85 Resp: 6017

Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.8	38.6

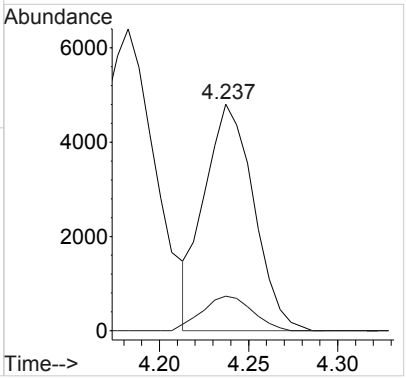




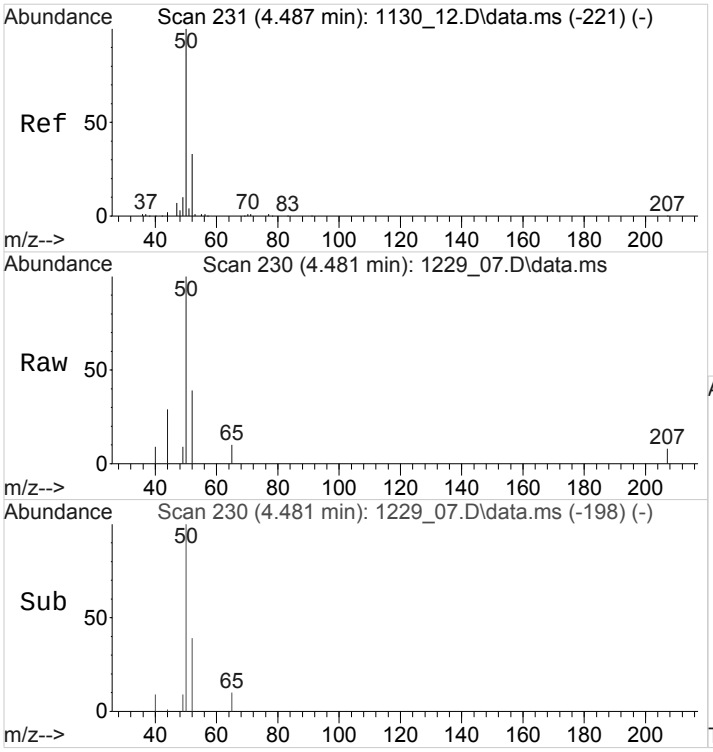
#6
CHLORODIFLUOROMETHANE
Concen: 1.2464216 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 51 Resp: 9273

Ion	Ratio	Lower	Upper
51	100		
67	15.6	13.0	19.4



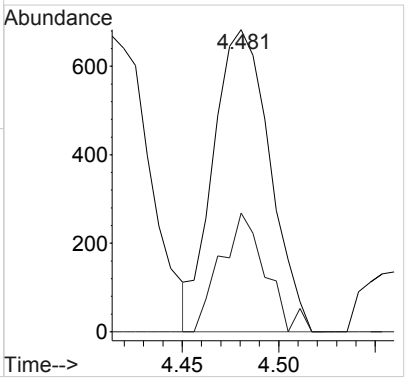
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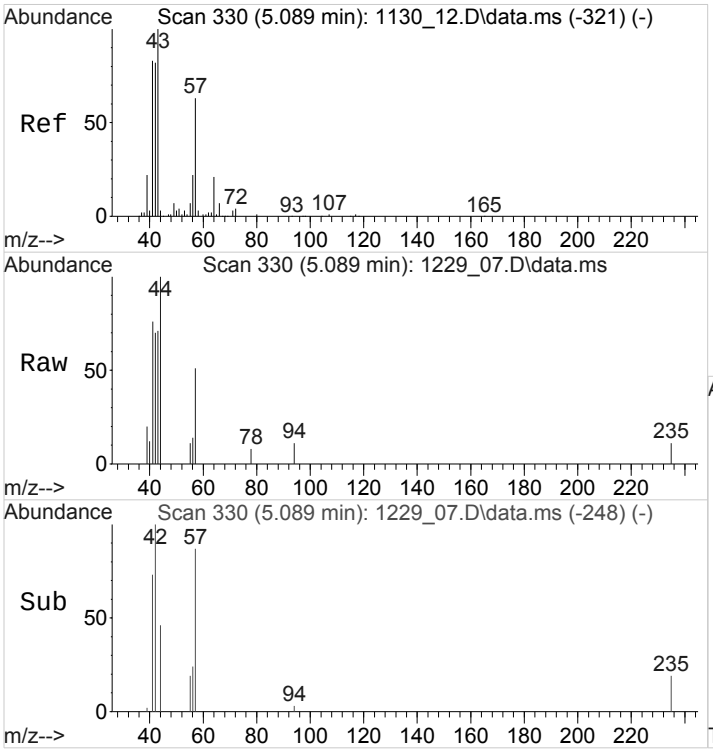


#8
Chloromethane
Concen: 0.2923118 ppbv
RT: 4.481 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 50 Resp: 1387

Ion	Ratio	Lower	Upper
50	100		
52	31.4	27.1	40.7

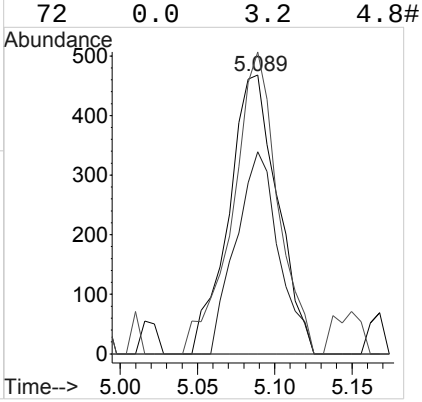




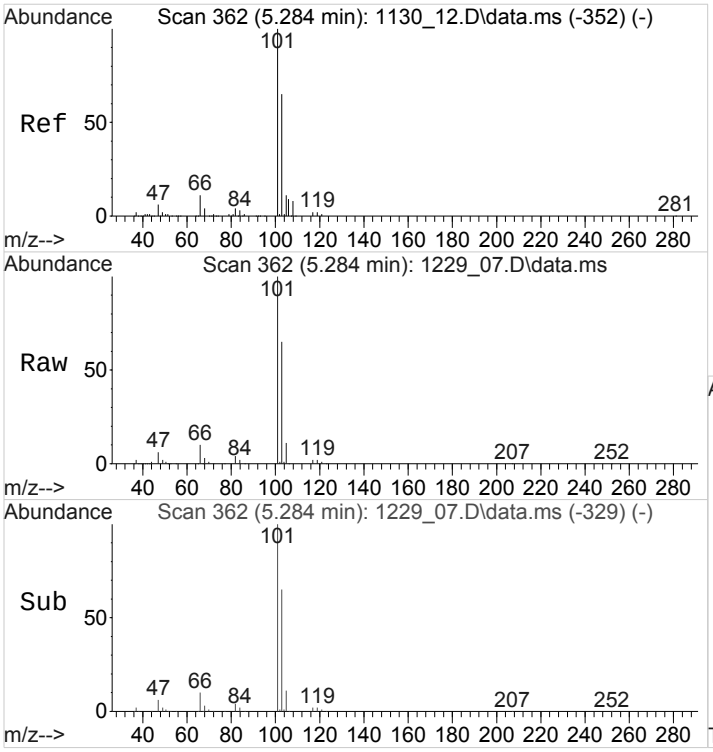
#13
ISOPENTANE
Concen: 0.2092978 ppbv
RT: 5.089 min Scan# 330
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 43 Resp: 1032

Ion	Ratio	Lower	Upper
43	100		
57	63.8	51.7	77.5
41	100.4	66.4	99.6#
72	0.0	3.2	4.8#



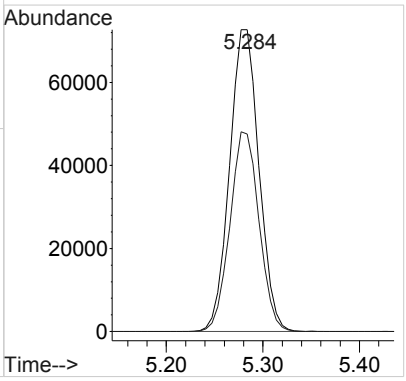
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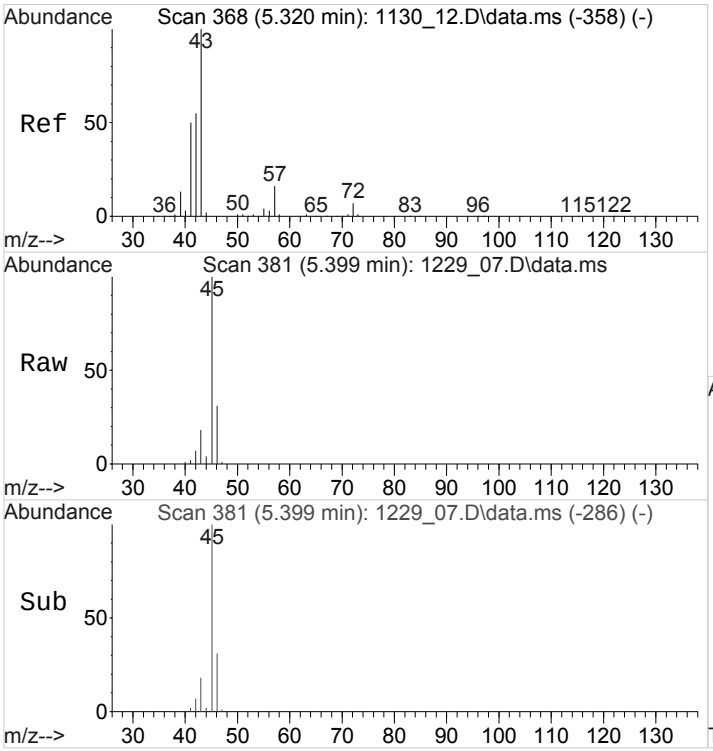


#15
Trichlorofluoromethane
Concen: 13.9255166 ppbv
RT: 5.284 min Scan# 362
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion:101 Resp: 153866

Ion	Ratio	Lower	Upper
101	100		
103	65.6	52.8	79.2

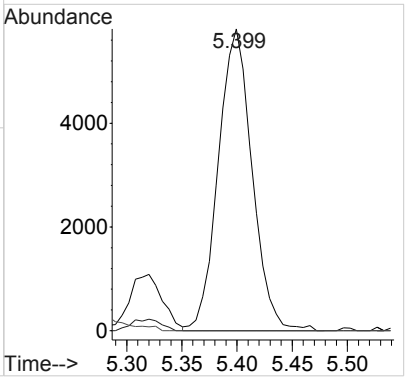




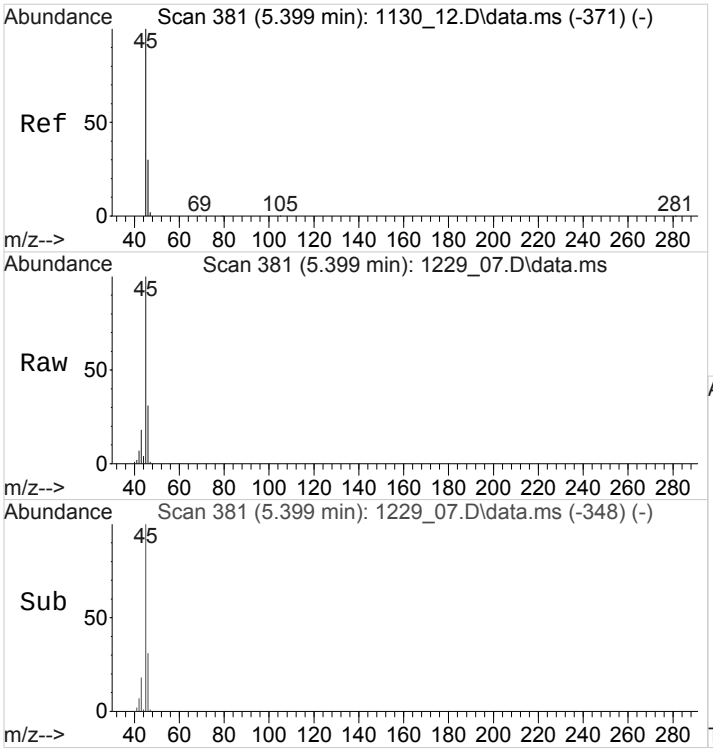
#16
PENTANE
Concen: 1.2244825 ppbv
RT: 5.399 min Scan# 381
Delta R.T. 0.079 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 43 Resp: 12419

Ion	Ratio	Lower	Upper
43	100		
57	0.0	13.0	19.4#
72	0.0	5.8	8.8#



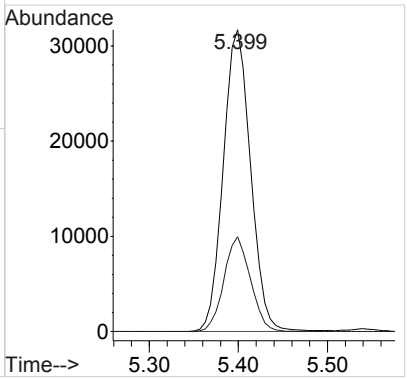
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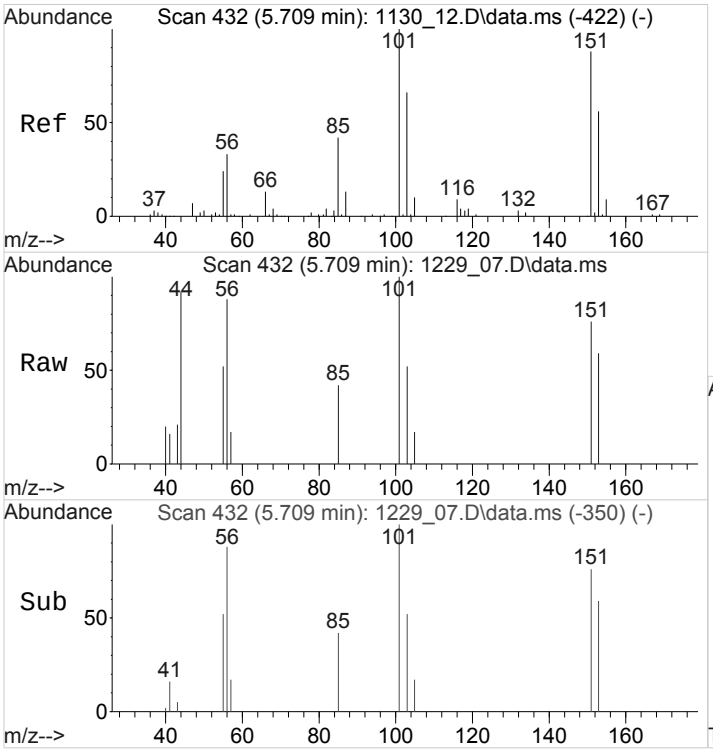


#17
Ethanol
Concen: 26.9840950 ppbv
RT: 5.399 min Scan# 381
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 45 Resp: 67389

Ion	Ratio	Lower	Upper
45	100		
46	30.4	23.6	35.4

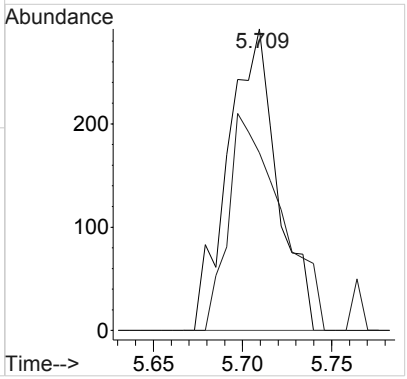




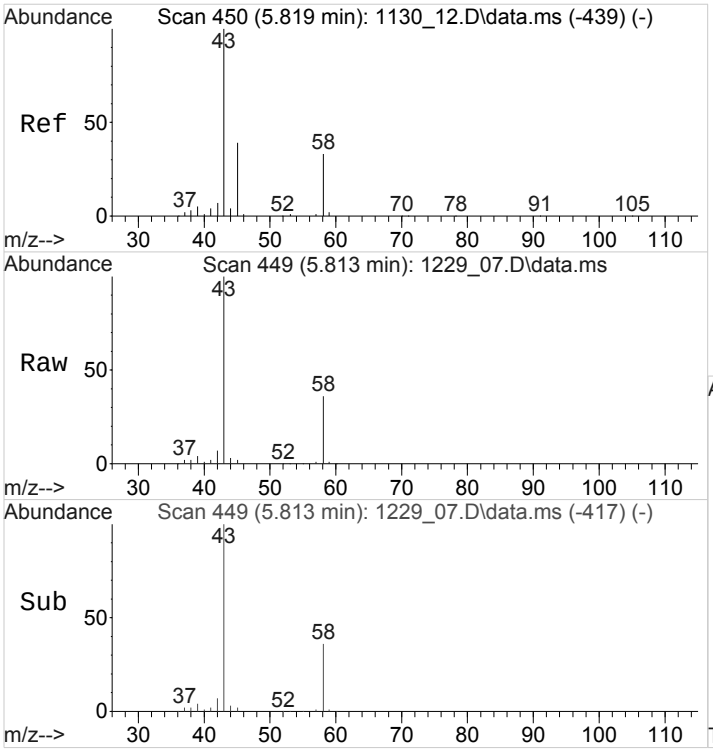
#18
ACROLEIN
Concen: 0.2424230 ppbv
RT: 5.709 min Scan# 432
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 56 Resp: 562

Ion	Ratio	Lower	Upper
56	100		
55	76.7	60.4	90.6



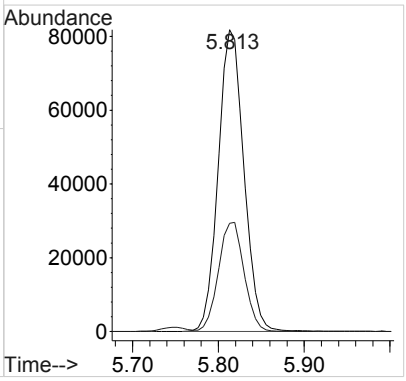
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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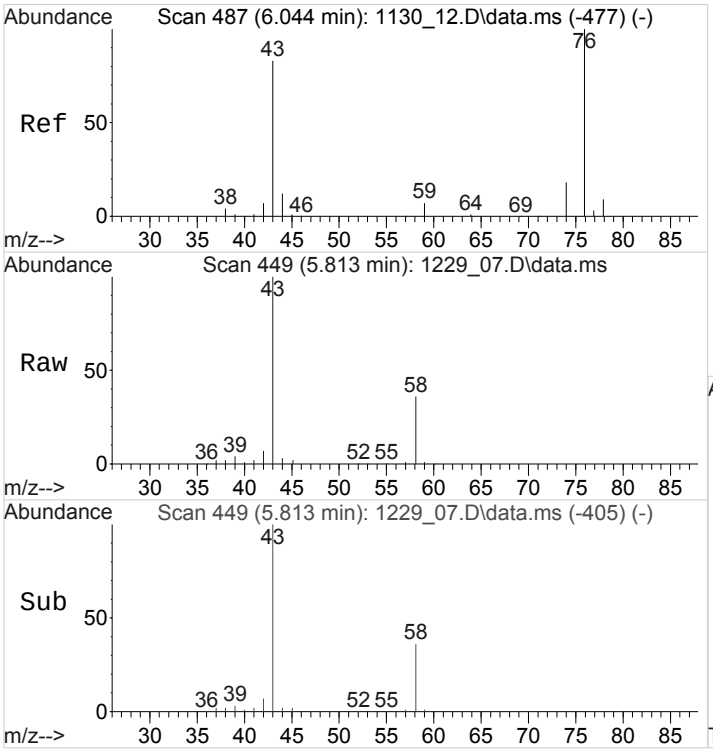


#21
Acetone
Concen: 19.8788784 ppbv
RT: 5.813 min Scan# 449
Delta R.T. -0.006 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 43 Resp: 169701

Ion	Ratio	Lower	Upper
43	100		
58	36.2	23.1	34.7#

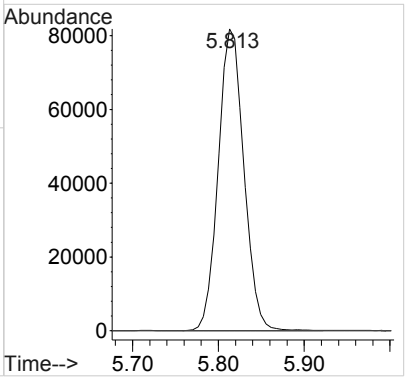




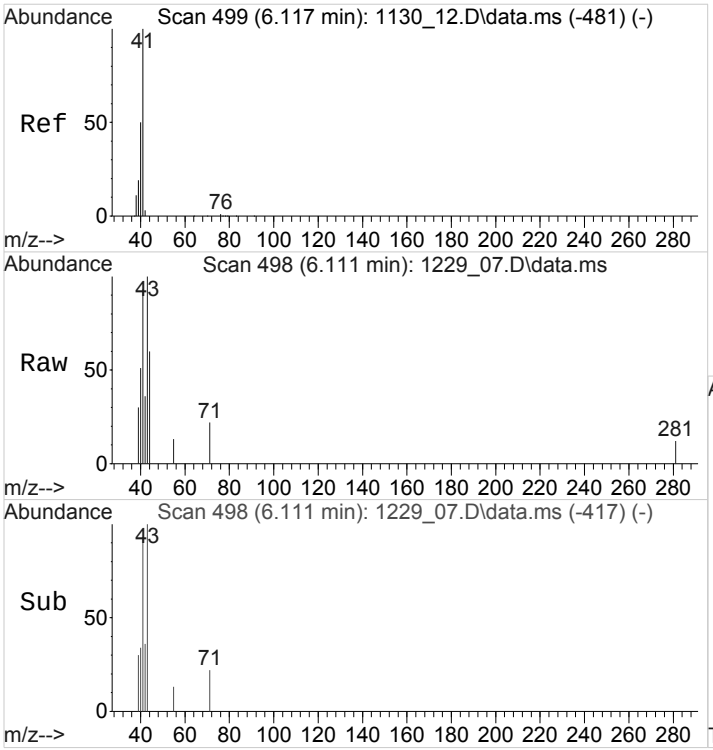
#26
METHYL ACETATE
Concen: 17.8926561 ppbv
RT: 5.813 min Scan# 449
Delta R.T. -0.231 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 43 Resp: 169701

Ion	Ratio	Lower	Upper
43	100		
74	0.0	17.4	26.0#
29	0.0	0.0	0.0



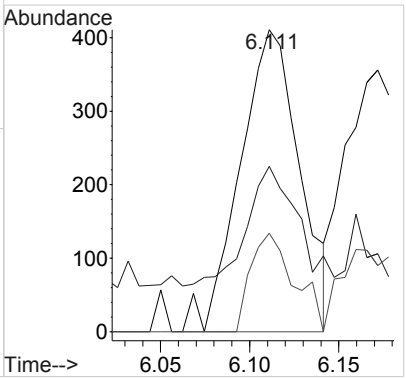
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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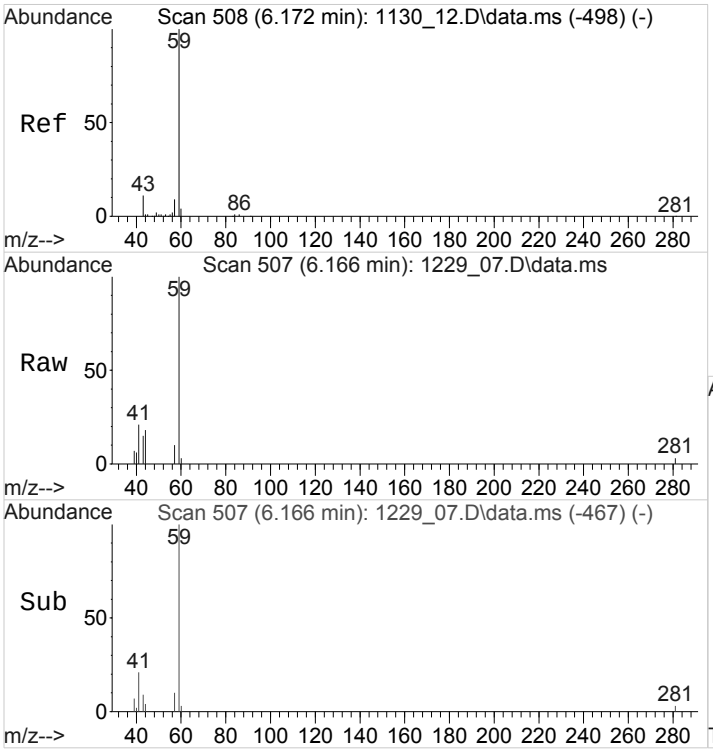


#27
ACETONITRILE
Concen: 0.1815979 ppbv
RT: 6.111 min Scan# 498
Delta R.T. -0.006 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 41 Resp: 958

Ion	Ratio	Lower	Upper
41	100		
40	32.2	32.7	49.1#
39	23.7	22.7	34.1

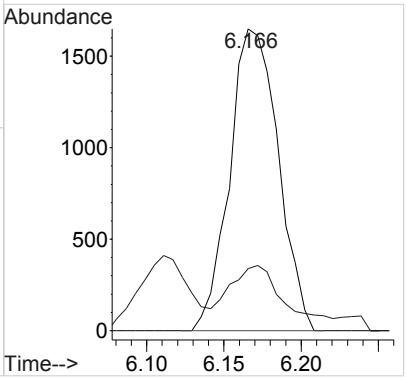


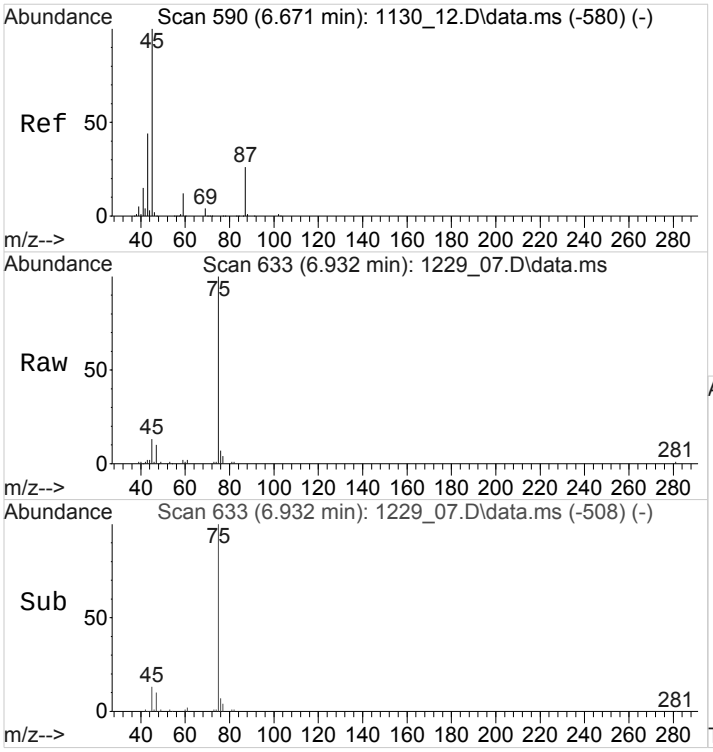


#29
TERT-BUTYL ALCOHOL
Concen: 0.3634750 ppbv
RT: 6.166 min Scan# 507
Delta R.T. -0.006 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 59 Resp: 3607

Ion	Ratio	Lower	Upper
59	100		
41	18.4	216.4	324.6#

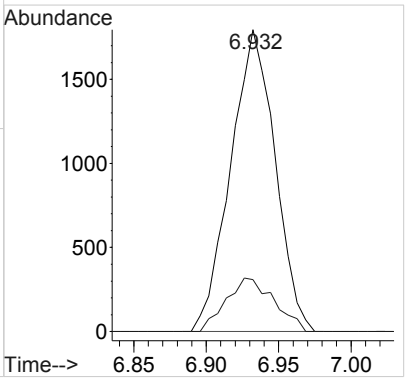


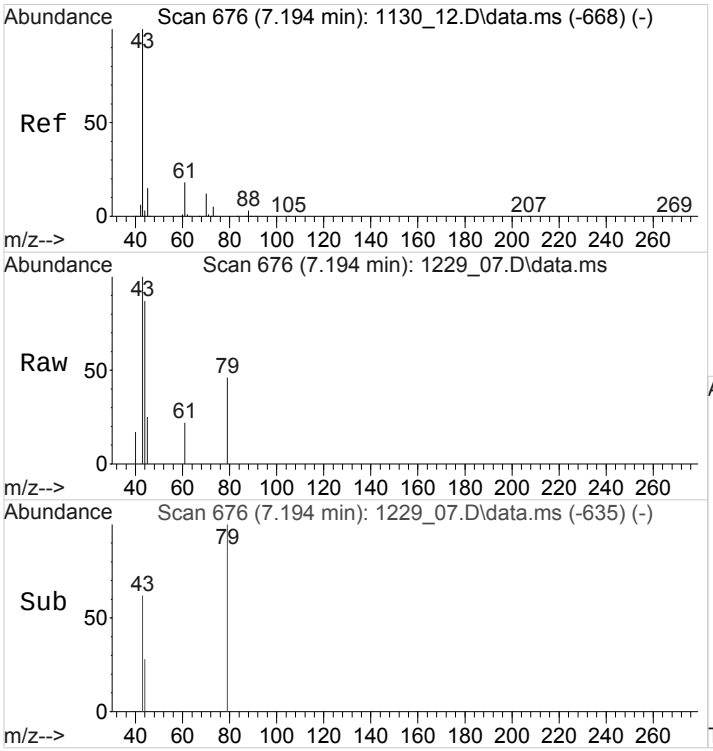


#36
DI-ISOPROPYL ETHER
Concen: 0.2379701 ppbv
RT: 6.932 min Scan# 633
Delta R.T. 0.262 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 45 Resp: 3823

Ion	Ratio	Lower	Upper
45	100		
43	19.1	36.7	55.1#

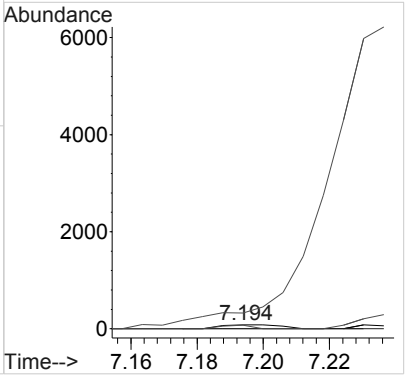




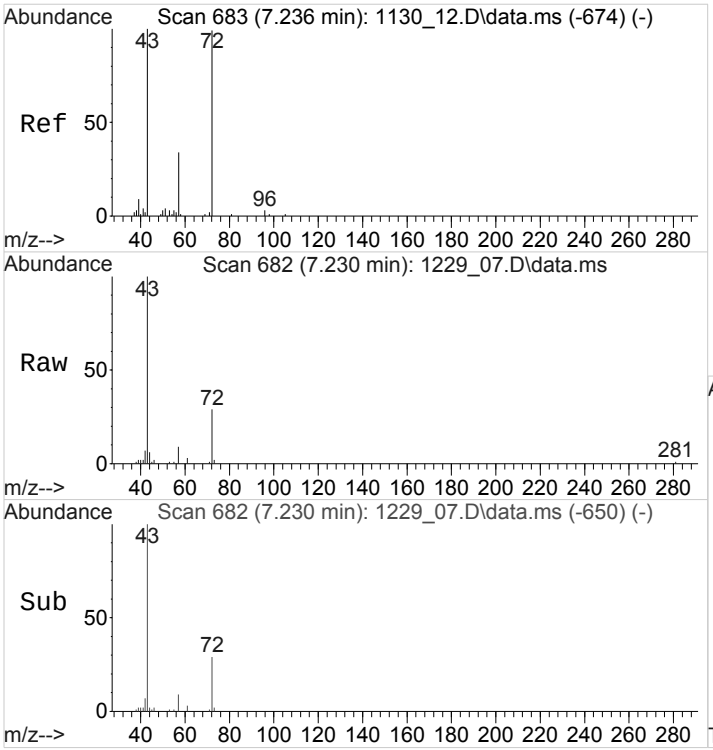
#38
ETHYL ACETATE
Concen: 0.0570105 ppbv
RT: 7.194 min Scan# 676
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 45 Resp: 101

Ion	Ratio	Lower	Upper
45	100		
70	0.0	60.5	90.7#
43	0.0	543.4	815.0#
61	45.5	89.8	134.6#



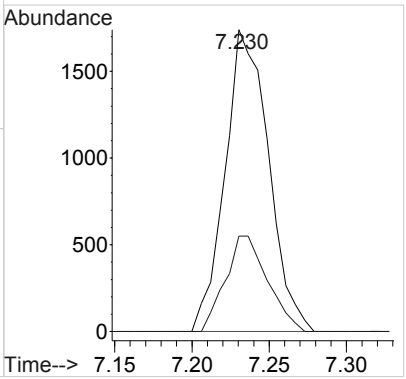
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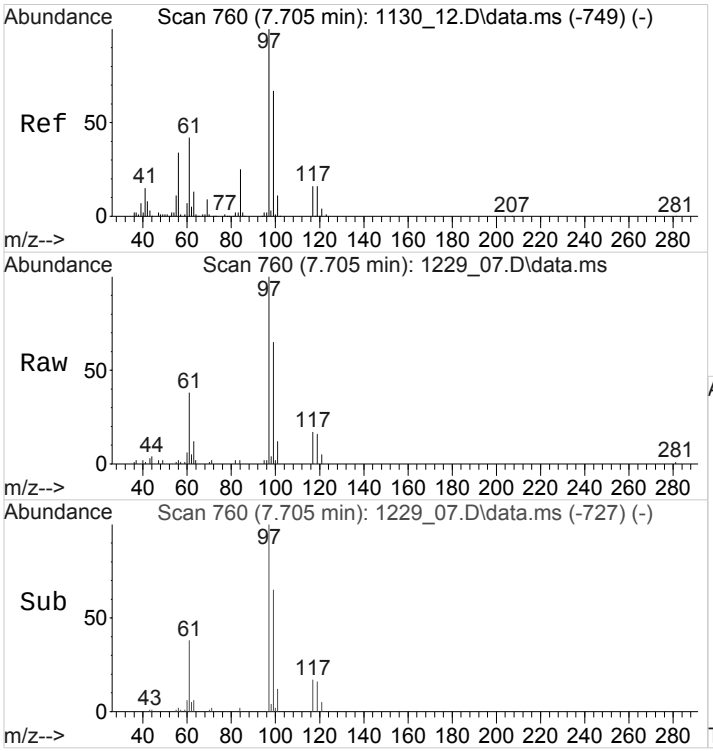


#39
2-Butanone (MEK)
Concen: 1.3060485 ppbv
RT: 7.230 min Scan# 682
Delta R.T. -0.006 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 72 Resp: 3409

Ion	Ratio	Lower	Upper
72	100		
57	30.7	27.3	40.9

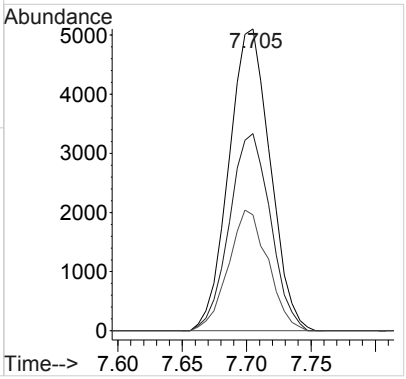


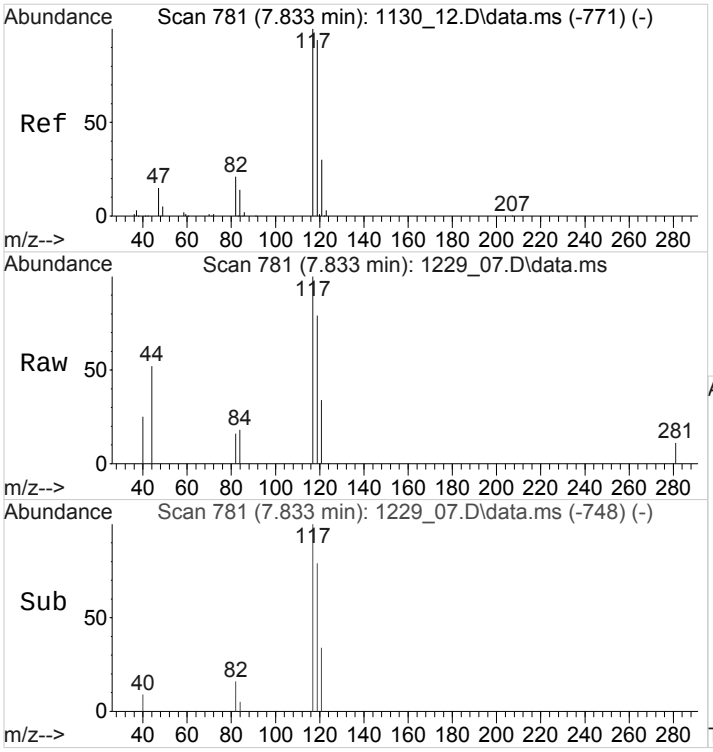


#44
1,1,1-Trichloroethane
Concen: 0.9862282 ppbv
RT: 7.705 min Scan# 760
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 97 Resp: 11409

Ion	Ratio	Lower	Upper
97	100		
99	64.9	52.5	78.7
61	38.4	31.9	47.9

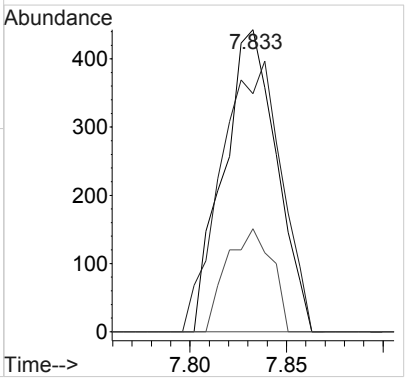


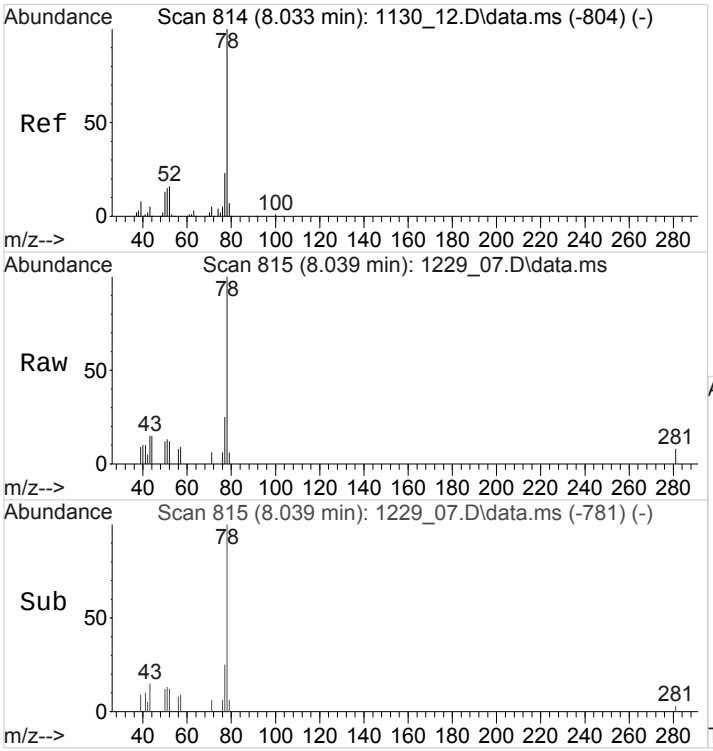


#45
Carbon Tetrachloride
Concen: 0.0685195 ppbv
RT: 7.833 min Scan# 781
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion:117 Resp: 845

Ion	Ratio	Lower	Upper
117	100		
119	102.2	77.3	115.9
121	29.1	25.0	37.4

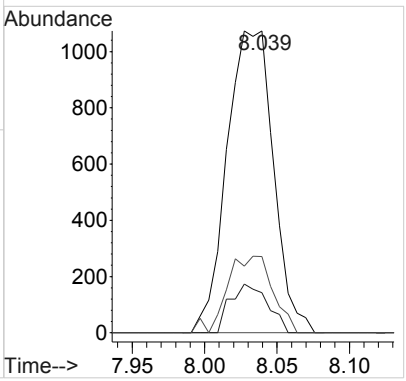




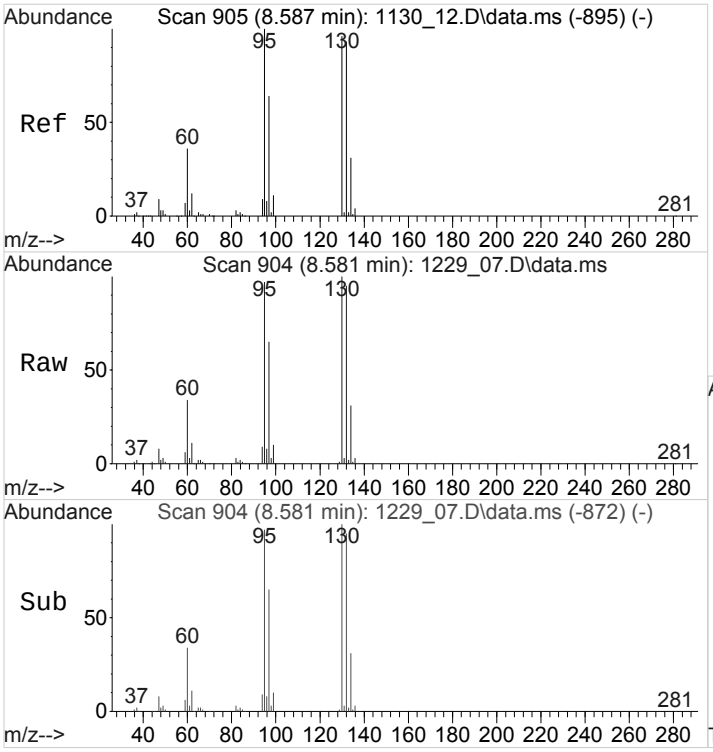
#48
Benzene
Concen: 0.1526865 ppbv
RT: 8.039 min Scan# 815
Delta R.T. 0.006 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 78 Resp: 2397

Ion	Ratio	Lower	Upper
78	100		
51	13.0	12.1	18.1
77	24.9	18.8	28.2



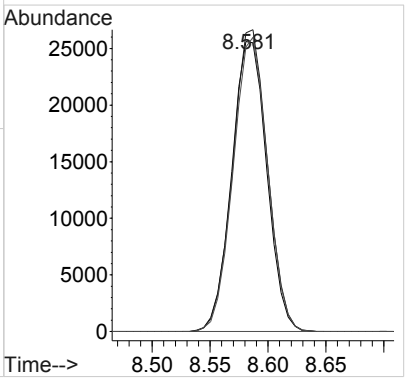
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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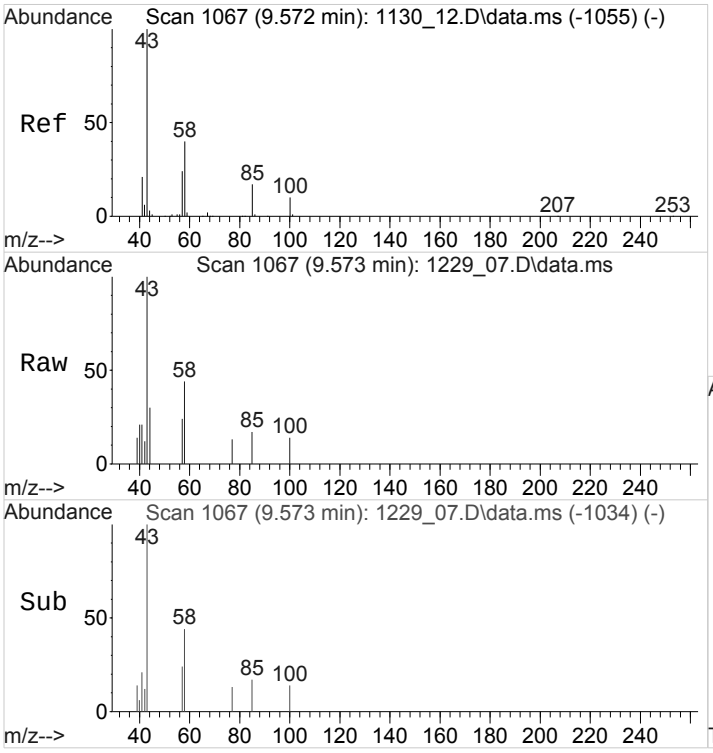


#52
Trichloroethene
Concen: 7.0380193 ppbv
RT: 8.581 min Scan# 904
Delta R.T. -0.006 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 95 Resp: 54020

Ion	Ratio	Lower	Upper
95	100		
130	103.1	76.9	115.3
132	99.6	73.3	109.9

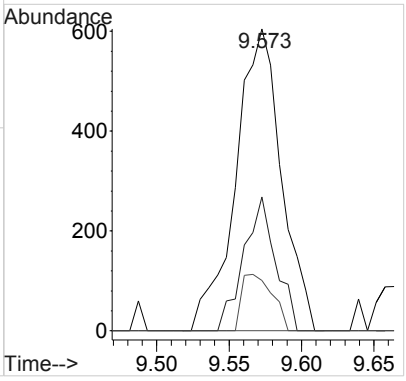




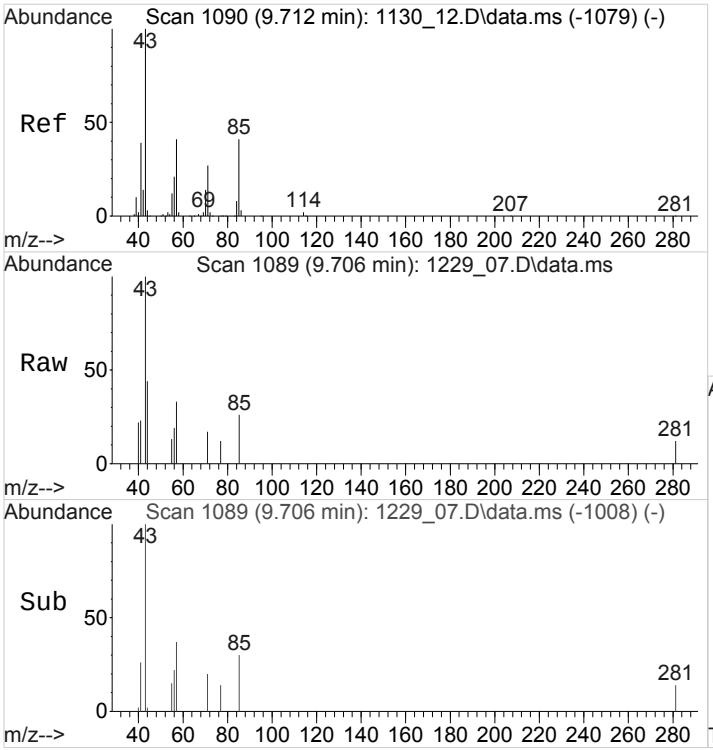
#60
4-Methyl-2-Pentanone (MIBK)
Concen: 0.1183862 ppbv
RT: 9.573 min Scan# 1067
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 43 Resp: 1326

Ion	Ratio	Lower	Upper
43	100		
58	31.1	33.0	49.6#
85	12.7	14.7	22.1#



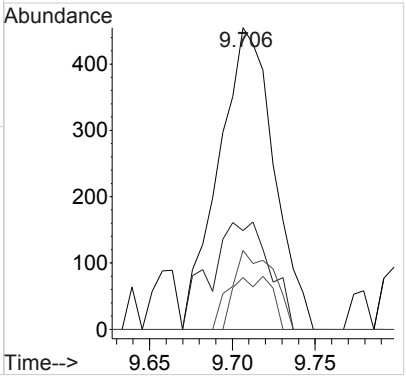
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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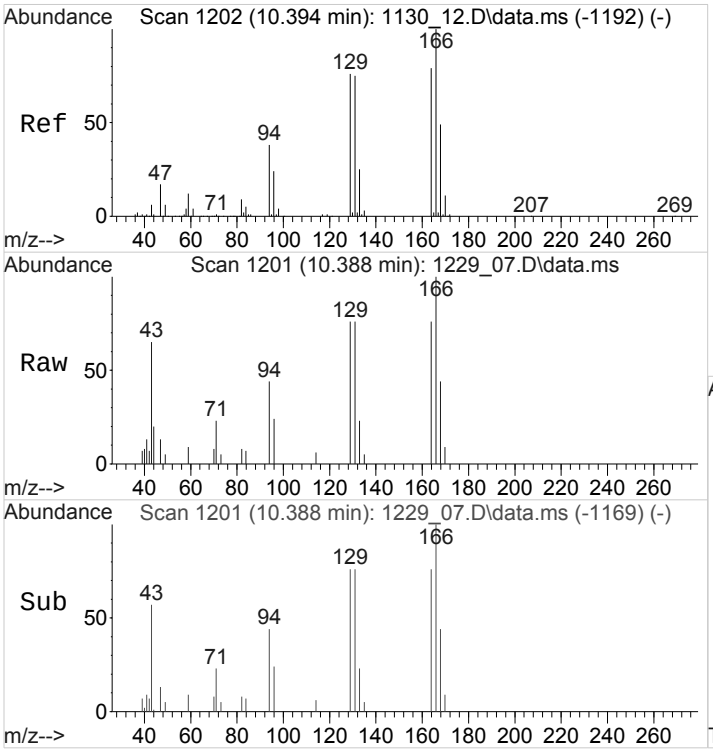


#61
n-OCTANE
Concen: 0.0780866 ppbv
RT: 9.706 min Scan# 1089
Delta R.T. -0.006 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 43 Resp: 1058

Ion	Ratio	Lower	Upper
43	100		
57	38.2	33.1	49.7
85	20.1	33.1	49.7#
71	12.0	22.1	33.1#

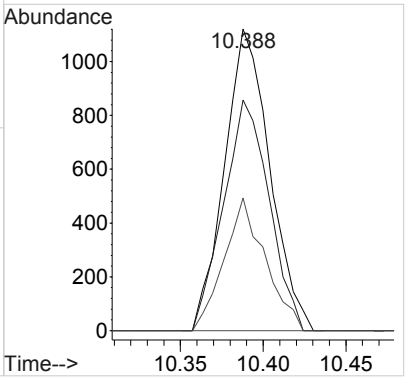




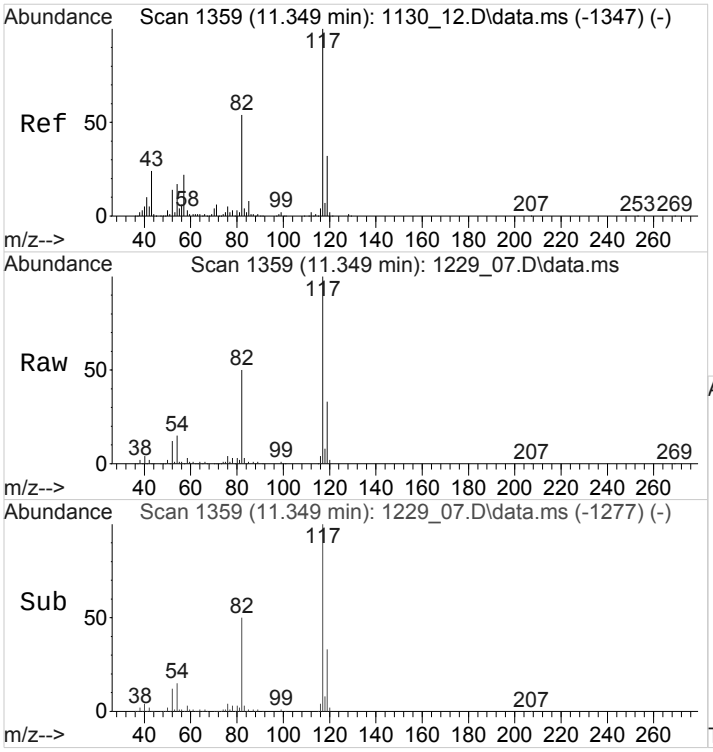
#65
Tetrachloroethene
Concen: 0.2130704 ppbv
RT: 10.388 min Scan# 1201
Delta R.T. -0.006 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion:166 Resp: 2139

Ion	Ratio	Lower	Upper
166	100		
129	76.7	62.1	93.1
94	39.9	30.3	45.5



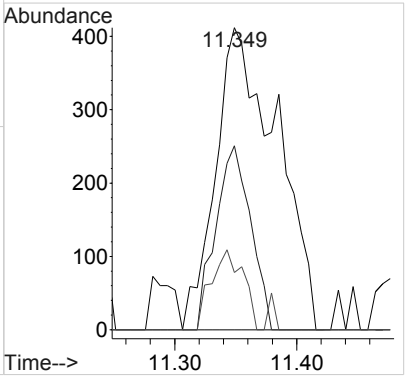
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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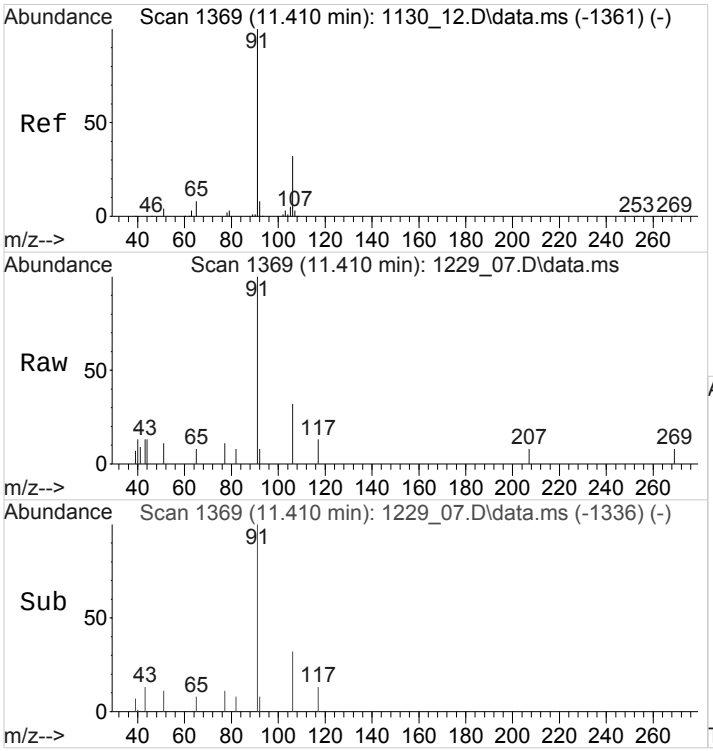


#70
NONANE
Concen: 0.1005478 ppbv
RT: 11.349 min Scan# 1359
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 43 Resp: 1442

Ion	Ratio	Lower	Upper
43	100		
57	34.7	74.6	112.0#
71	13.8	20.0	30.0#
128	0.0	1.9	2.9#

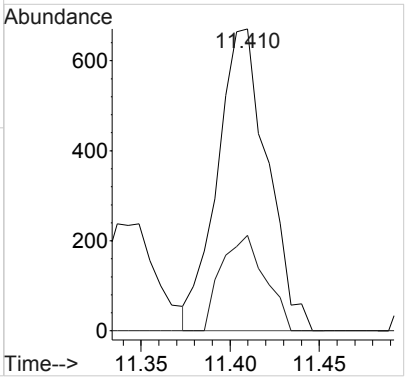


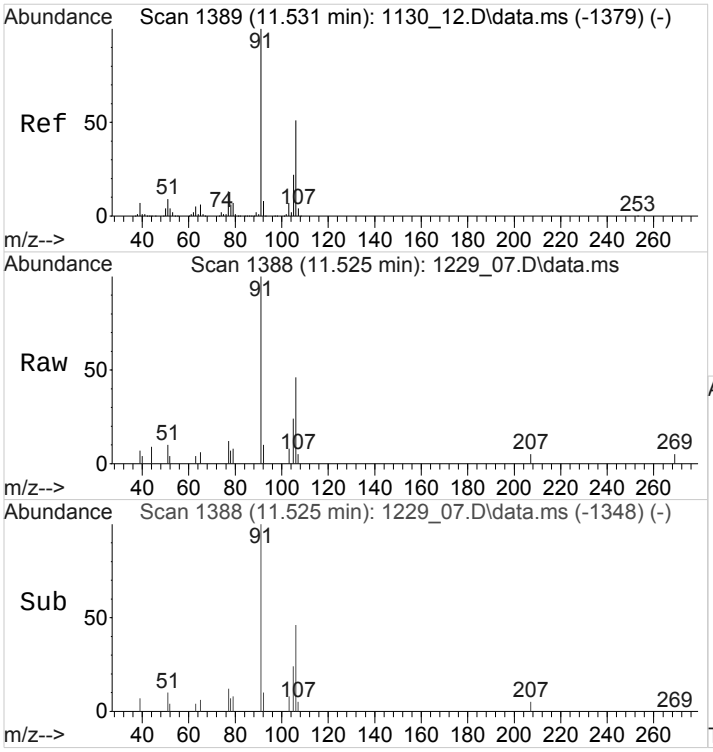


#72
Ethylbenzene
Concen: 0.0571946 ppbv
RT: 11.410 min Scan# 1369
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 91 Resp: 1311

Ion	Ratio	Lower	Upper
91	100		
106	27.7	25.6	38.4

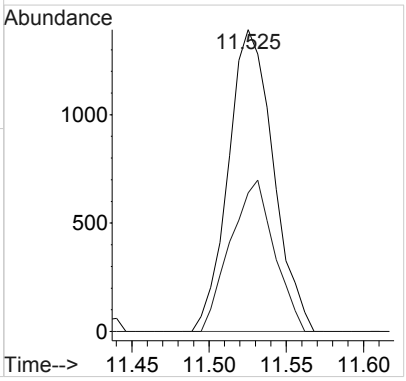


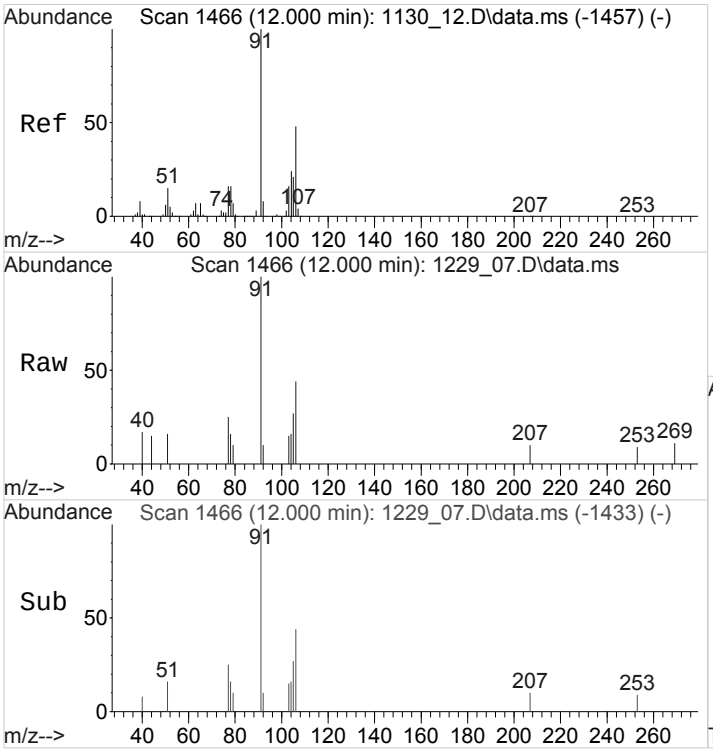


#73
M&P-Xylene
Concen: 0.1574295 ppbv
RT: 11.525 min Scan# 1388
Delta R.T. -0.006 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 91 Resp: 2828

Ion	Ratio	Lower	Upper
91	100		
106	48.8	39.7	59.5

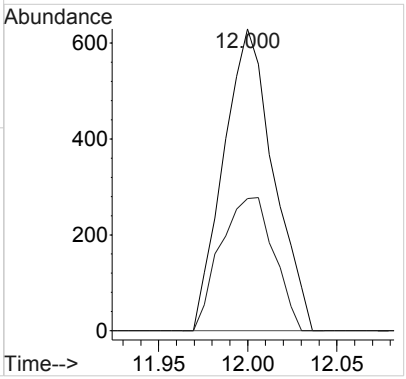


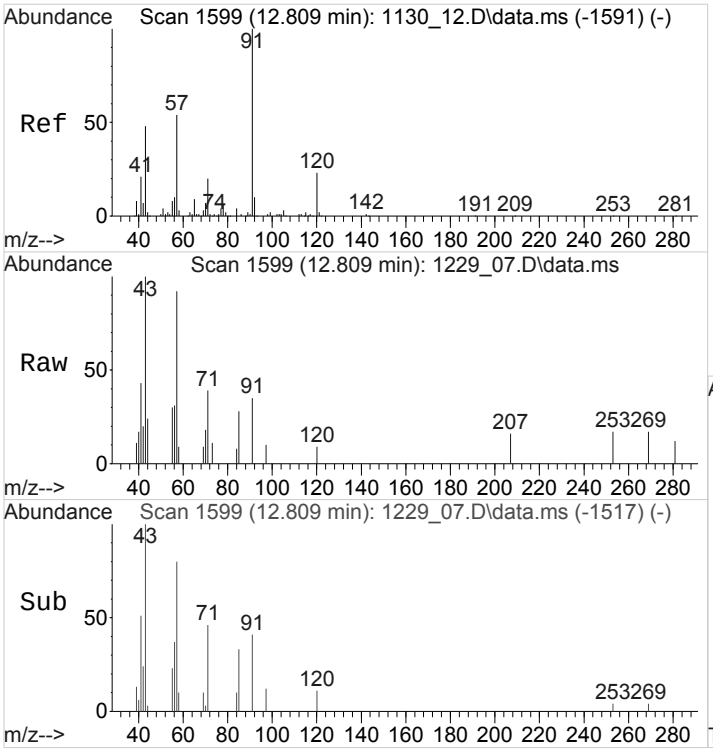


#74
O-Xylene
Concen: 0.0649179 ppbv
RT: 12.000 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 91 Resp: 1230

Ion	Ratio	Lower	Upper
91	100		
106	47.1	38.4	57.6

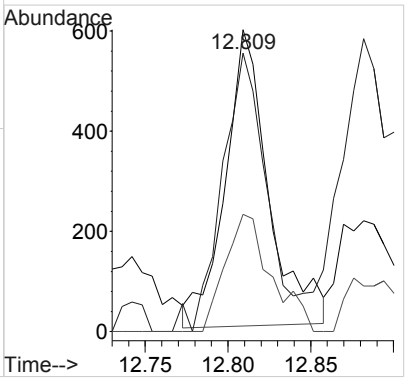


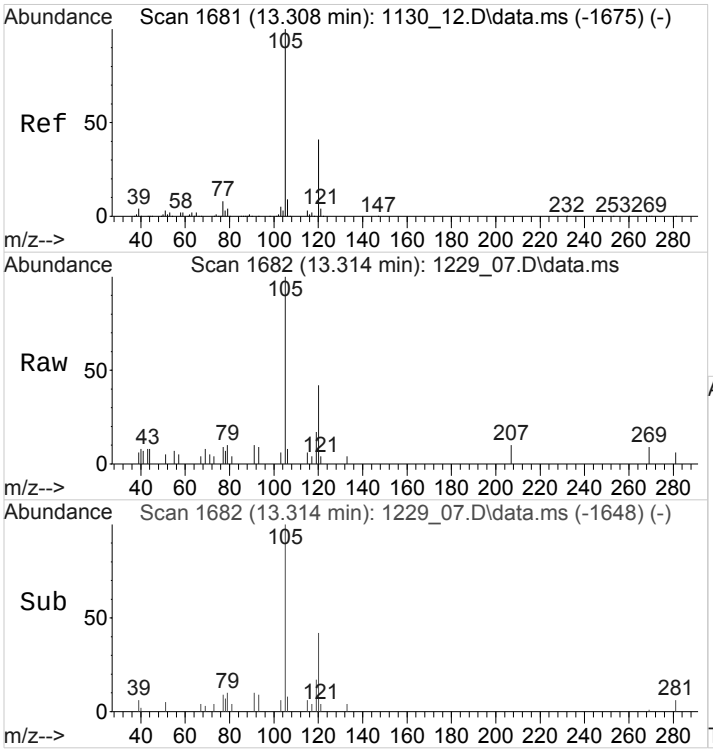


#80
n-DECANE
Concen: 0.0907471 ppbv
RT: 12.809 min Scan# 1599
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion: 43 Resp: 1089

Ion	Ratio	Lower	Upper
43	100		
57	94.1	89.7	134.5
71	41.7	34.1	51.1

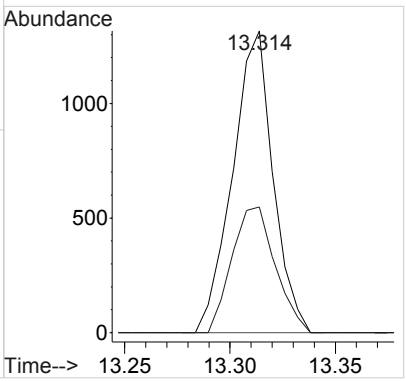


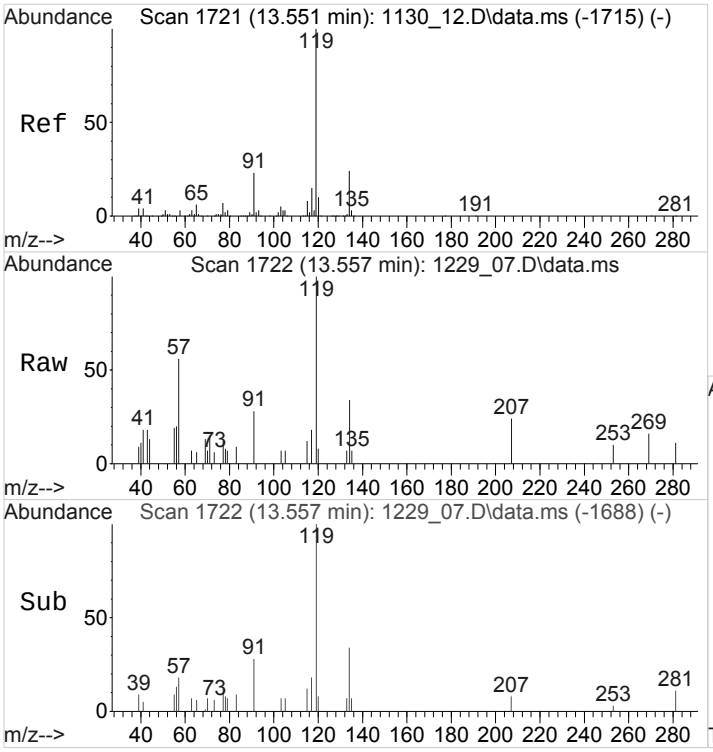


#88
1,2,4-Trimethylbenzene
Concen: 0.0917589 ppbv
RT: 13.314 min Scan# 1682
Delta R.T. 0.006 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion:105 Resp: 1757

Ion	Ratio	Lower	Upper
105	100		
120	44.8	35.9	53.9

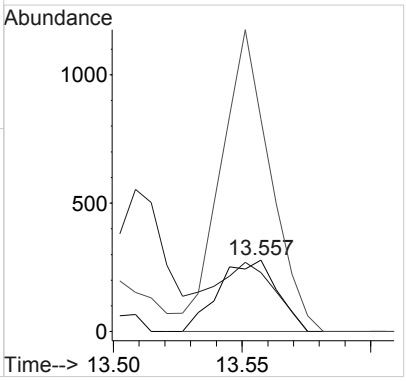


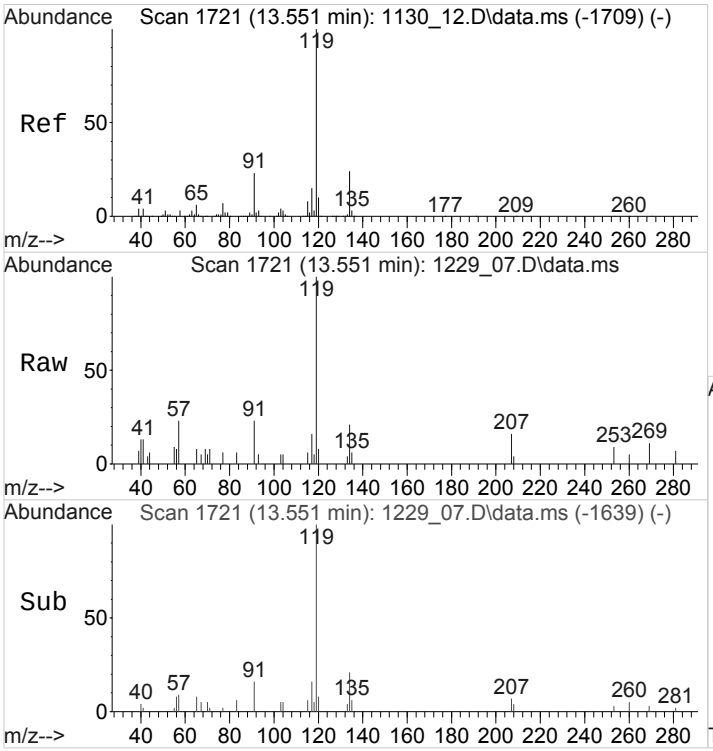


#89
sec-Butylbenzene
Concen: 0.0795540 ppbv
RT: 13.557 min Scan# 1722
Delta R.T. 0.006 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion:134 Resp: 441

Ion	Ratio	Lower	Upper
134	100		
91	93.2	76.8	115.2
119	359.4	329.6	494.4

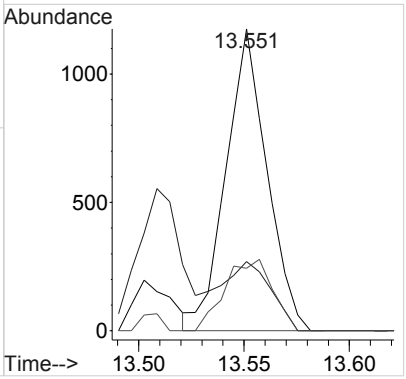




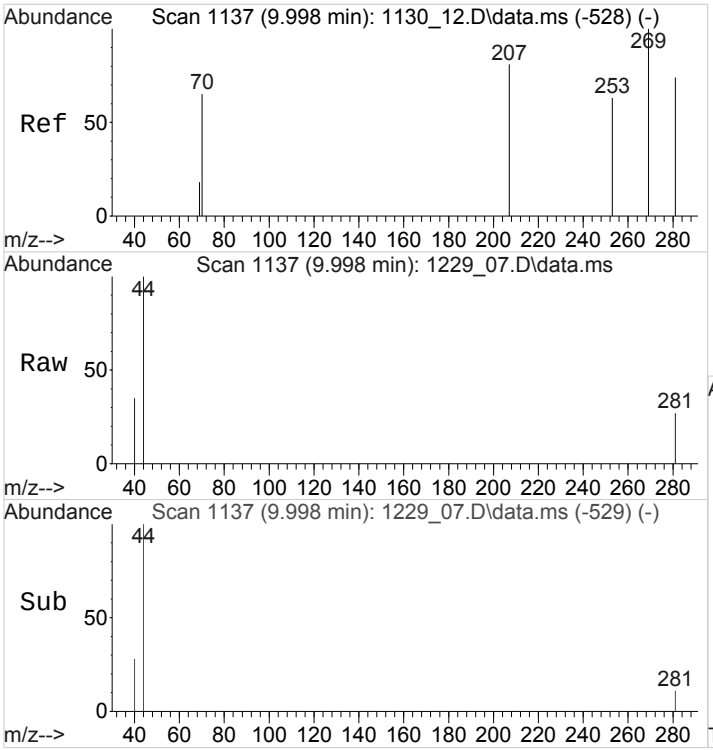
#91
P-ISOPROPYLTOLUENE
Concen: 0.0711763 ppbv
RT: 13.551 min Scan# 1721
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion:119 Resp: 1585

Ion	Ratio	Lower	Upper
119	100		
91	25.9	18.6	28.0
134	27.8	19.4	29.2

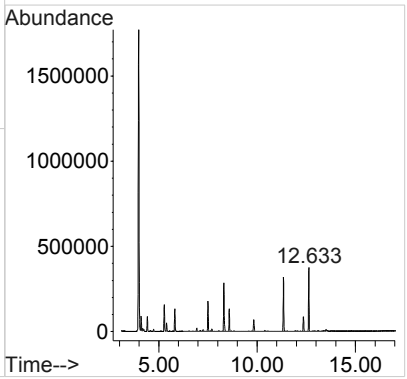


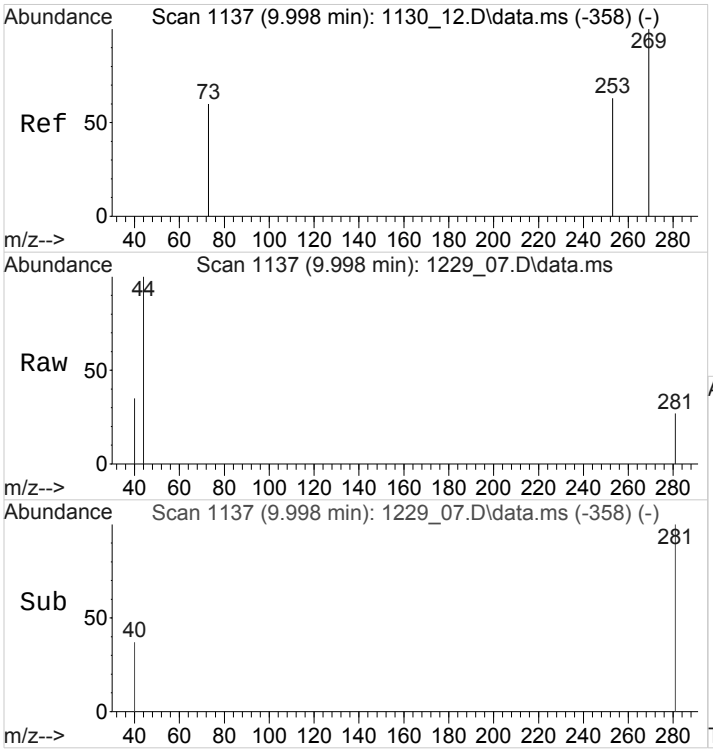
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#101
TPH (GC/MS) Low Fraction
Concen: 34.7648375 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

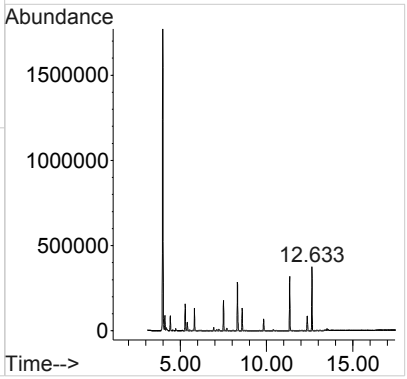
Tgt Ion:TIC Resp: 1236937





#102
TPH-GRO (C5-C10)
Concen: 67.4142576 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_07.D
Acq: 29 Dec 2022 3:08 pm

Tgt Ion:TIC Resp: 2024273



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SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
774-VMP-3_1222

Lab Sample ID:	L1570570-04	**SDG:**	L1570570
Client Sample ID:	774-VMP-3_1222	**Collected Date/Time:**	12/21/22 08:30
Lab File ID:	1229_08	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 15:52
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 15:52
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.81	11.8		1.39	2.85	5.70
Benzene	71-43-2	8.03	0.616	J	0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	0	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.47	0.609	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	0	0.867	U	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	0	0.982	U	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	356		0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.23	2.27	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	0	1.53	U	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	0	0.694	U	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	1.69	J	0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	10.39	0.623	J	0.553	1.36	2.72
Toluene	108-88-3	0	0.942	U	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570570-04	**SDG:**	L1570570
Client Sample ID:	774-VMP-3_1222	**Collected Date/Time:**	12/21/22 08:30
Lab File ID:	1229_08	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 15:52
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 15:52
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.58	8.57		0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	0	0.982	U	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	1.30	U	0.585	1.30	2.60
o-Xylene	95-47-6	0	0.759	U	0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_08.D
Acq On : 29 Dec 2022 3:52 pm
Operator :
Sample : L1570570-04 1x WG1980894
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 31 07:16:45 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

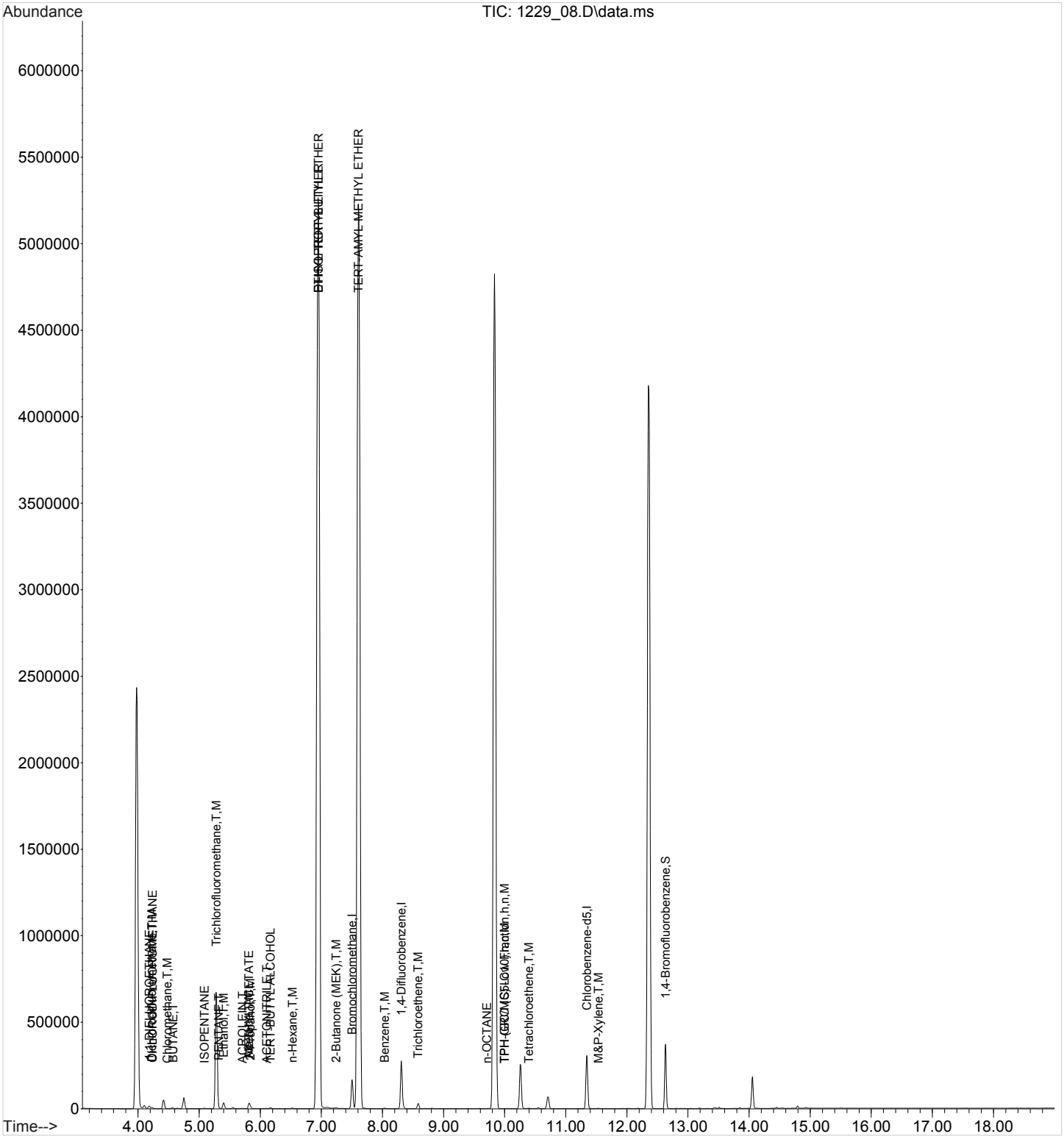
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	73117	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.307	114	266225	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	236406	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	138616	3.4364521	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 85.91%				
Target Compounds							Qvalue
3) BUTANE	4.572	43	2980	0.4441577	ppbv		99
4) 1,1-DIFLUOROETHANE	4.183	51	9749	1.6909610	ppbv		95
5) Dichlorodifluoromethane	4.225	85	5703	0.4597140	ppbv		95
6) CHLORODIFLUOROMETHANE	4.237	51	4768	0.6818899	ppbv		100
8) Chloromethane	4.475	50	1317	0.2953174	ppbv		98
13) ISOPENTANE	5.083	43	1276	0.2753397	ppbv	#	96
15) Trichlorofluoromethane	5.278	101	658099	63.3713858	ppbv		100
16) PENTANE	5.320	43	2756	0.2891202	ppbv	#	37
17) Ethanol	5.399	45	46695	19.8940198	ppbv		97
18) ACROLEIN	5.710	56	629	0.2886832	ppbv		98
21) Acetone	5.813	43	39986	4.9836640	ppbv		89
23) 2-Propanol	5.837	45	15646	1.7660285	ppbv	#	1
26) METHYL ACETATE	5.813	43	39986	4.4857152	ppbv	#	54
27) ACETONITRILE	6.105	41	974	0.1964435	ppbv		93
29) TERT-BUTYL ALCOHOL	6.166	59	6824	0.7316456	ppbv	#	1
33) n-Hexane	6.525	57	2464	0.3306457	ppbv		92
36) DI-ISOPROPYL ETHER	6.951	45	1661691	110.0529432	ppbv	#	55
37) ETHYL TERT-BUTYL ETHER	6.951	59	297001	18.5605769	ppbv	#	50
39) 2-Butanone (MEK)	7.243	72	1403	0.5719042	ppbv		91
48) Benzene	8.033	78	2895	0.1927637	ppbv	#	94
49) TERT-AMYL METHYL ETHER	7.608	73	1086002	73.4722251	ppbv	#	66
52) Trichloroethene	8.581	95	11757	1.6011664	ppbv		94
61) n-OCTANE	9.706	43	960	0.0740639	ppbv	#	49
65) Tetrachloroethene	10.394	166	881	0.0917344	ppbv		94
73) M&P-Xylene	11.531	91	1903	0.1072781	ppbv		100
101) TPH (GC/MS) Low Fraction	10.000	TIC	60874485m	1732.5816816	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	62503532m	2107.9144117	ppbv		

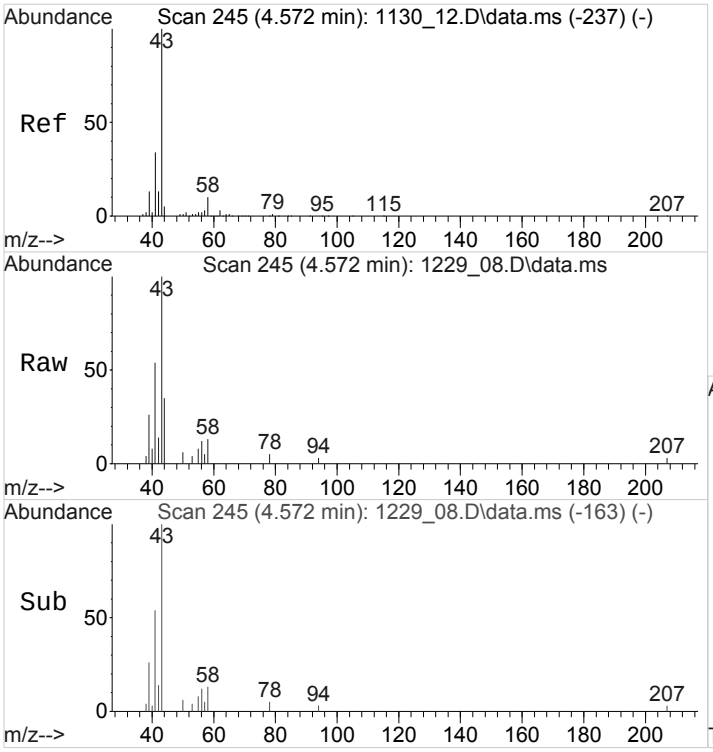
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_08.D
Acq On : 29 Dec 2022 3:52 pm
Operator :
Sample : L1570570-04 1x WG1980894
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 31 07:16:45 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

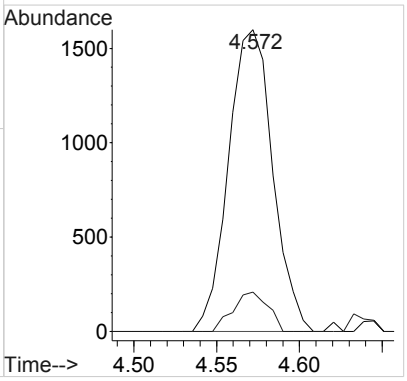


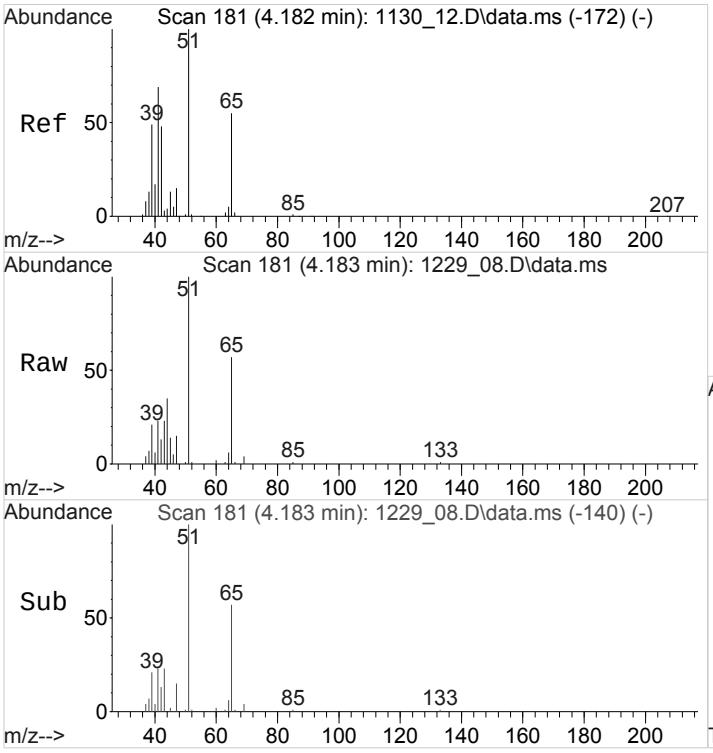


#3
BUTANE
Concen: 0.4441577 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 43 Resp: 2980

Ion	Ratio	Lower	Upper
43	100		
58	10.4	8.0	12.0

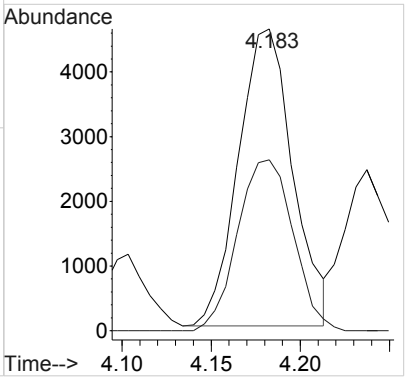




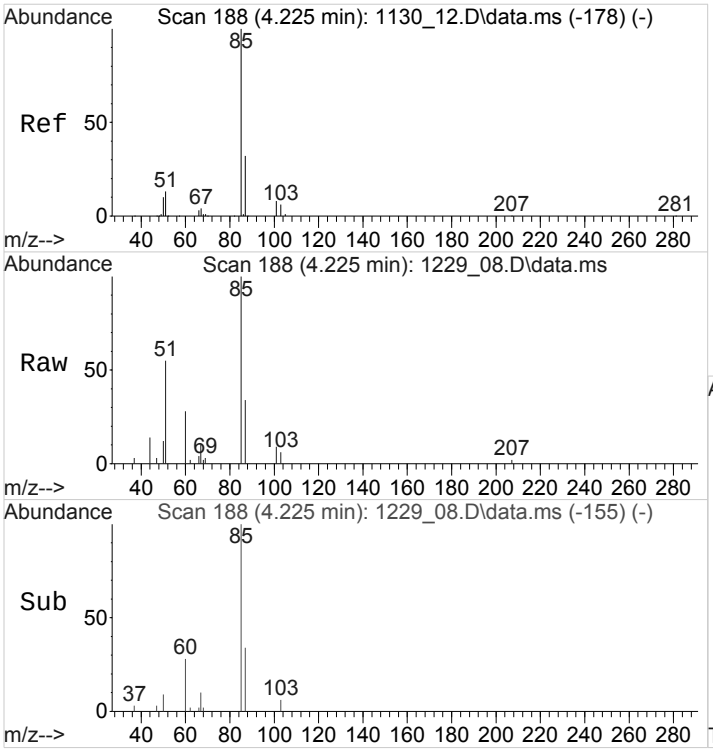
#4
1,1-DIFLUOROETHANE
Concen: 1.6909610 ppbv
RT: 4.183 min Scan# 181
Delta R.T. 0.000 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 51 Resp: 9749

Ion	Ratio	Lower	Upper
51	100		
65	58.6	44.1	66.1



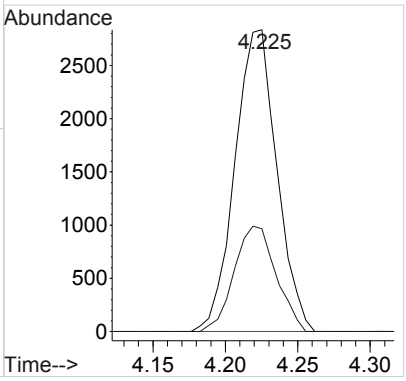
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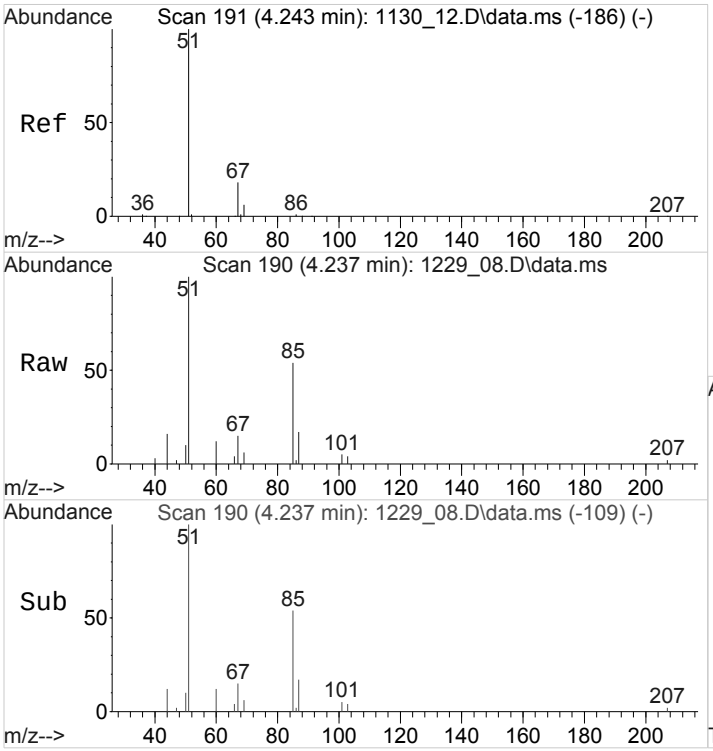


#5
Dichlorodifluoromethane
Concen: 0.4597140 ppbv
RT: 4.225 min Scan# 188
Delta R.T. 0.000 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 85 Resp: 5703

Ion	Ratio	Lower	Upper
85	100		
87	34.8	25.8	38.6

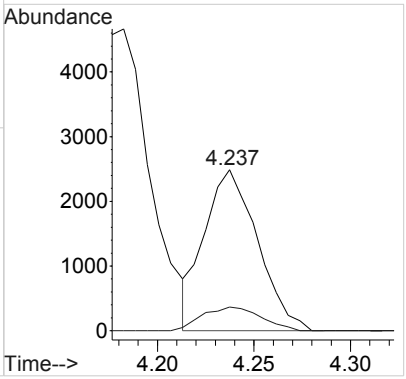


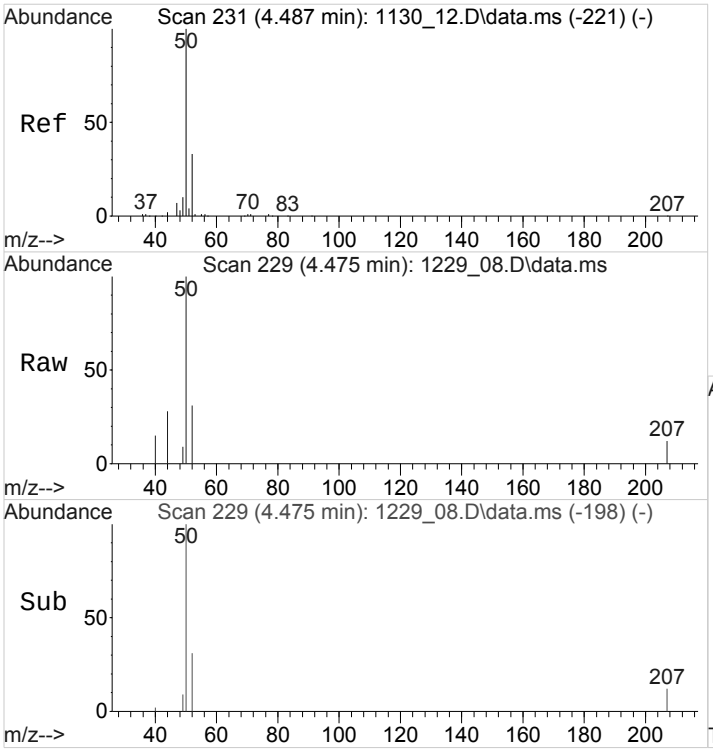


#6
CHLORODIFLUOROMETHANE
Concen: 0.6818899 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 51 Resp: 4768

Ion	Ratio	Lower	Upper
51	100		
67	16.3	13.0	19.4

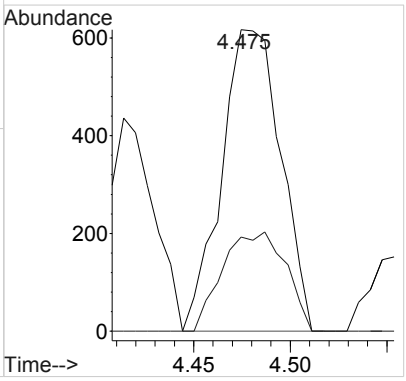


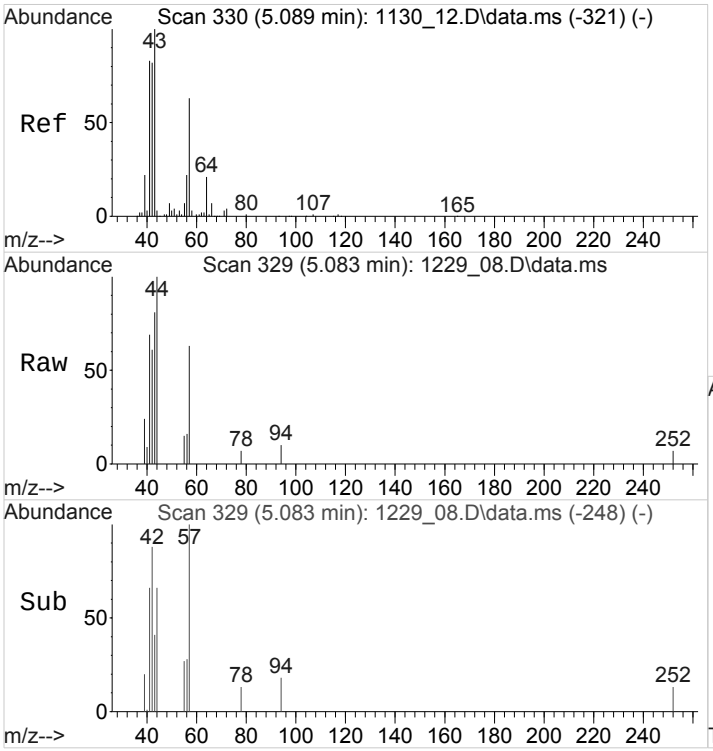


#8
Chloromethane
Concen: 0.2953174 ppbv
RT: 4.475 min Scan# 229
Delta R.T. -0.012 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 50 Resp: 1317

Ion	Ratio	Lower	Upper
50	100		
52	35.1	27.1	40.7

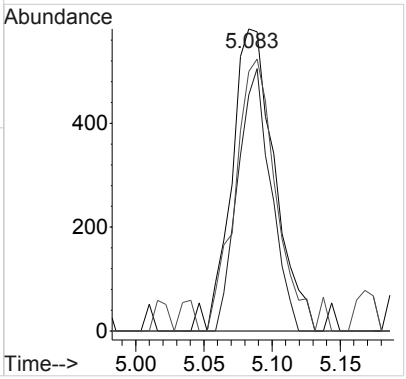




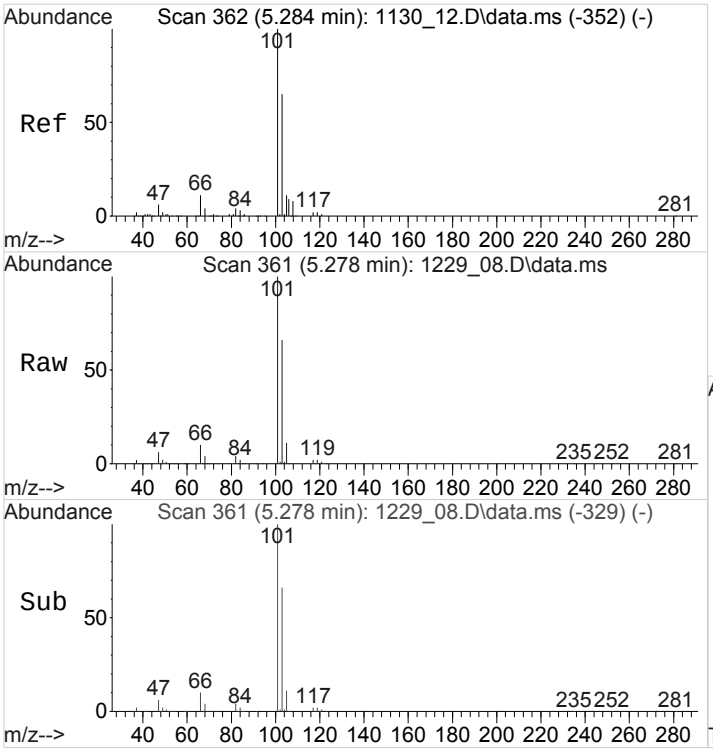
#13
ISOPENTANE
Concen: 0.2753397 ppbv
RT: 5.083 min Scan# 329
Delta R.T. -0.006 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 43 Resp: 1276

Ion	Ratio	Lower	Upper
43	100		
57	66.9	51.7	77.5
41	87.1	66.4	99.6
72	0.0	3.2	4.8#



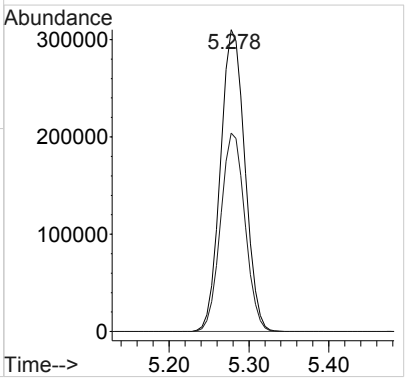
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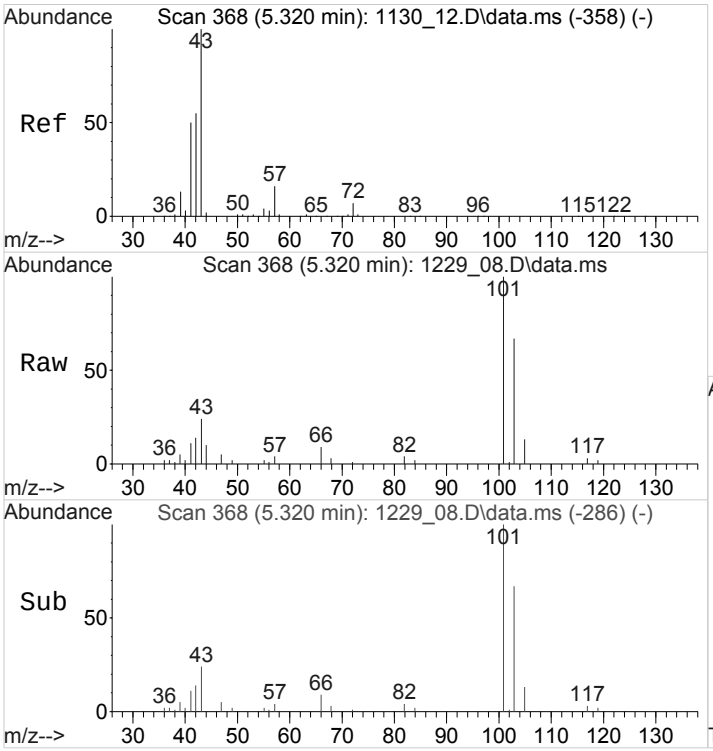


#15
Trichlorofluoromethane
Concen: 63.3713858 ppbv
RT: 5.278 min Scan# 361
Delta R.T. -0.006 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion:101 Resp: 658099

Ion	Ratio	Lower	Upper
101	100		
103	65.7	52.8	79.2

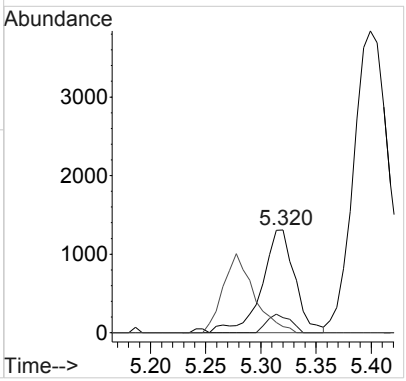




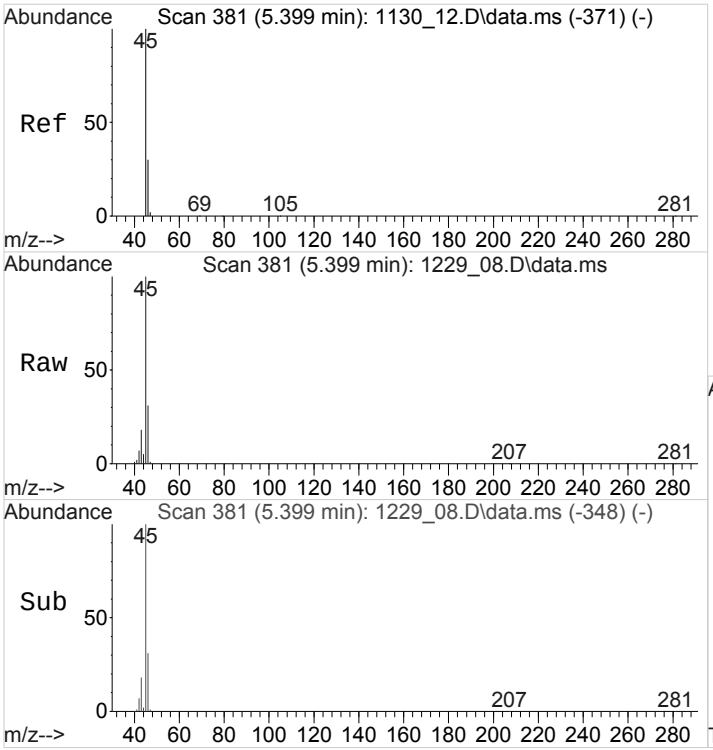
#16
PENTANE
Concen: 0.2891202 ppbv
RT: 5.320 min Scan# 368
Delta R.T. 0.000 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 43 Resp: 2756

Ion	Ratio	Lower	Upper
43	100		
57	12.7	13.0	19.4#
72	71.7	5.8	8.8#



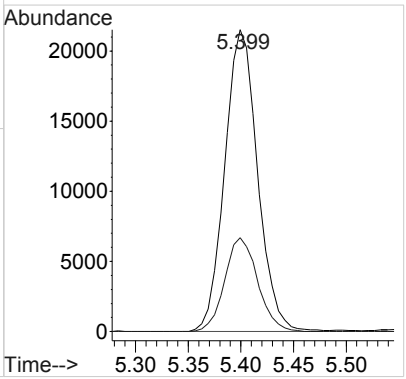
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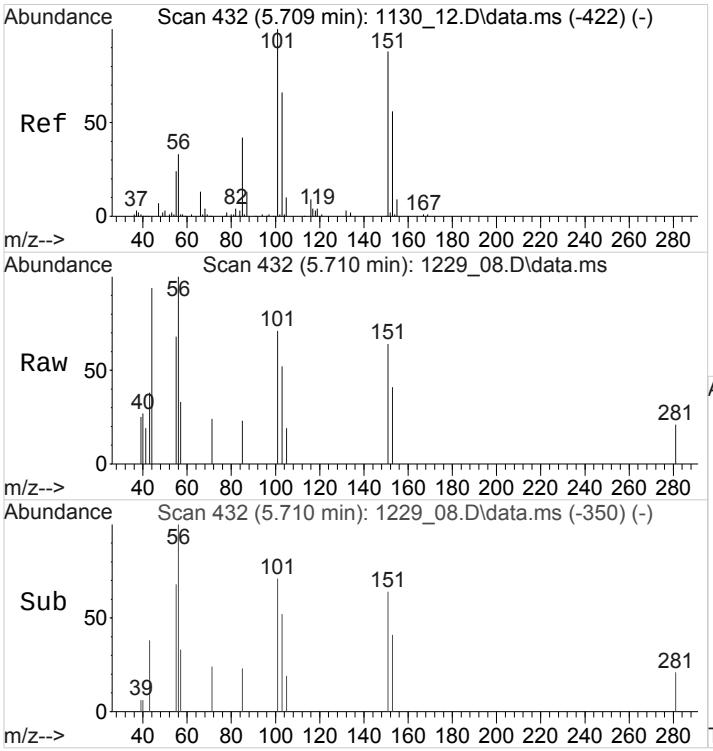


#17
Ethanol
Concen: 19.8940198 ppbv
RT: 5.399 min Scan# 381
Delta R.T. 0.000 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 45 Resp: 46695

Ion	Ratio	Lower	Upper
45	100		
46	31.1	23.6	35.4

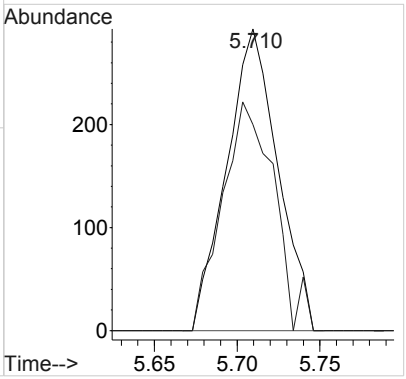


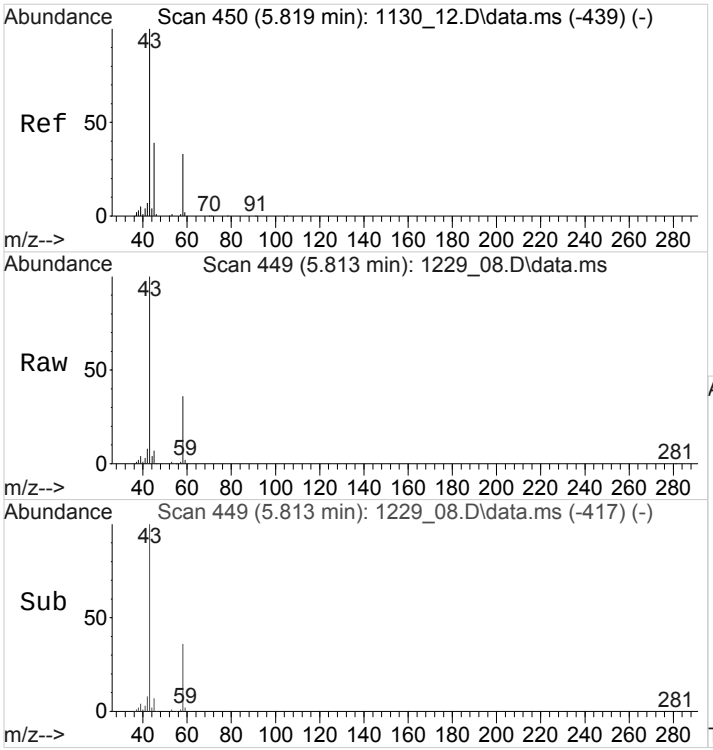


#18
ACROLEIN
Concen: 0.2886832 ppbv
RT: 5.710 min Scan# 432
Delta R.T. 0.000 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 56 Resp: 629

Ion	Ratio	Lower	Upper
56	100		
55	77.3	60.4	90.6

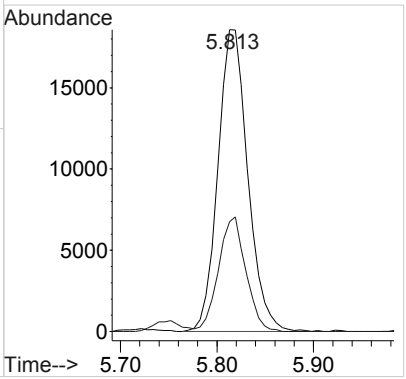


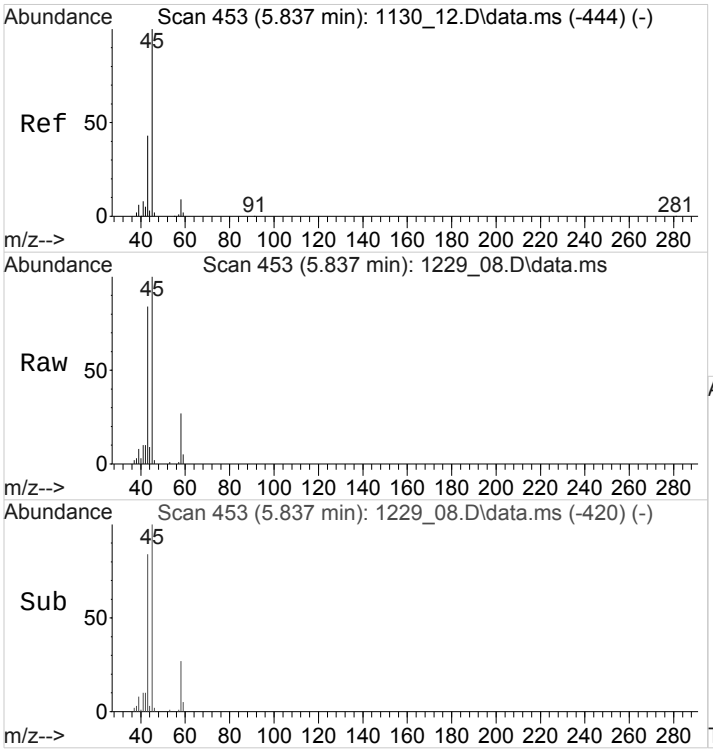


#21
Acetone
Concen: 4.9836640 ppbv
RT: 5.813 min Scan# 449
Delta R.T. -0.006 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 43 Resp: 39986

Ion	Ratio	Lower	Upper
43	100		
58	34.6	23.1	34.7

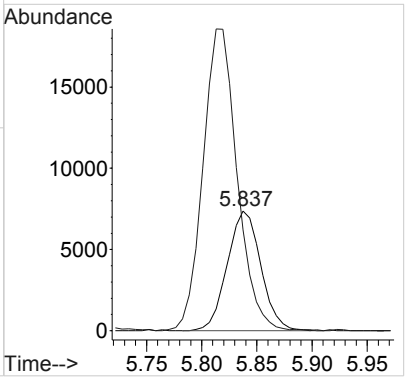


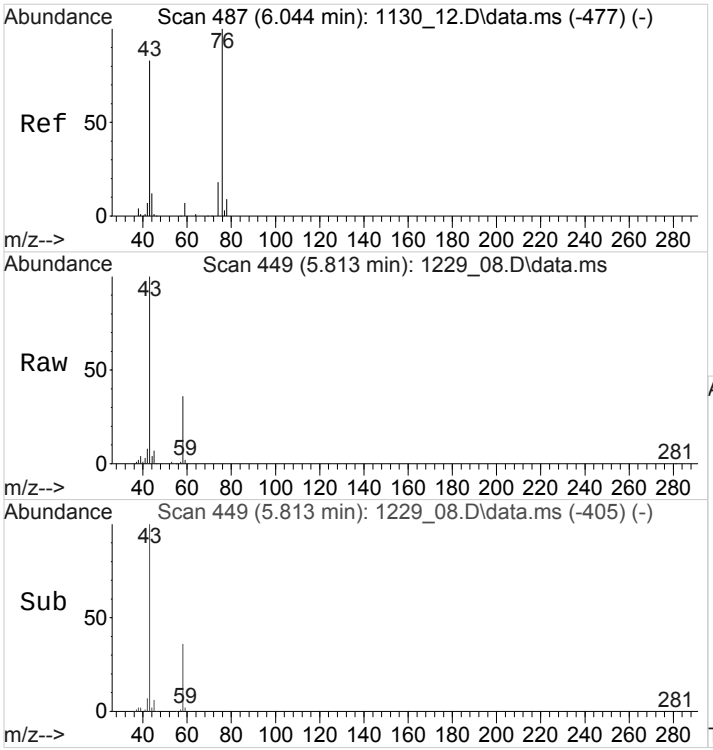


#23
2-Propanol
Concen: 1.7660285 ppbv
RT: 5.837 min Scan# 453
Delta R.T. 0.000 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 45 Resp: 15646

Ion	Ratio	Lower	Upper
45	100		
43	255.6	73.5	110.3#

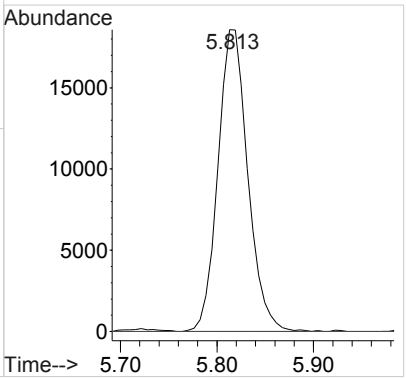


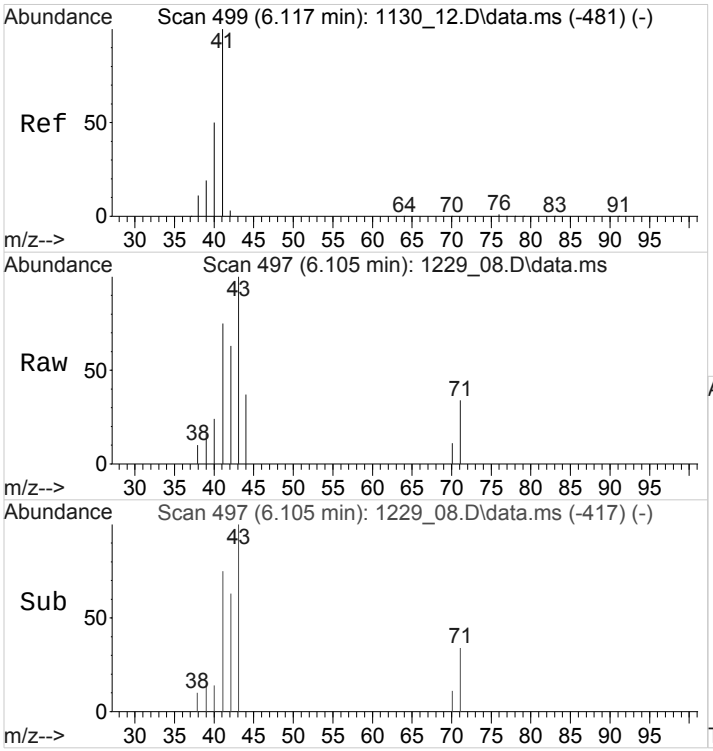


#26
METHYL ACETATE
Concen: 4.4857152 ppbv
RT: 5.813 min Scan# 449
Delta R.T. -0.231 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 43 Resp: 39986

Ion	Ratio	Lower	Upper
43	100		
74	0.0	17.4	26.0#
29	0.0	0.0	0.0

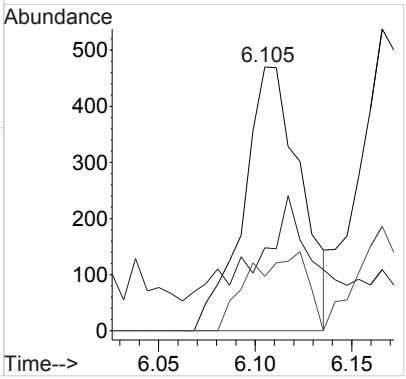




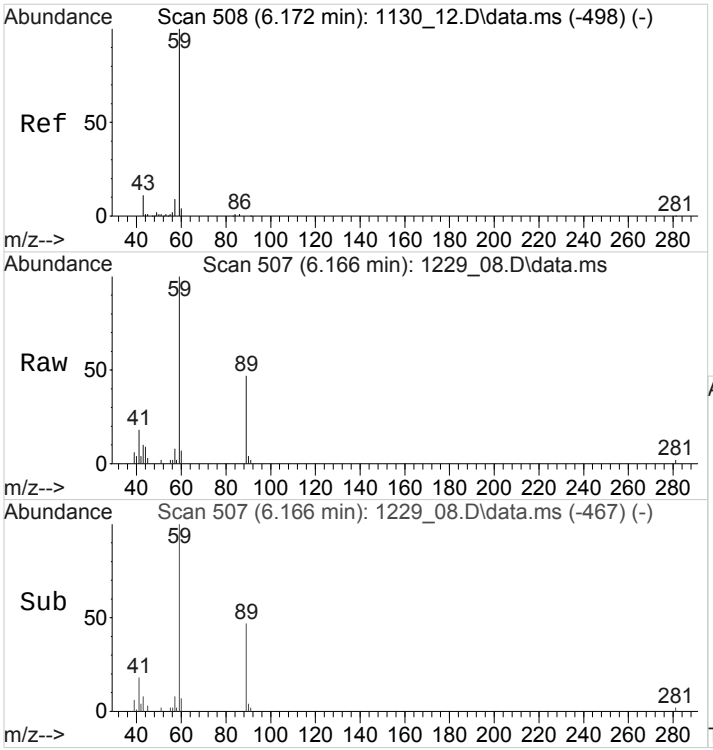
#27
ACETONITRILE
Concen: 0.1964435 ppbv
RT: 6.105 min Scan# 497
Delta R.T. -0.012 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 41 Resp: 974

Ion	Ratio	Lower	Upper
41	100		
40	35.2	32.7	49.1
39	30.2	22.7	34.1



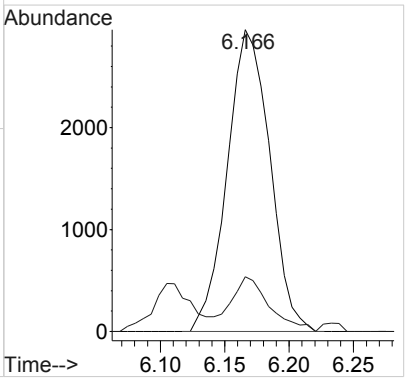
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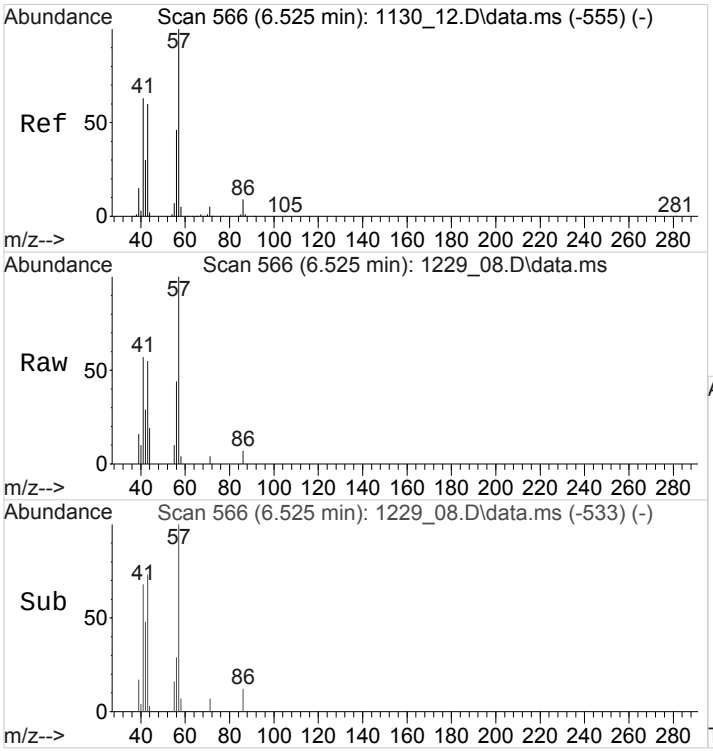


#29
TERT-BUTYL ALCOHOL
Concen: 0.7316456 ppbv
RT: 6.166 min Scan# 507
Delta R.T. -0.006 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 59 Resp: 6824

Ion	Ratio	Lower	Upper
59	100		
41	17.0	216.4	324.6#

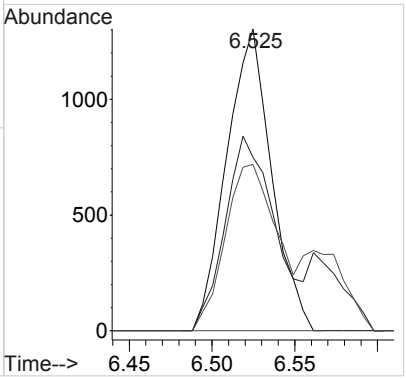




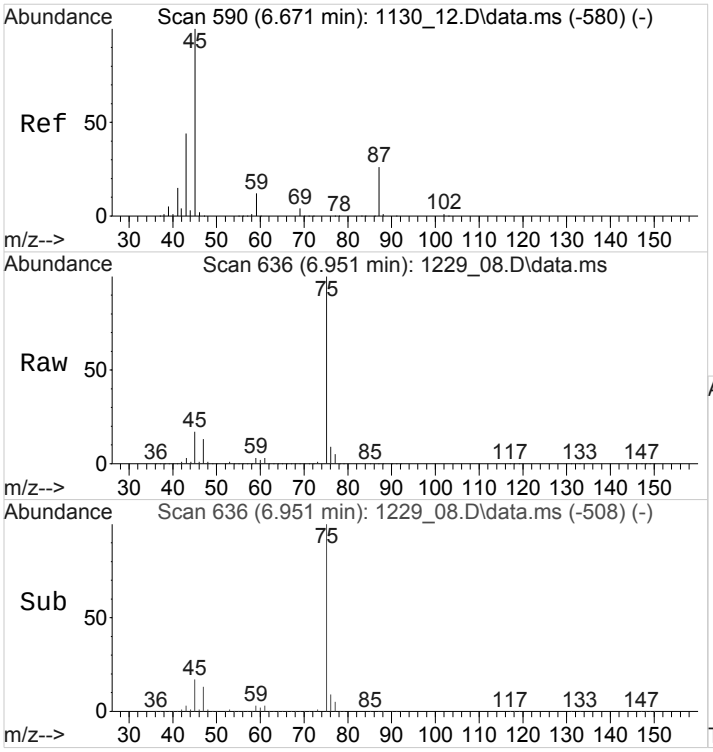
#33
n-Hexane
Concen: 0.3306457 ppbv
RT: 6.525 min Scan# 566
Delta R.T. 0.000 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 57 Resp: 2464

Ion	Ratio	Lower	Upper
57	100		
41	72.4	50.9	76.3
43	63.6	48.4	72.6



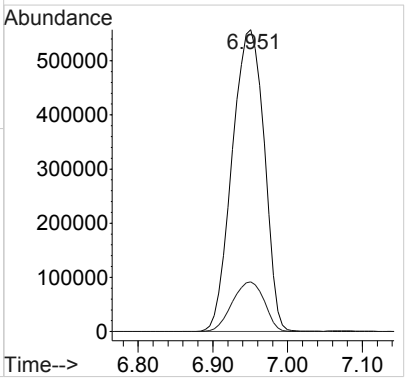
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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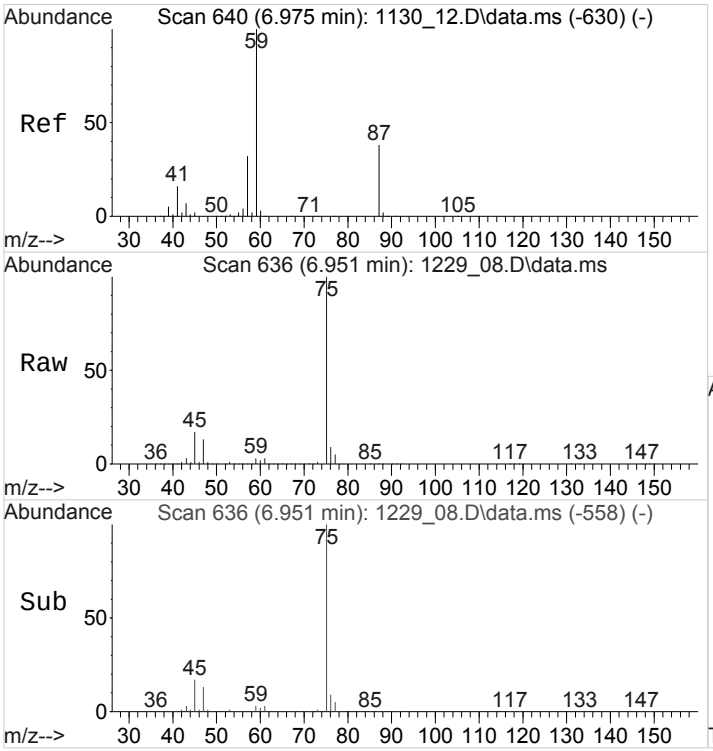


#36
DI-ISOPROPYL ETHER
Concen: 110.0529432 ppbv
RT: 6.951 min Scan# 636
Delta R.T. 0.280 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 45 Resp: 1661691

Ion	Ratio	Lower	Upper
45	100		
43	16.4	36.7	55.1#

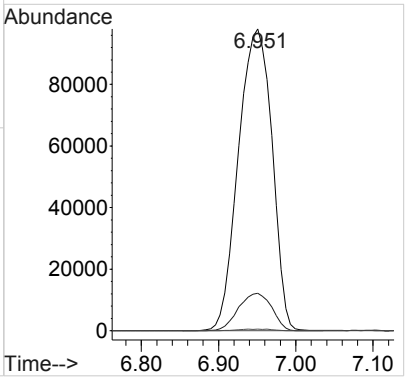


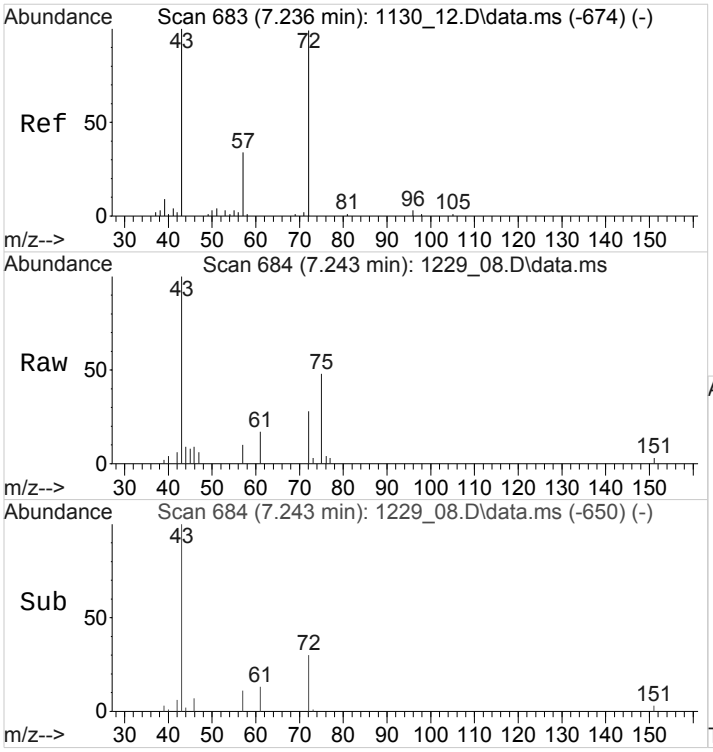


#37
ETHYL TERT-BUTYL ETHER
Concen: 18.5605769 ppbv
RT: 6.951 min Scan# 636
Delta R.T. -0.024 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 59 Resp: 297001

Ion	Ratio	Lower	Upper
59	100		
57	12.3	26.6	39.8#
87	0.5	30.4	45.6#

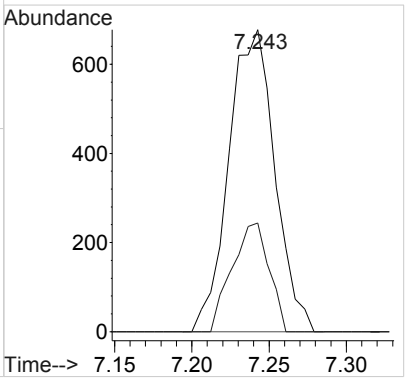


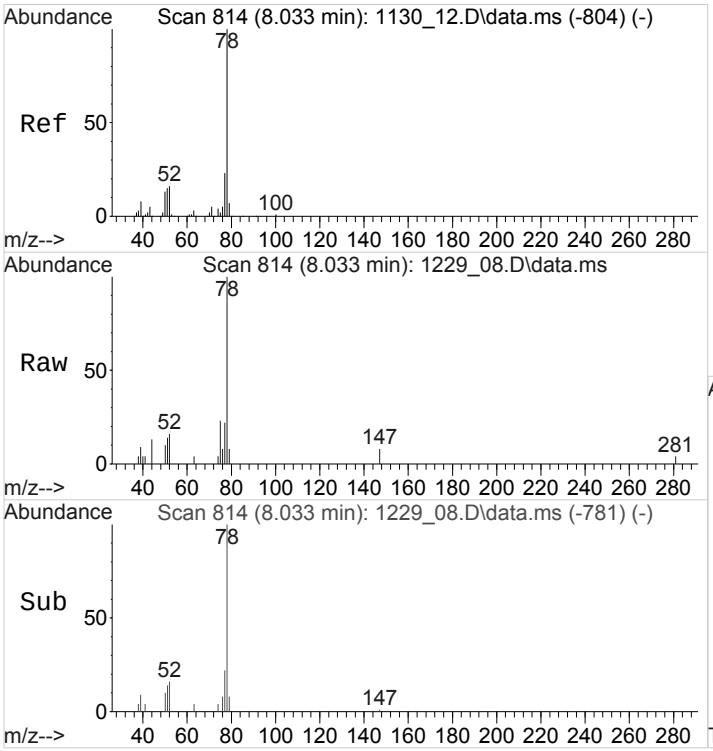


#39
2-Butanone (MEK)
Concen: 0.5719042 ppbv
RT: 7.243 min Scan# 684
Delta R.T. 0.006 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 72 Resp: 1403

Ion	Ratio	Lower	Upper
72	100		
57	29.0	27.3	40.9

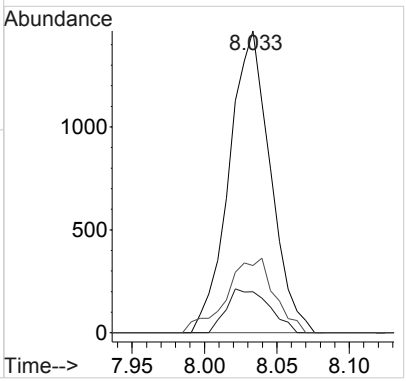




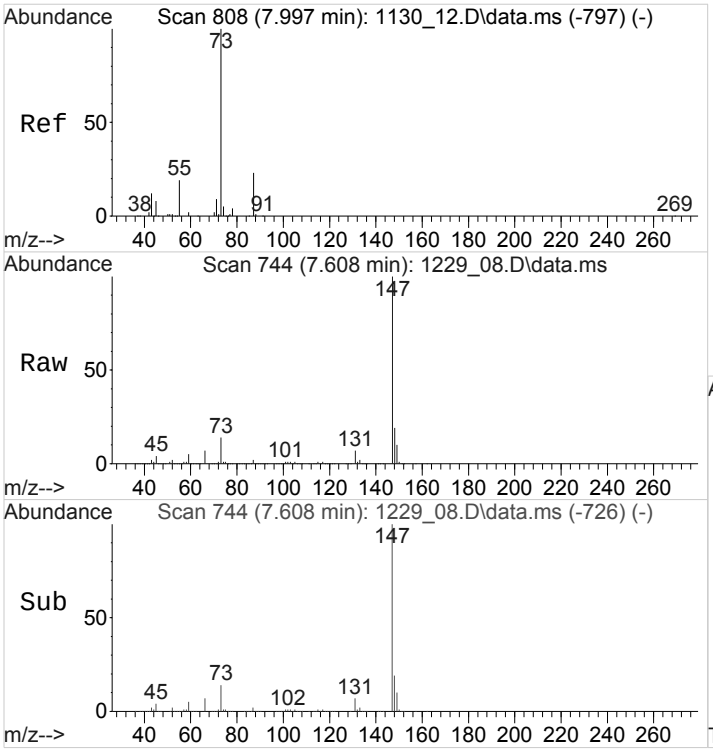
#48
Benzene
Concen: 0.1927637 ppbv
RT: 8.033 min Scan# 814
Delta R.T. 0.000 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 78 Resp: 2895

Ion	Ratio	Lower	Upper
78	100		
51	15.1	12.1	18.1
77	28.6	18.8	28.2#



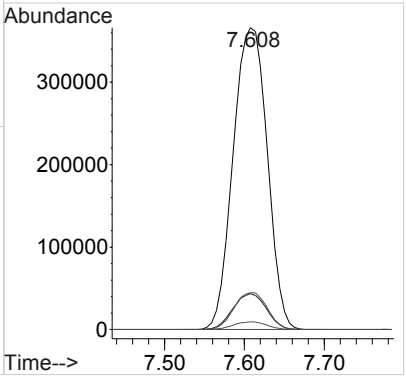
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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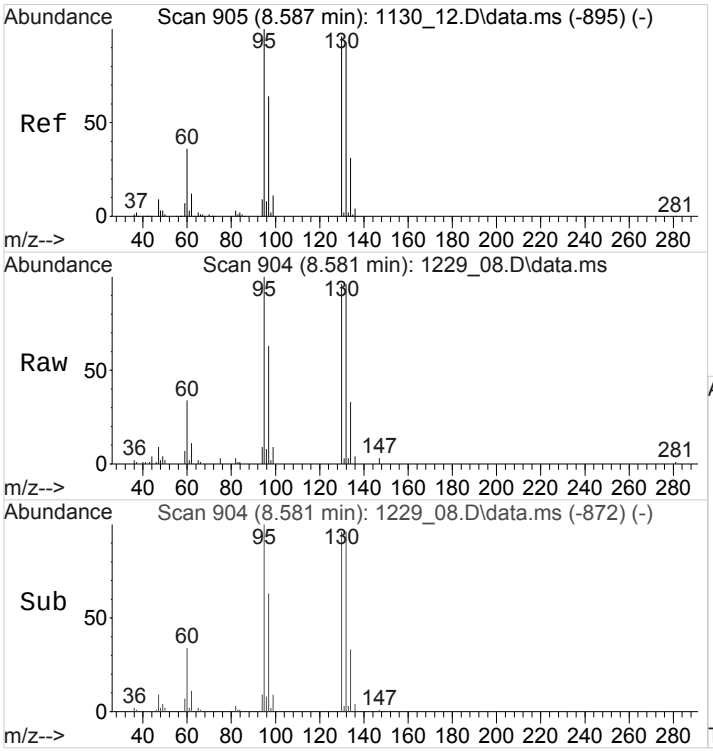


#49
TERT-AMYL METHYL ETHER
Concen: 73.4722251 ppbv
RT: 7.608 min Scan# 744
Delta R.T. -0.389 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 73 Resp: 1086002

Ion	Ratio	Lower	Upper
73	100		
43	11.6	24.9	37.3#
55	2.5	18.8	28.2#
87	11.9	18.6	28.0#

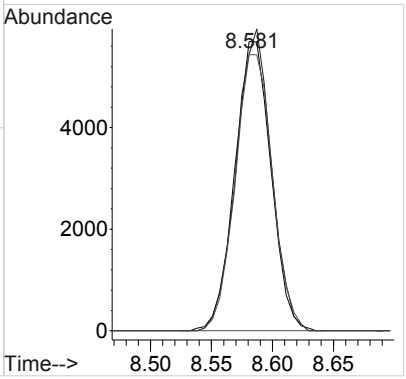




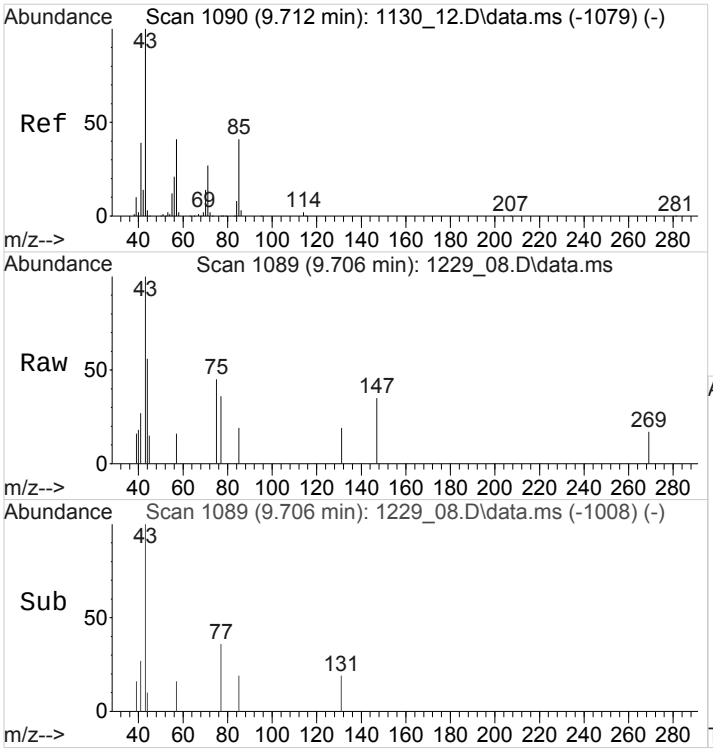
#52
Trichloroethene
Concen: 1.6011664 ppbv
RT: 8.581 min Scan# 904
Delta R.T. -0.006 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 95 Resp: 11757

Ion	Ratio	Lower	Upper
95	100		
130	101.7	76.9	115.3
132	98.3	73.3	109.9



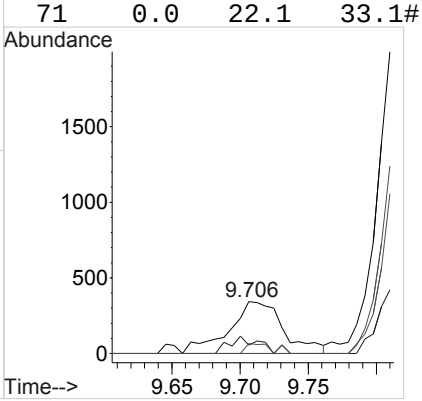
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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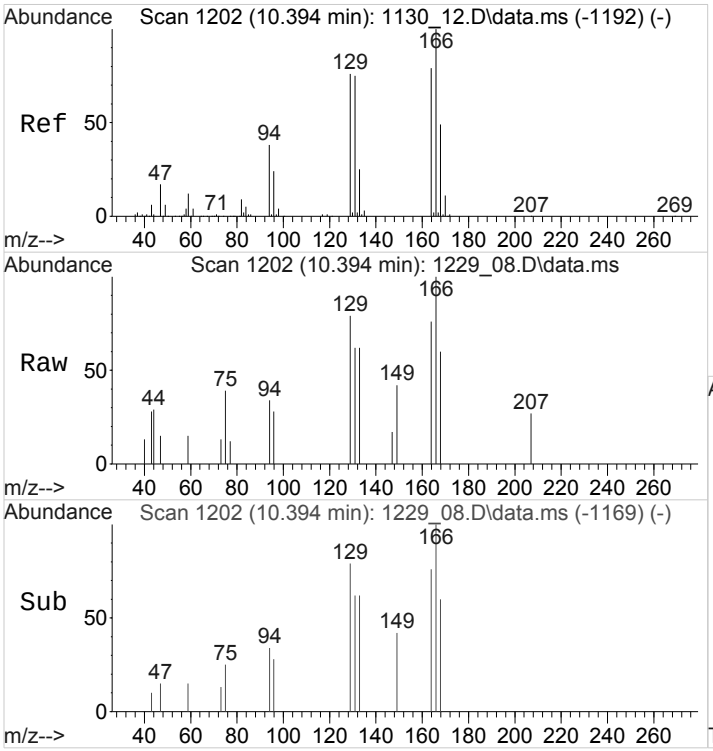


#61
n-OCTANE
Concen: 0.0740639 ppbv
RT: 9.706 min Scan# 1089
Delta R.T. -0.006 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 43 Resp: 960

Ion	Ratio	Lower	Upper
43	100		
57	19.3	33.1	49.7#
85	0.0	33.1	49.7#
71	0.0	22.1	33.1#

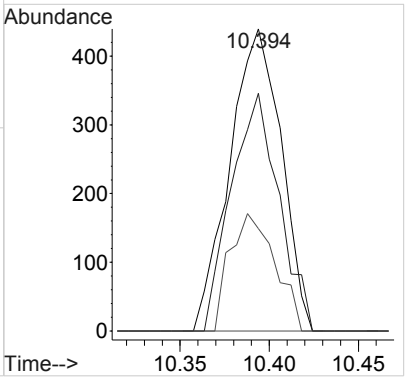




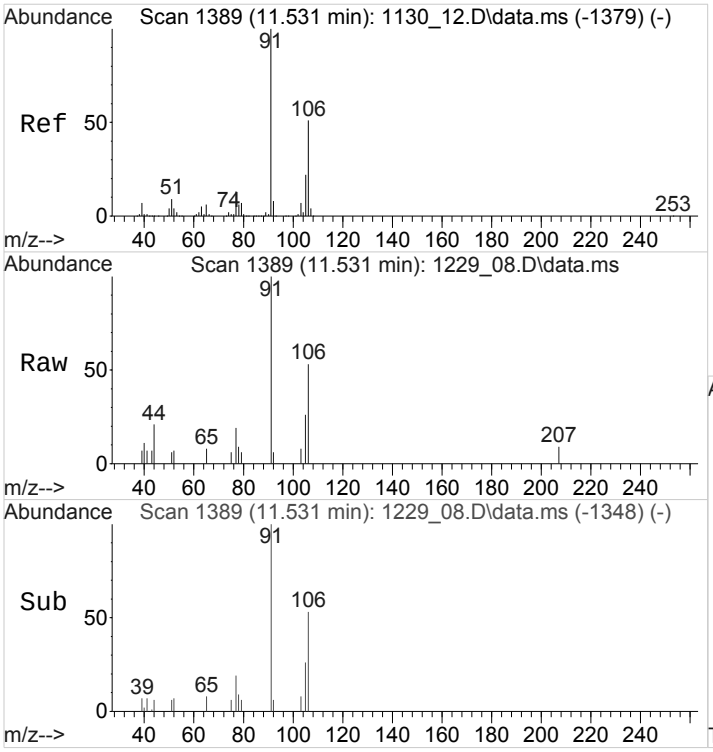
#65
Tetrachloroethene
Concen: 0.0917344 ppbv
RT: 10.394 min Scan# 1202
Delta R.T. 0.000 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion:166 Resp: 881

Ion	Ratio	Lower	Upper
166	100		
129	72.9	62.1	93.1
94	34.1	30.3	45.5



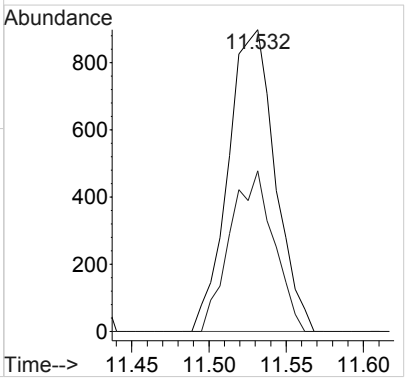
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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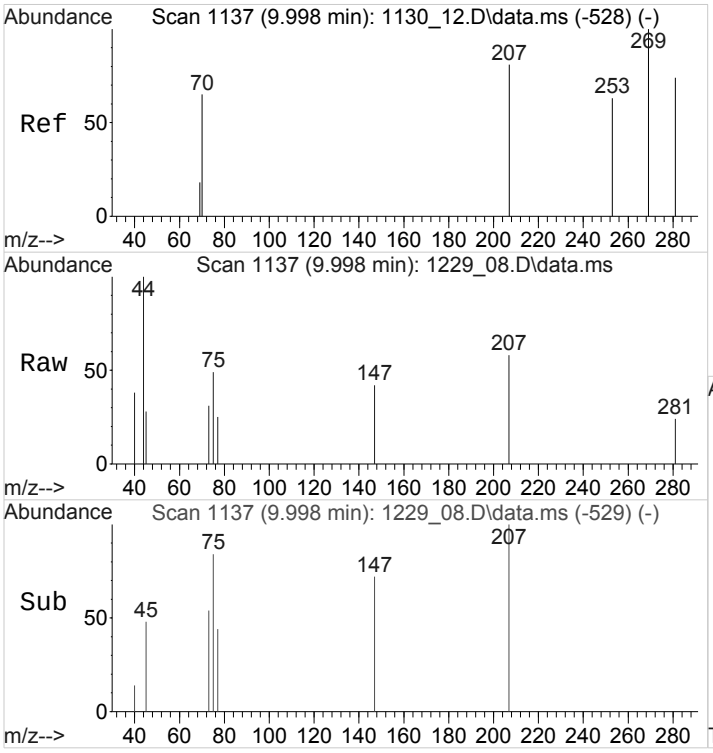


#73
M&P-Xylene
Concen: 0.1072781 ppbv
RT: 11.531 min Scan# 1389
Delta R.T. 0.000 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion: 91 Resp: 1903

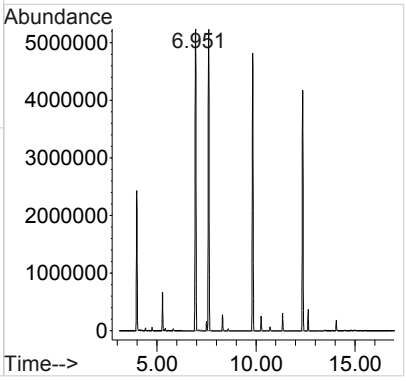
Ion	Ratio	Lower	Upper
91	100		
106	49.7	39.7	59.5



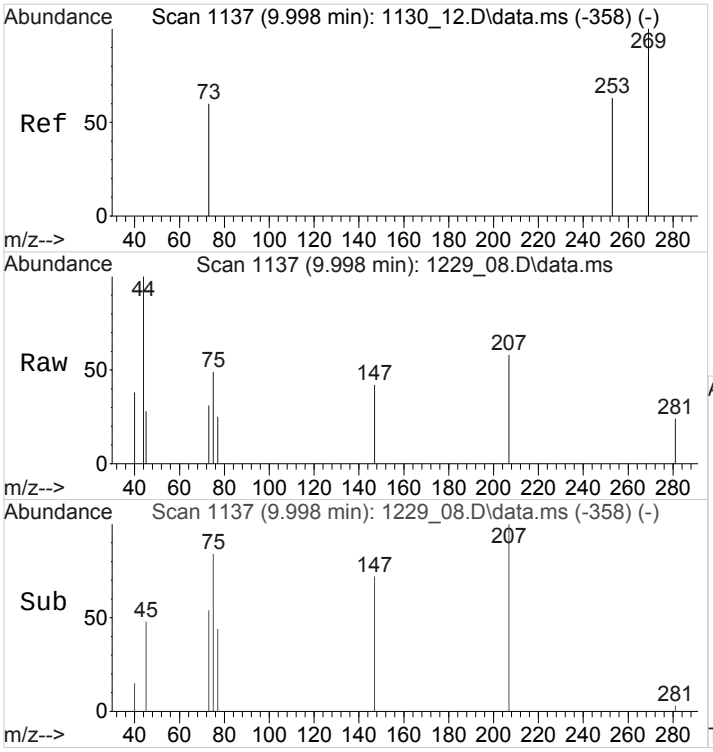


#101
TPH (GC/MS) Low Fraction
Concen: 1732.5816816 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion:TIC Resp:60874485

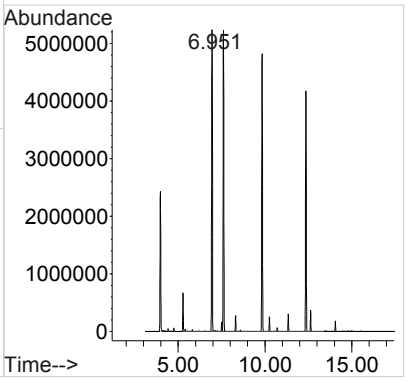


ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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#102
TPH-GRO (C5-C10)
Concen: 2107.9144117 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_08.D
Acq: 29 Dec 2022 3:52 pm

Tgt Ion:TIC Resp:62503532



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
776-VMP-1_1222

Lab Sample ID:	L1570570-05	**SDG:**	L1570570
Client Sample ID:	776-VMP-1_1222	**Collected Date/Time:**	12/22/22 09:00
Lab File ID:	1229_09	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 16:35
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 16:35
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.82	7.46		1.39	2.85	5.70
Benzene	71-43-2	8.03	0.495	J	0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	0	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	0.735	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	11.41	0.867	U	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	0	0.982	U	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.41	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	2.69	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.69	1.13	J	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	6.20	0.354	J	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	1.07	J	0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	12.02	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	0	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	9.82	0.889	J	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570570-05	**SDG:**	L1570570
Client Sample ID:	776-VMP-1_1222	**Collected Date/Time:**	12/22/22 09:00
Lab File ID:	1229_09	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 16:35
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 16:35
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	0	0.804	U	0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	0	0.982	U	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	1.30	U	0.585	1.30	2.60
o-Xylene	95-47-6	11.99	0.759	U	0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_09.D
Acq On : 29 Dec 2022 4:35 pm
Operator :
Sample : L1570570-05 1x WG1980894
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 31 07:18:02 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

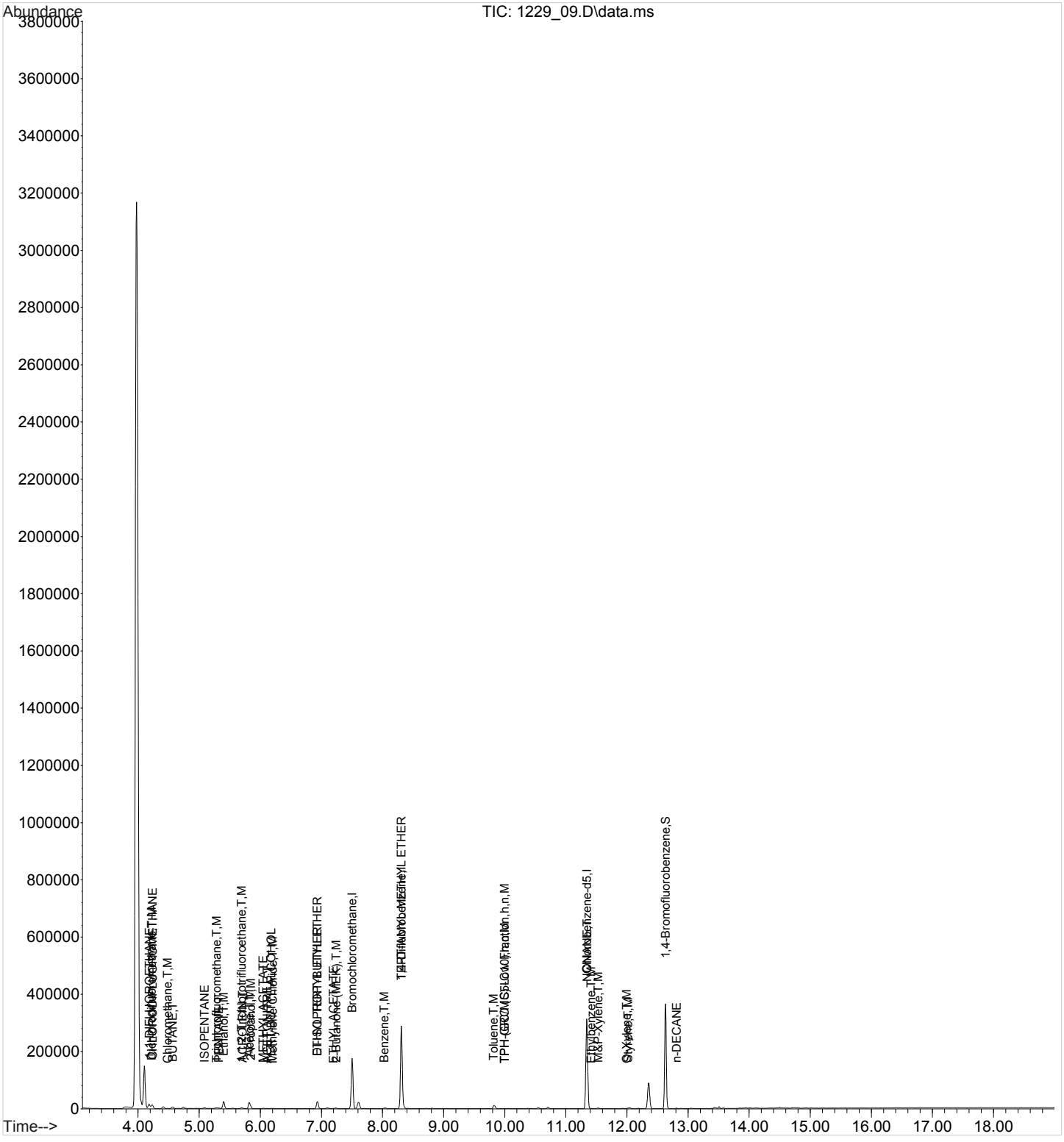
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	77392	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.307	114	277657	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	236624	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	138292	3.4252611	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 85.63%				
Target Compounds							Qvalue
3) BUTANE	4.566	43	4516	0.6359123	ppbv		97
4) 1,1-DIFLUOROETHANE	4.182	51	10303	1.6883384	ppbv		91
5) Dichlorodifluoromethane	4.219	85	7135	0.5433762	ppbv		100
6) CHLORODIFLUOROMETHANE	4.237	51	13471	1.8201206	ppbv		100
8) Chloromethane	4.481	50	1679	0.3556938	ppbv		97
13) ISOPENTANE	5.089	43	1378	0.2809246	ppbv	#	90
15) Trichlorofluoromethane	5.284	101	2753	0.2504554	ppbv		99
16) PENTANE	5.320	43	1460	0.1447020	ppbv	#	93
17) Ethanol	5.399	45	32706	13.1644249	ppbv		100
18) ACROLEIN	5.709	56	528	0.2289428	ppbv		98
19) 1,1,2-Trichlorotrifluo...	5.691	101	1744	0.1466529	ppbv		99
21) Acetone	5.819	43	26687	3.1424100	ppbv		90
23) 2-Propanol	5.843	45	9853	1.0507156	ppbv	#	1
26) METHYL ACETATE	6.044	43	1006	0.1066213	ppbv	#	92
27) ACETONITRILE	6.111	41	497	0.0947016	ppbv	#	83
28) Methylene Chloride	6.202	49	598	0.1021442	ppbv		91
29) TERT-BUTYL ALCOHOL	6.178	59	1352	0.1369496	ppbv	#	1
36) DI-ISOPROPYL ETHER	6.932	45	4686	0.2932081	ppbv	#	57
37) ETHYL TERT-BUTYL ETHER	6.932	59	860	0.0507755	ppbv	#	45
38) ETHYL ACETATE	7.194	45	193	0.1095081	ppbv	#	30
39) 2-Butanone (MEK)	7.242	72	942	0.3627762	ppbv		90
48) Benzene	8.027	78	2420	0.1545013	ppbv		99
49) TERT-AMYL METHYL ETHER	8.307	73	2683	0.1740418	ppbv	#	56
62) Toluene	9.816	91	4742	0.2362355	ppbv		96
70) NONANE	11.349	43	723	0.0505277	ppbv	#	27
72) Ethylbenzene	11.410	91	1153	0.0508917	ppbv		97
73) M&P-Xylene	11.525	91	2224	0.1252584	ppbv		100
74) O-Xylene	11.994	91	988	0.0527572	ppbv		96
77) Styrene	12.018	104	842	0.0561721	ppbv		92
80) n-DECANE	12.815	43	779	0.0656762	ppbv	#	80
101) TPH (GC/MS) Low Fraction	10.000	TIC	646002m	18.3692599	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	808094m	27.2276236	ppbv		

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

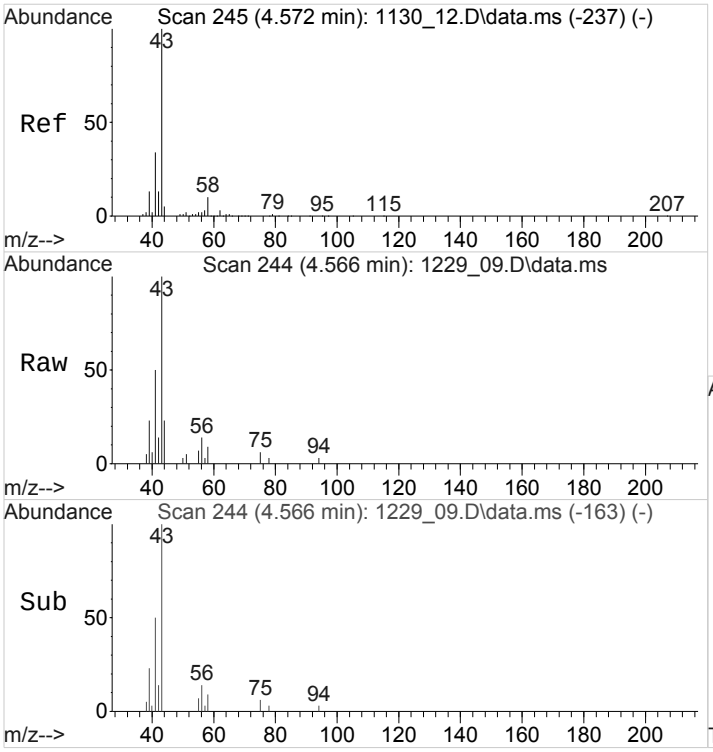
Quantitation Report (QT Reviewed)

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Data File : 1229_09.D
Acq On : 29 Dec 2022 4:35 pm
Operator :
Sample : L1570570-05 1x WG1980894
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 31 07:18:02 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration



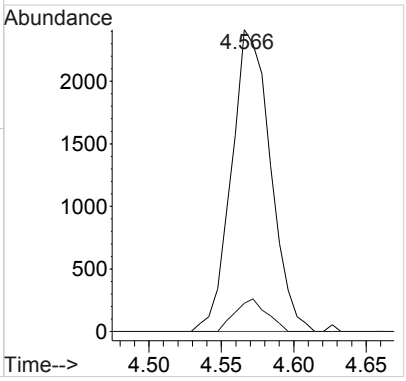
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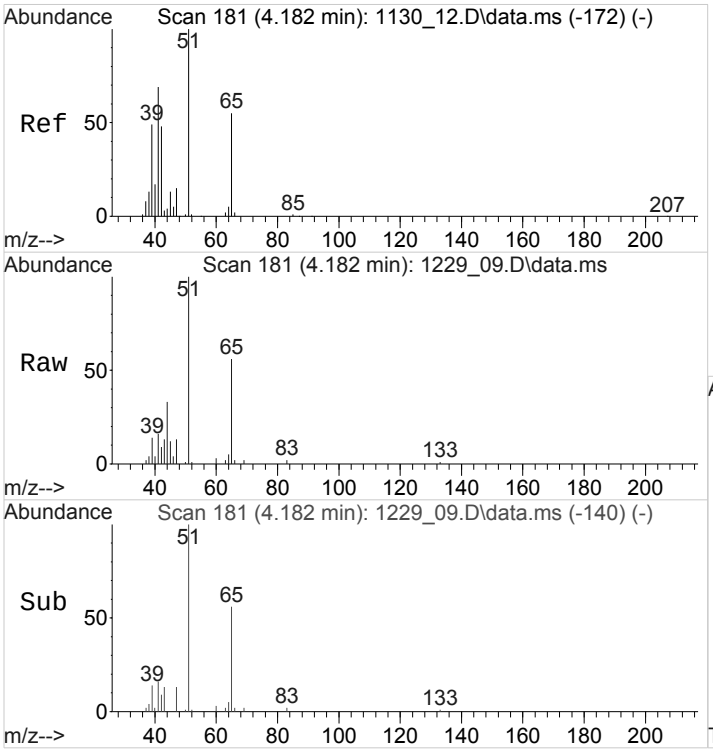


#3
BUTANE
Concen: 0.6359123 ppbv
RT: 4.566 min Scan# 244
Delta R.T. -0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 43 Resp: 4516

Ion	Ratio	Lower	Upper
43	100		
58	8.8	8.0	12.0

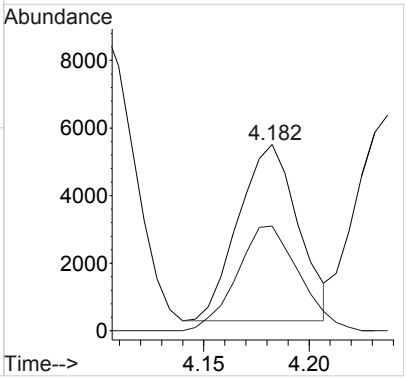




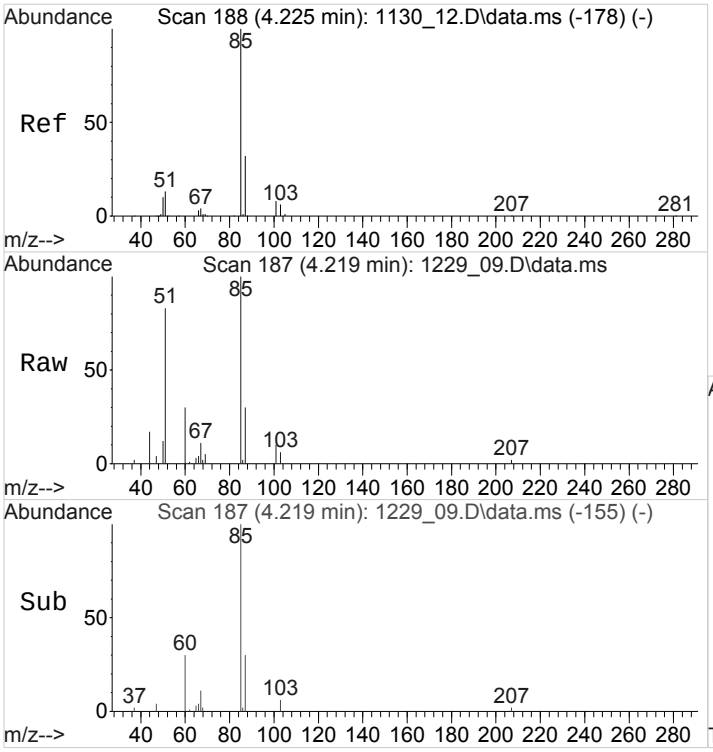
#4
1,1-DIFLUOROETHANE
Concen: 1.6883384 ppbv
RT: 4.182 min Scan# 181
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 51 Resp: 10303

Ion	Ratio	Lower	Upper
51	100		
65	61.8	44.1	66.1



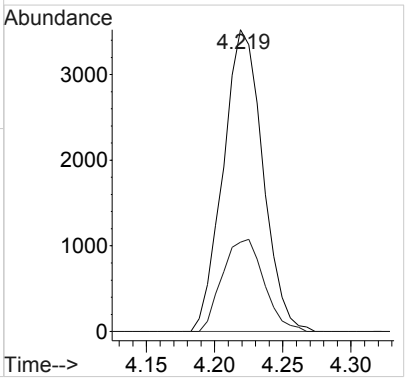
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BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	100 of 471

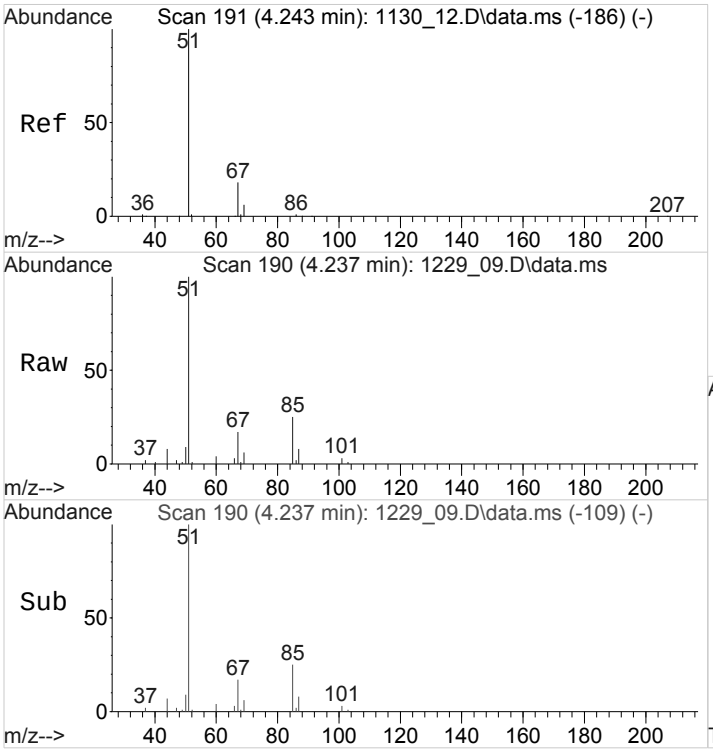


#5
Dichlorodifluoromethane
Concen: 0.5433762 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 85 Resp: 7135

Ion	Ratio	Lower	Upper
85	100		
87	32.0	25.8	38.6

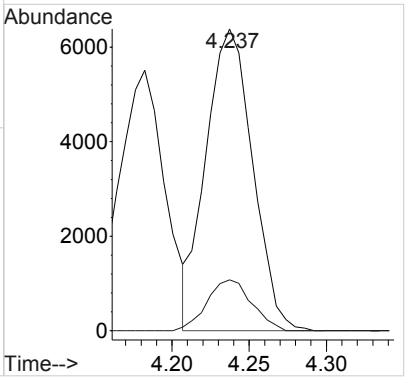




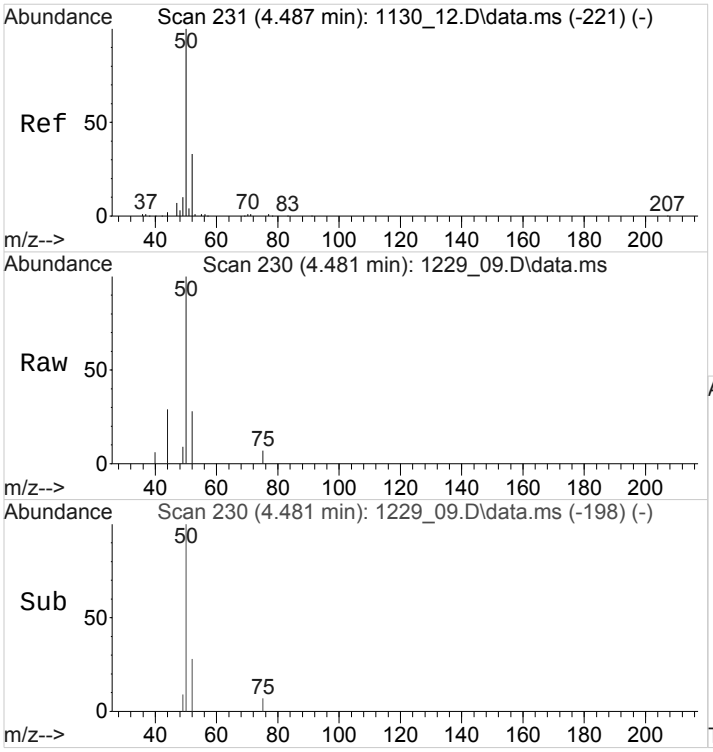
#6
CHLORODIFLUOROMETHANE
Concen: 1.8201206 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 51 Resp: 13471

Ion	Ratio	Lower	Upper
51	100		
67	16.2	13.0	19.4



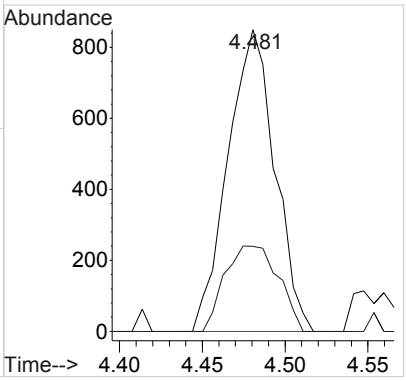
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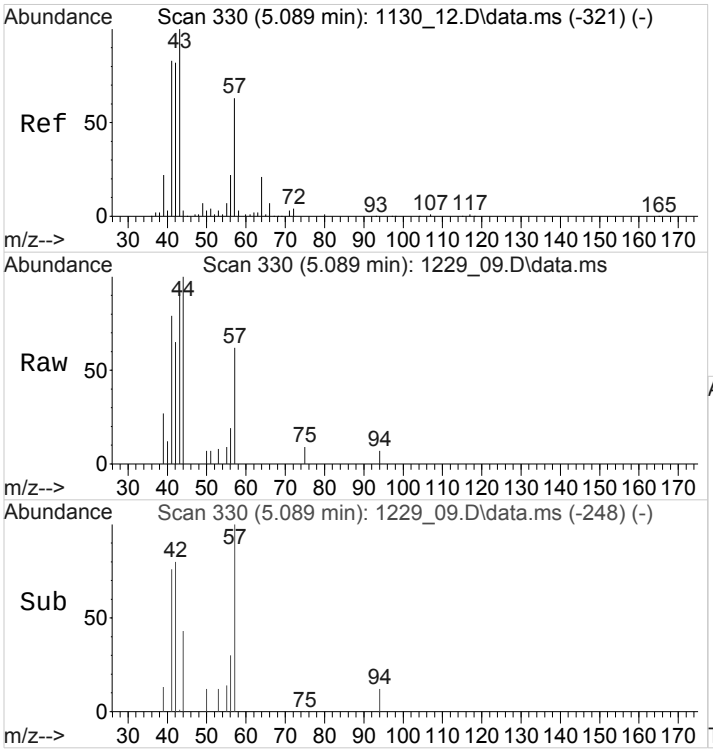


#8
Chloromethane
Concen: 0.3556938 ppbv
RT: 4.481 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 50 Resp: 1679

Ion	Ratio	Lower	Upper
50	100		
52	32.3	27.1	40.7

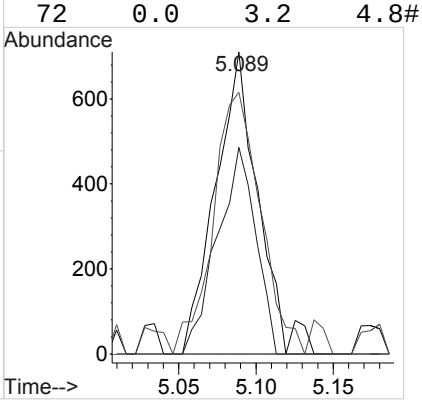




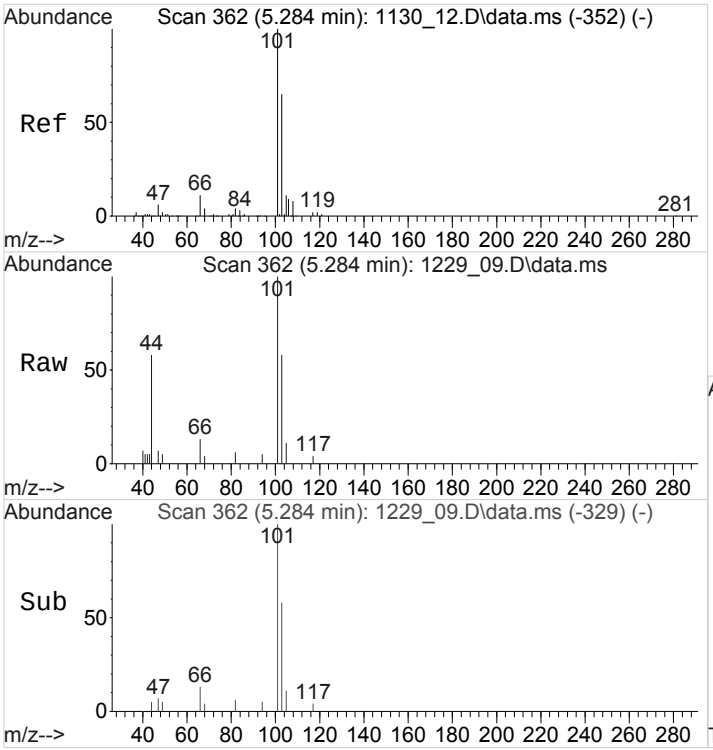
#13
ISOPENTANE
Concen: 0.2809246 ppbv
RT: 5.089 min Scan# 330
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 43 Resp: 1378

Ion	Ratio	Lower	Upper
43	100		
57	61.2	51.7	77.5
41	95.6	66.4	99.6
72	0.0	3.2	4.8#



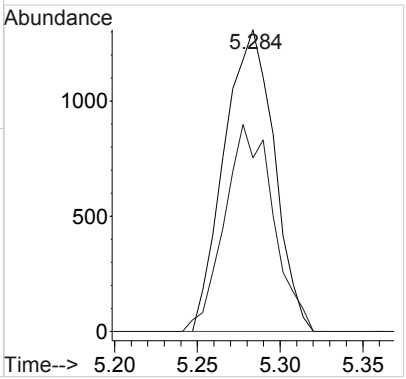
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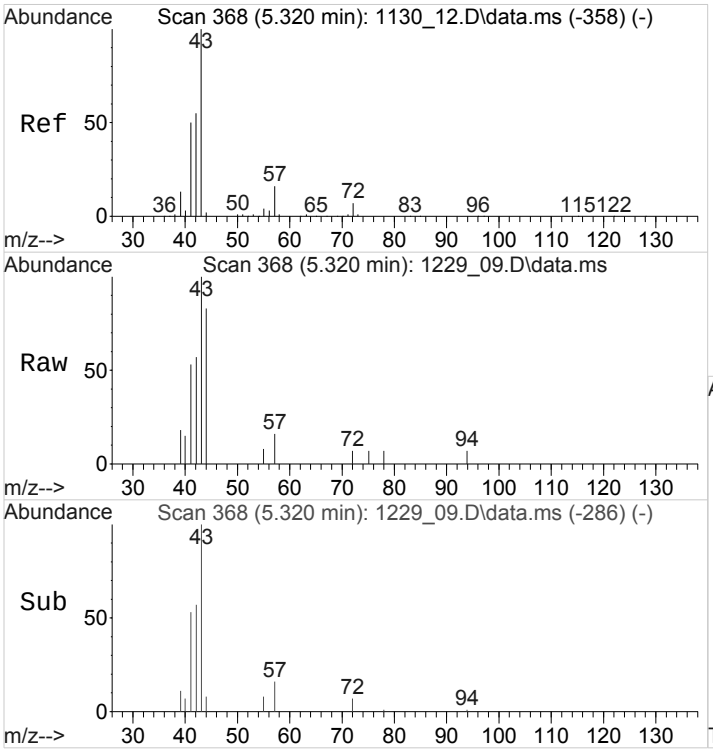


#15
Trichlorofluoromethane
Concen: 0.2504554 ppbv
RT: 5.284 min Scan# 362
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion:101 Resp: 2753

Ion	Ratio	Lower	Upper
101	100		
103	66.9	52.8	79.2

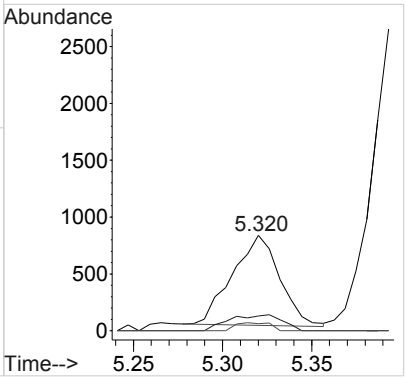




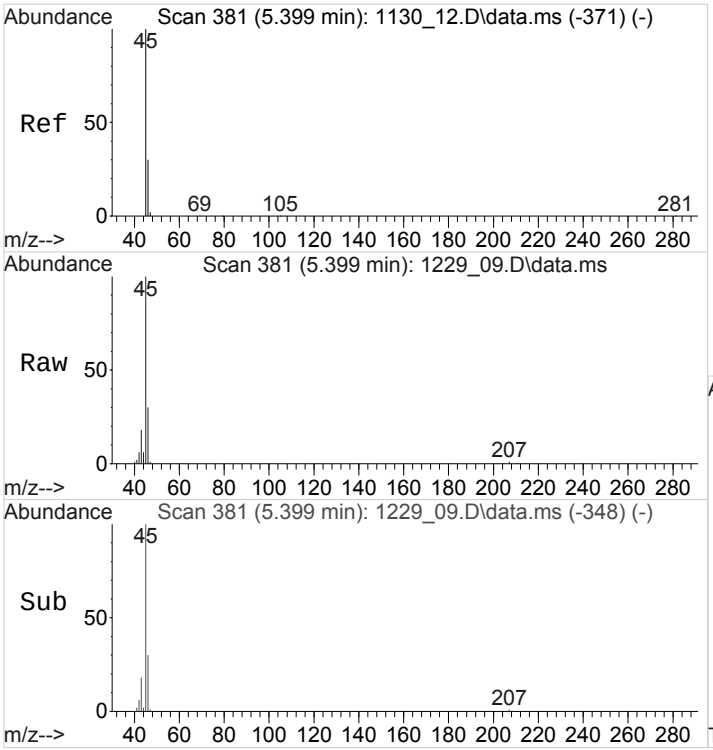
#16
PENTANE
Concen: 0.1447020 ppbv
RT: 5.320 min Scan# 368
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 43 Resp: 1460

Ion	Ratio	Lower	Upper
43	100		
57	19.9	13.0	19.4#
72	6.5	5.8	8.8



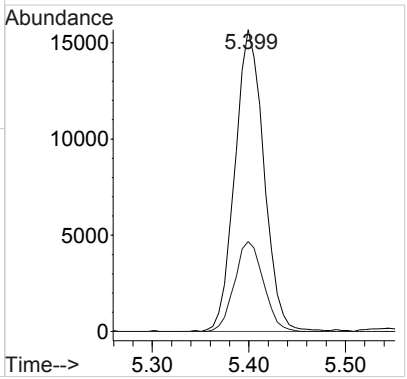
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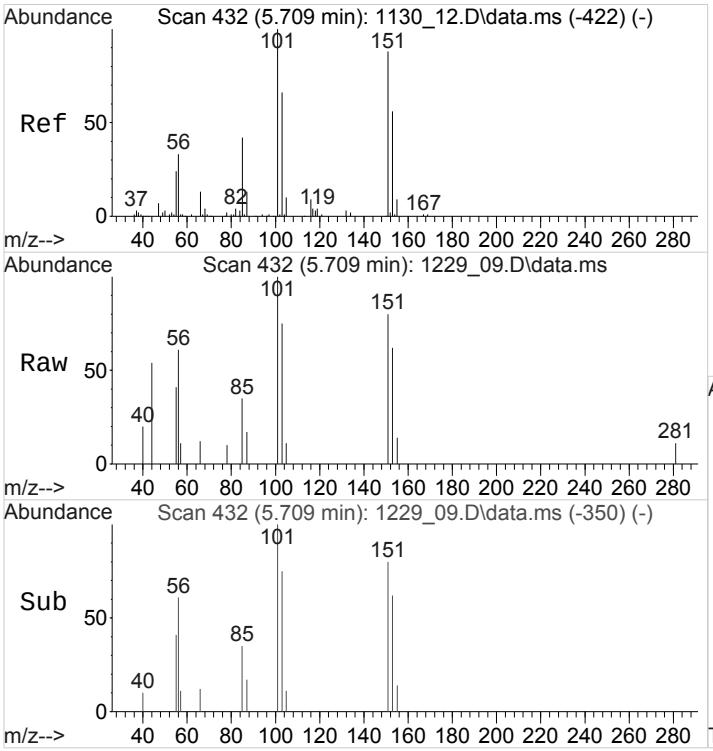


#17
Ethanol
Concen: 13.1644249 ppbv
RT: 5.399 min Scan# 381
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 45 Resp: 32706

Ion	Ratio	Lower	Upper
45	100		
46	29.7	23.6	35.4

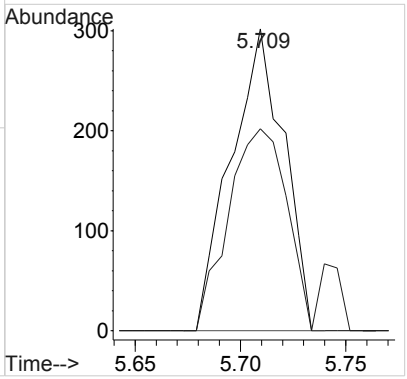




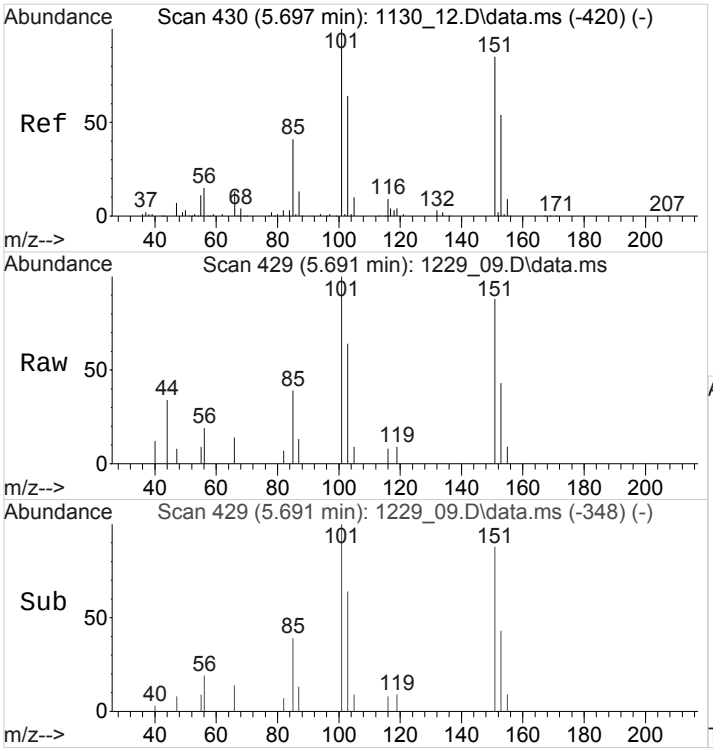
#18
ACROLEIN
Concen: 0.2289428 ppbv
RT: 5.709 min Scan# 432
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 56 Resp: 528

Ion	Ratio	Lower	Upper
56	100		
55	74.1	60.4	90.6



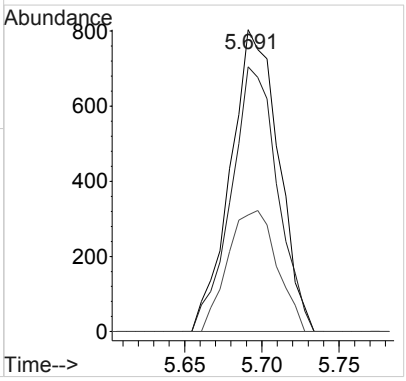
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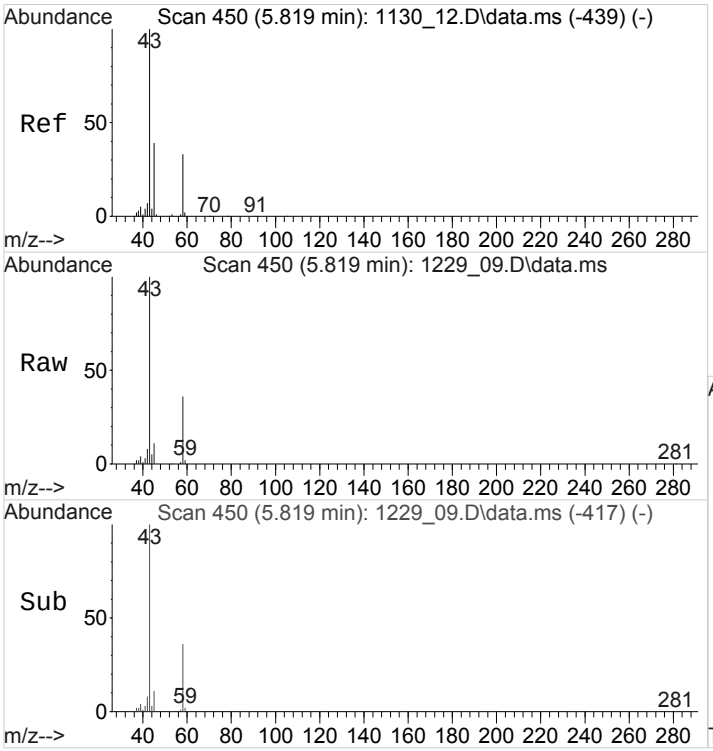


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.1466529 ppbv
RT: 5.691 min Scan# 429
Delta R.T. -0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion:101 Resp: 1744

Ion	Ratio	Lower	Upper
101	100		
151	84.9	67.4	101.2
85	41.1	34.4	51.6

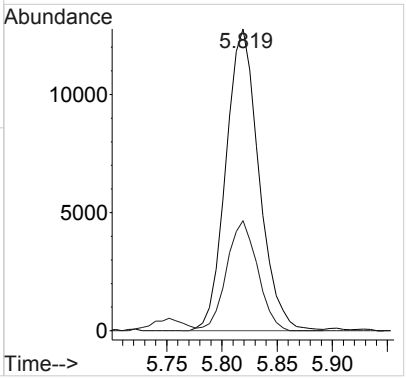




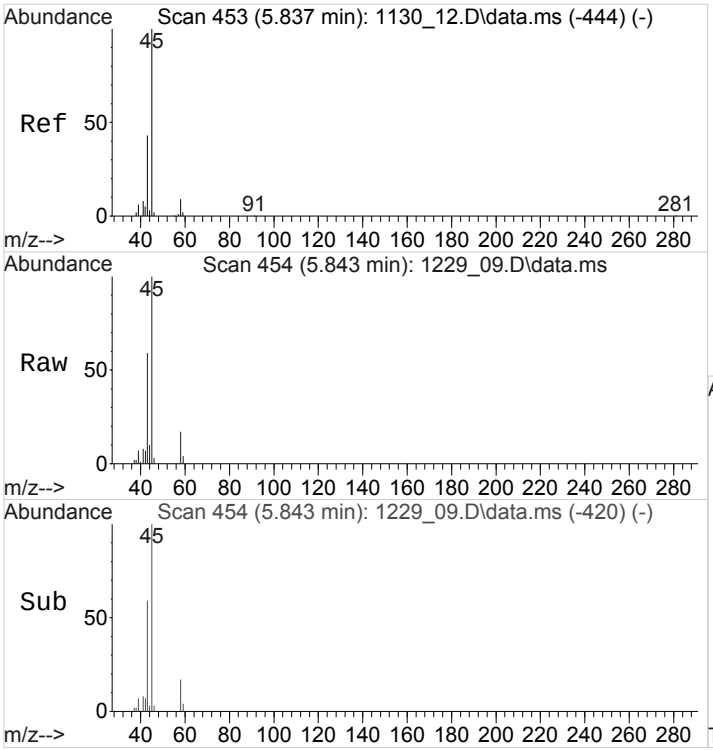
#21
Acetone
Concen: 3.1424100 ppbv
RT: 5.819 min Scan# 450
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 43 Resp: 26687

Ion	Ratio	Lower	Upper
43	100		
58	34.2	23.1	34.7



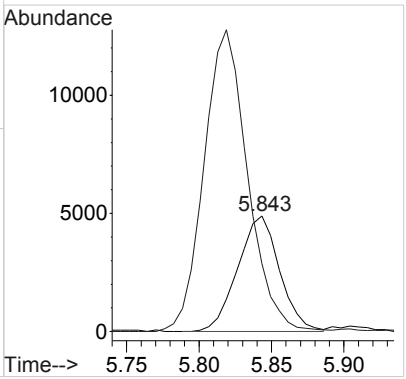
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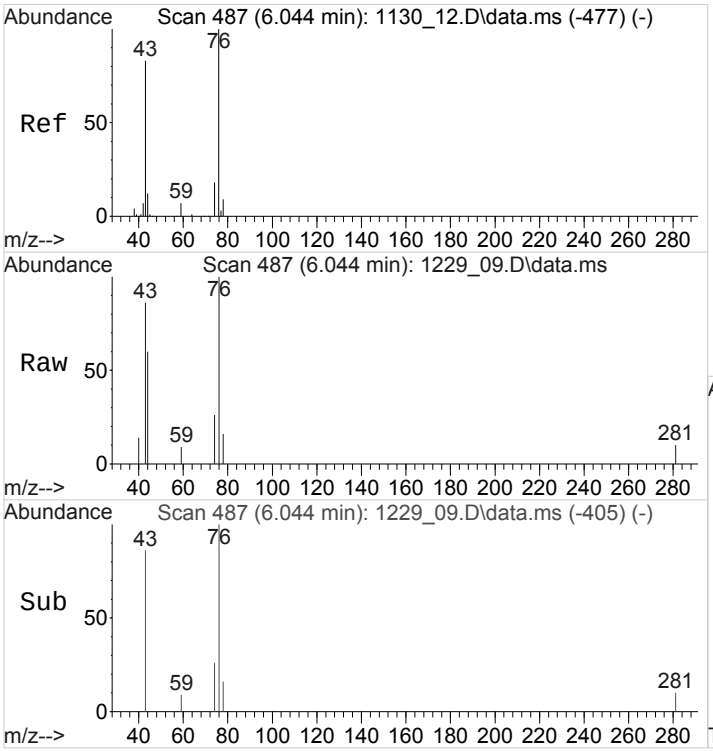


#23
2-Propanol
Concen: 1.0507156 ppbv
RT: 5.843 min Scan# 454
Delta R.T. 0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 45 Resp: 9853

Ion	Ratio	Lower	Upper
45	100		
43	270.9	73.5	110.3#

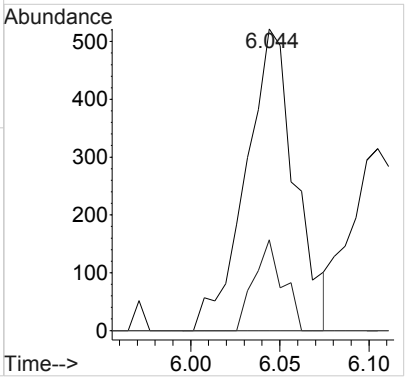




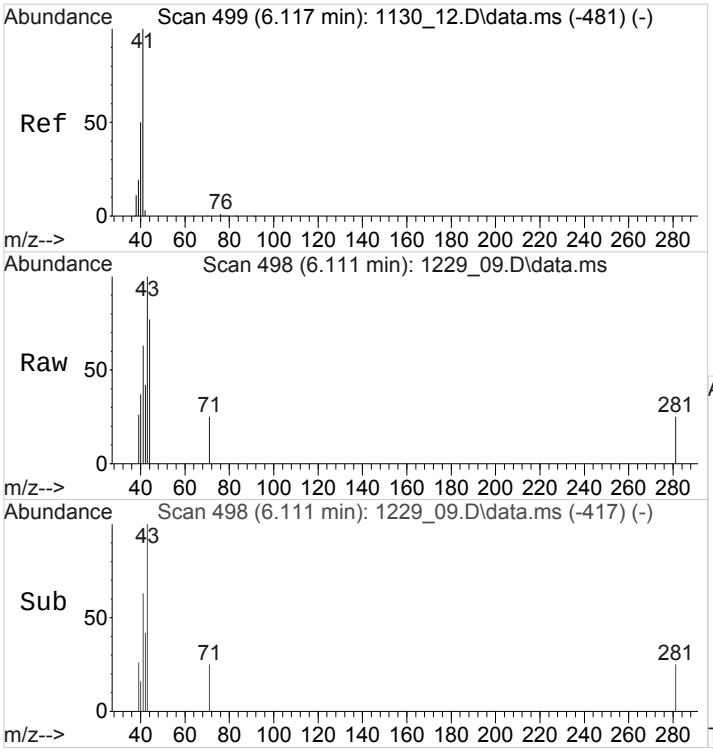
#26
METHYL ACETATE
Concen: 0.1066213 ppbv
RT: 6.044 min Scan# 487
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 43 Resp: 1006

Ion	Ratio	Lower	Upper
43	100		
74	17.7	17.4	26.0
29	0.0	0.0	0.0



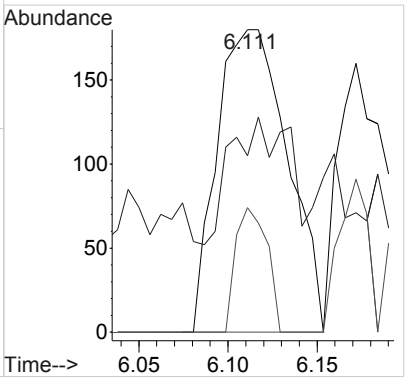
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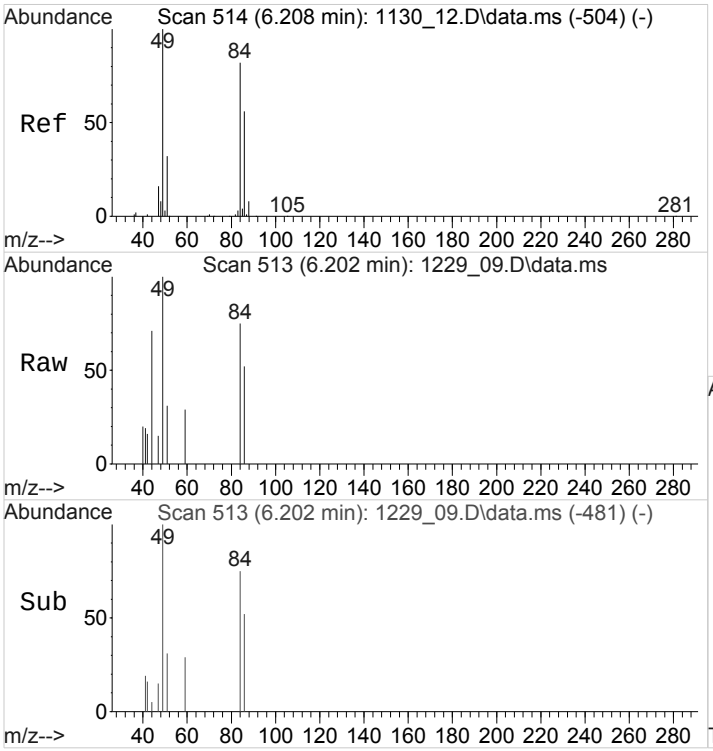


#27
ACETONITRILE
Concen: 0.0947016 ppbv
RT: 6.111 min Scan# 498
Delta R.T. -0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 41 Resp: 497

Ion	Ratio	Lower	Upper
41	100		
40	50.5	32.7	49.1#
39	18.3	22.7	34.1#

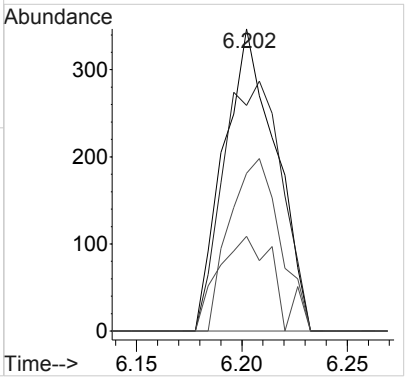


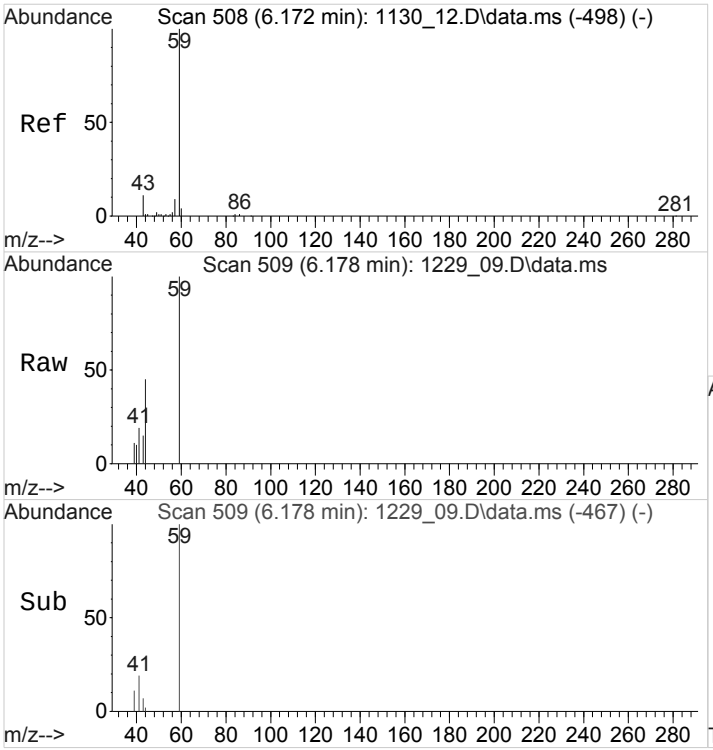


#28
Methylene Chloride
Concen: 0.1021442 ppbv
RT: 6.202 min Scan# 513
Delta R.T. -0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 49 Resp: 598

Ion	Ratio	Lower	Upper
49	100		
84	94.0	65.0	97.6
86	55.0	41.8	62.6
51	34.1	26.3	39.5

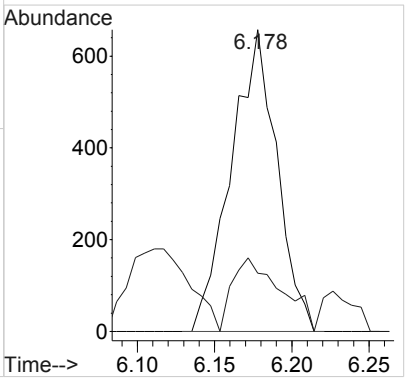


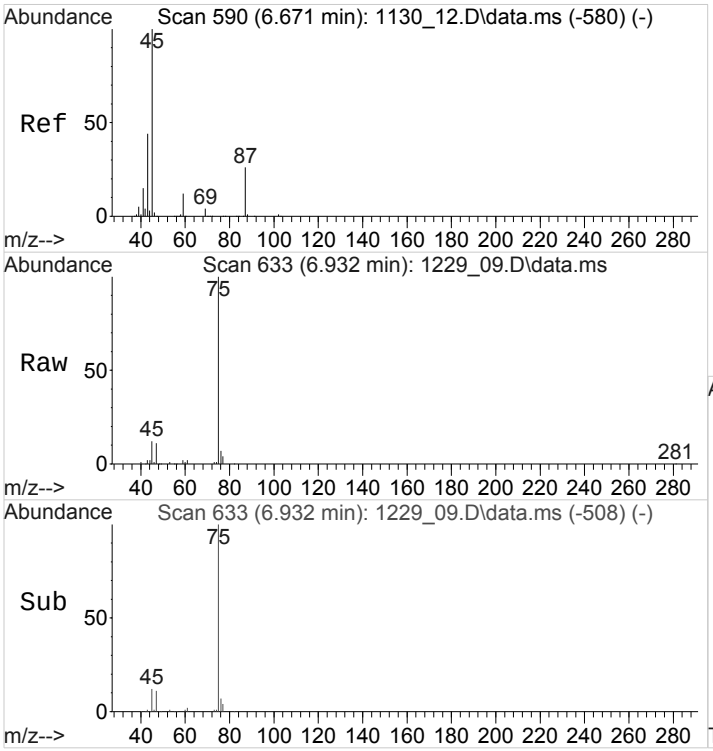


#29
TERT-BUTYL ALCOHOL
Concen: 0.1369496 ppbv
RT: 6.178 min Scan# 509
Delta R.T. 0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 59 Resp: 1352

Ion	Ratio	Lower	Upper
59	100		
41	26.0	216.4	324.6#

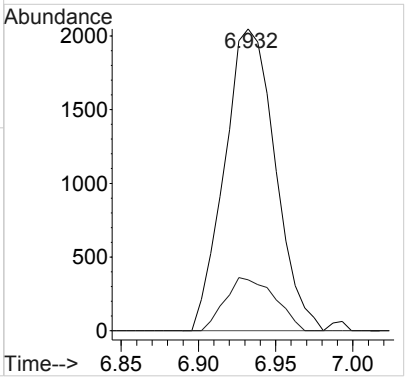


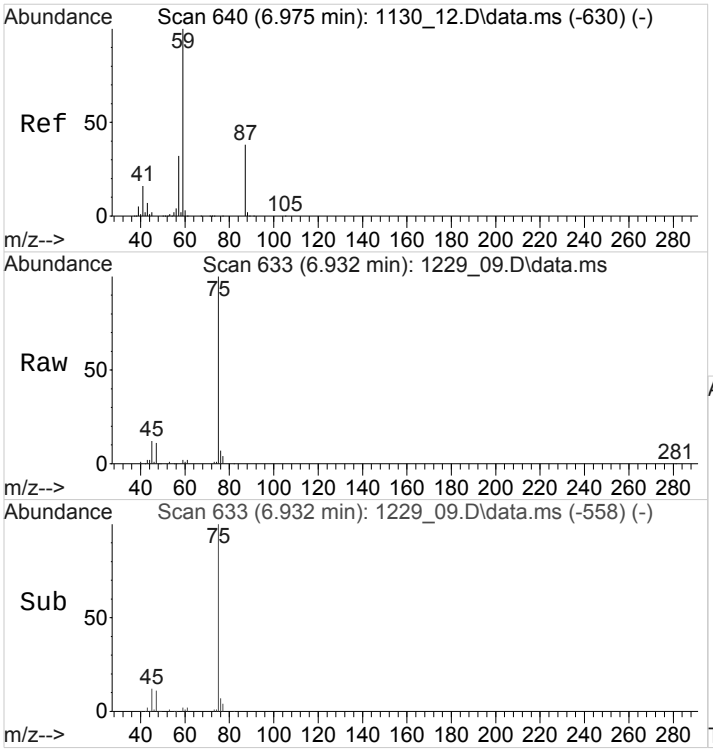


#36
DI-ISOPROPYL ETHER
Concen: 0.2932081 ppbv
RT: 6.932 min Scan# 633
Delta R.T. 0.262 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 45 Resp: 4686

Ion	Ratio	Lower	Upper
45	100		
43	17.3	36.7	55.1#

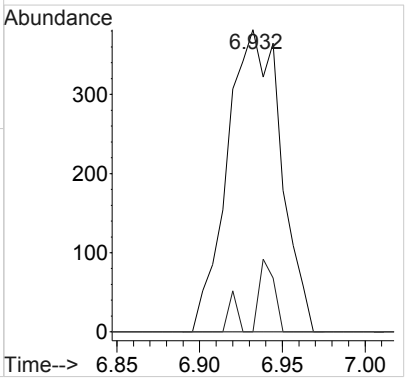


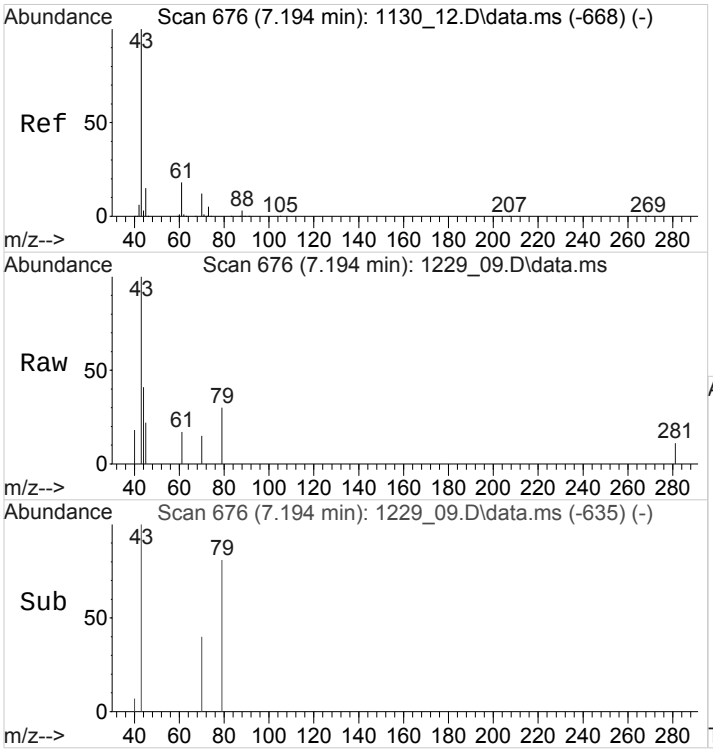


#37
ETHYL TERT-BUTYL ETHER
Concen: 0.0507755 ppbv
RT: 6.932 min Scan# 633
Delta R.T. -0.042 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 59 Resp: 860

Ion	Ratio	Lower	Upper
59	100		
57	6.7	26.6	39.8#
87	0.0	30.4	45.6#

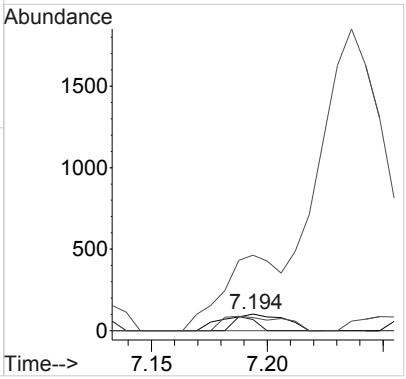




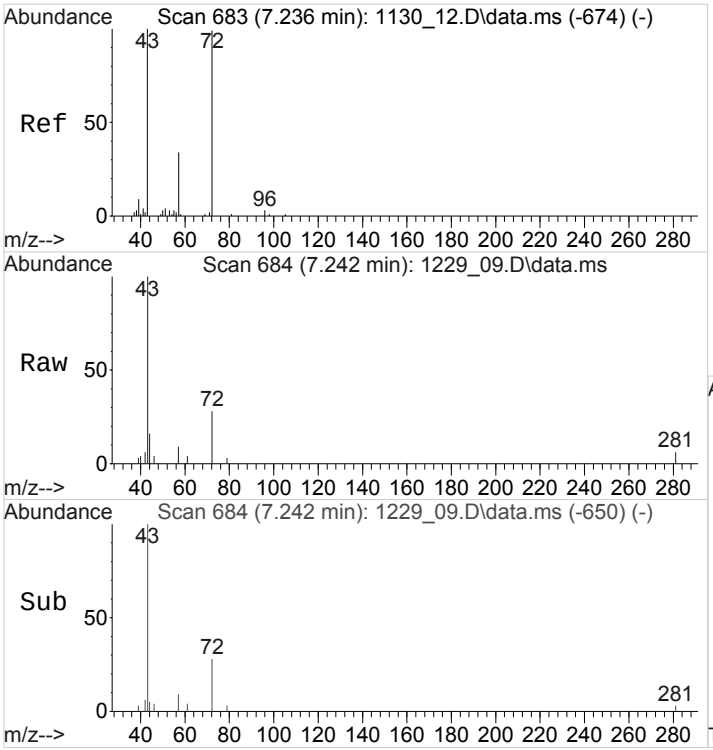
#38
ETHYL ACETATE
Concen: 0.1095081 ppbv
RT: 7.194 min Scan# 676
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 45 Resp: 193

Ion	Ratio	Lower	Upper
45	100		
70	29.0	60.5	90.7#
43	411.9	543.4	815.0#
61	85.0	89.8	134.6#



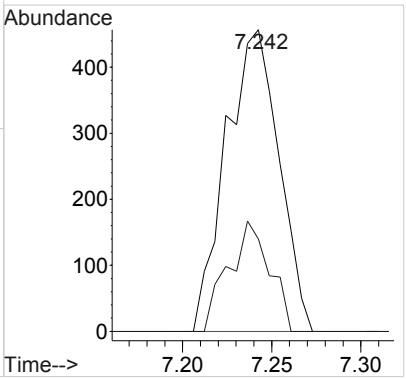
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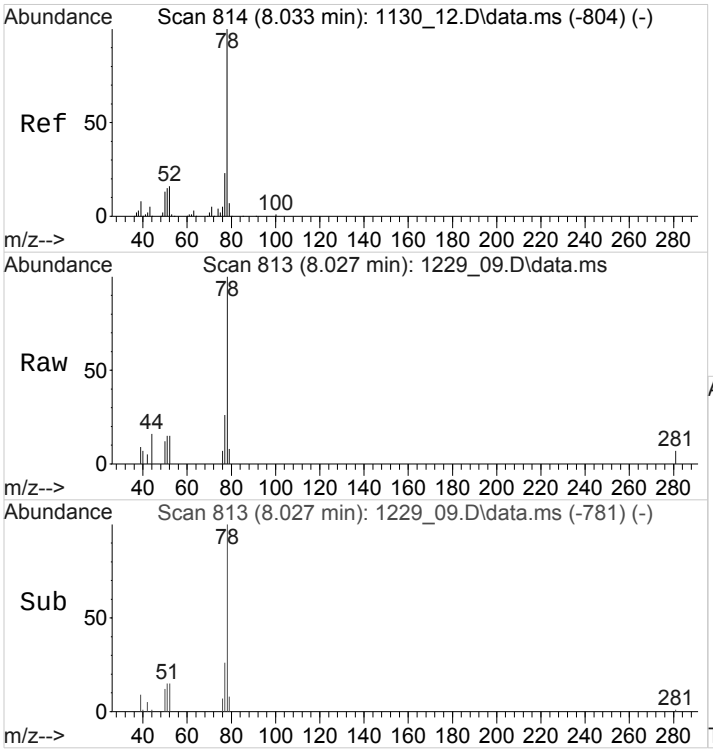


#39
2-Butanone (MEK)
Concen: 0.3627762 ppbv
RT: 7.242 min Scan# 684
Delta R.T. 0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 72 Resp: 942

Ion	Ratio	Lower	Upper
72	100		
57	28.5	27.3	40.9

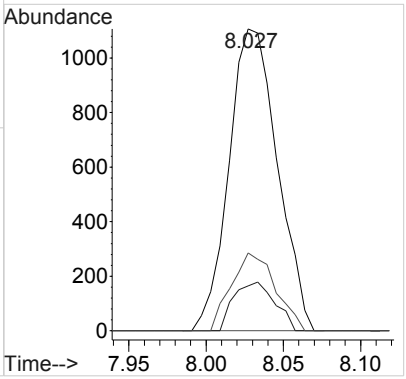




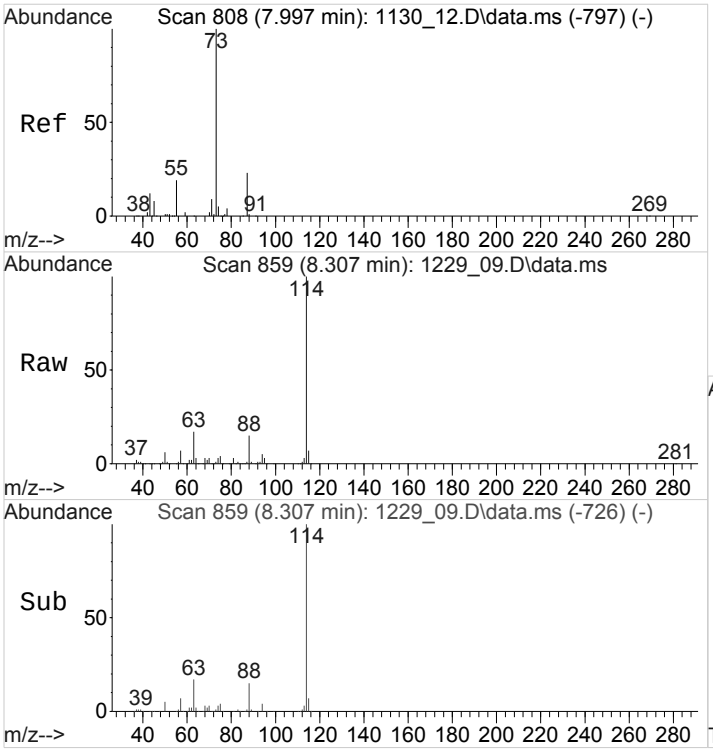
#48
Benzene
Concen: 0.1545013 ppbv
RT: 8.027 min Scan# 813
Delta R.T. -0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 78 Resp: 2420

Ion	Ratio	Lower	Upper
78	100		
51	13.7	12.1	18.1
77	23.5	18.8	28.2



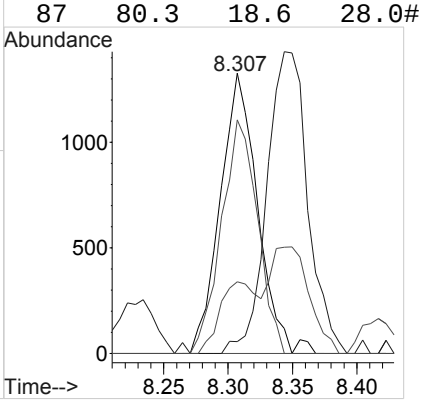
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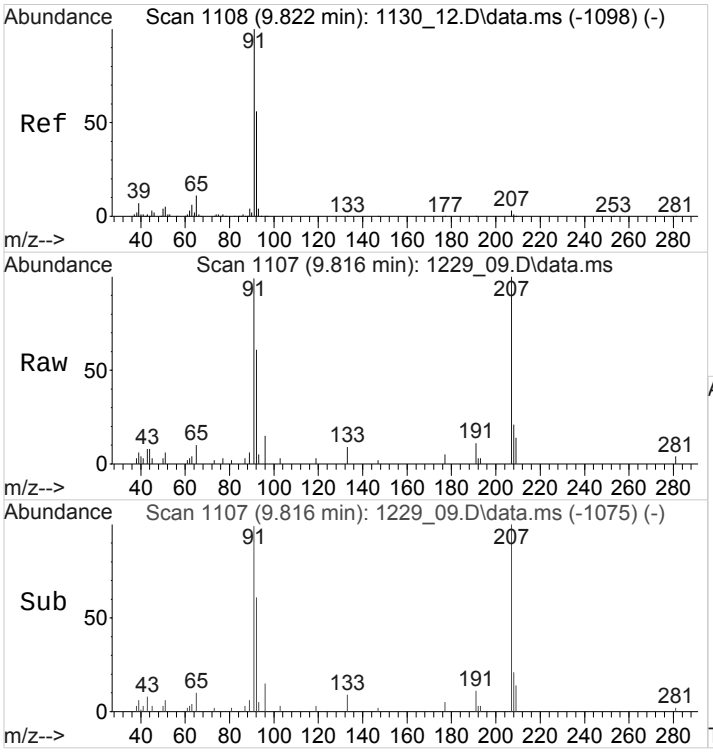


#49
TERT-AMYL METHYL ETHER
Concen: 0.1740418 ppbv
RT: 8.307 min Scan# 859
Delta R.T. 0.310 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 73 Resp: 2683

Ion	Ratio	Lower	Upper
73	100		
43	21.2	24.9	37.3#
55	26.2	18.8	28.2
87	80.3	18.6	28.0#

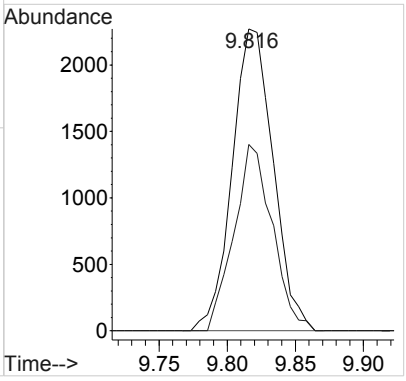




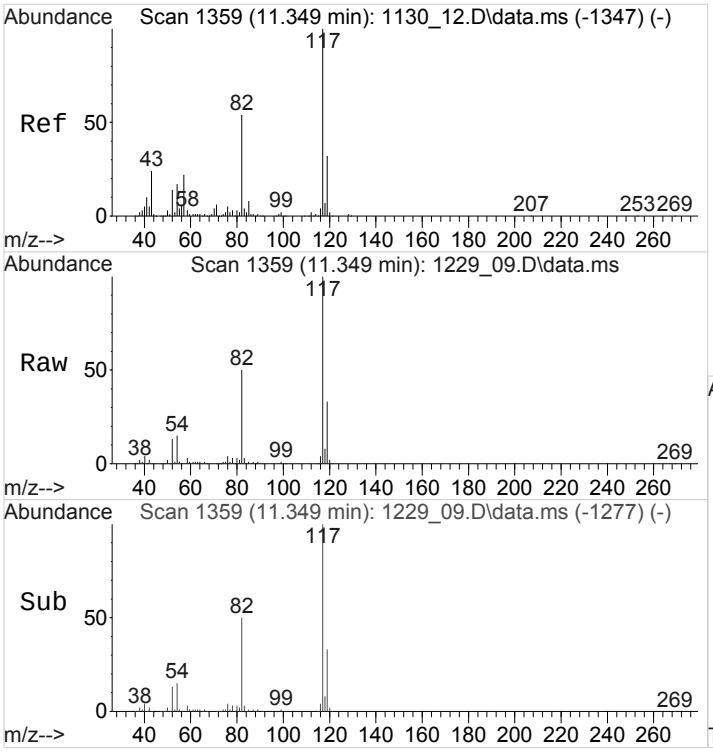
#62
Toluene
Concen: 0.2362355 ppbv
RT: 9.816 min Scan# 1107
Delta R.T. -0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 91 Resp: 4742

Ion	Ratio	Lower	Upper
91	100		
92	57.7	44.1	66.1



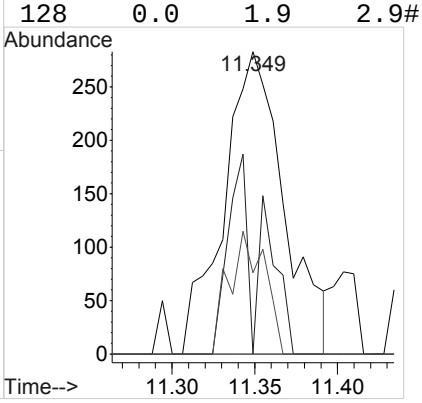
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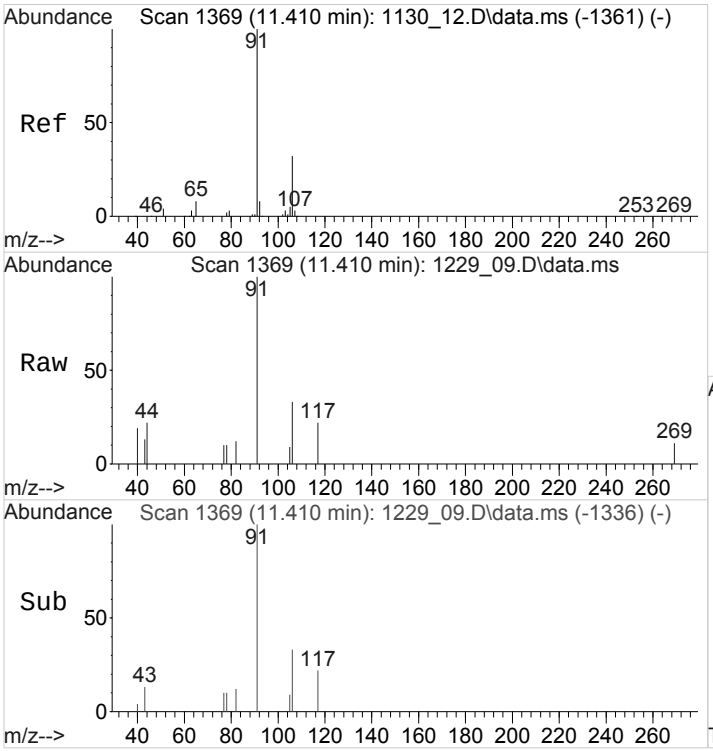


#70
NONANE
Concen: 0.0505277 ppbv
RT: 11.349 min Scan# 1359
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 43 Resp: 723

Ion	Ratio	Lower	Upper
43	100		
57	15.4	74.6	112.0#
71	0.0	20.0	30.0#
128	0.0	1.9	2.9#

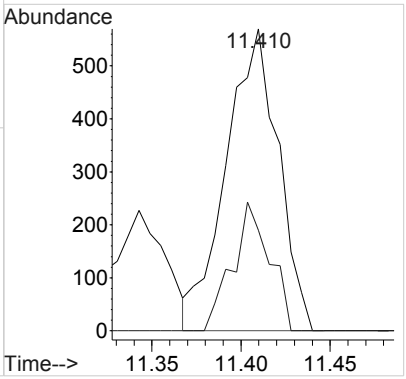




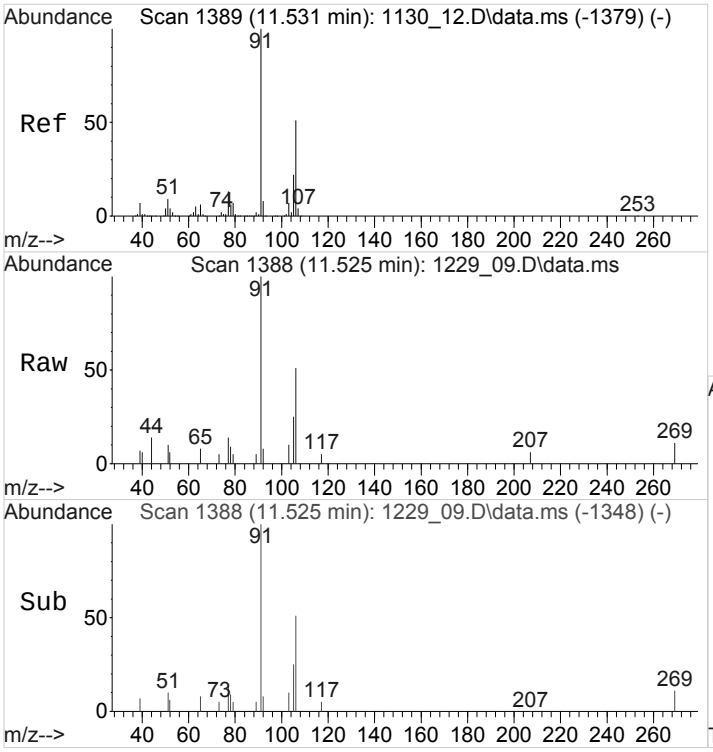
#72
Ethylbenzene
Concen: 0.0508917 ppbv
RT: 11.410 min Scan# 1369
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 91 Resp: 1153

Ion	Ratio	Lower	Upper
91	100		
106	30.4	25.6	38.4



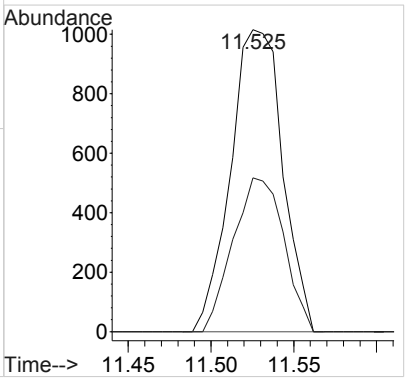
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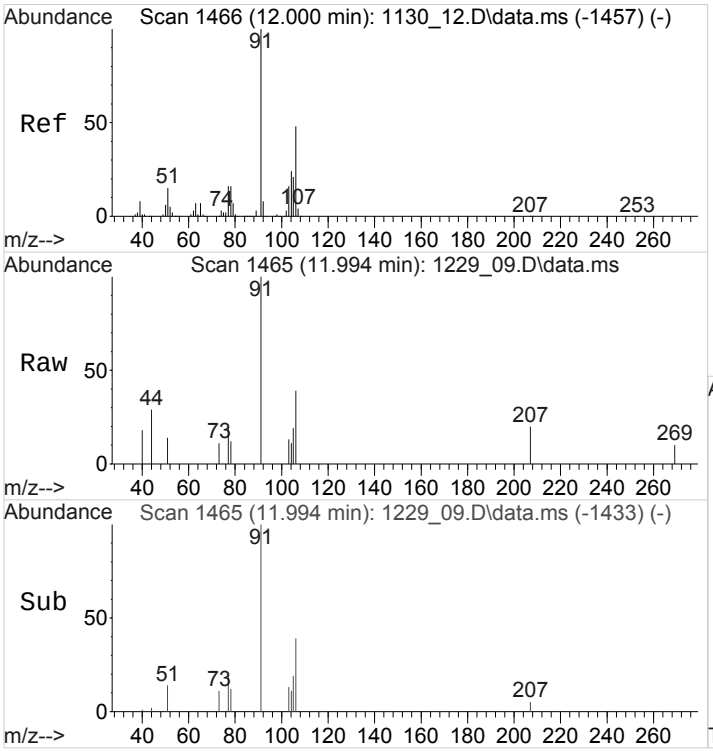


#73
M&P-Xylene
Concen: 0.1252584 ppbv
RT: 11.525 min Scan# 1388
Delta R.T. -0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 91 Resp: 2224

Ion	Ratio	Lower	Upper
91	100		
106	49.6	39.7	59.5

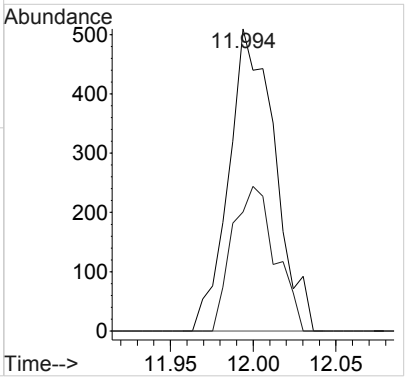




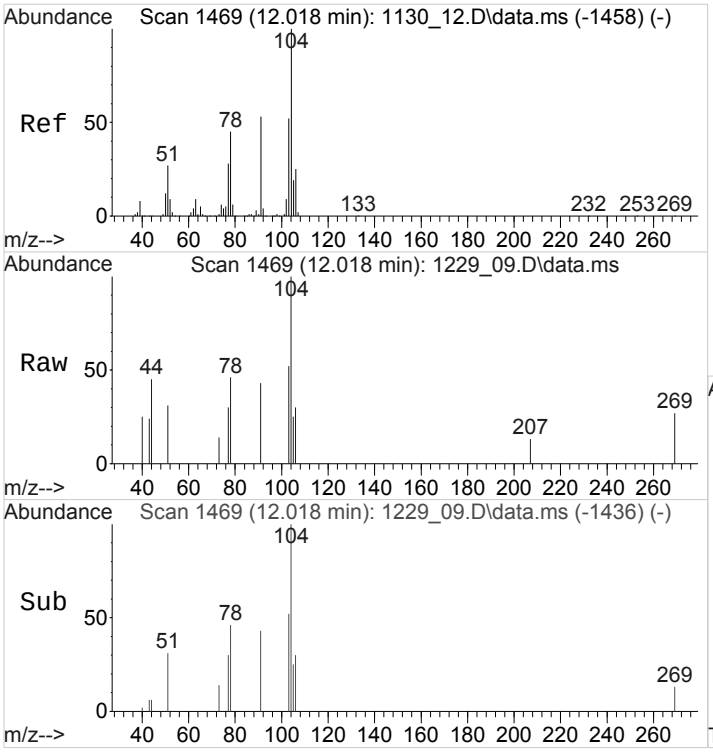
#74
O-Xylene
Concen: 0.0527572 ppbv
RT: 11.994 min Scan# 1465
Delta R.T. -0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 91 Resp: 988

Ion	Ratio	Lower	Upper
91	100		
106	45.1	38.4	57.6



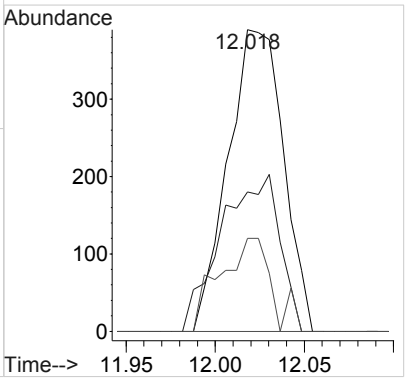
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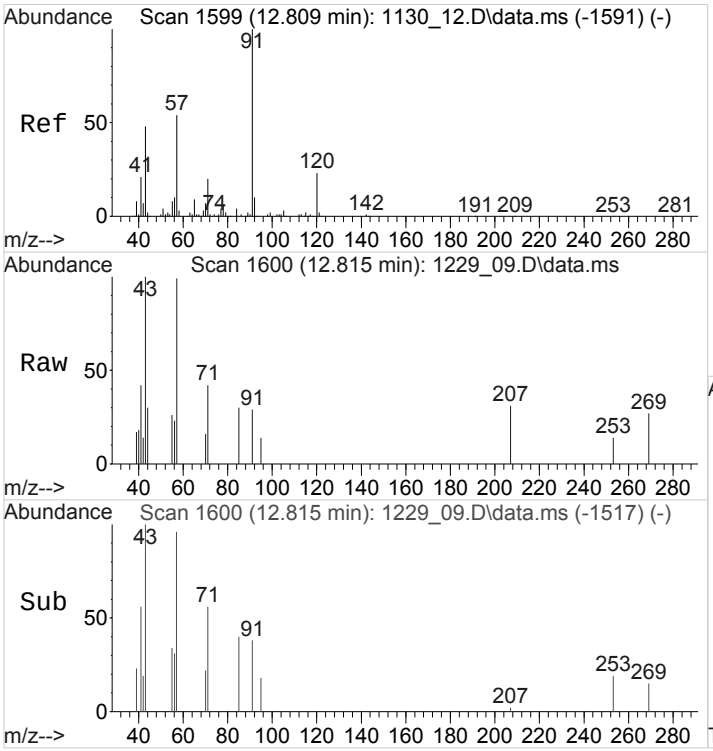


#77
Styrene
Concen: 0.0561721 ppbv
RT: 12.018 min Scan# 1469
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion:104 Resp: 842

Ion	Ratio	Lower	Upper
104	100		
78	54.9	38.6	58.0
51	29.0	26.1	39.1

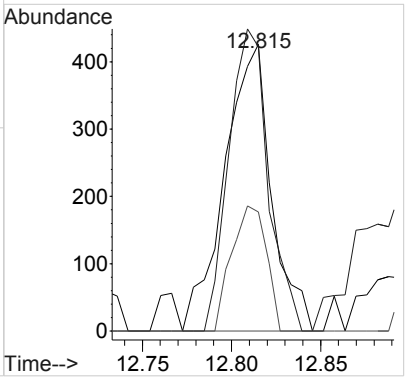




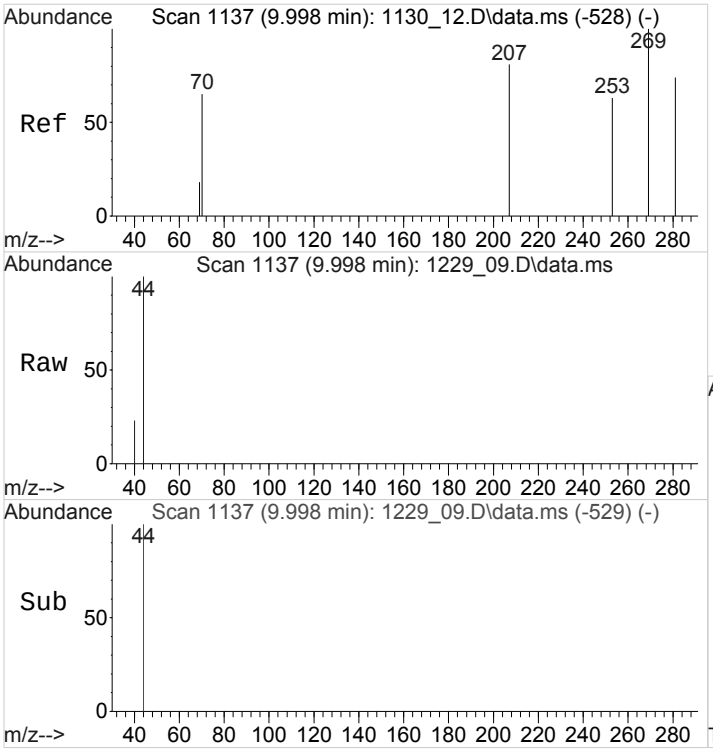
#80
n-DECANE
Concen: 0.0656762 ppbv
RT: 12.815 min Scan# 1600
Delta R.T. 0.006 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion: 43 Resp: 779

Ion	Ratio	Lower	Upper
43	100		
57	88.4	89.7	134.5#
71	32.3	34.1	51.1#

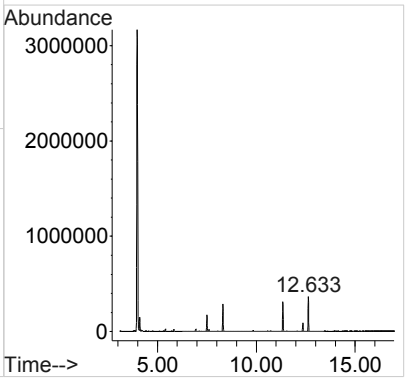


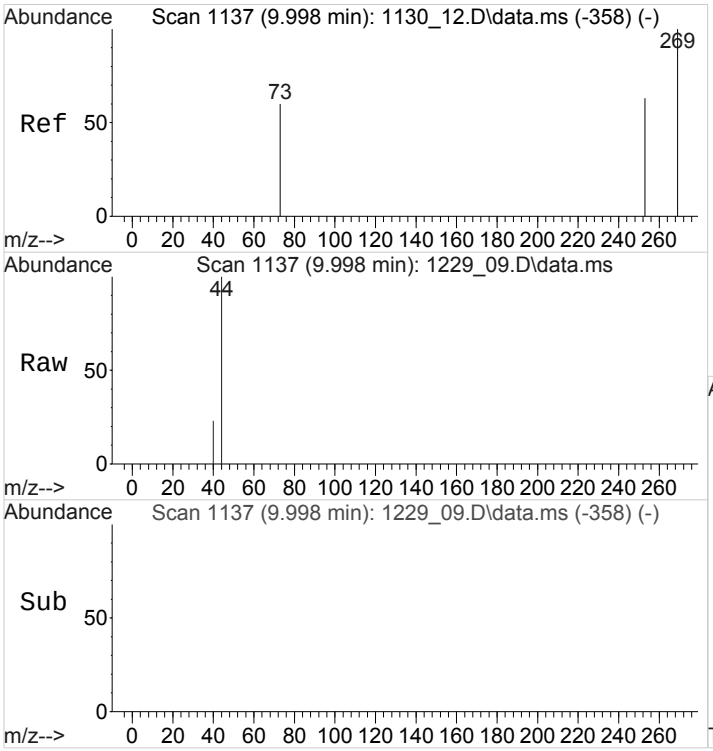
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#101
TPH (GC/MS) Low Fraction
Concen: 18.3692599 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

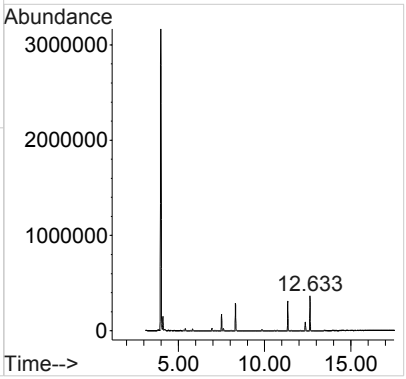
Tgt Ion:TIC Resp: 646002





#102
TPH-GRO (C5-C10)
Concen: 27.2276236 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_09.D
Acq: 29 Dec 2022 4:35 pm

Tgt Ion:TIC Resp: 808094



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
776-VMP-2_1222

Lab Sample ID:	L1570570-06	**SDG:**	L1570570
Client Sample ID:	776-VMP-2_1222	**Collected Date/Time:**	12/22/22 08:45
Lab File ID:	1229_10	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 17:19
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 17:19
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.81	41.1		1.39	2.85	5.70
Benzene	71-43-2	8.03	0.760	J	0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	7.83	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	0.754	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	11.41	1.58	J	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	0	0.982	U	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.78	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.23	4.48		0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	2.08	J	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	0	0.694	U	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	14.2		0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	15.82	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	10.39	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	0	0.942	U	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570570-06	**SDG:**	L1570570
Client Sample ID:	776-VMP-2_1222	**Collected Date/Time:**	12/22/22 08:45
Lab File ID:	1229_10	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 17:19
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 17:19
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.59	0.847	J	0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	13.31	1.22	J	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	5.51		0.585	1.30	2.60
o-Xylene	95-47-6	12	1.70		0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_10.D
Acq On : 29 Dec 2022 5:19 pm
Operator :
Sample : L1570570-06 1x WG1980894
Misc :
ALS Vial : 10 Sample Multiplier: 1

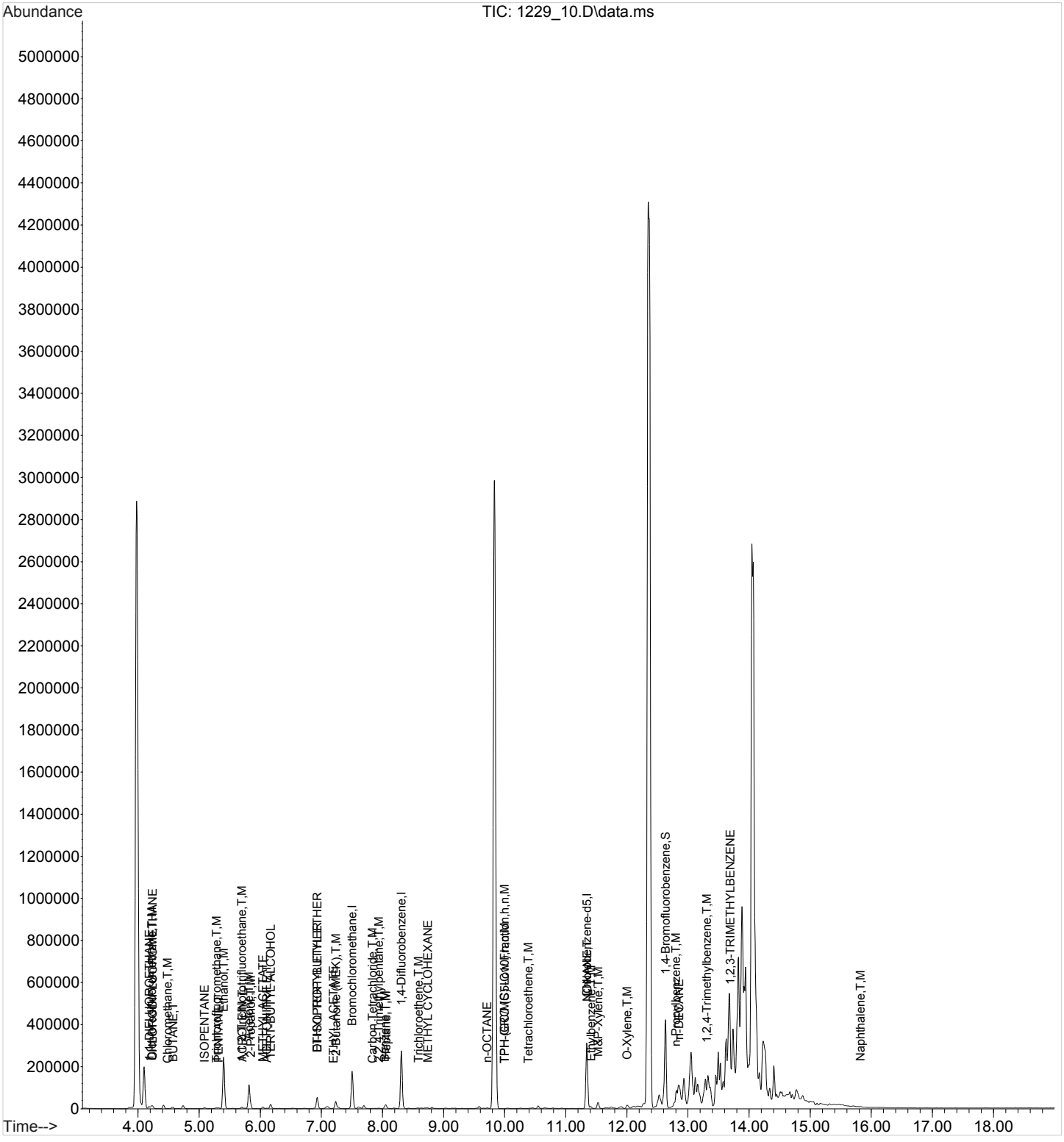
Quant Time: Dec 31 07:20:36 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

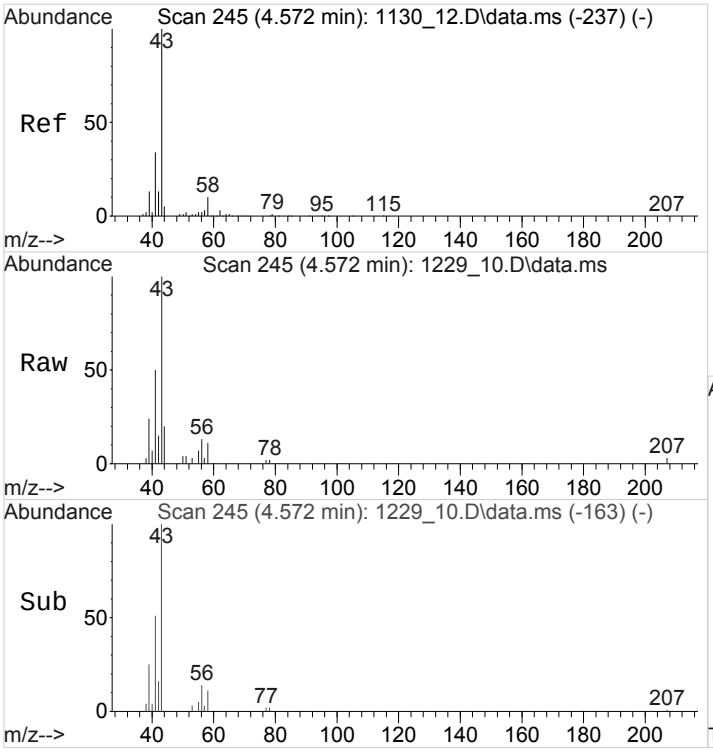
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	75272	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.307	114	267959	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	232664	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	136064	3.4274369	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 85.69%				
Target Compounds							Qvalue
3) BUTANE	4.572	43	4712	0.6821991	ppbv		100
4) 1,1-DIFLUOROETHANE	4.183	51	4742	0.7989507	ppbv		89
5) Dichlorodifluoromethane	4.225	85	11565	0.9055551	ppbv		99
6) CHLORODIFLUOROMETHANE	4.237	51	10554	1.4661555	ppbv		98
8) Chloromethane	4.481	50	1677	0.3652761	ppbv		95
13) ISOPENTANE	5.089	43	2176	0.4561020	ppbv		94
15) Trichlorofluoromethane	5.284	101	3377	0.3158770	ppbv		100
16) PENTANE	5.314	43	2750	0.2802315	ppbv	#	98
17) Ethanol	5.399	45	319230	132.1115452	ppbv		98
18) ACROLEIN	5.703	56	1002	0.4467077	ppbv		83
19) 1,1,2-Trichlorotrifluo...	5.697	101	3148	0.2721708	ppbv		95
21) Acetone	5.813	43	142599	17.2640301	ppbv	#	88
23) 2-Propanol	5.843	45	25745	2.8227486	ppbv	#	1
26) METHYL ACETATE	6.038	43	10771	1.1737204	ppbv	#	100
27) ACETONITRILE	6.105	41	1217	0.2384263	ppbv	#	91
29) TERT-BUTYL ALCOHOL	6.172	59	27154	2.8280068	ppbv	#	1
36) DI-ISOPROPYL ETHER	6.932	45	9736	0.6263497	ppbv	#	64
37) ETHYL TERT-BUTYL ETHER	6.932	59	1481	0.0899029	ppbv	#	65
38) ETHYL ACETATE	7.194	45	406	0.2368523	ppbv	#	1
39) 2-Butanone (MEK)	7.236	72	12198	4.8299113	ppbv		100
45) Carbon Tetrachloride	7.833	117	870	0.0729113	ppbv		90
46) 2,2,4-Trimethylpentane	7.936	57	2977	0.1178957	ppbv	#	78
48) Benzene	8.033	78	3603	0.2383534	ppbv	#	94
51) Heptane	8.058	43	8667	1.0448901	ppbv		97
52) Trichloroethene	8.587	95	1166	0.1577680	ppbv		97
54) METHYL CYCLOHEXANE	8.739	83	1756	0.1757426	ppbv		96
61) n-OCTANE	9.713	43	2640	0.2023576	ppbv	#	92
65) Tetrachloroethene	10.388	166	495	0.0512085	ppbv	#	73
70) NONANE	11.349	43	3321	0.2404920	ppbv	#	66
72) Ethylbenzene	11.410	91	8122	0.3645949	ppbv		97
73) M&P-Xylene	11.525	91	22178	1.2703518	ppbv		99
74) O-Xylene	12.000	91	7222	0.3922041	ppbv		97
80) n-DECANE	12.852	43	87296	7.4850423	ppbv	#	66
82) n-Propylbenzene	12.803	91	1594	0.0565766	ppbv	#	77
88) 1,2,4-Trimethylbenzene	13.308	105	4634	0.2490160	ppbv		98
93) 1,2,3-TRIMETHYLBENZENE	13.691	105	1586	0.0876172	ppbv		96
100) Naphthalene	15.820	128	1417	0.1144467	ppbv	#	90
101) TPH (GC/MS) Low Fraction	10.000	TIC	27773960m	803.2033773	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	28686012m	982.9872650	ppbv		

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

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_10.D
Acq On : 29 Dec 2022 5:19 pm
Operator :
Sample : L1570570-06 1x WG1980894
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 31 07:20:36 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

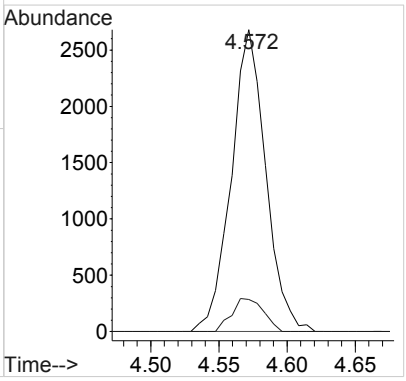


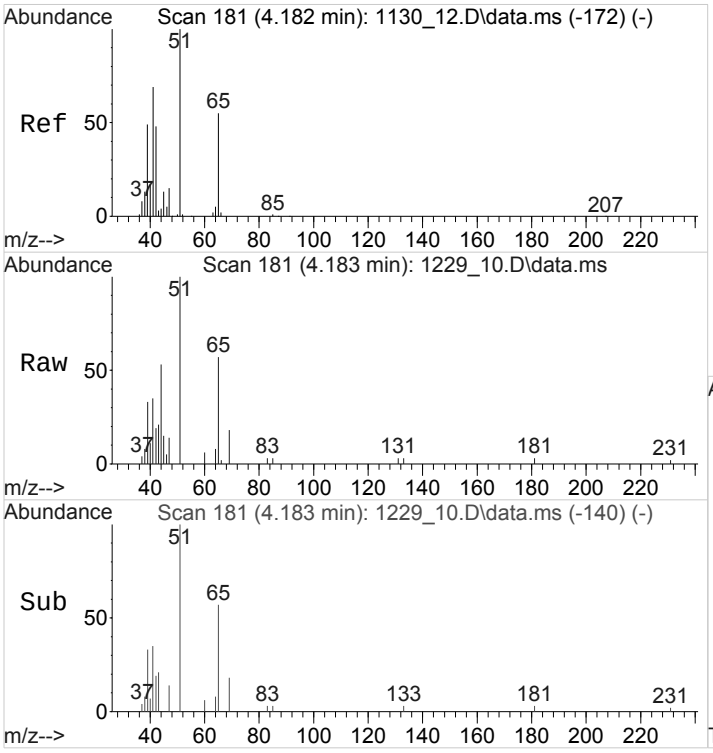


#3
BUTANE
Concen: 0.6821991 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 43 Resp: 4712

Ion	Ratio	Lower	Upper
43	100		
58	10.1	8.0	12.0

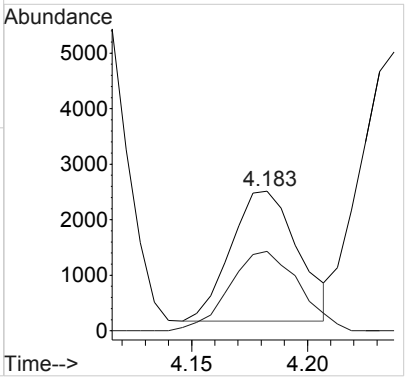




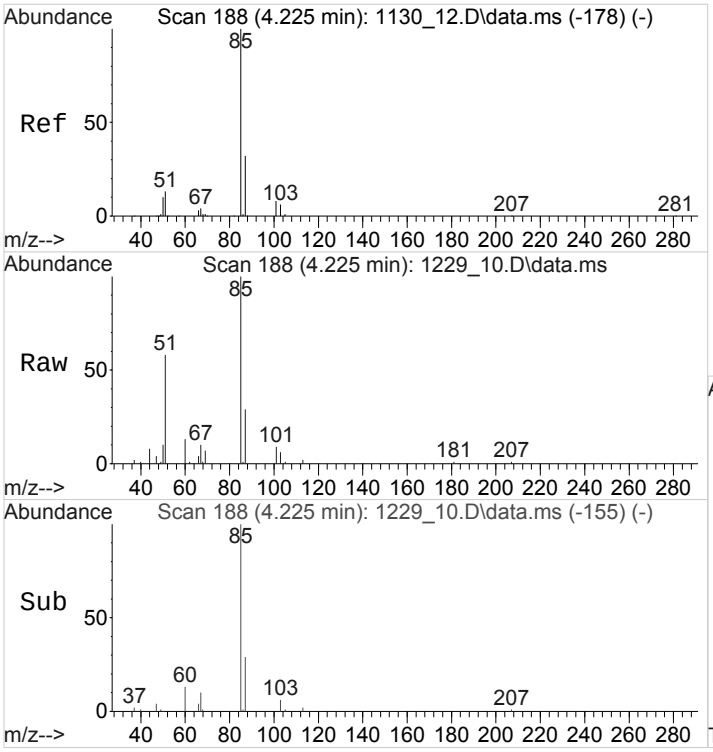
#4
1,1-DIFLUOROETHANE
Concen: 0.7989507 ppbv
RT: 4.183 min Scan# 181
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 51 Resp: 4742

Ion	Ratio	Lower	Upper
51	100		
65	63.0	44.1	66.1



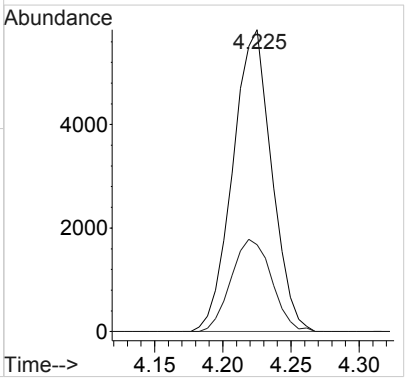
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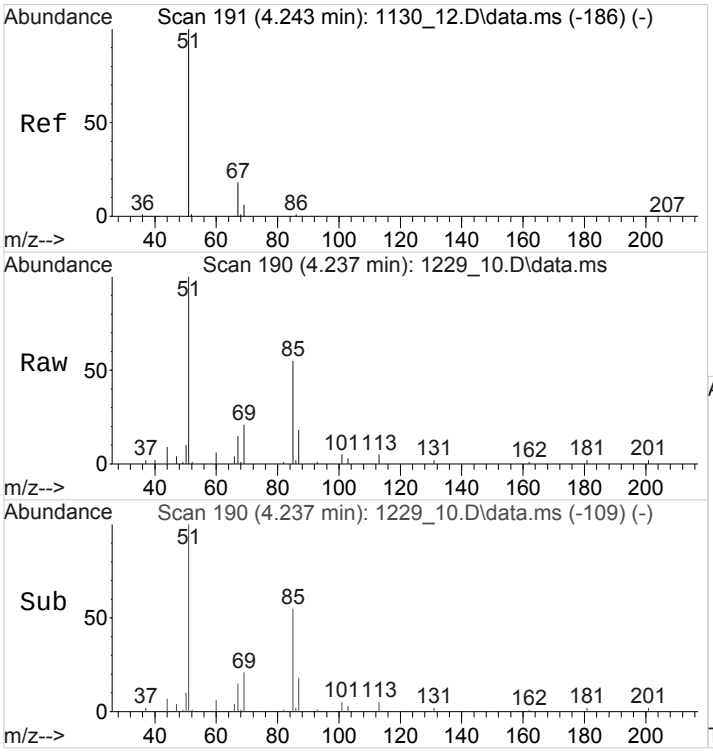


#5
Dichlorodifluoromethane
Concen: 0.9055551 ppbv
RT: 4.225 min Scan# 188
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 85 Resp: 11565

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.8	38.6

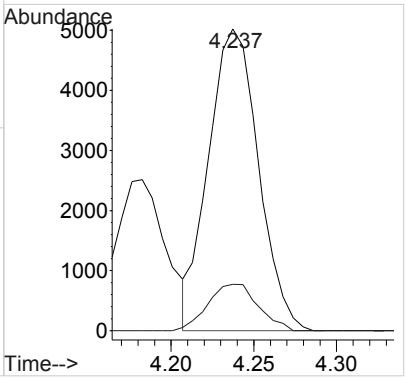




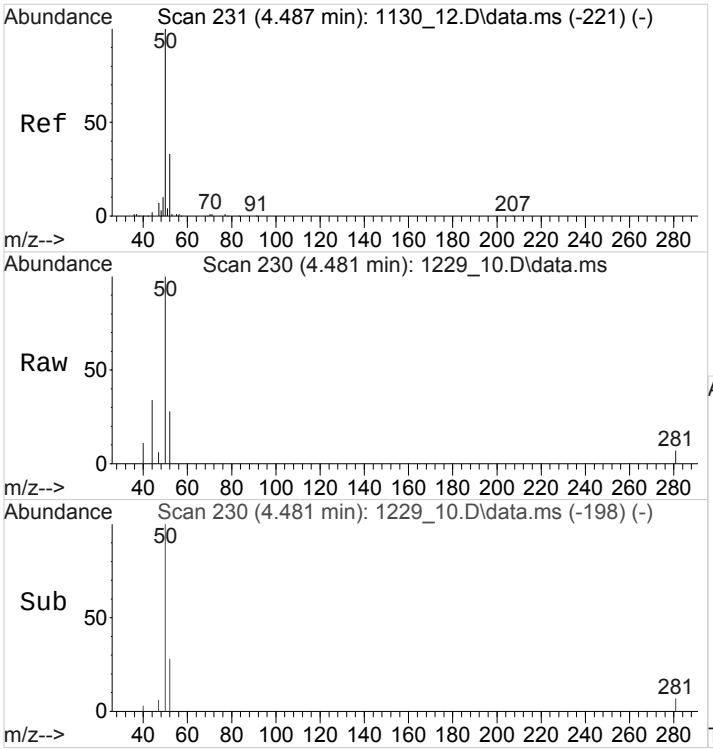
#6
CHLORODIFLUOROMETHANE
Concen: 1.4661555 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 51 Resp: 10554

Ion	Ratio	Lower	Upper
51	100		
67	15.5	13.0	19.4



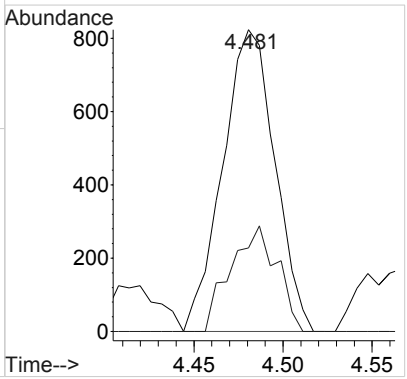
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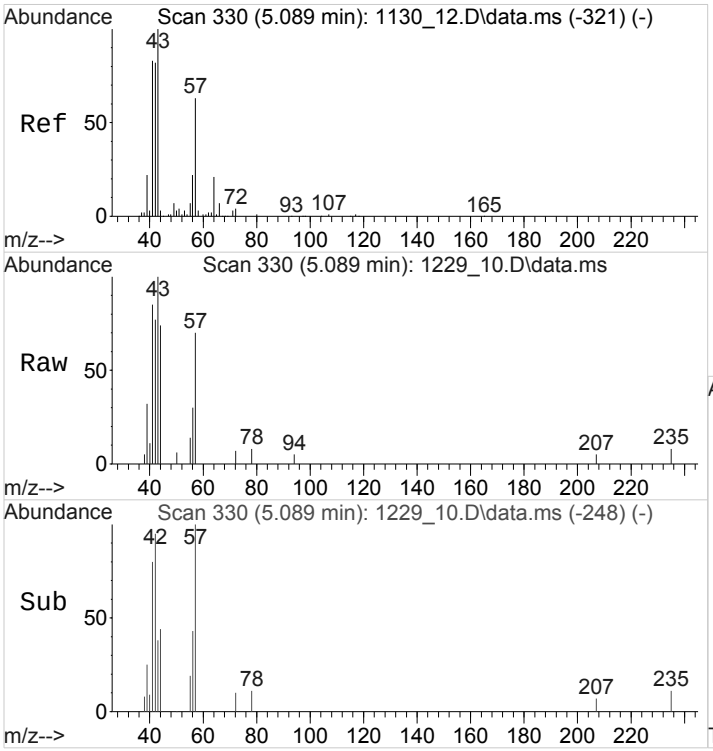


#8
Chloromethane
Concen: 0.3652761 ppbv
RT: 4.481 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 50 Resp: 1677

Ion	Ratio	Lower	Upper
50	100		
52	31.1	27.1	40.7

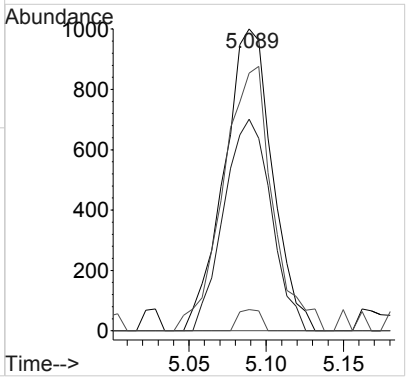




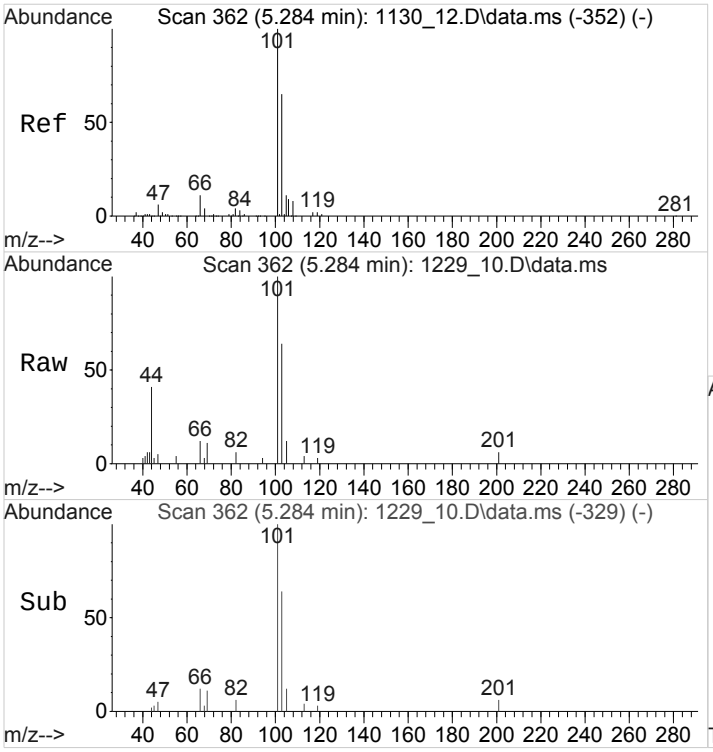
#13
ISOPENTANE
Concen: 0.4561020 ppbv
RT: 5.089 min Scan# 330
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 43 Resp: 2176

Ion	Ratio	Lower	Upper
43	100		
57	68.6	51.7	77.5
41	89.3	66.4	99.6
72	3.4	3.2	4.8



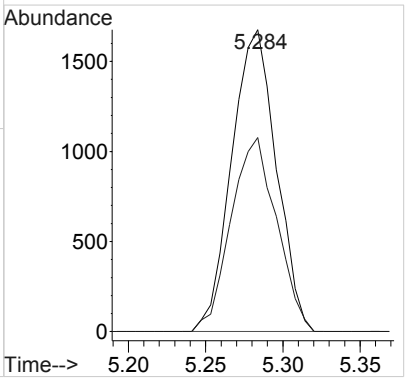
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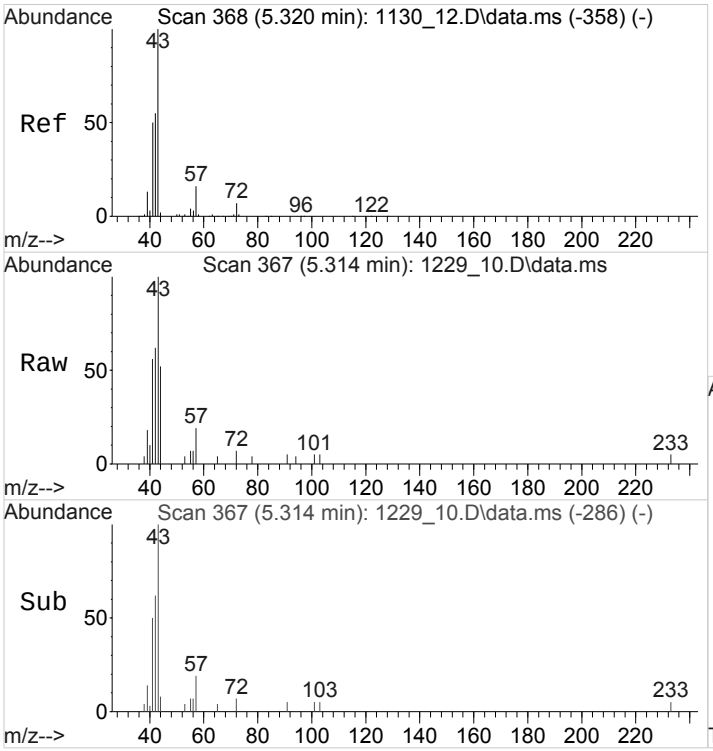


#15
Trichlorofluoromethane
Concen: 0.3158770 ppbv
RT: 5.284 min Scan# 362
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion:101 Resp: 3377

Ion	Ratio	Lower	Upper
101	100		
103	65.8	52.8	79.2

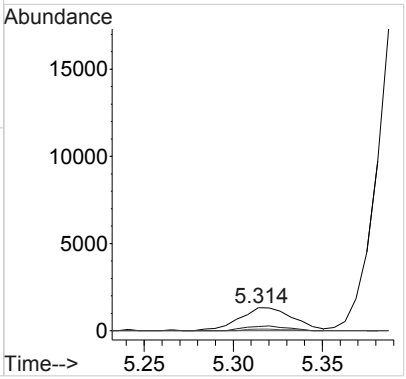




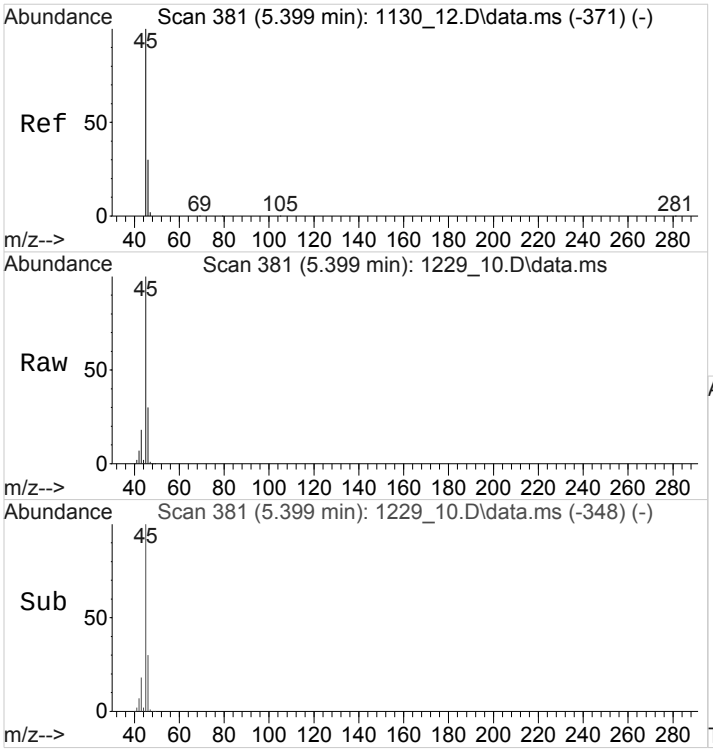
#16
PENTANE
Concen: 0.2802315 ppbv
RT: 5.314 min Scan# 367
Delta R.T. -0.006 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 43 Resp: 2750

Ion	Ratio	Lower	Upper
43	100		
57	16.7	13.0	19.4
72	5.7	5.8	8.8#



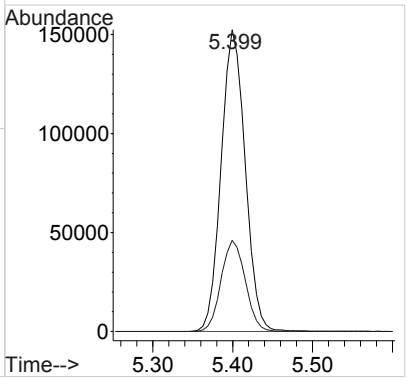
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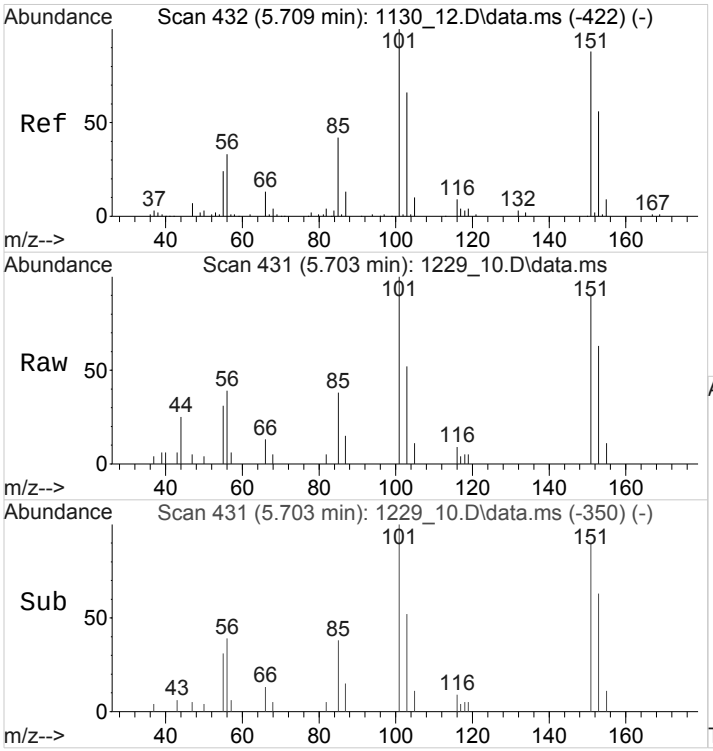


#17
Ethanol
Concen: 132.1115452 ppbv
RT: 5.399 min Scan# 381
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022   5:19 pm

Tgt Ion: 45 Resp: 319230

Ion	Ratio	Lower	Upper
45	100		
46	30.4	23.6	35.4

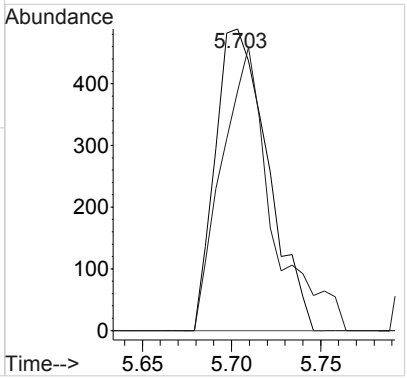




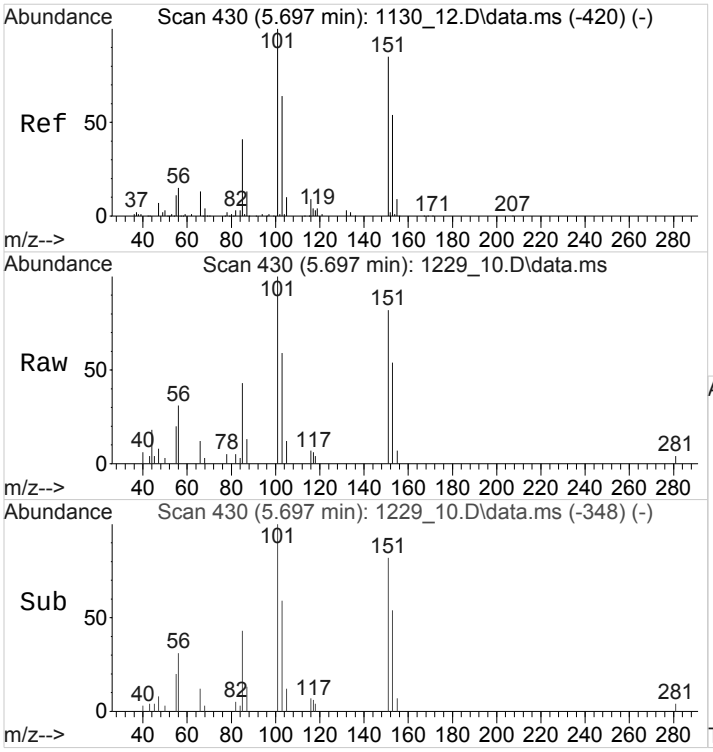
#18
ACROLEIN
Concen: 0.4467077 ppbv
RT: 5.703 min Scan# 431
Delta R.T. -0.006 min
Lab File: 1229_10.D
Acq: 29 Dec 2022   5:19 pm

Tgt Ion: 56 Resp: 1002

Ion	Ratio	Lower	Upper
56	100		
55	90.3	60.4	90.6



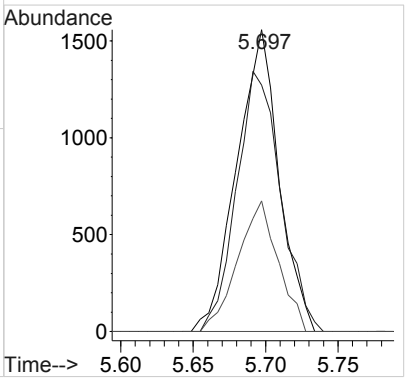
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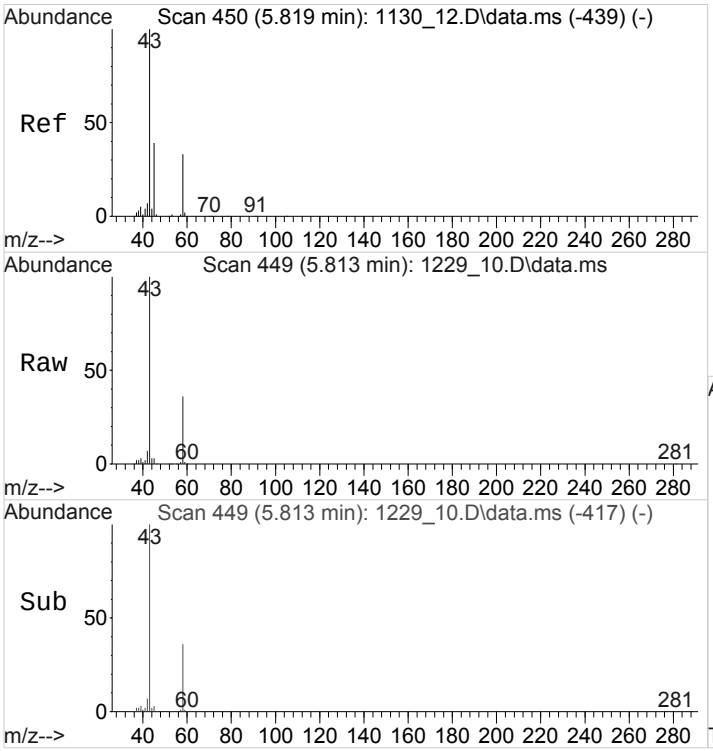


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.2721708 ppbv
RT: 5.697 min Scan# 430
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion:101 Resp: 3148

Ion	Ratio	Lower	Upper
101	100		
151	90.0	67.4	101.2
85	41.5	34.4	51.6

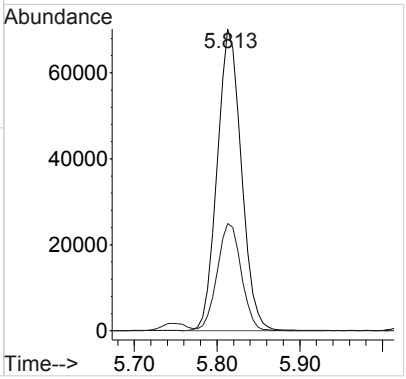




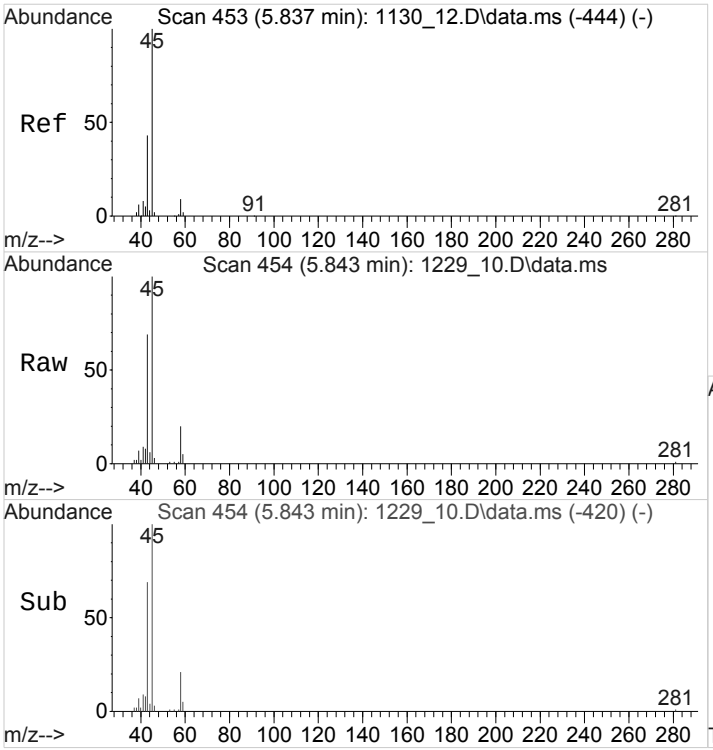
#21
Acetone
Concen: 17.2640301 ppbv
RT: 5.813 min Scan# 449
Delta R.T. -0.006 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 43 Resp: 142599

Ion	Ratio	Lower	Upper
43	100		
58	35.1	23.1	34.7#



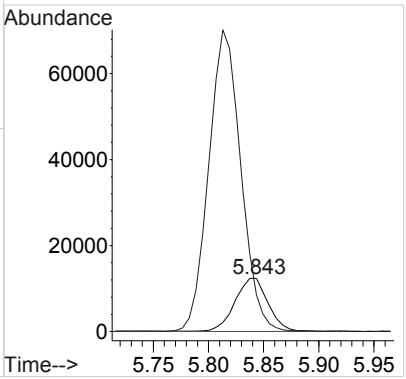
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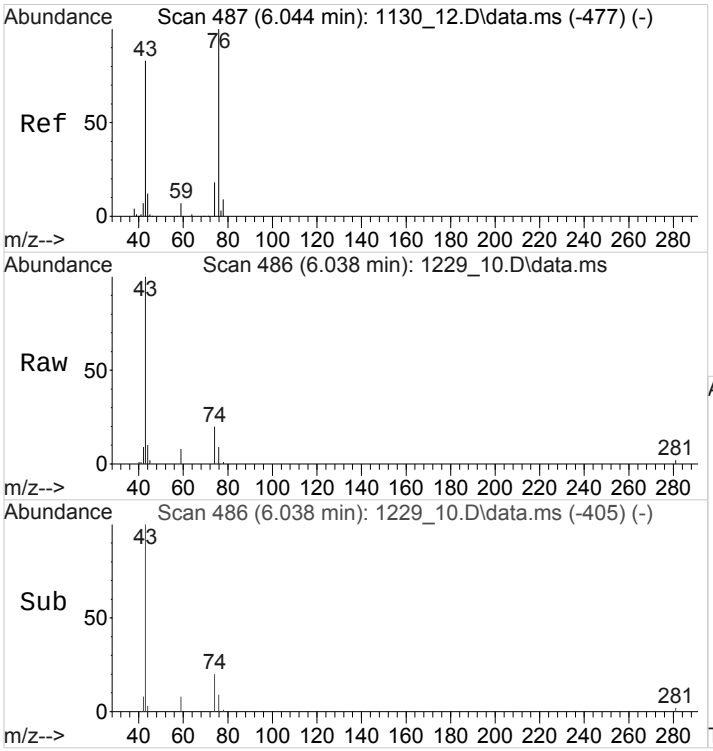


#23
2-Propanol
Concen: 2.8227486 ppbv
RT: 5.843 min Scan# 454
Delta R.T. 0.006 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 45 Resp: 25745

Ion	Ratio	Lower	Upper
45	100		
43	553.9	73.5	110.3#

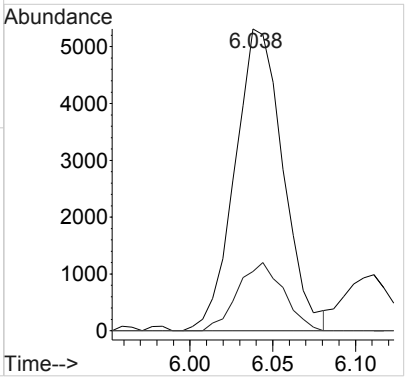




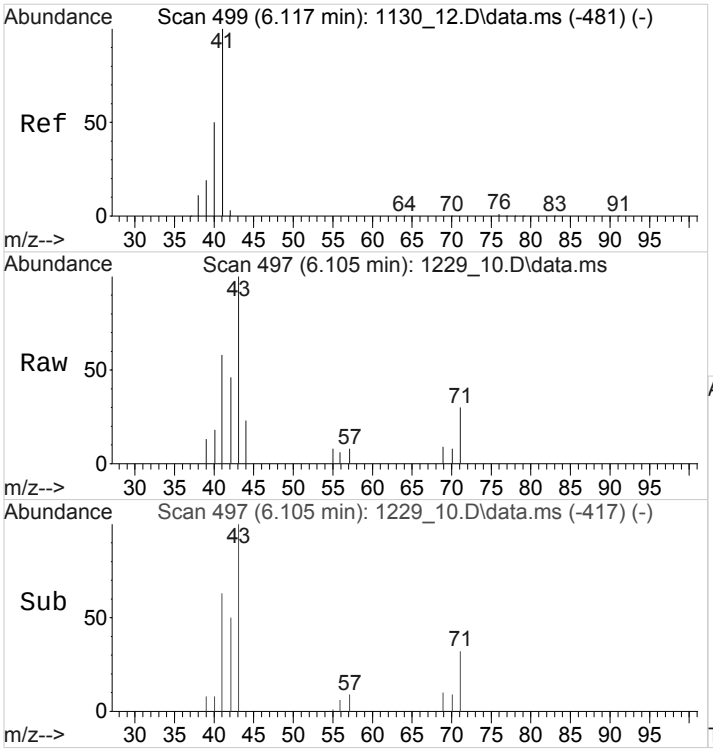
#26
METHYL ACETATE
Concen: 1.1737204 ppbv
RT: 6.038 min Scan# 486
Delta R.T. -0.006 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 43 Resp: 10771

Ion	Ratio	Lower	Upper
43	100		
74	21.6	17.4	26.0
29	0.0	0.0	0.0



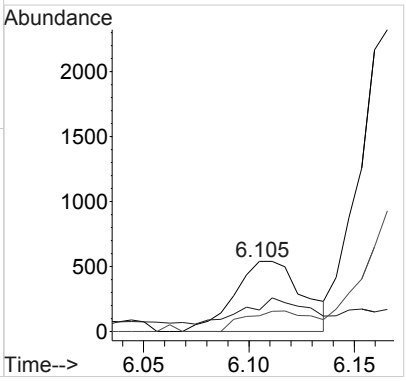
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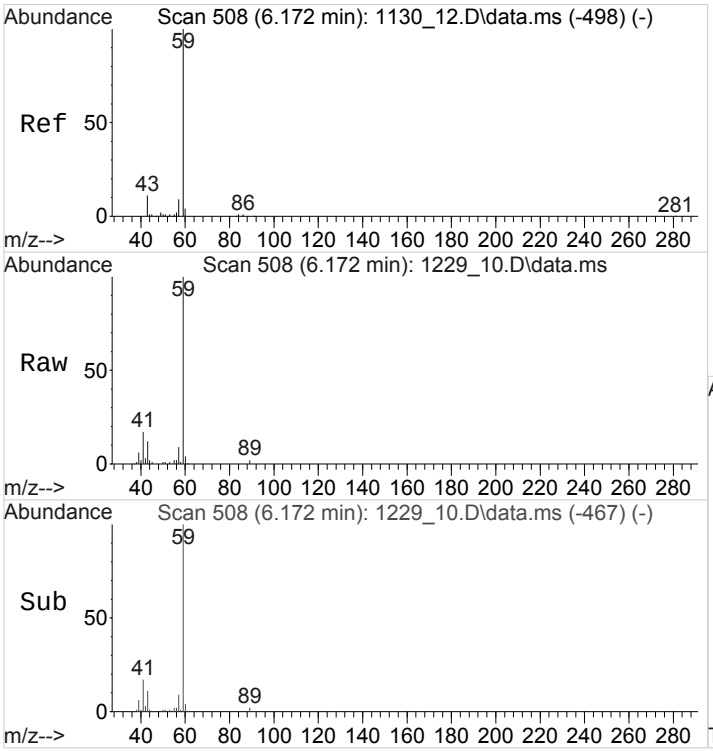


#27
ACETONITRILE
Concen: 0.2384263 ppbv
RT: 6.105 min Scan# 497
Delta R.T. -0.012 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 41 Resp: 1217

Ion	Ratio	Lower	Upper
41	100		
40	32.3	32.7	49.1#
39	29.4	22.7	34.1

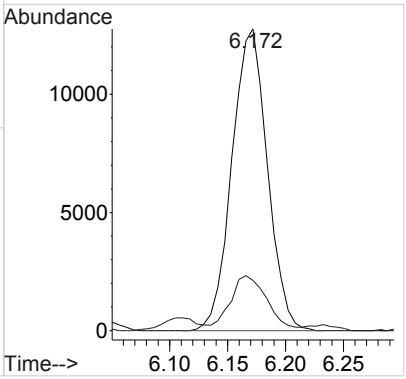


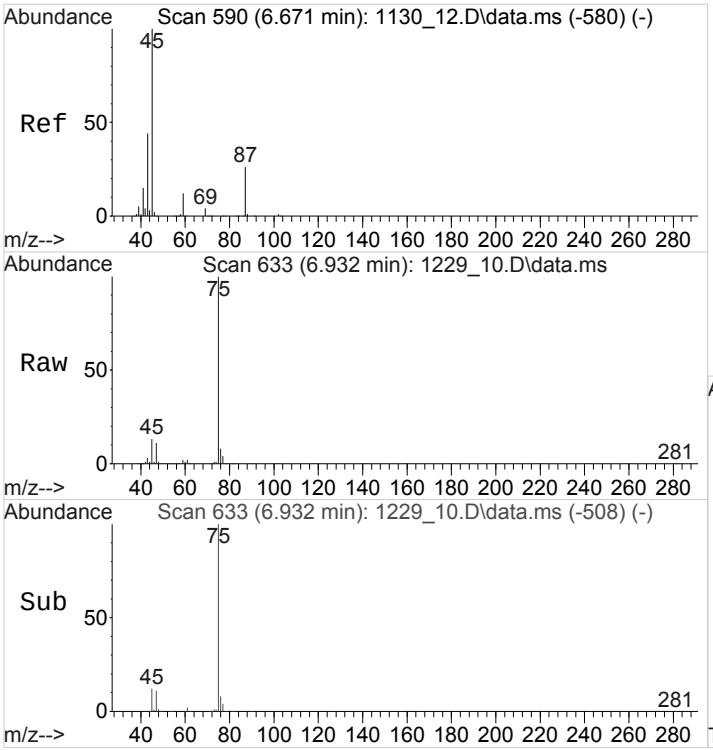


#29
TERT-BUTYL ALCOHOL
Concen: 2.8280068 ppbv
RT: 6.172 min Scan# 508
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 59 Resp: 27154

Ion	Ratio	Lower	Upper
59	100		
41	18.9	216.4	324.6#

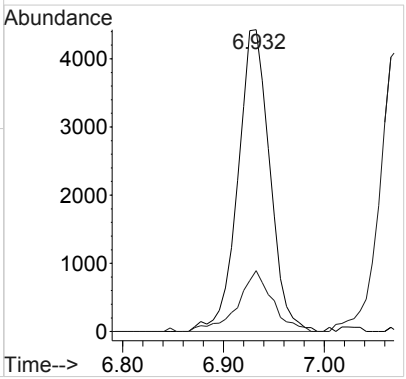


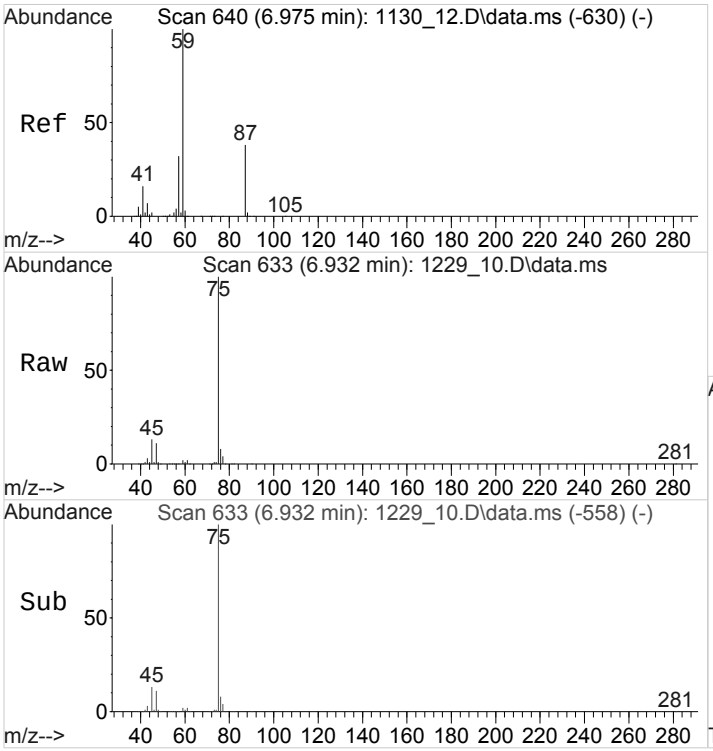


#36
DI-ISOPROPYL ETHER
Concen: 0.6263497 ppbv
RT: 6.932 min Scan# 633
Delta R.T. 0.262 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 45 Resp: 9736

Ion	Ratio	Lower	Upper
45	100		
43	21.9	36.7	55.1#

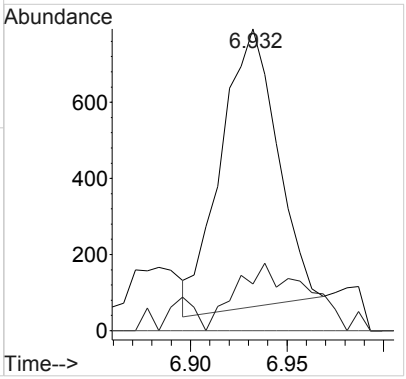


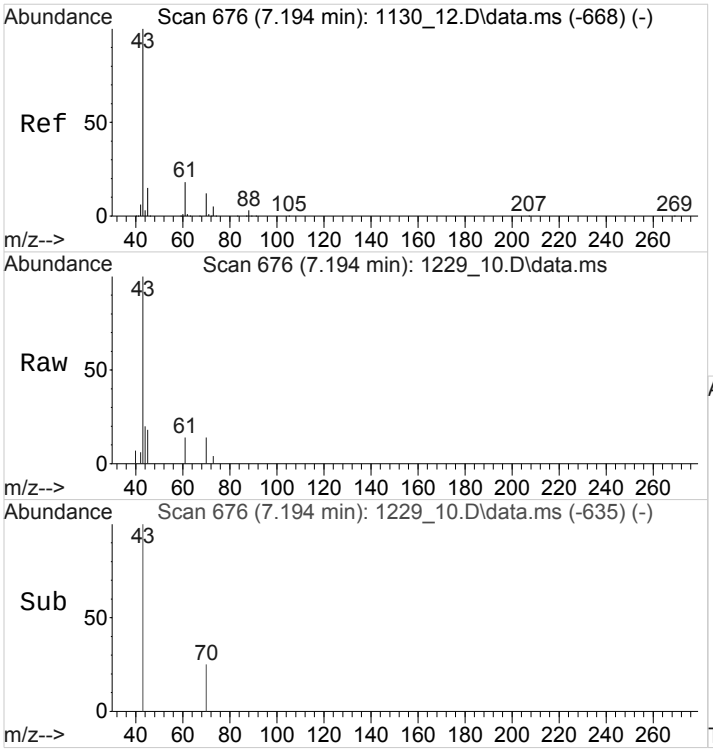


#37
ETHYL TERT-BUTYL ETHER
Concen: 0.0899029 ppbv
RT: 6.932 min Scan# 633
Delta R.T. -0.042 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 59 Resp: 1481

Ion	Ratio	Lower	Upper
59	100		
57	31.3	26.6	39.8
87	0.0	30.4	45.6#

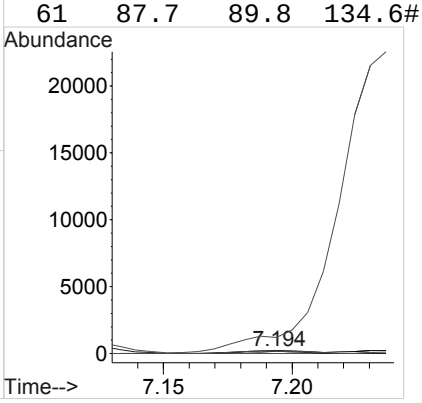


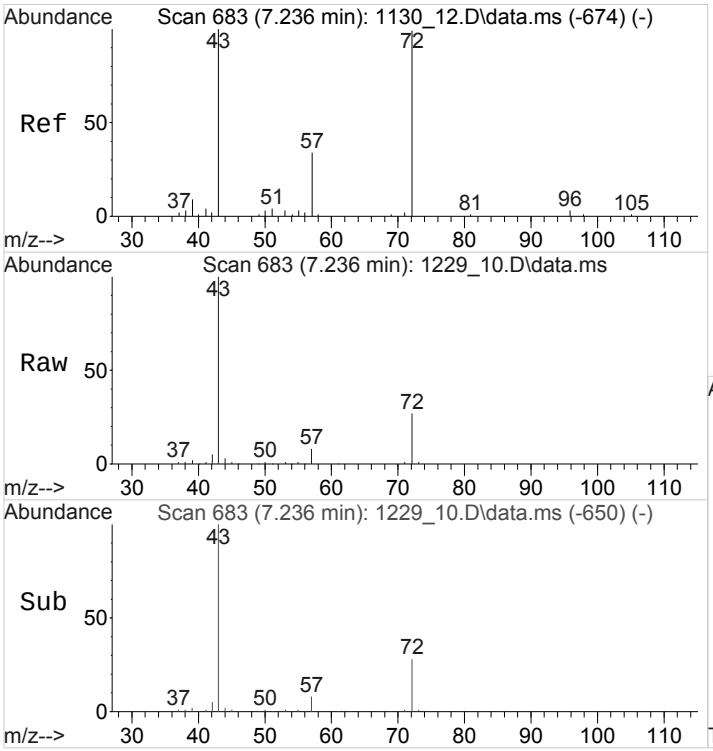


#38
ETHYL ACETATE
Concen: 0.2368523 ppbv
RT: 7.194 min Scan# 676
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 45 Resp: 406

Ion	Ratio	Lower	Upper
45	100		
70	59.4	60.5	90.7#
43	0.0	543.4	815.0#
61	87.7	89.8	134.6#

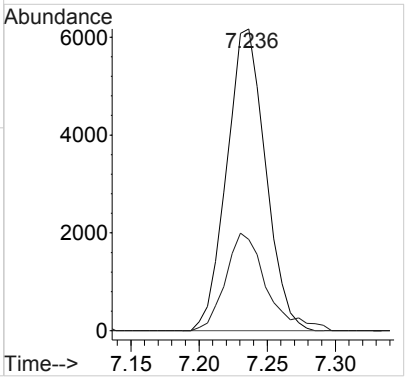


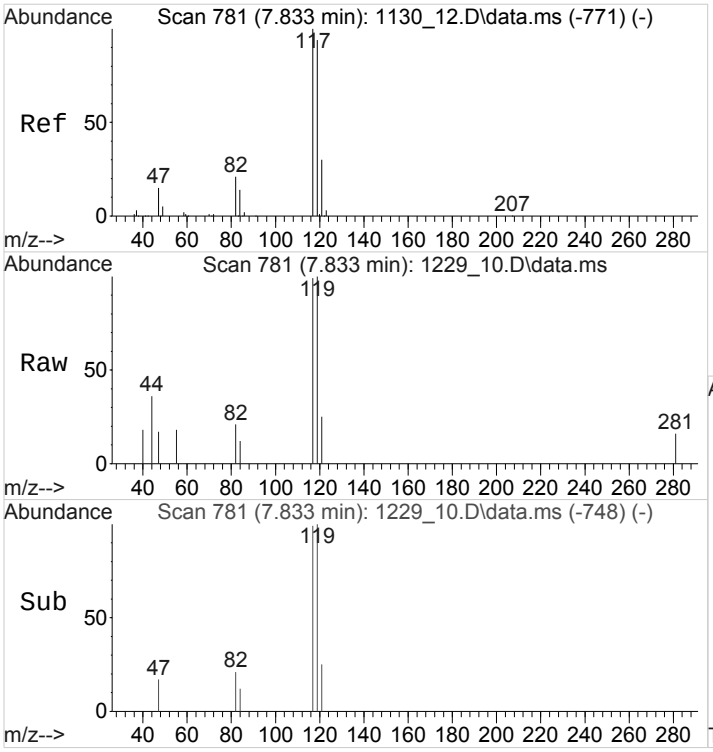


#39
2-Butanone (MEK)
Concen: 4.8299113 ppbv
RT: 7.236 min Scan# 683
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 72 Resp: 12198

Ion	Ratio	Lower	Upper
72	100		
57	34.1	27.3	40.9

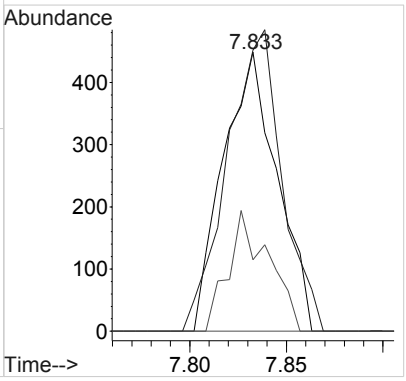


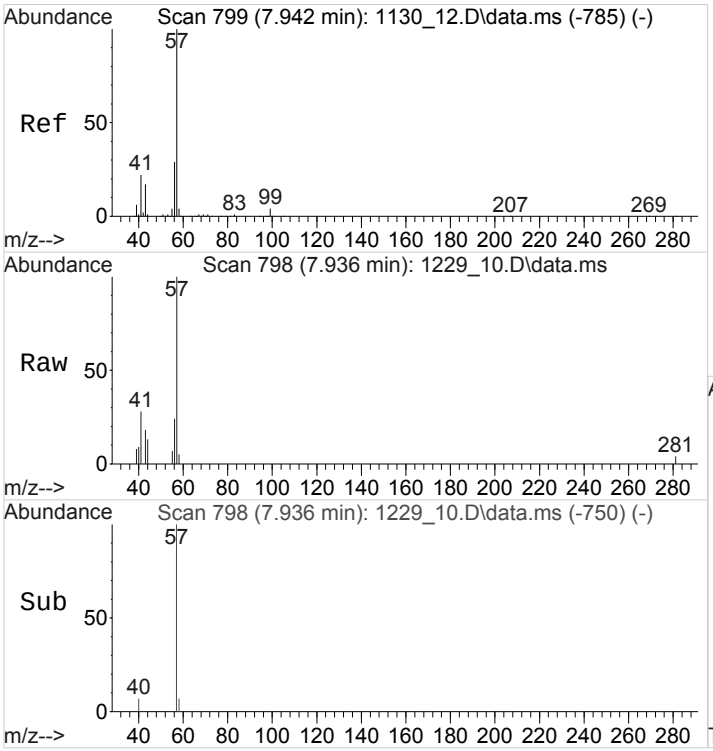


#45
Carbon Tetrachloride
Concen: 0.0729113 ppbv
RT: 7.833 min Scan# 781
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion:117 Resp: 870

Ion	Ratio	Lower	Upper
117	100		
119	109.4	77.3	115.9
121	32.5	25.0	37.4

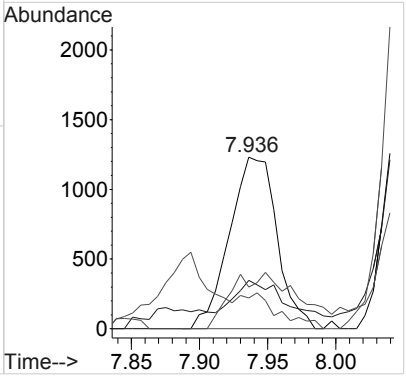




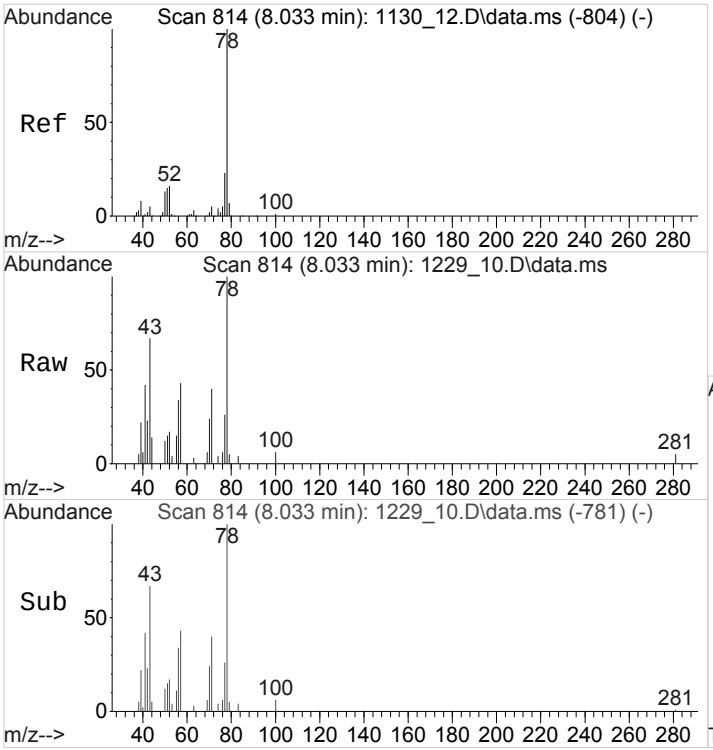
#46
2,2,4-Trimethylpentane
Concen: 0.1178957 ppbv
RT: 7.936 min Scan# 798
Delta R.T. -0.006 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 57 Resp: 2977

Ion	Ratio	Lower	Upper
57	100		
41	25.0	18.2	27.2
43	0.0	13.3	19.9#
56	15.4	23.3	34.9#



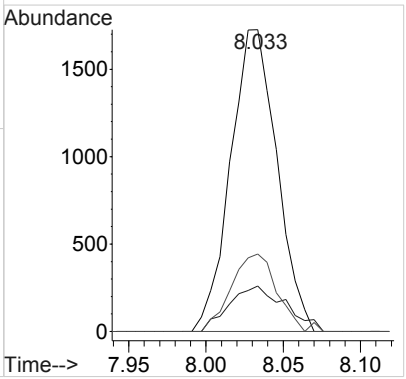
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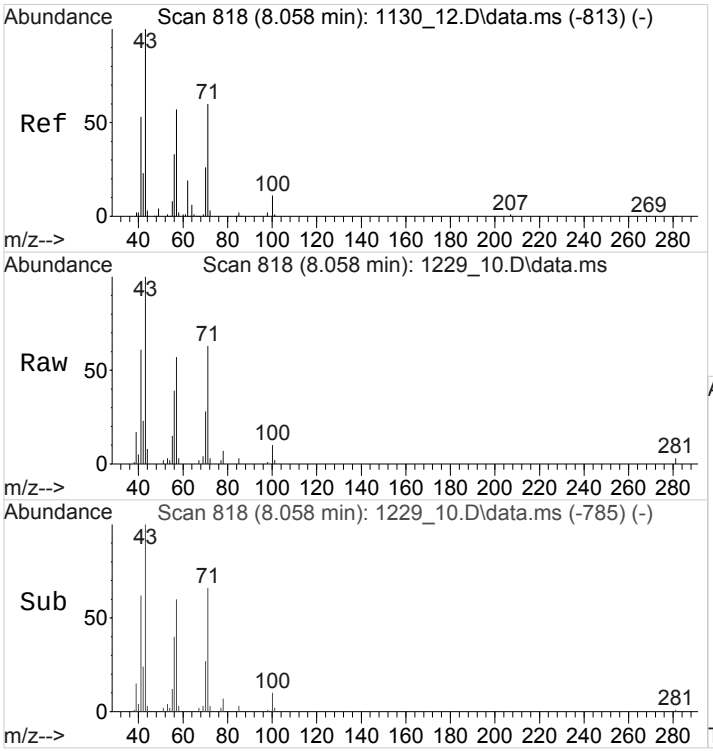


#48
Benzene
Concen: 0.2383534 ppbv
RT: 8.033 min Scan# 814
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 78 Resp: 3603

Ion	Ratio	Lower	Upper
78	100		
51	18.3	12.1	18.1#
77	25.6	18.8	28.2

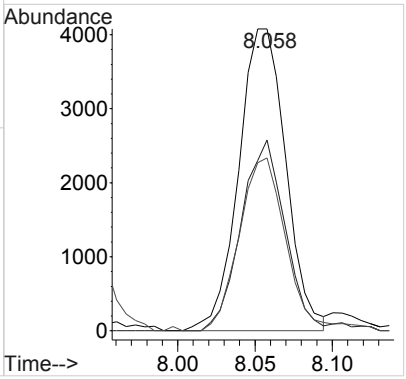


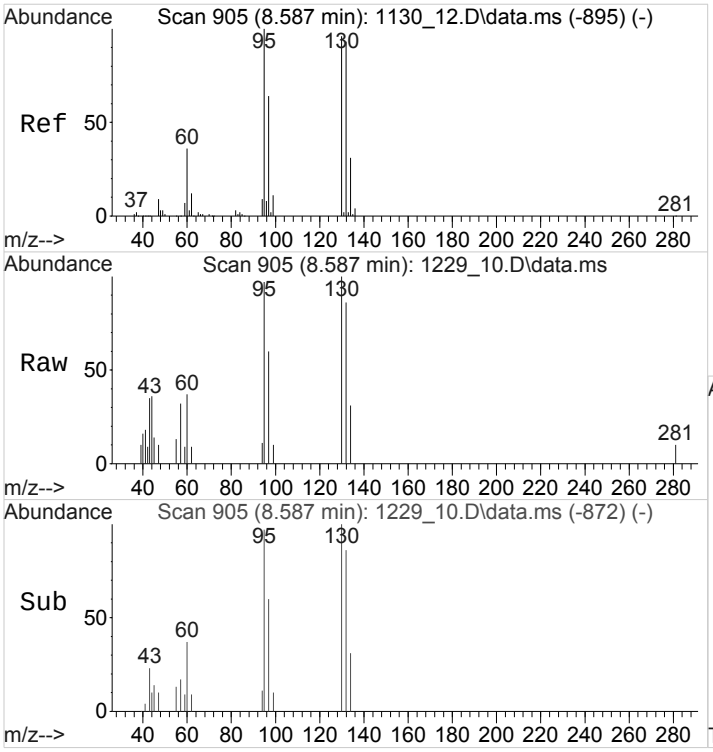


#51
Heptane
Concen: 1.0448901 ppbv
RT: 8.058 min Scan# 818
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 43 Resp: 8667

Ion	Ratio	Lower	Upper
43	100		
71	60.1	47.0	70.4
57	57.2	43.9	65.9

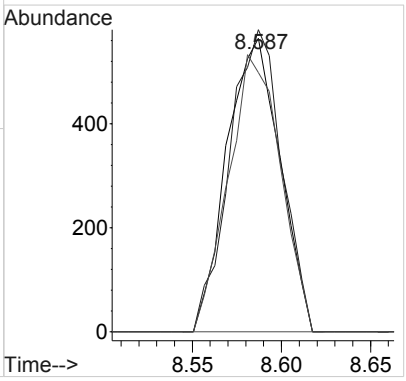


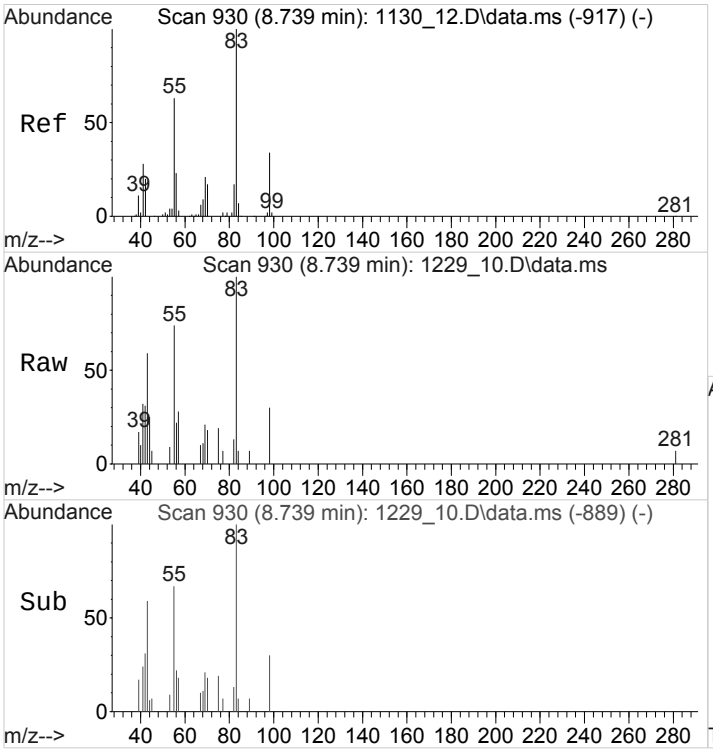


#52
Trichloroethene
Concen: 0.1577680 ppbv
RT: 8.587 min Scan# 905
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 95 Resp: 1166

Ion	Ratio	Lower	Upper
95	100		
130	101.0	76.9	115.3
132	93.0	73.3	109.9

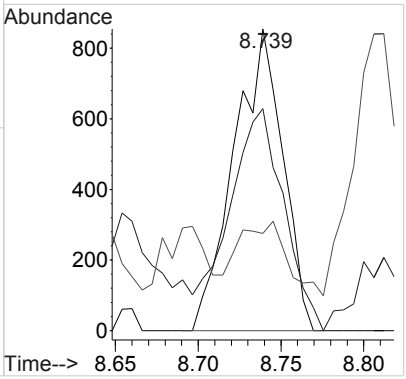




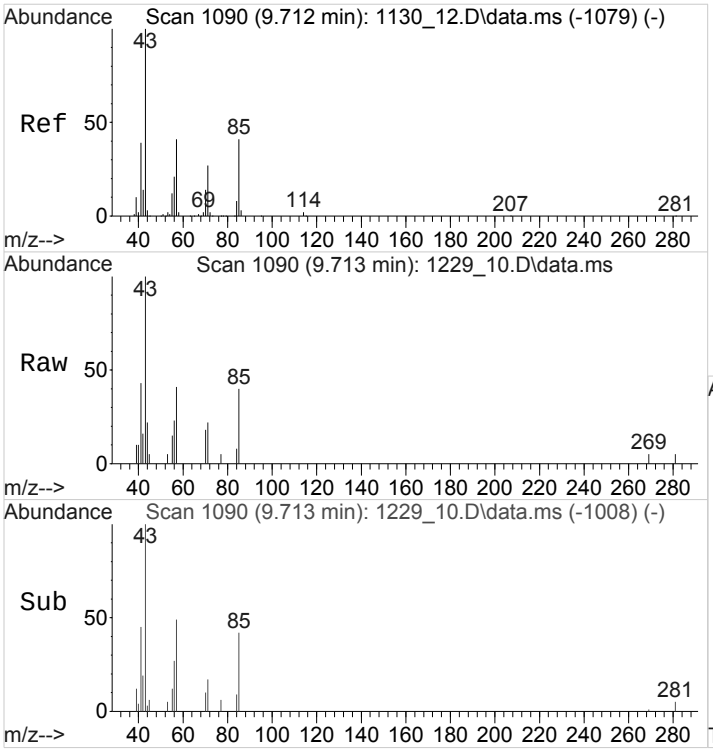
#54
METHYL CYCLOHEXANE
Concen: 0.1757426 ppbv
RT: 8.739 min Scan# 930
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 83 Resp: 1756

Ion	Ratio	Lower	Upper
83	100		
55	82.4	66.6	99.8
41	39.2	26.8	40.2



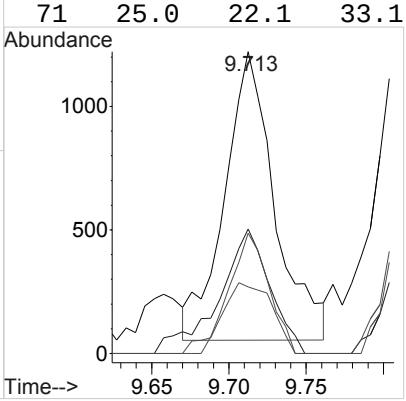
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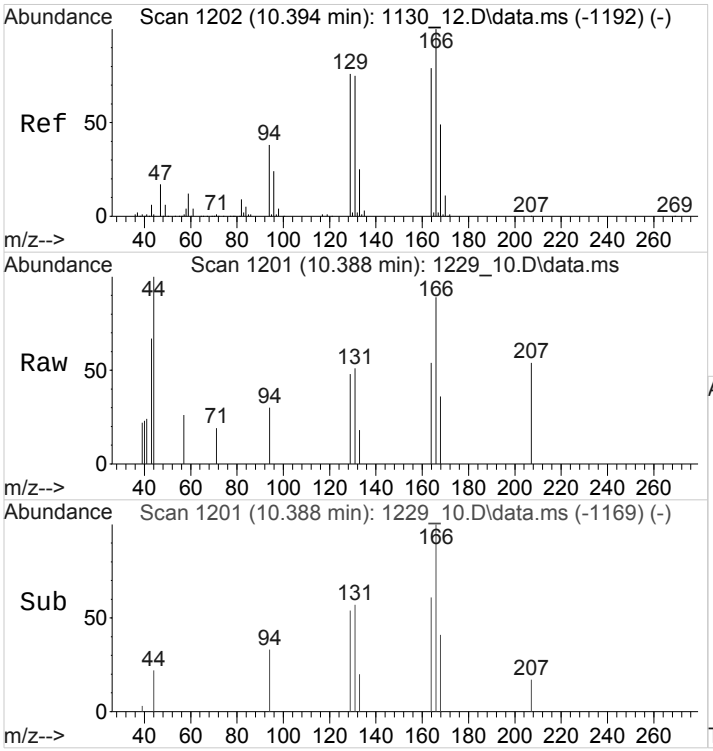


#61
n-OCTANE
Concen: 0.2023576 ppbv
RT: 9.713 min Scan# 1090
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 43 Resp: 2640

Ion	Ratio	Lower	Upper
43	100		
57	43.8	33.1	49.7
85	32.5	33.1	49.7#
71	25.0	22.1	33.1

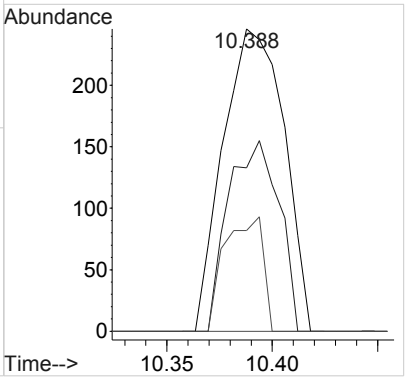


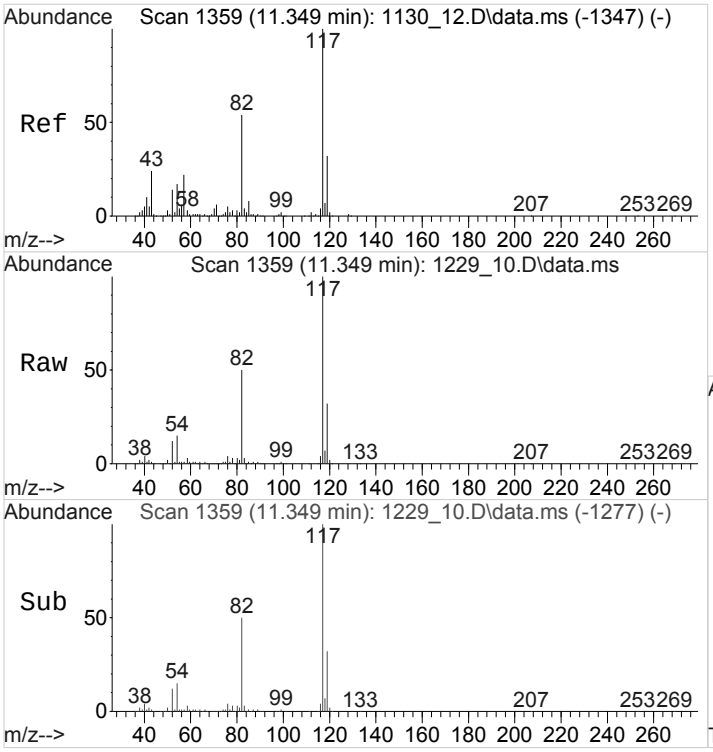


#65
Tetrachloroethene
Concen: 0.0512085 ppbv
RT: 10.388 min Scan# 1201
Delta R.T. -0.006 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion:166 Resp: 495

Ion	Ratio	Lower	Upper
166	100		
129	52.5	62.1	93.1#
94	23.8	30.3	45.5#

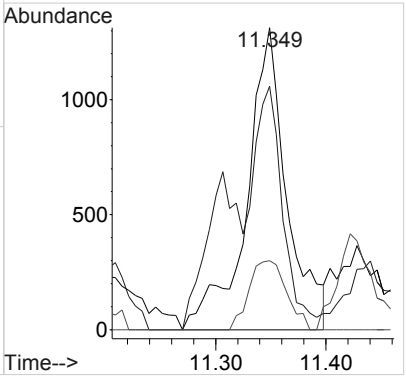


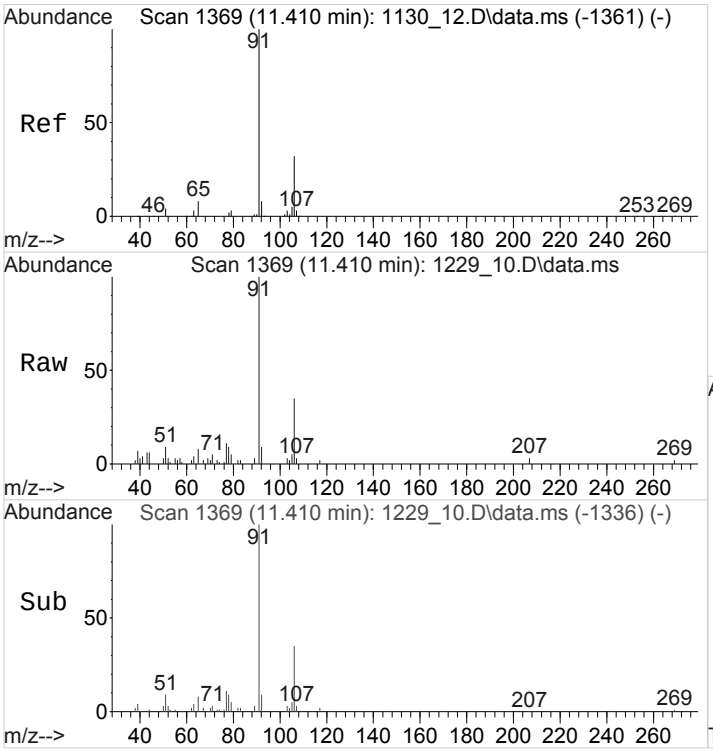


#70
NONANE
Concen: 0.2404920 ppbv
RT: 11.349 min Scan# 1359
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 43 Resp: 3321

Ion	Ratio	Lower	Upper
43	100		
57	52.5	74.6	112.0#
71	21.4	20.0	30.0
128	0.0	1.9	2.9#

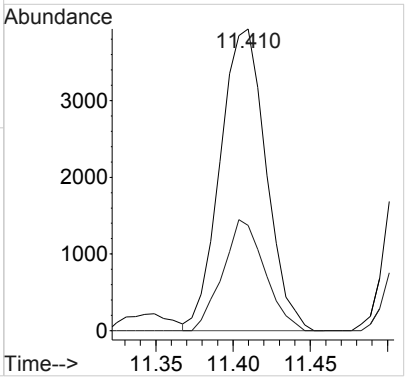


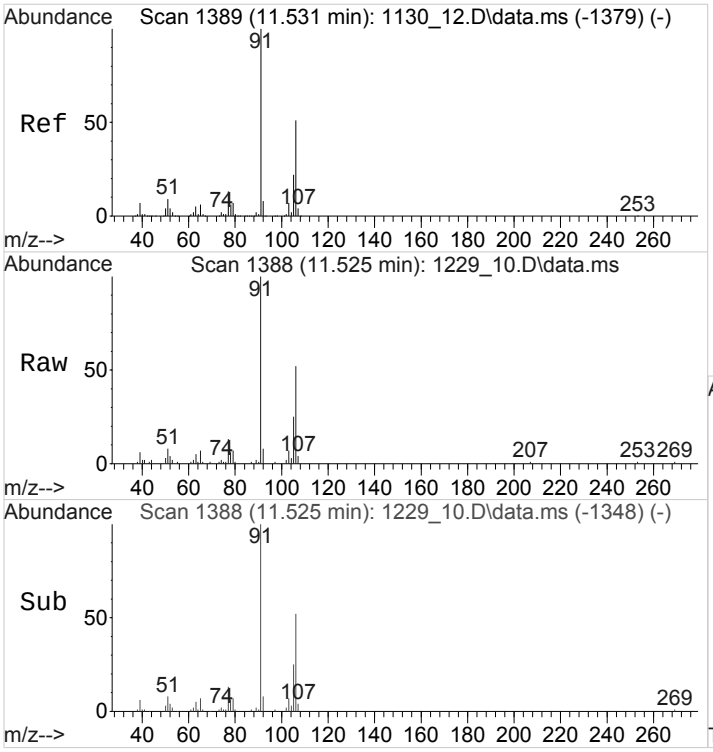


#72
Ethylbenzene
Concen: 0.3645949 ppbv
RT: 11.410 min Scan# 1369
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 91 Resp: 8122

Ion	Ratio	Lower	Upper
91	100		
106	33.7	25.6	38.4

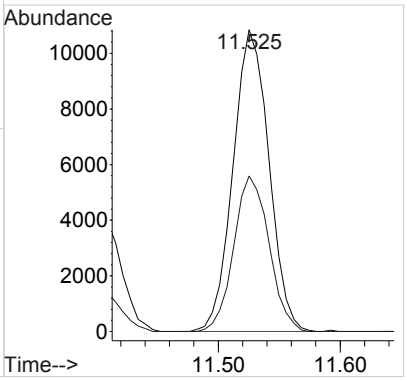


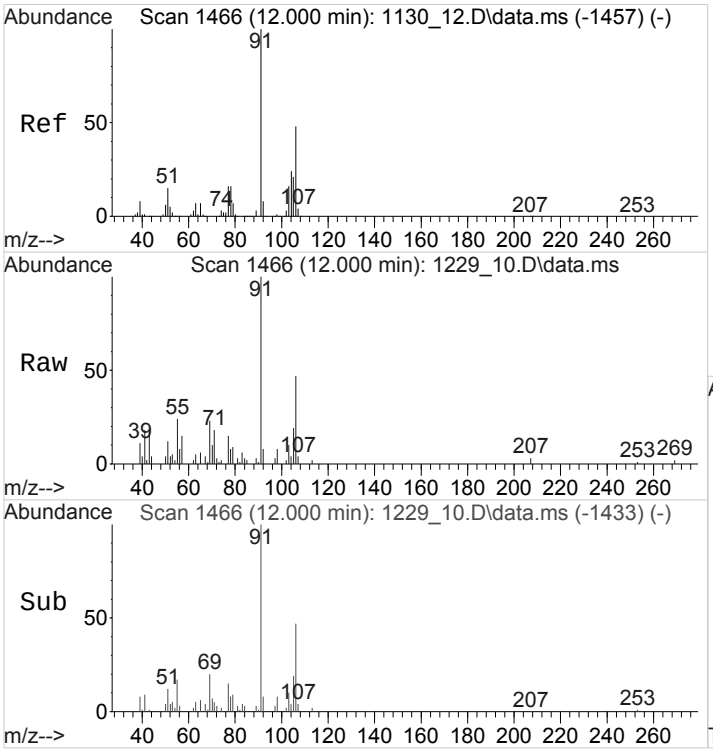


#73
M&P-Xylene
Concen: 1.2703518 ppbv
RT: 11.525 min Scan# 1388
Delta R.T. -0.006 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 91 Resp: 22178

Ion	Ratio	Lower	Upper
91	100		
106	50.6	39.7	59.5

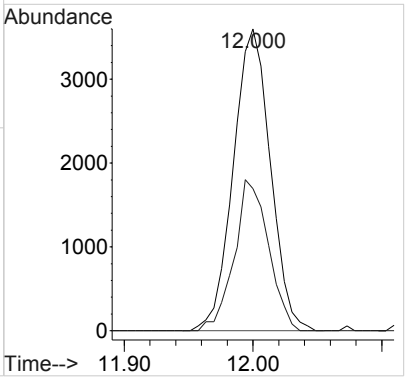


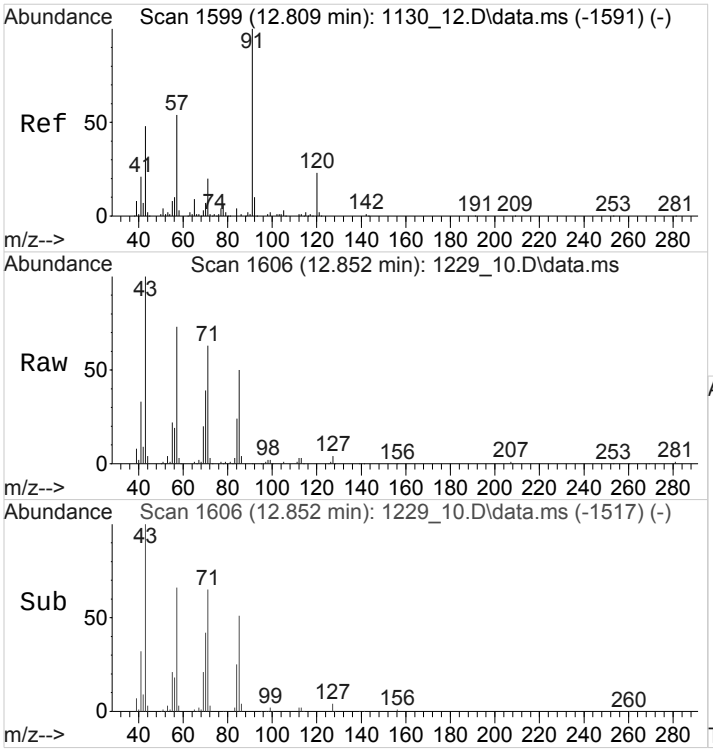


#74
O-Xylene
Concen: 0.3922041 ppbv
RT: 12.000 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 91 Resp: 7222

Ion	Ratio	Lower	Upper
91	100		
106	46.2	38.4	57.6

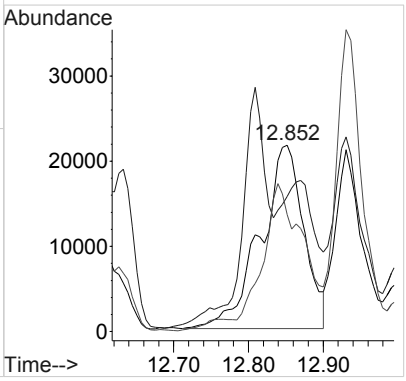


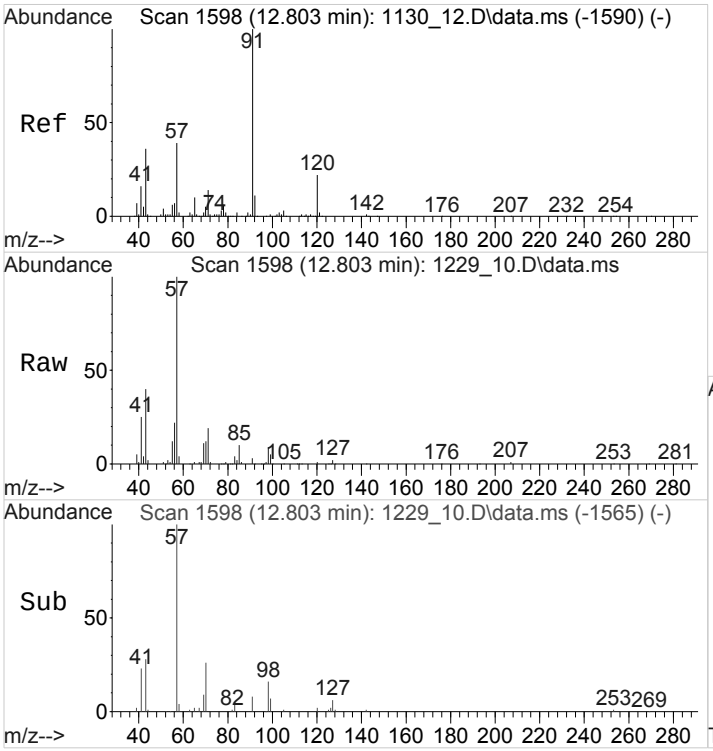


#80
n-DECANE
Concen: 7.4850423 ppbv
RT: 12.852 min Scan# 1606
Delta R.T. 0.043 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 43 Resp: 87296

Ion	Ratio	Lower	Upper
43	100		
57	75.8	89.7	134.5#
71	64.3	34.1	51.1#

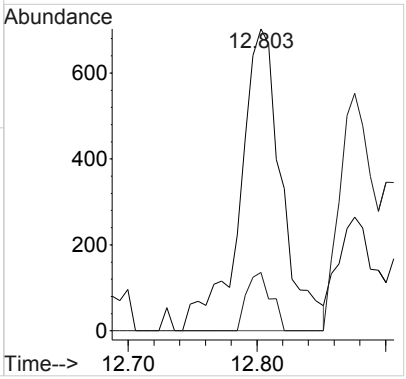


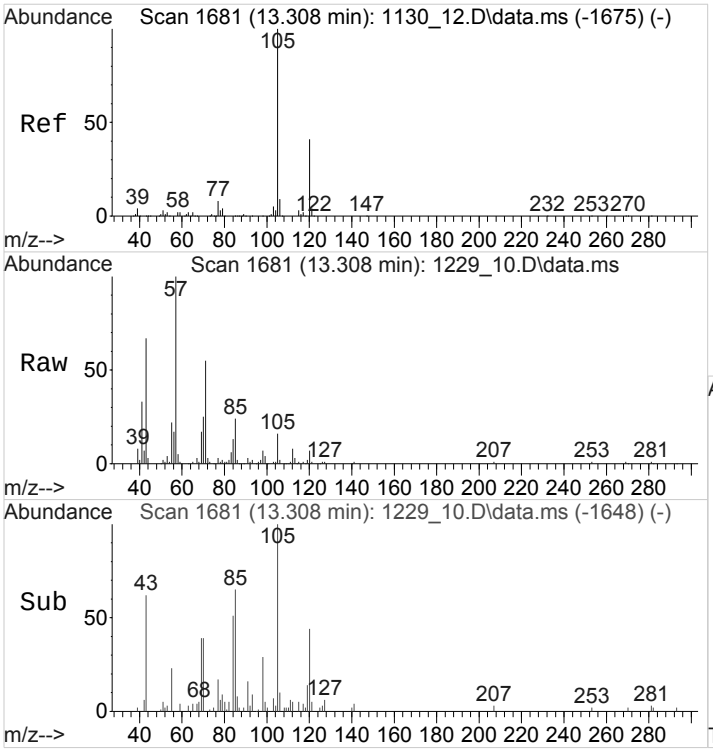


#82
n-Propylbenzene
Concen: 0.0565766 ppbv
RT: 12.803 min Scan# 1598
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion: 91 Resp: 1594

Ion	Ratio	Lower	Upper
91	100		
120	11.3	17.8	26.6#

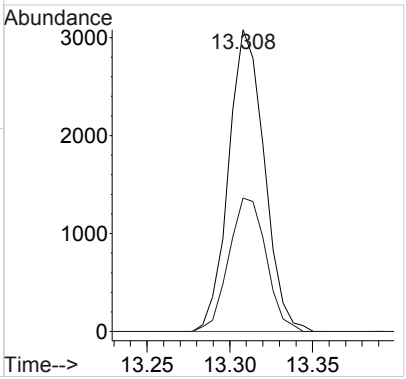


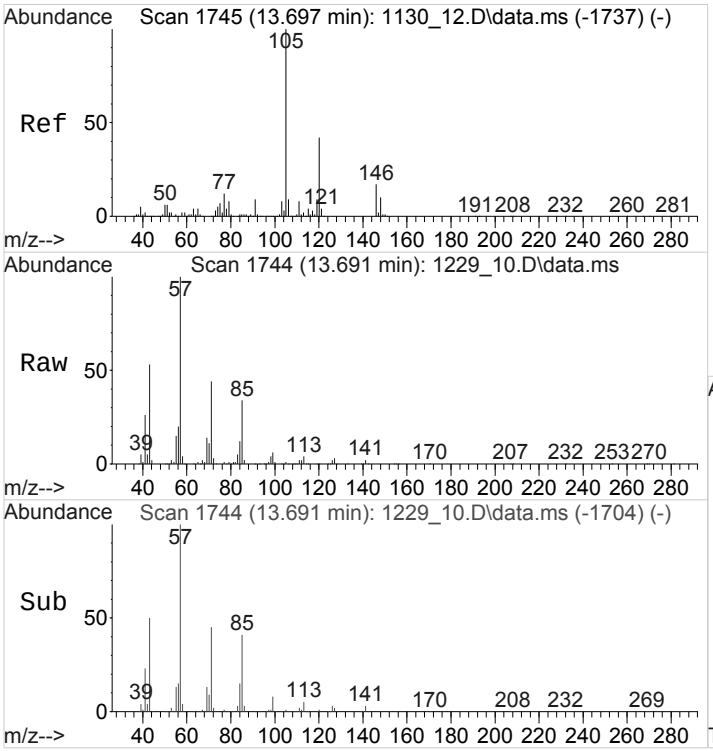


#88
1,2,4-Trimethylbenzene
Concen: 0.2490160 ppbv
RT: 13.308 min Scan# 1681
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion:105 Resp: 4634

Ion	Ratio	Lower	Upper
105	100		
120	46.4	35.9	53.9

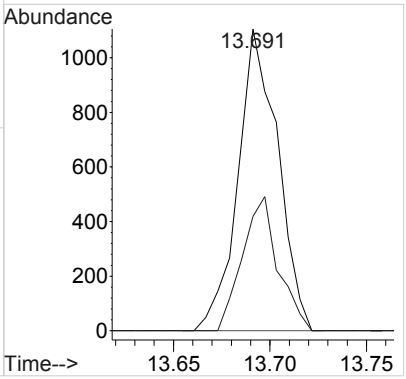


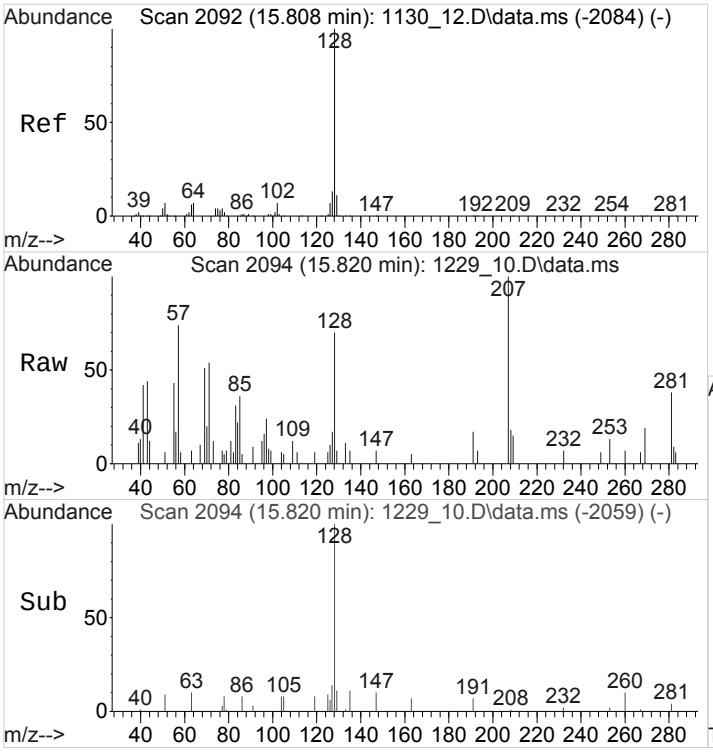


#93
1,2,3-TRIMETHYLBENZENE
Concen: 0.0876172 ppbv
RT: 13.691 min Scan# 1744
Delta R.T. -0.006 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion:105 Resp: 1586

Ion	Ratio	Lower	Upper
105	100		
120	39.8	34.0	51.0

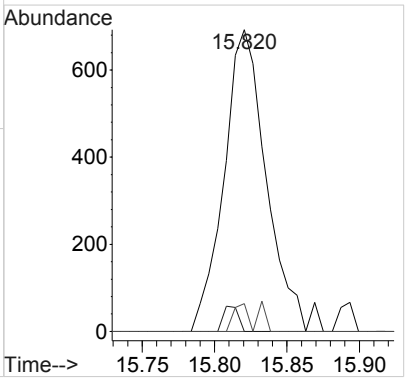


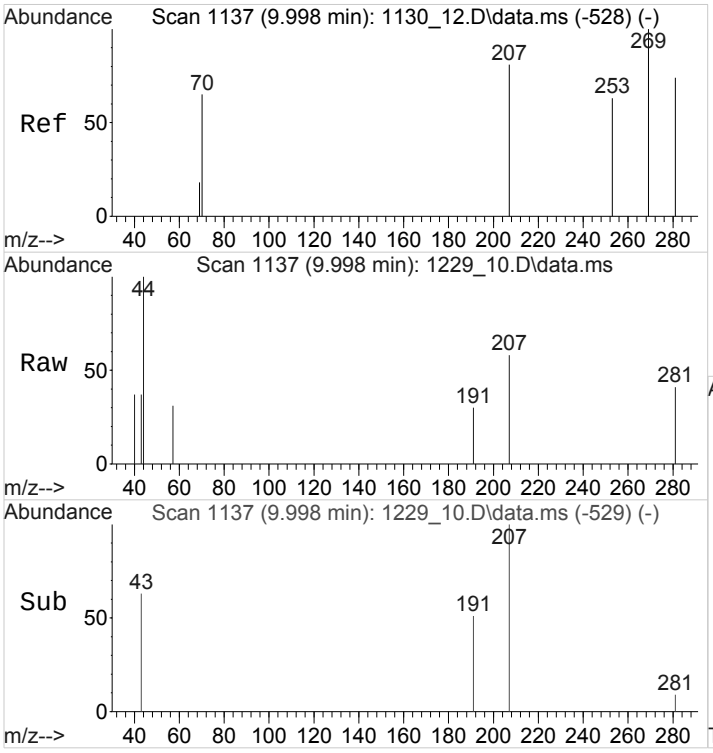


#100
Naphthalene
Concen: 0.1144467 ppbv
RT: 15.820 min Scan# 2094
Delta R.T. 0.012 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion:128 Resp: 1417

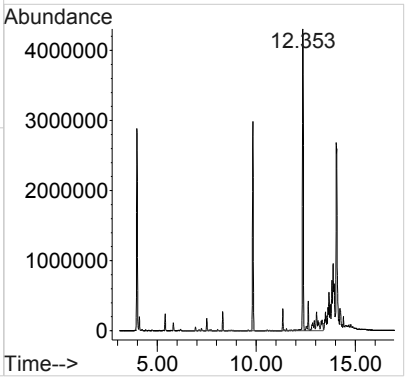
Ion	Ratio	Lower	Upper
128	100		
102	2.9	6.0	9.0#
51	4.9	5.8	8.6#



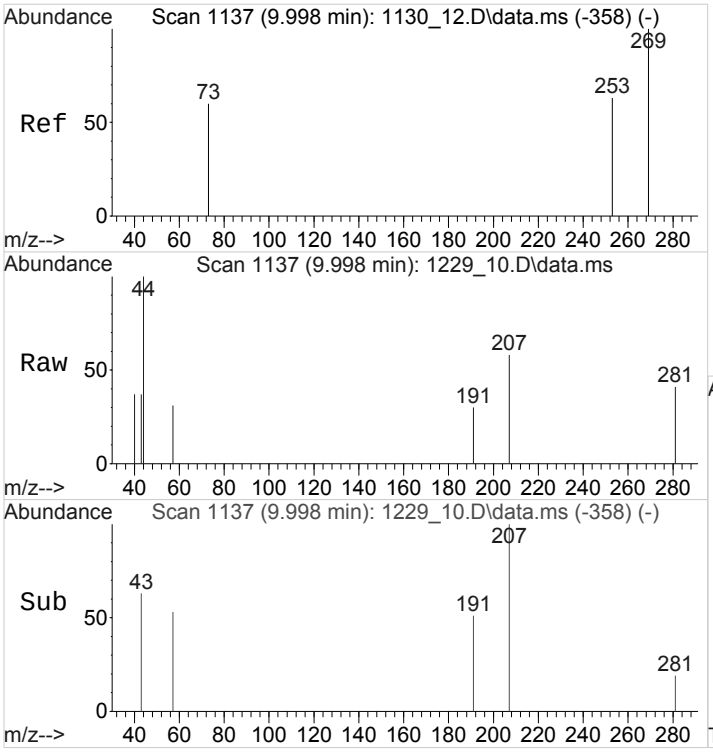


#101
TPH (GC/MS) Low Fraction
Concen: 803.2033773 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion:TIC Resp:27773960

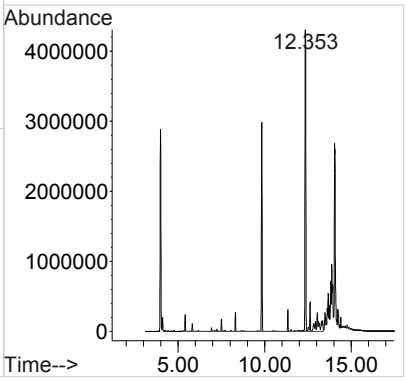


ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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#102
TPH-GRO (C5-C10)
Concen: 982.9872650 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_10.D
Acq: 29 Dec 2022 5:19 pm

Tgt Ion:TIC Resp:28686012



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	139 of 471

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
776-VMP-2_1222-A

Lab Sample ID:	L1570570-07	**SDG:**	L1570570
Client Sample ID:	776-VMP-2_1222-A	**Collected Date/Time:**	12/22/22 08:45
Lab File ID:	1229_11	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 18:02
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 18:02
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.81	38.3		1.39	2.85	5.70
Benzene	71-43-2	8.03	0.961		0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	4.99	1.10	J	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	7.83	0.494	J	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	0.746	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	11.41	1.85		0.362	0.867	1.73
4-Ethyltoluene	622-96-8	0	0.982	U	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.72	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	4.37		0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	2.10	J	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	0	0.694	U	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.23	12.8		0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	0	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	0	0.942	U	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570570-07	**SDG:**	L1570570
Client Sample ID:	776-VMP-2_1222-A	**Collected Date/Time:**	12/22/22 08:45
Lab File ID:	1229_11	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 18:02
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 18:02
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.58	0.702	J	0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	13.31	1.06	J	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	6.16		0.585	1.30	2.60
o-Xylene	95-47-6	12	1.96		0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_11.D
Acq On : 29 Dec 2022 6:02 pm
Operator :
Sample : L1570570-07 1x WG1980894
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 31 07:22:33 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

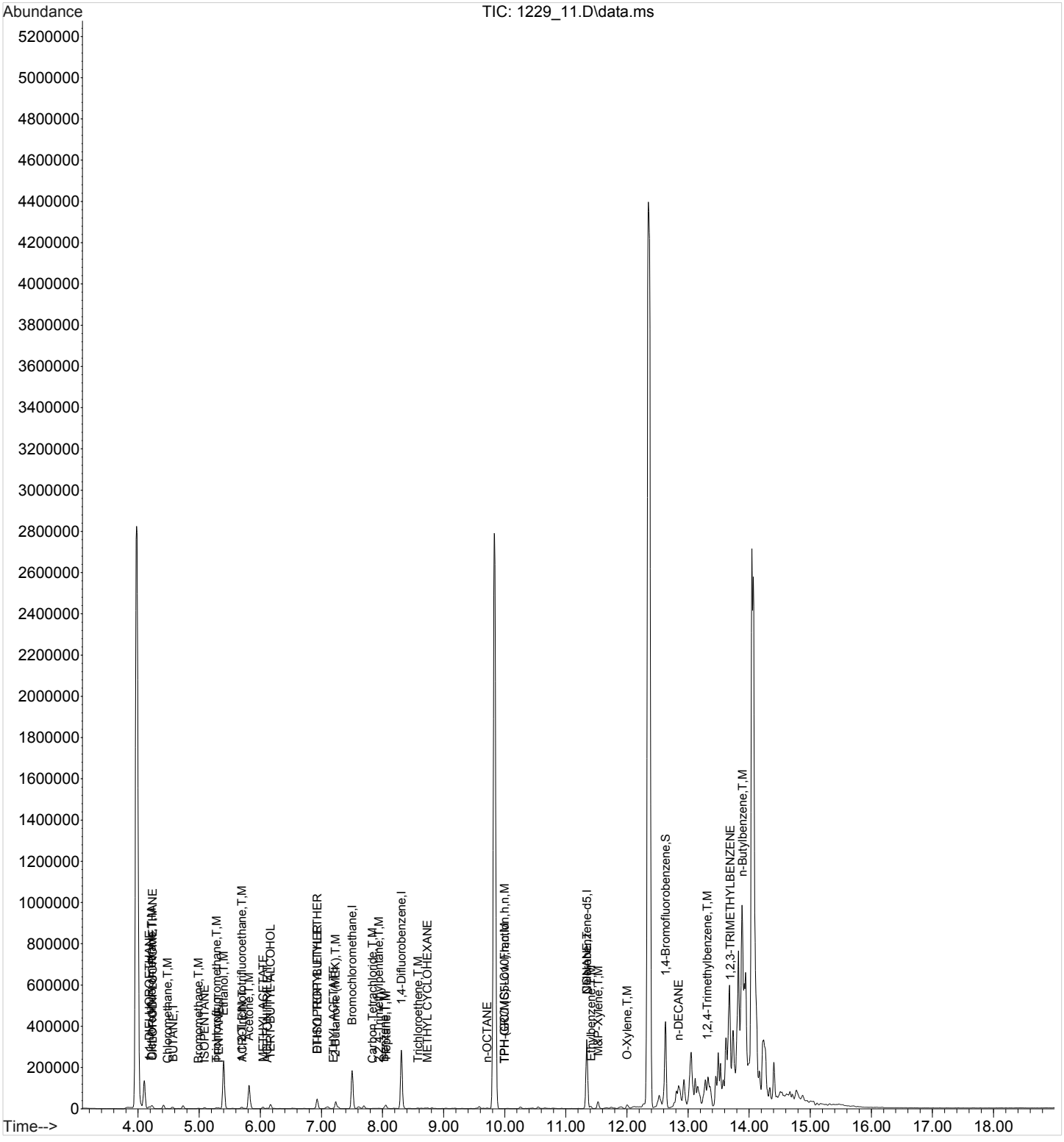
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	79698	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.307	114	279182	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	240242	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	137348	3.3506482	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 83.77%			
Target Compounds						Qvalue
3) BUTANE	4.572	43	4761	0.6510137	ppbv	97
4) 1,1-DIFLUOROETHANE	4.182	51	4464	0.7103439	ppbv	89
5) Dichlorodifluoromethane	4.219	85	11953	0.8839592	ppbv	99
6) CHLORODIFLUOROMETHANE	4.237	51	10847	1.4231760	ppbv	99
8) Chloromethane	4.481	50	1756	0.3612424	ppbv	99
11) Bromomethane	4.986	94	1306	0.2830039	ppbv #	78
13) ISOPENTANE	5.089	43	2133	0.4222600	ppbv #	86
15) Trichlorofluoromethane	5.284	101	3466	0.3061974	ppbv	99
16) PENTANE	5.320	43	2893	0.2784317	ppbv	98
17) Ethanol	5.399	45	310823	121.4888034	ppbv	99
18) ACROLEIN	5.703	56	1129	0.4753743	ppbv	98
19) 1,1,2-Trichlorotrifluo...	5.697	101	3350	0.2735506	ppbv	96
21) Acetone	5.813	43	140993	16.1216426	ppbv #	87
26) METHYL ACETATE	6.044	43	10117	1.0412294	ppbv #	100
27) ACETONITRILE	6.111	41	1207	0.2233351	ppbv #	82
29) TERT-BUTYL ALCOHOL	6.166	59	27062	2.6619050	ppbv #	1
36) DI-ISOPROPYL ETHER	6.932	45	8590	0.5219339	ppbv #	63
37) ETHYL TERT-BUTYL ETHER	6.932	59	1827	0.1047474	ppbv #	53
38) ETHYL ACETATE	7.194	45	423	0.2330655	ppbv #	1
39) 2-Butanone (MEK)	7.230	72	11570	4.3268309	ppbv	99
45) Carbon Tetrachloride	7.833	117	990	0.0783605	ppbv	99
46) 2,2,4-Trimethylpentane	7.936	57	2882	0.1077951	ppbv #	69
48) Benzene	8.027	78	4740	0.3009653	ppbv	96
51) Heptane	8.058	43	8231	0.9524350	ppbv	97
52) Trichloroethene	8.581	95	1006	0.1306470	ppbv	90
54) METHYL CYCLOHEXANE	8.733	83	1609	0.1545573	ppbv #	91
61) n-OCTANE	9.712	43	2300	0.1692094	ppbv	92
70) NONANE	11.343	43	3464	0.2407634	ppbv #	68
72) Ethylbenzene	11.410	91	9818	0.4268260	ppbv	100
73) M&P-Xylene	11.525	91	25582	1.4191110	ppbv	99
74) O-Xylene	12.000	91	8605	0.4525700	ppbv	99
80) n-DECANE	12.845	43	83569	6.9394552	ppbv #	67
88) 1,2,4-Trimethylbenzene	13.314	105	4149	0.2159210	ppbv	98
93) 1,2,3-TRIMETHYLBENZENE	13.691	105	1510	0.0807874	ppbv	93
95) n-Butylbenzene	13.892	91	1093	0.0517136	ppbv #	67
101) TPH (GC/MS) Low Fraction	10.000	TIC	27430886m	768.2592772	ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	28204221m	935.9918829	ppbv	

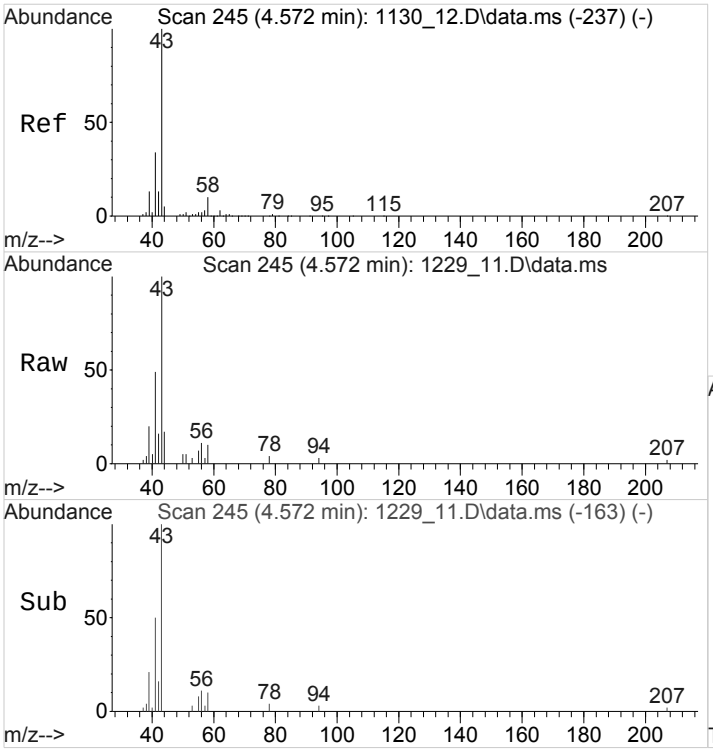
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_11.D
Acq On : 29 Dec 2022 6:02 pm
Operator :
Sample : L1570570-07 1x WG1980894
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 31 07:22:33 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

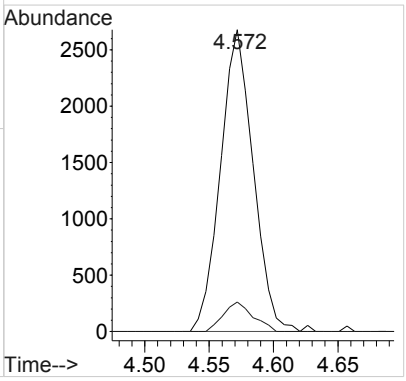


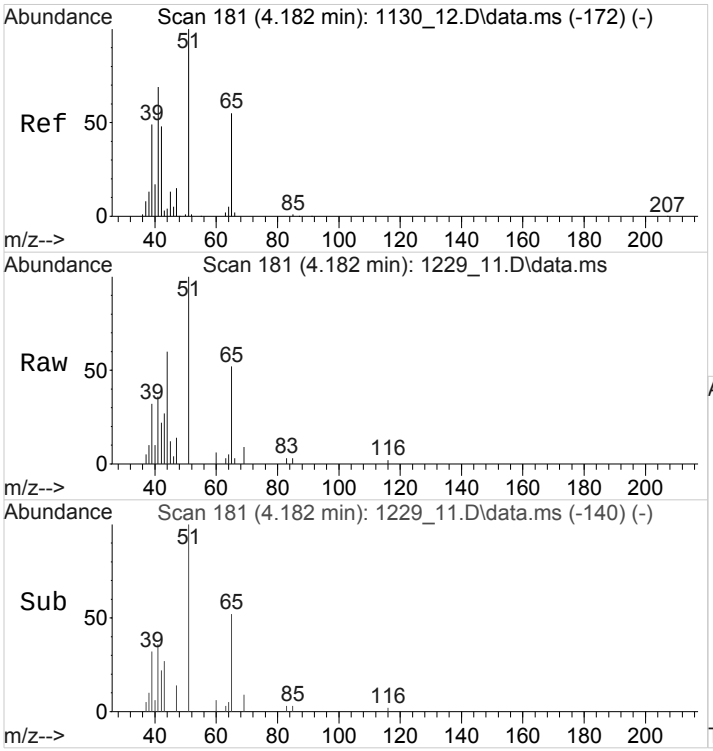


#3
BUTANE
Concen: 0.6510137 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 43 Resp: 4761

Ion	Ratio	Lower	Upper
43	100		
58	8.8	8.0	12.0

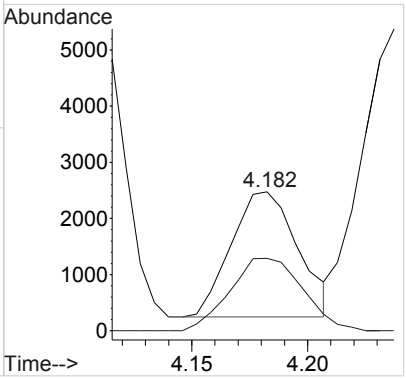




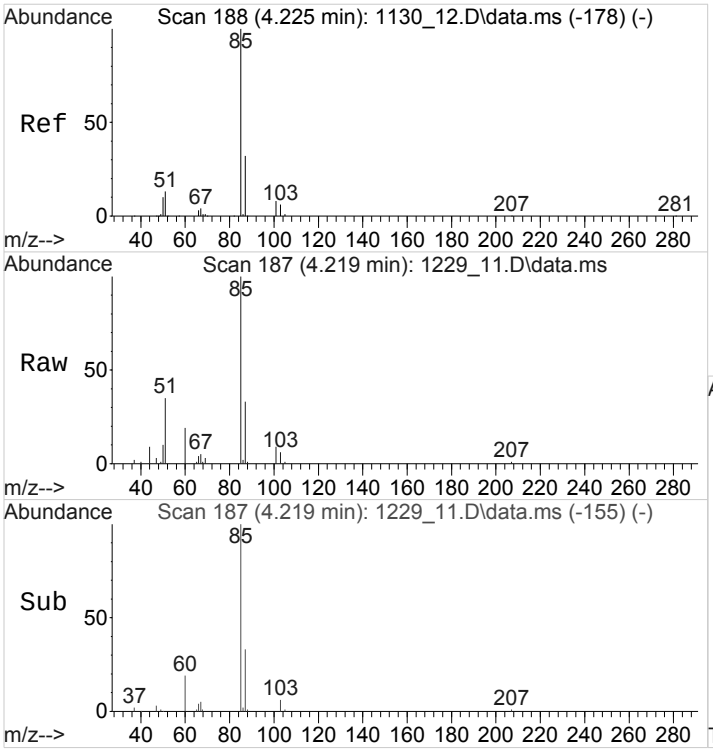
#4
1,1-DIFLUOROETHANE
Concen: 0.7103439 ppbv
RT: 4.182 min Scan# 181
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 51 Resp: 4464

Ion	Ratio	Lower	Upper
51	100		
65	63.3	44.1	66.1



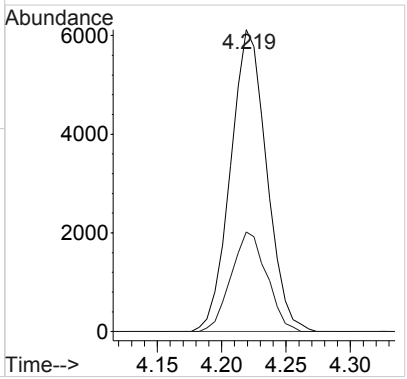
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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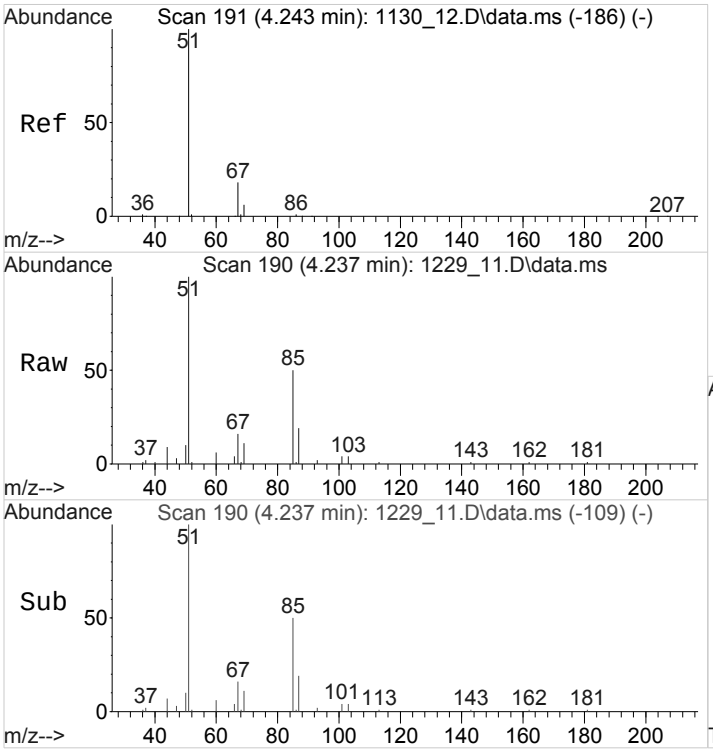


#5
Dichlorodifluoromethane
Concen: 0.8839592 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 85 Resp: 11953

Ion	Ratio	Lower	Upper
85	100		
87	32.6	25.8	38.6

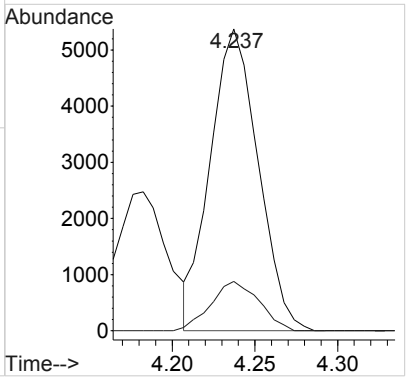




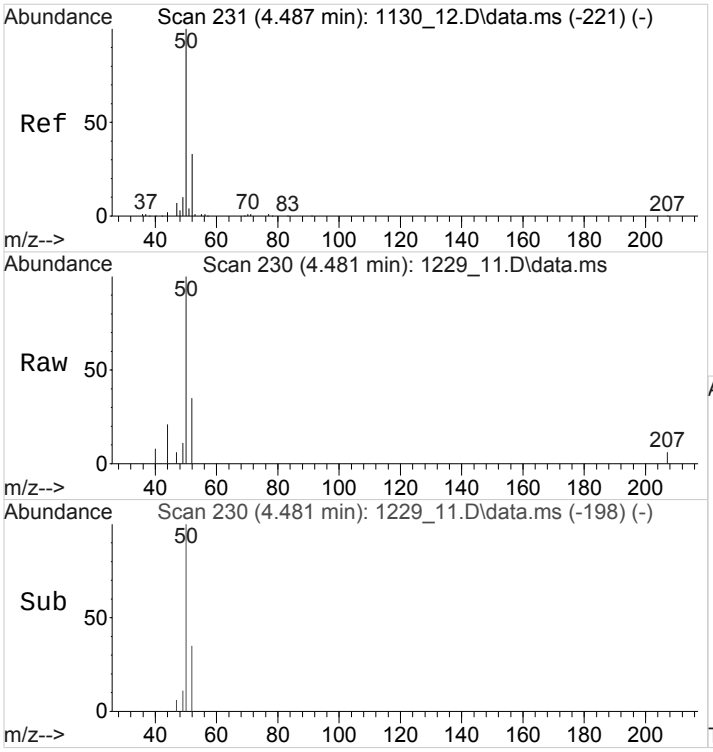
#6
CHLORODIFLUOROMETHANE
Concen: 1.4231760 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 51 Resp: 10847

Ion	Ratio	Lower	Upper
51	100		
67	16.5	13.0	19.4



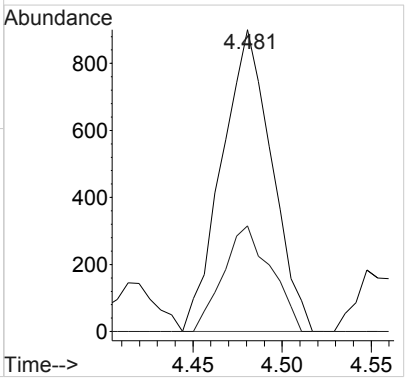
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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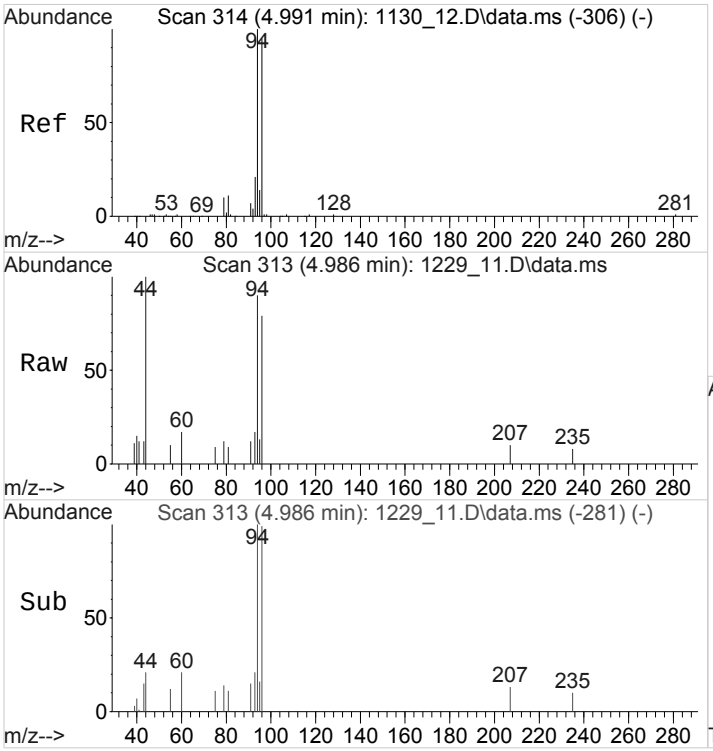


#8
Chloromethane
Concen: 0.3612424 ppbv
RT: 4.481 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 50 Resp: 1756

Ion	Ratio	Lower	Upper
50	100		
52	33.5	27.1	40.7

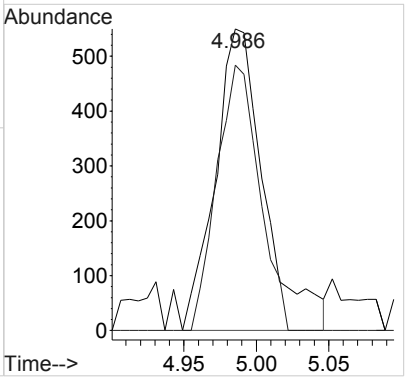




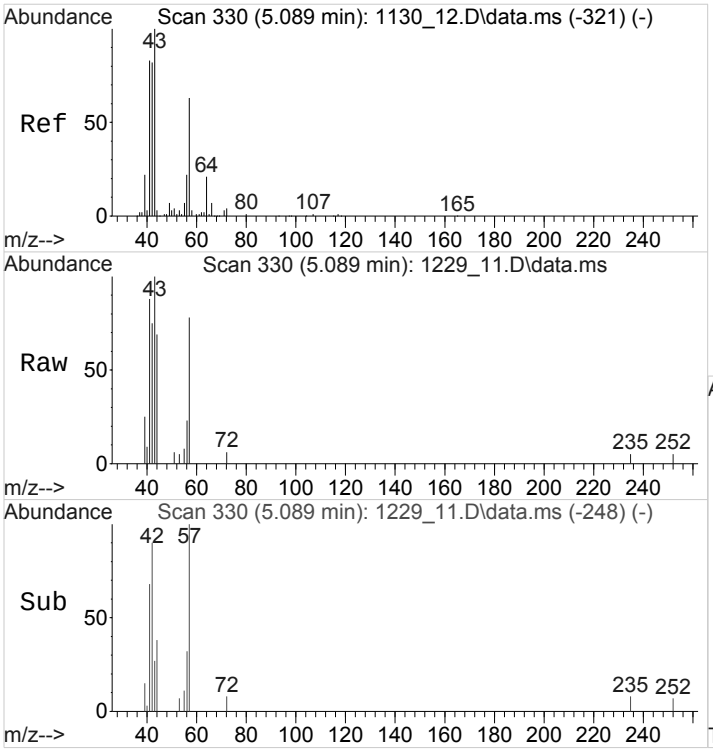
#11
Bromomethane
Concen: 0.2830039 ppbv
RT: 4.986 min Scan# 313
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 94 Resp: 1306

Ion	Ratio	Lower	Upper
94	100		
96	75.1	77.0	115.4#



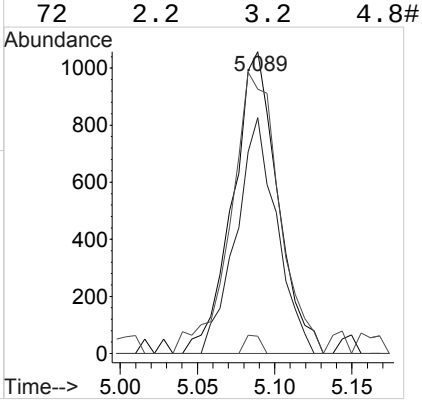
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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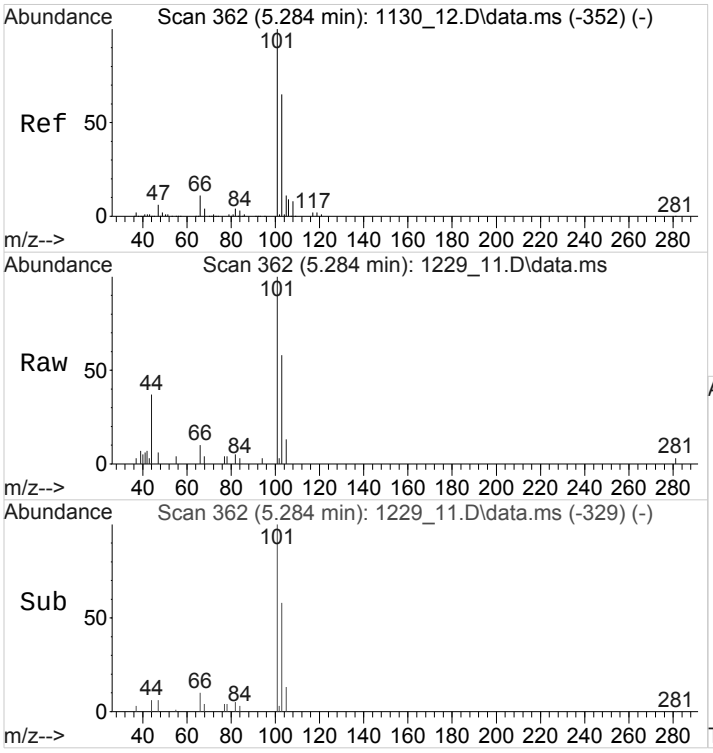


#13
ISOPENTANE
Concen: 0.4222600 ppbv
RT: 5.089 min Scan# 330
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 43 Resp: 2133

Ion	Ratio	Lower	Upper
43	100		
57	70.8	51.7	77.5
41	100.7	66.4	99.6#
72	2.2	3.2	4.8#

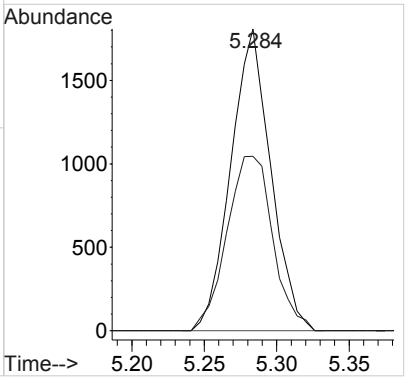




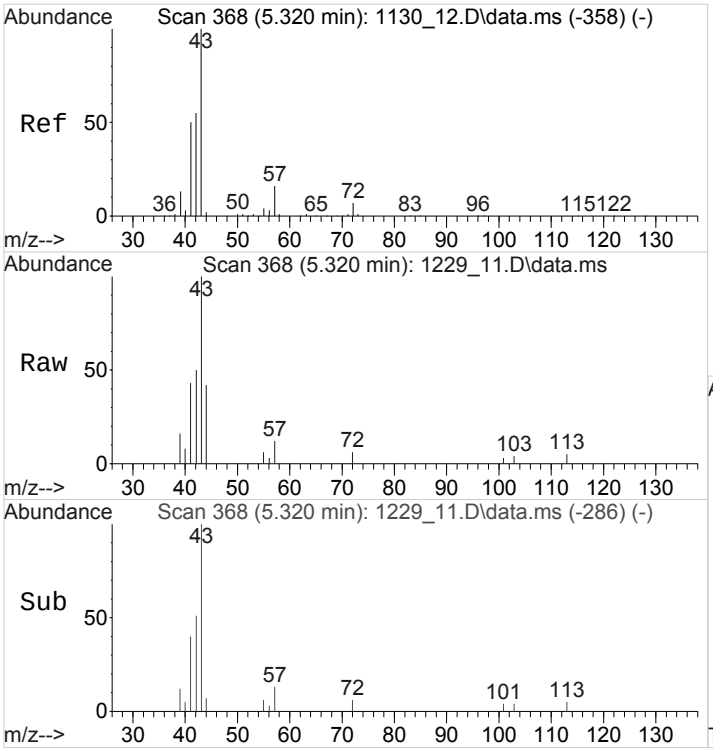
#15
Trichlorofluoromethane
Concen: 0.3061974 ppbv
RT: 5.284 min Scan# 362
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion:101 Resp: 3466

Ion	Ratio	Lower	Upper
101	100		
103	66.5	52.8	79.2



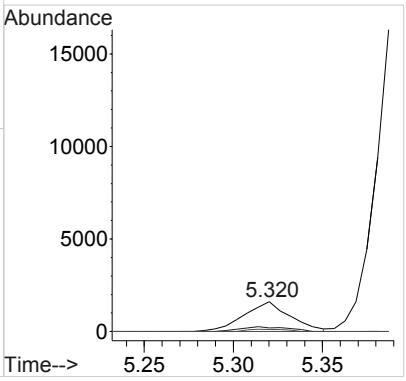
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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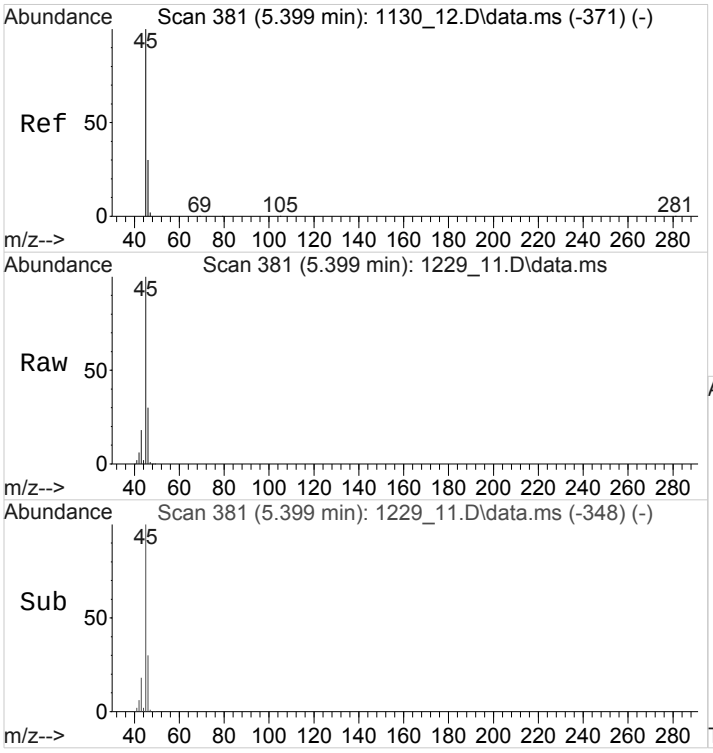


#16
PENTANE
Concen: 0.2784317 ppbv
RT: 5.320 min Scan# 368
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 43 Resp: 2893

Ion	Ratio	Lower	Upper
43	100		
57	16.7	13.0	19.4
72	6.2	5.8	8.8

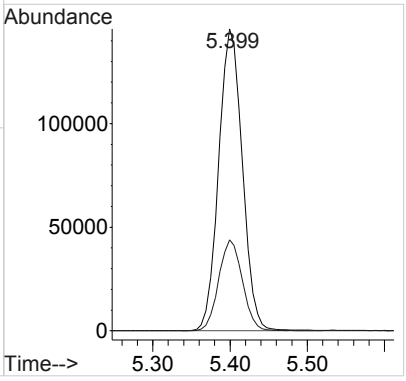




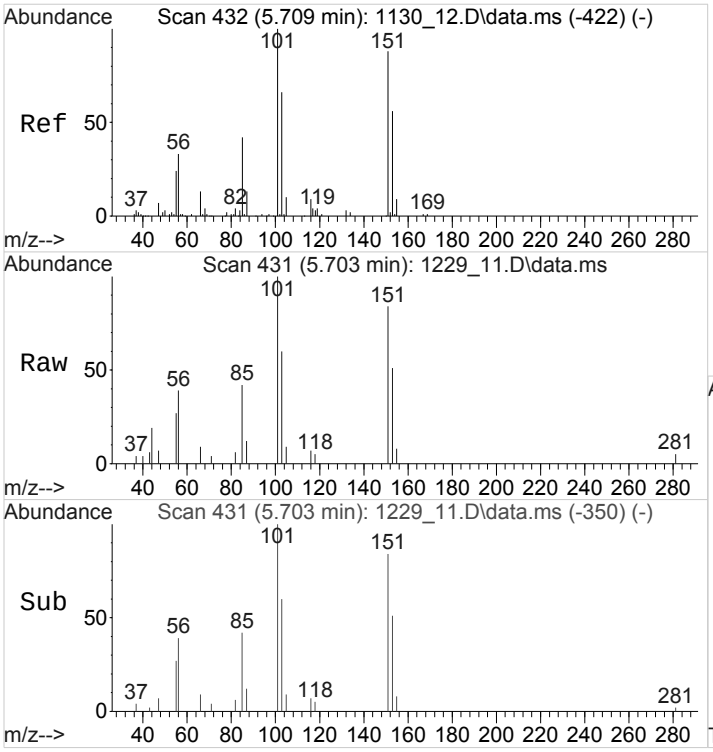
#17
Ethanol
Concen: 121.4888034 ppbv
RT: 5.399 min Scan# 381
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 45 Resp: 310823

Ion	Ratio	Lower	Upper
45	100		
46	30.1	23.6	35.4



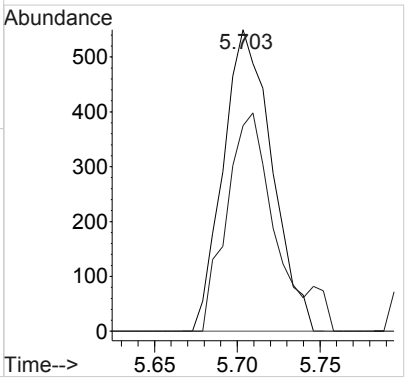
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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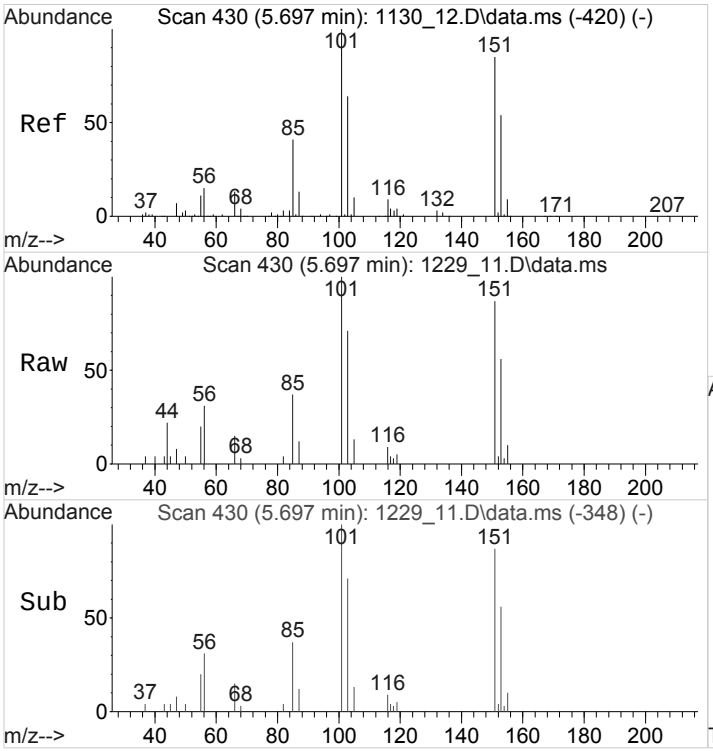


#18
ACROLEIN
Concen: 0.4753743 ppbv
RT: 5.703 min Scan# 431
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 56 Resp: 1129

Ion	Ratio	Lower	Upper
56	100		
55	73.6	60.4	90.6

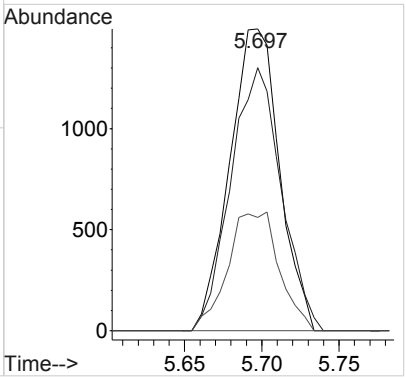




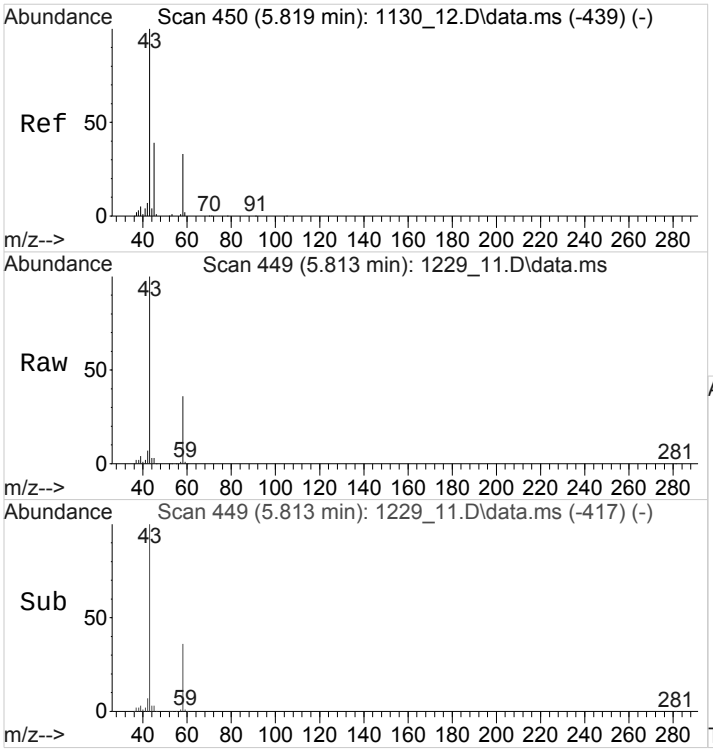
#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.2735506 ppbv
RT: 5.697 min Scan# 430
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion:101 Resp: 3350

Ion	Ratio	Lower	Upper
101	100		
151	88.4	67.4	101.2
85	40.6	34.4	51.6



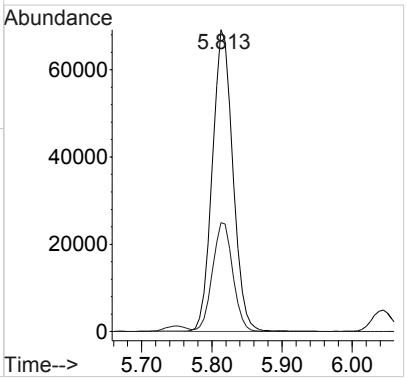
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	149 of 471

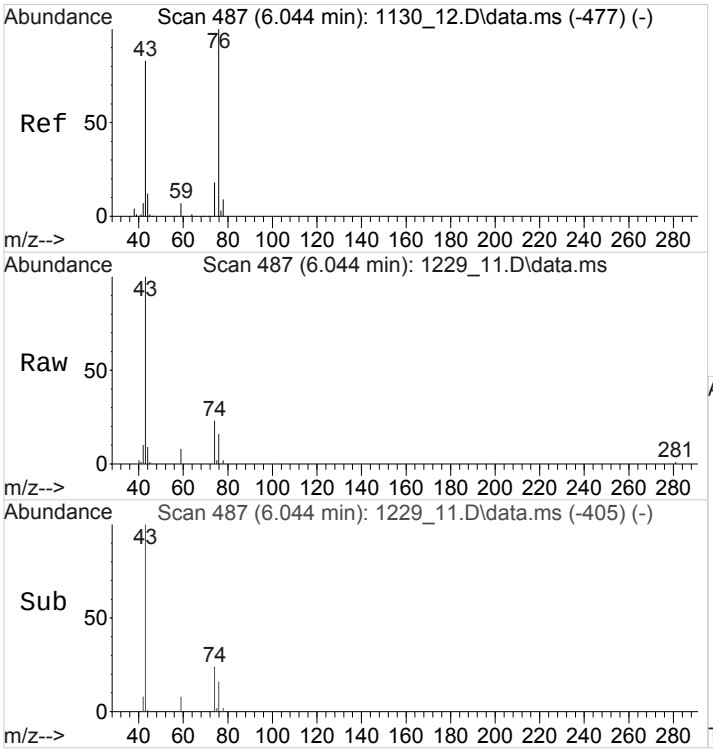


#21
Acetone
Concen: 16.1216426 ppbv
RT: 5.813 min Scan# 449
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 43 Resp: 140993

Ion	Ratio	Lower	Upper
43	100		
58	35.6	23.1	34.7#

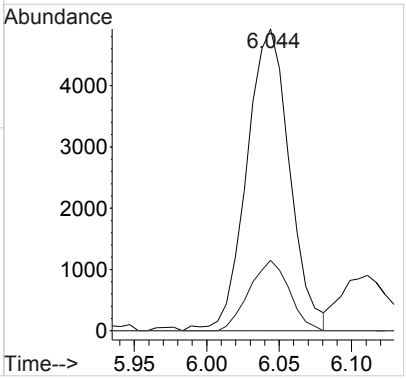




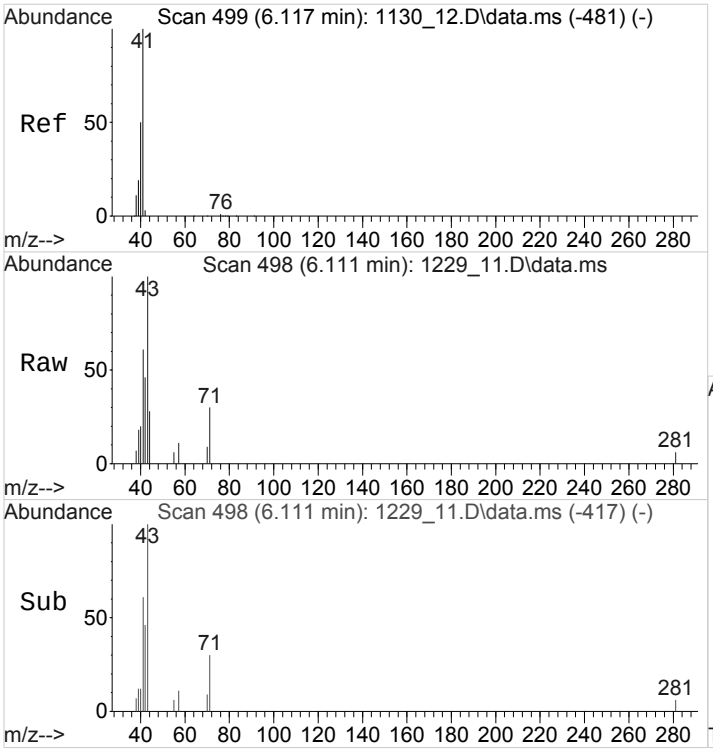
#26
METHYL ACETATE
Concen: 1.0412294 ppbv
RT: 6.044 min Scan# 487
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 43 Resp: 10117

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.0
29	0.0	0.0	0.0



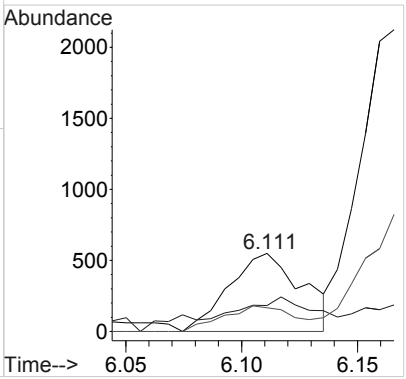
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	150 of 471

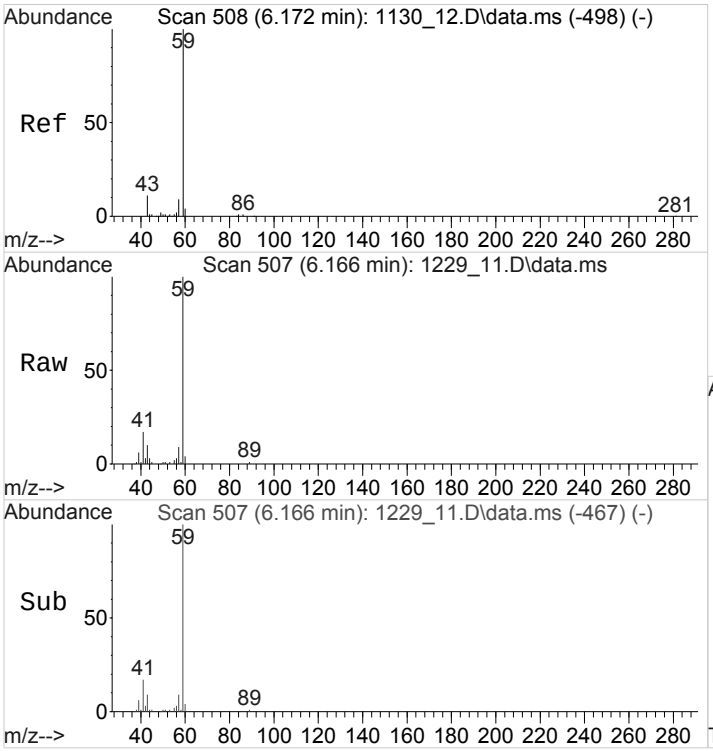


#27
ACETONITRILE
Concen: 0.2233351 ppbv
RT: 6.111 min Scan# 498
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 41 Resp: 1207

Ion	Ratio	Lower	Upper
41	100		
40	57.7	32.7	49.1#
39	31.5	22.7	34.1

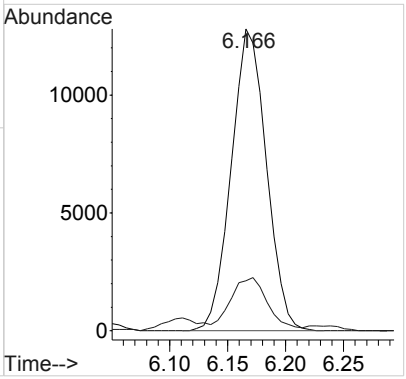


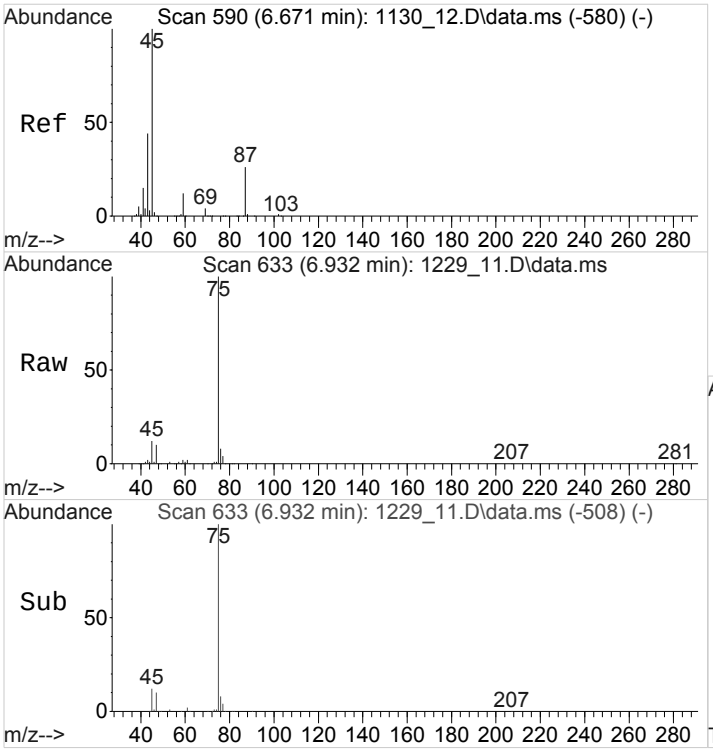


#29
TERT-BUTYL ALCOHOL
Concen: 2.6619050 ppbv
RT: 6.166 min Scan# 507
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 59 Resp: 27062

Ion	Ratio	Lower	Upper
59	100		
41	18.7	216.4	324.6#

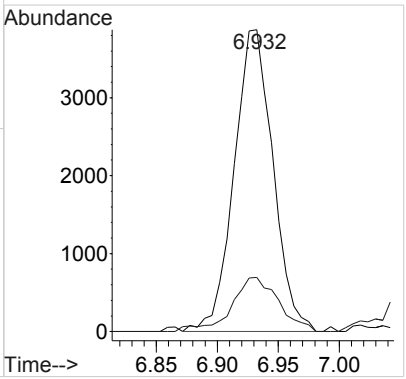


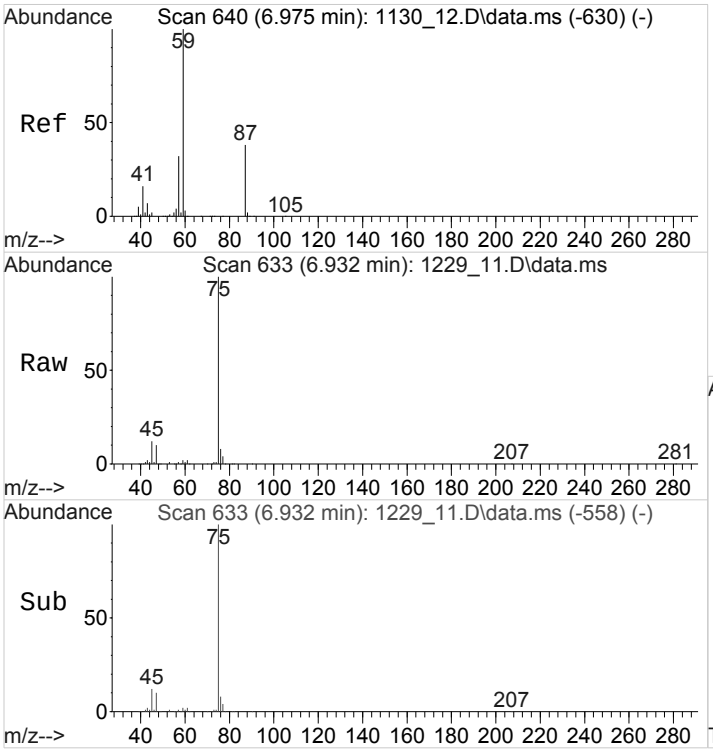


#36
DI-ISOPROPYL ETHER
Concen: 0.5219339 ppbv
RT: 6.932 min Scan# 633
Delta R.T. 0.262 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 45 Resp: 8590

Ion	Ratio	Lower	Upper
45	100		
43	21.6	36.7	55.1#

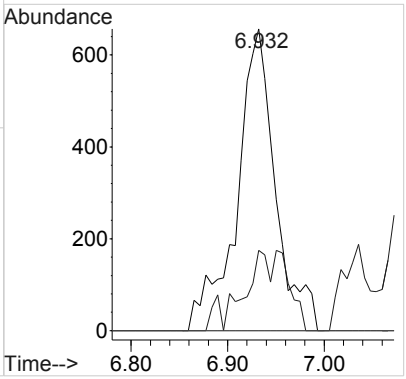


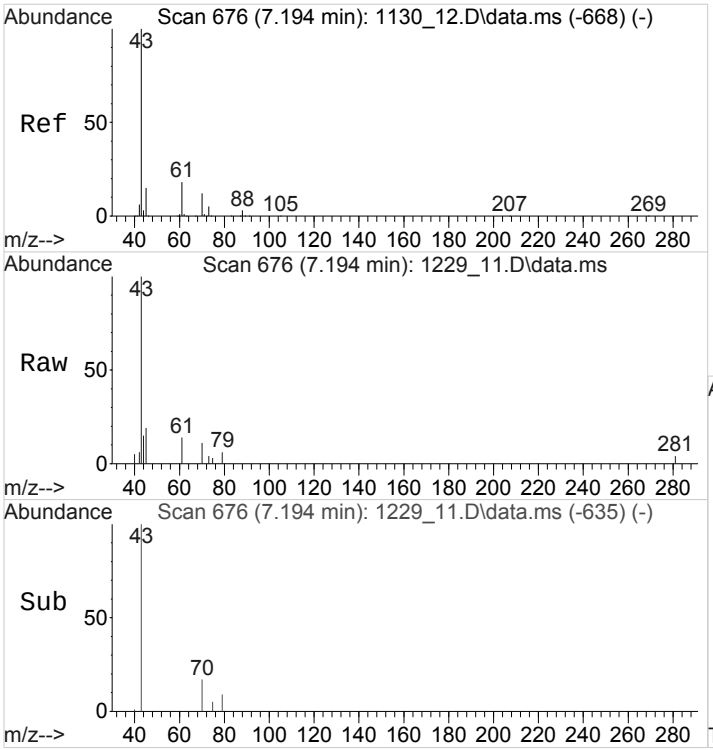


#37
ETHYL TERT-BUTYL ETHER
Concen: 0.1047474 ppbv
RT: 6.932 min Scan# 633
Delta R.T. -0.042 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 59 Resp: 1827

Ion	Ratio	Lower	Upper
59	100		
57	16.7	26.6	39.8#
87	0.0	30.4	45.6#

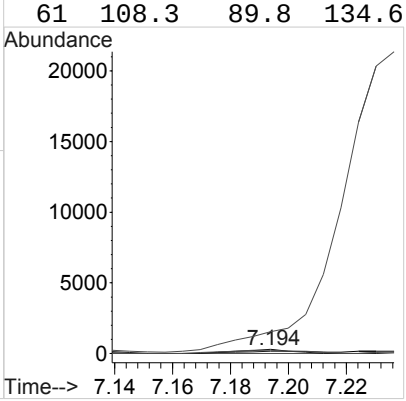


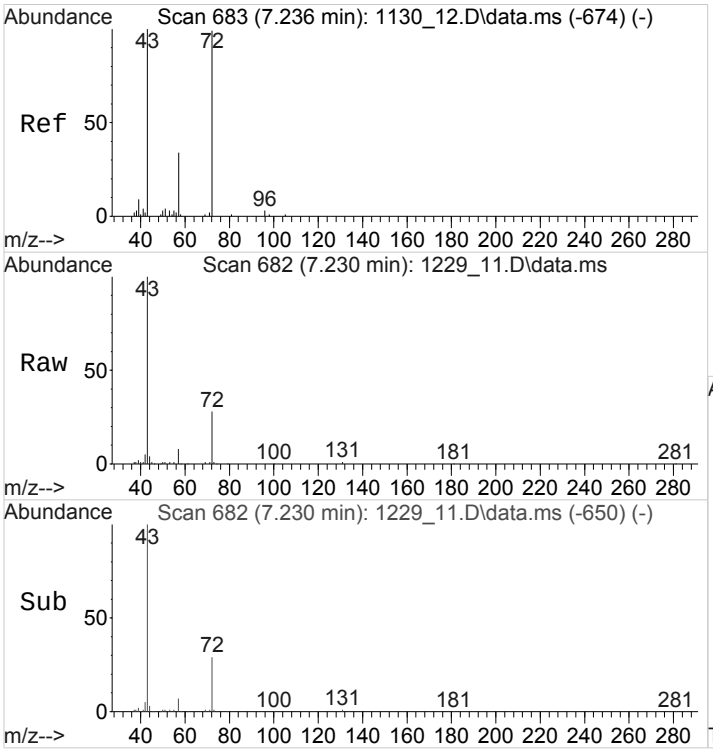


#38
ETHYL ACETATE
Concen: 0.2330655 ppbv
RT: 7.194 min Scan# 676
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 45 Resp: 423

Ion	Ratio	Lower	Upper
45	100		
70	63.4	60.5	90.7
43	0.0	543.4	815.0#
61	108.3	89.8	134.6

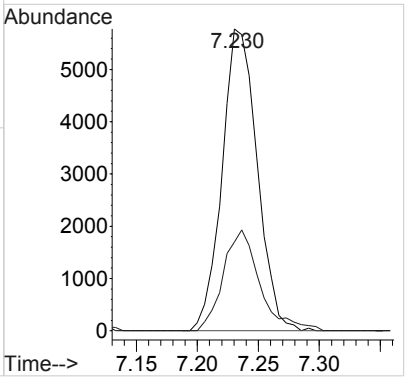


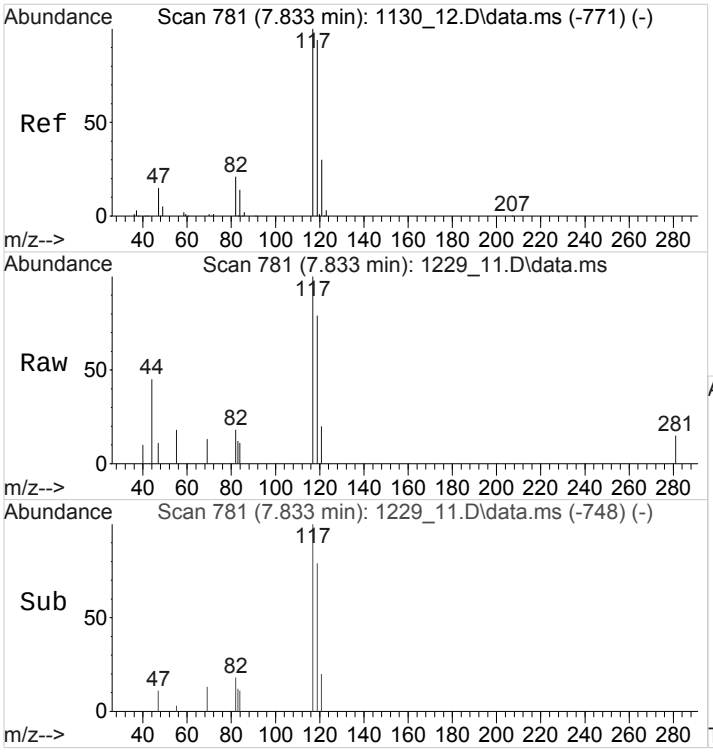


#39
2-Butanone (MEK)
Concen: 4.3268309 ppbv
RT: 7.230 min Scan# 682
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 72 Resp: 11570

Ion	Ratio	Lower	Upper
72	100		
57	34.8	27.3	40.9

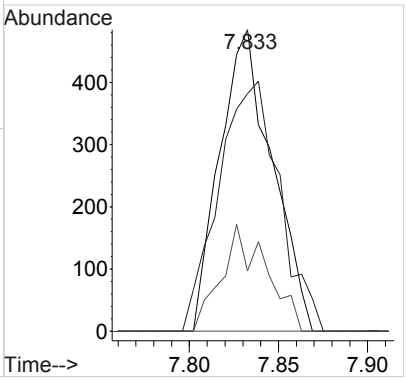


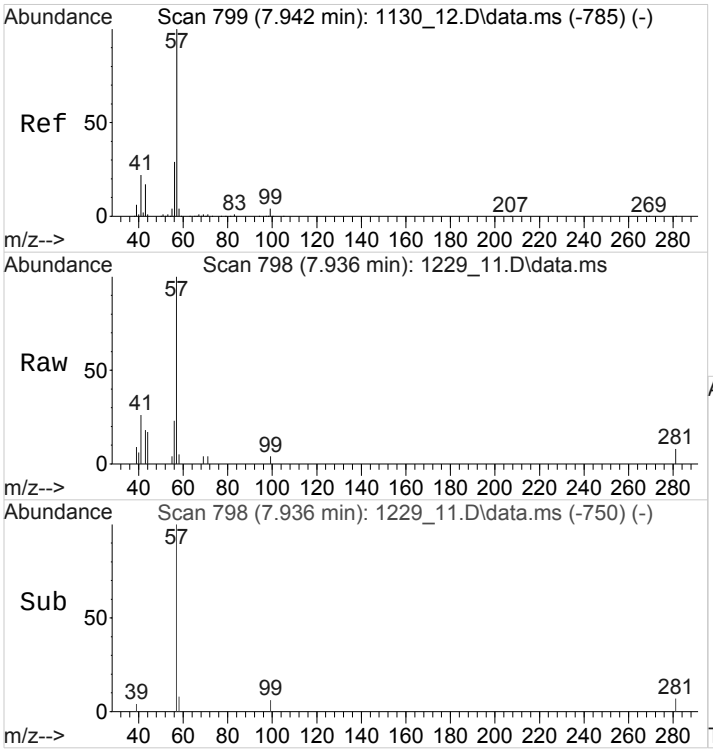


#45
Carbon Tetrachloride
Concen: 0.0783605 ppbv
RT: 7.833 min Scan# 781
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion:117 Resp: 990

Ion	Ratio	Lower	Upper
117	100		
119	96.0	77.3	115.9
121	30.3	25.0	37.4

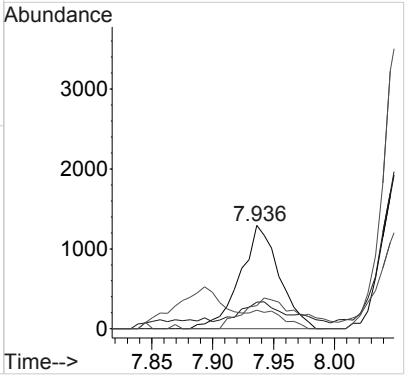


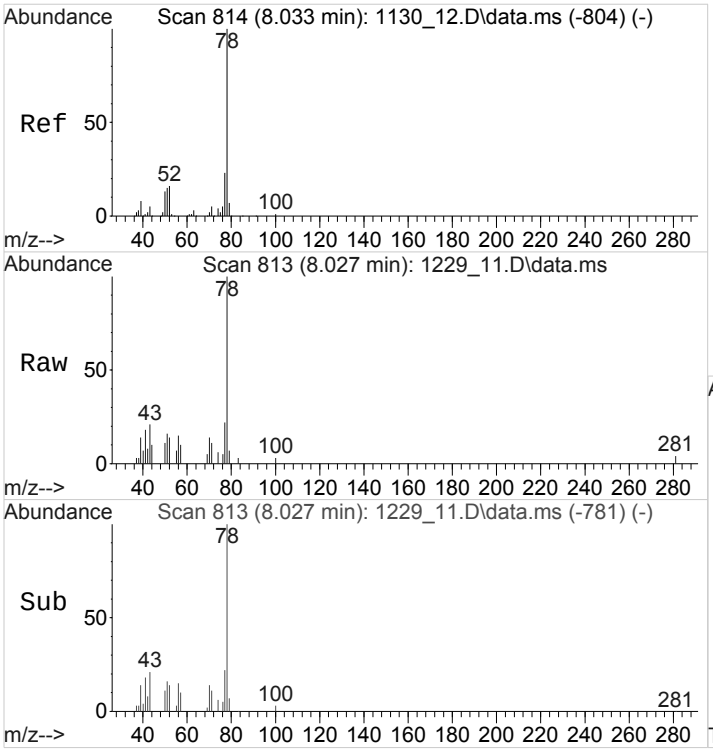


#46
2,2,4-Trimethylpentane
Concen: 0.1077951 ppbv
RT: 7.936 min Scan# 798
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 57 Resp: 2882

Ion	Ratio	Lower	Upper
57	100		
41	23.6	18.2	27.2
43	51.4	13.3	19.9#
56	42.3	23.3	34.9#

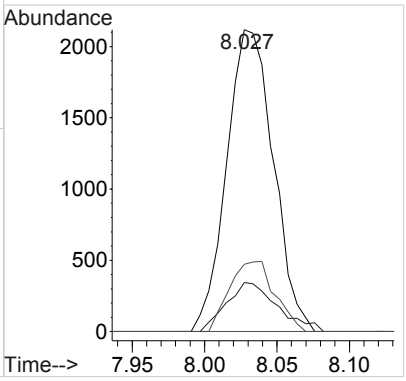


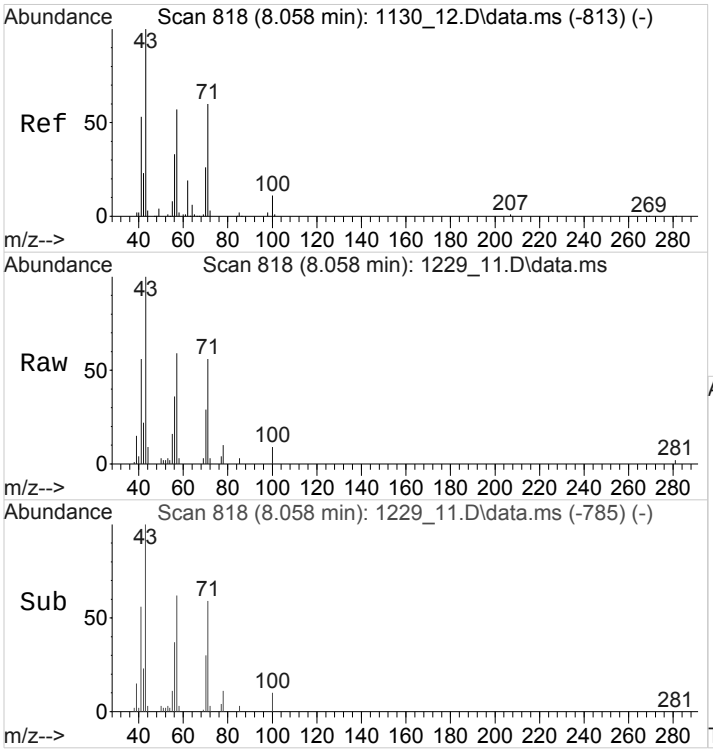


#48
Benzene
Concen: 0.3009653 ppbv
RT: 8.027 min Scan# 813
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 78 Resp: 4740

Ion	Ratio	Lower	Upper
78	100		
51	17.7	12.1	18.1
77	22.6	18.8	28.2

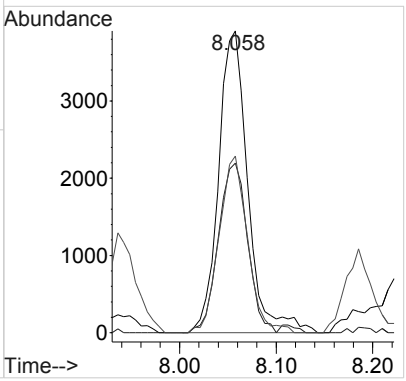




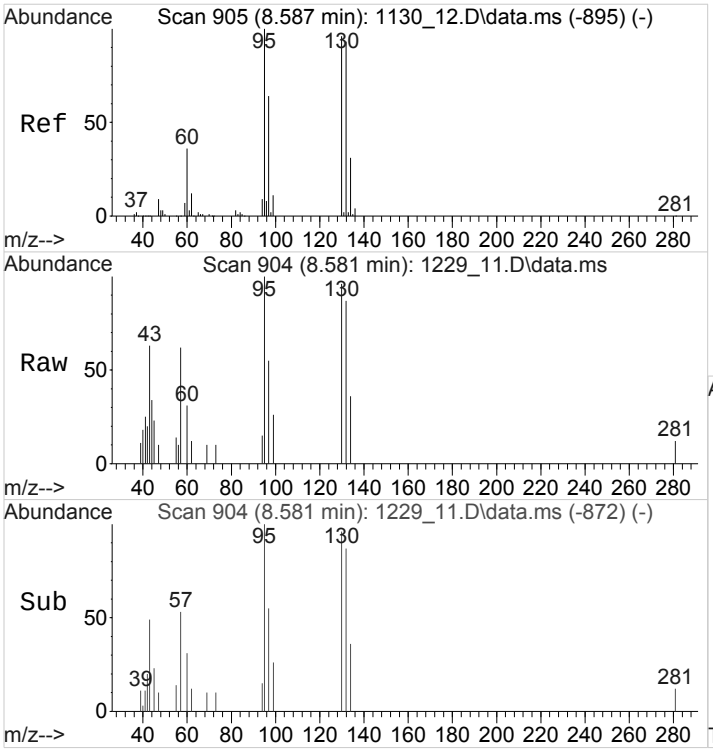
#51
Heptane
Concen: 0.9524350 ppbv
RT: 8.058 min Scan# 818
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 43 Resp: 8231

Ion	Ratio	Lower	Upper
43	100		
71	56.0	47.0	70.4
57	57.3	43.9	65.9



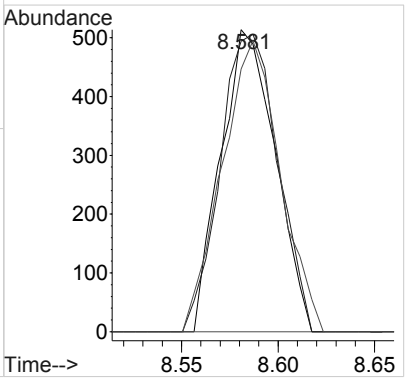
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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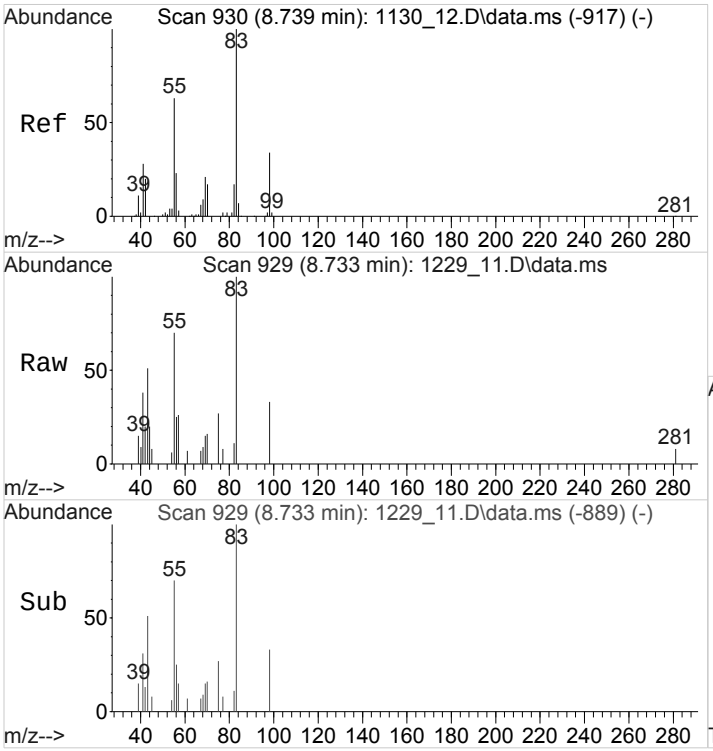


#52
Trichloroethene
Concen: 0.1306470 ppbv
RT: 8.581 min Scan# 904
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 95 Resp: 1006

Ion	Ratio	Lower	Upper
95	100		
130	104.5	76.9	115.3
132	103.0	73.3	109.9

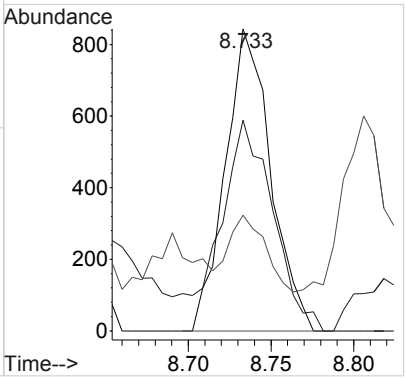




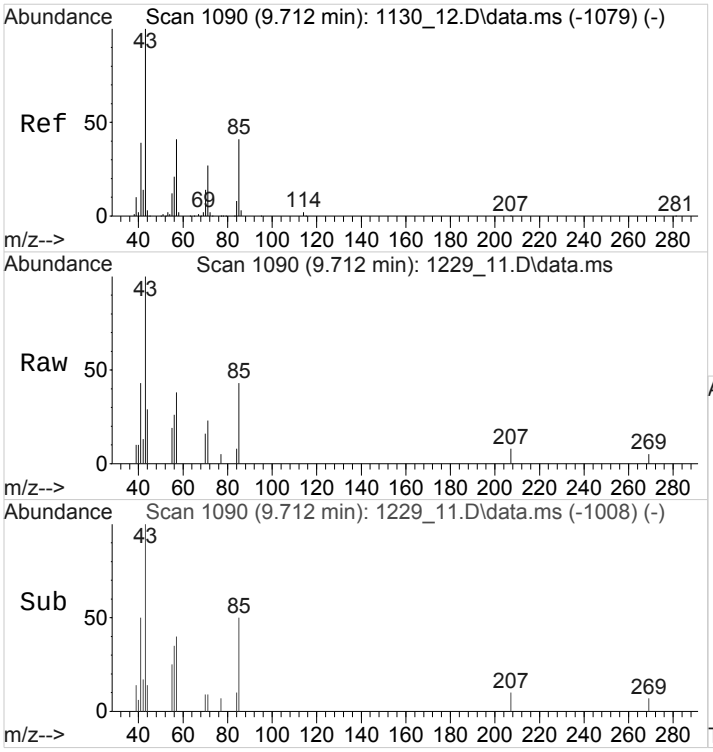
#54
METHYL CYCLOHEXANE
Concen: 0.1545573 ppbv
RT: 8.733 min Scan# 929
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 83 Resp: 1609

Ion	Ratio	Lower	Upper
83	100		
55	78.1	66.6	99.8
41	24.2	26.8	40.2#



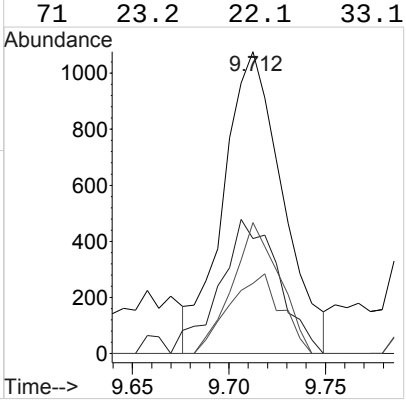
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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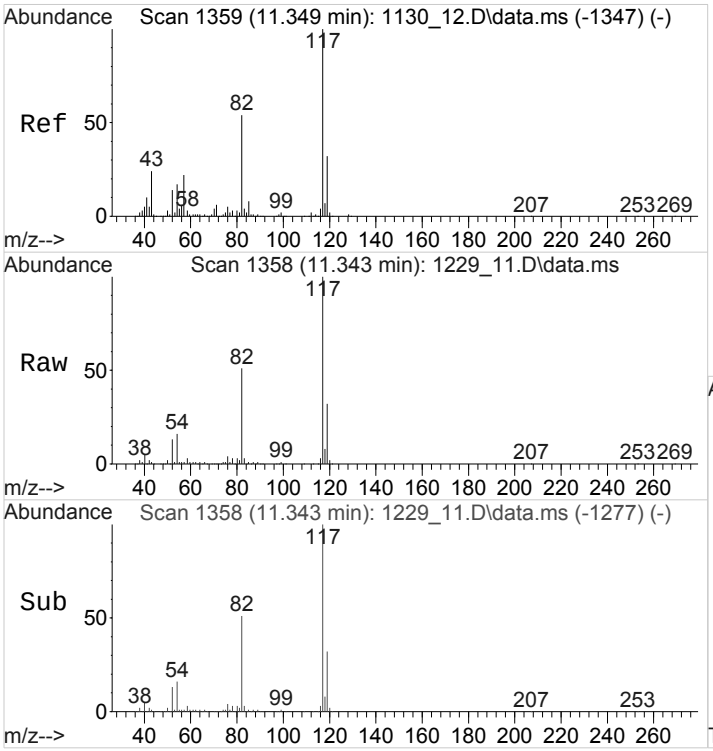


#61
n-OCTANE
Concen: 0.1692094 ppbv
RT: 9.712 min Scan# 1090
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 43 Resp: 2300

Ion	Ratio	Lower	Upper
43	100		
57	44.1	33.1	49.7
85	34.5	33.1	49.7
71	23.2	22.1	33.1

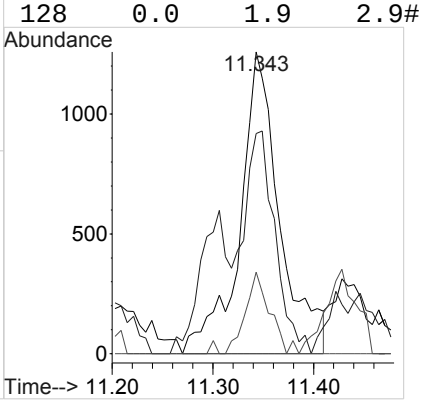




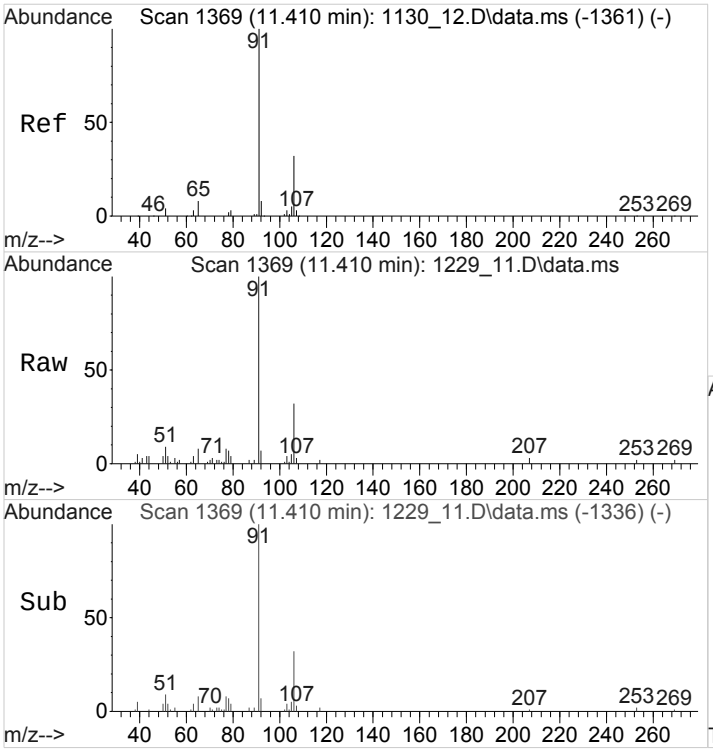
#70
NONANE
Concen: 0.2407634 ppbv
RT: 11.343 min Scan# 1358
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 43 Resp: 3464

Ion	Ratio	Lower	Upper
43	100		
57	57.5	74.6	112.0#
71	16.6	20.0	30.0#
128	0.0	1.9	2.9#



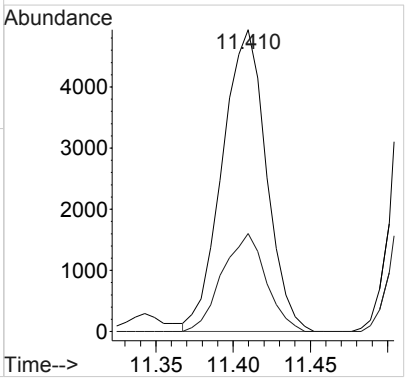
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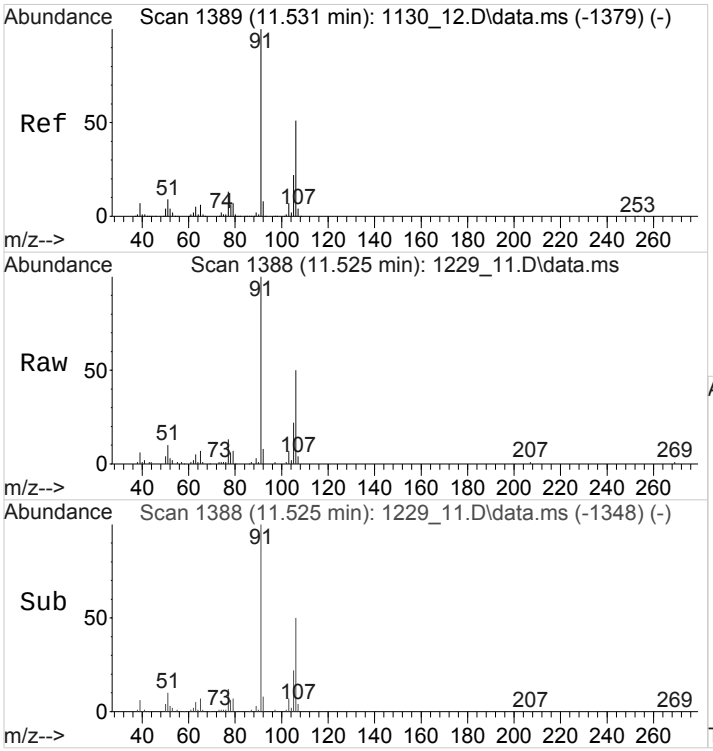


#72
Ethylbenzene
Concen: 0.4268260 ppbv
RT: 11.410 min Scan# 1369
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 91 Resp: 9818

Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.6	38.4

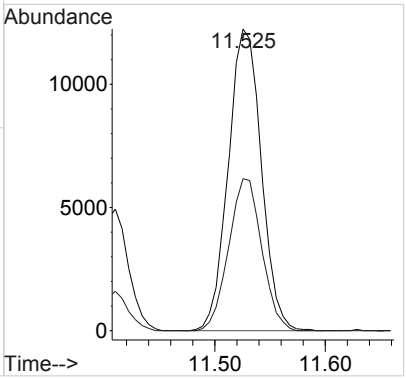


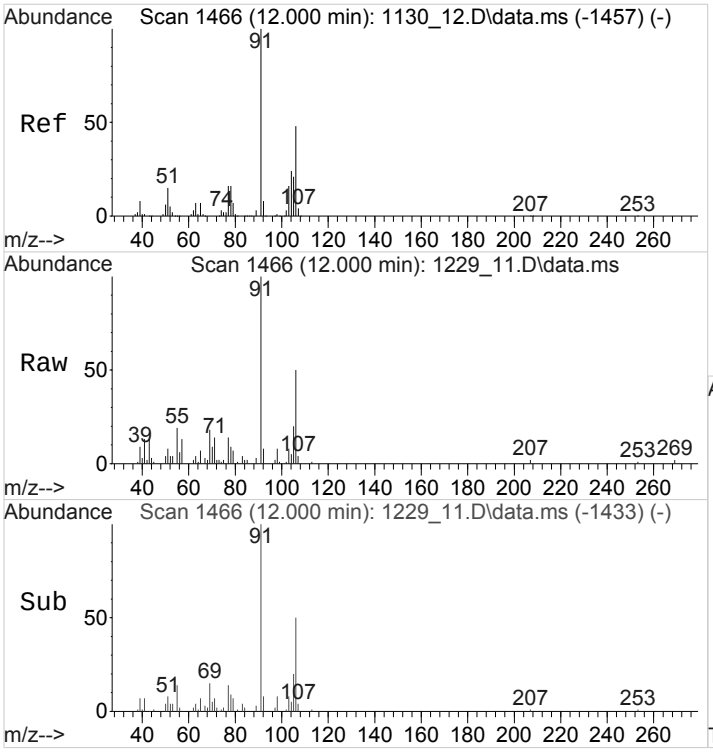


#73
M&P-Xylene
Concen: 1.4191110 ppbv
RT: 11.525 min Scan# 1388
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 91 Resp: 25582

Ion	Ratio	Lower	Upper
91	100		
106	50.5	39.7	59.5

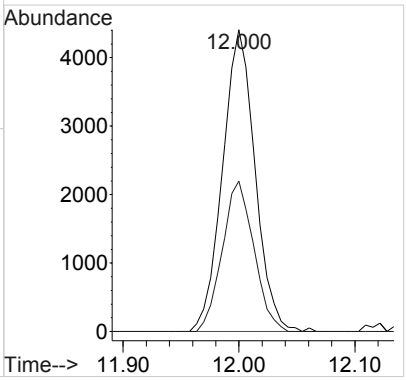


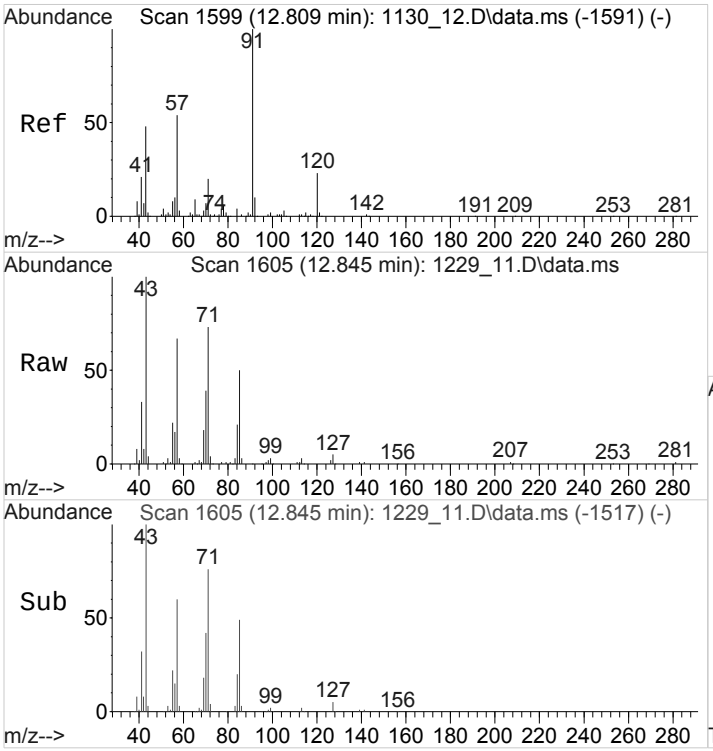


#74
O-Xylene
Concen: 0.4525700 ppbv
RT: 12.000 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 91 Resp: 8605

Ion	Ratio	Lower	Upper
91	100		
106	48.4	38.4	57.6

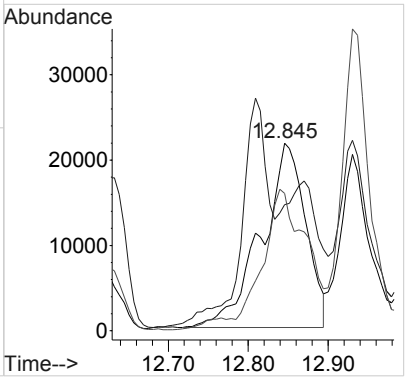


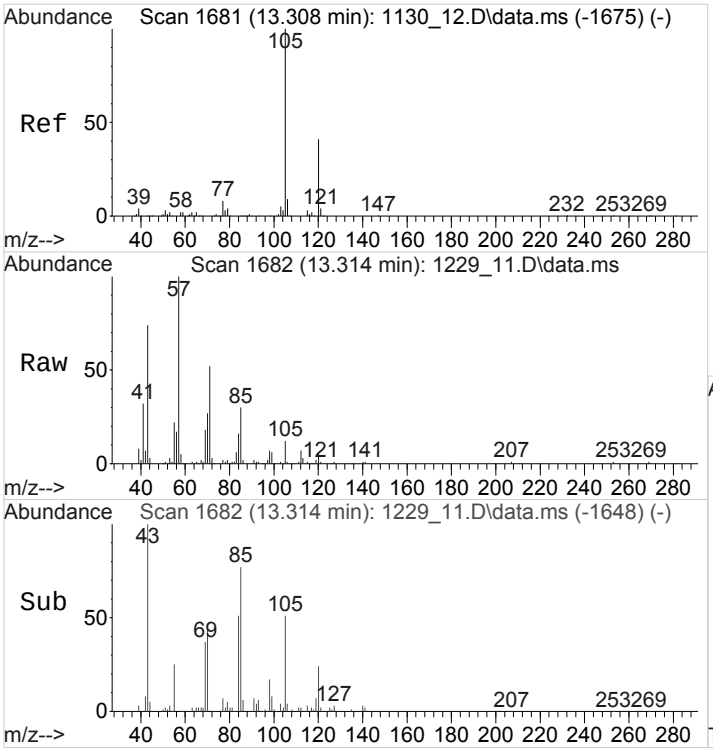


#80
n-DECANE
Concen: 6.9394552 ppbv
RT: 12.845 min Scan# 1605
Delta R.T. 0.037 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 43 Resp: 83569

Ion	Ratio	Lower	Upper
43	100		
57	77.4	89.7	134.5#
71	64.0	34.1	51.1#

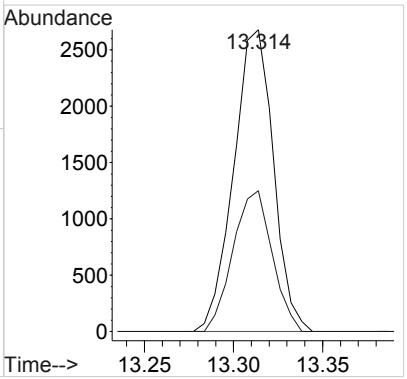


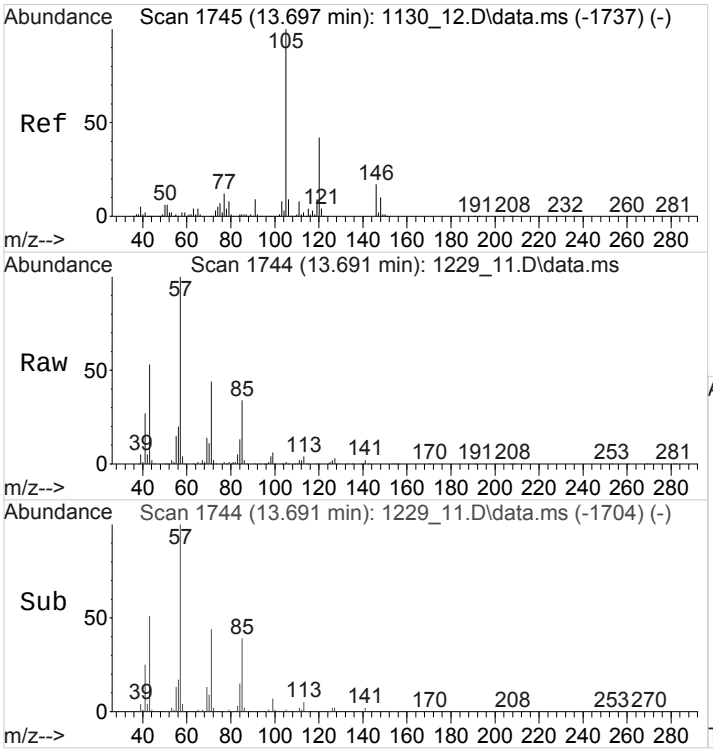


#88
1,2,4-Trimethylbenzene
Concen: 0.2159210 ppbv
RT: 13.314 min Scan# 1682
Delta R.T. 0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion:105 Resp: 4149

Ion	Ratio	Lower	Upper
105	100		
120	45.9	35.9	53.9

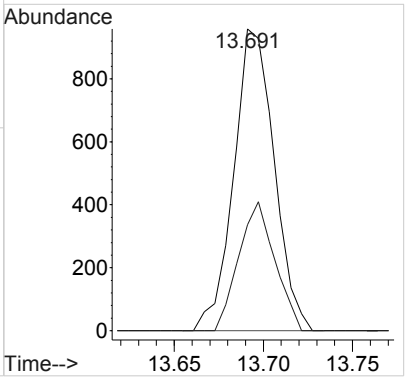




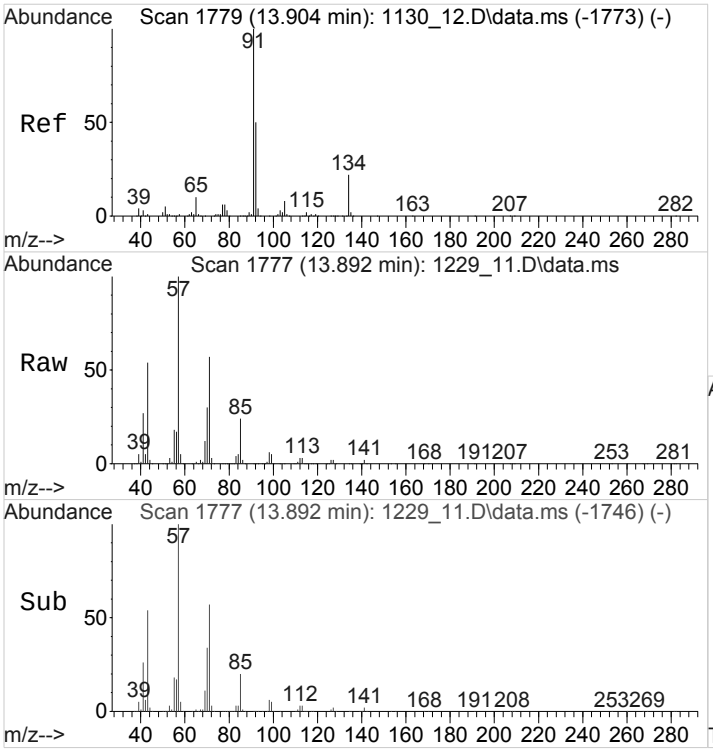
#93
1,2,3-TRIMETHYLBENZENE
Concen: 0.0807874 ppbv
RT: 13.691 min Scan# 1744
Delta R.T. -0.006 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion:105 Resp: 1510

Ion	Ratio	Lower	Upper
105	100		
120	38.1	34.0	51.0



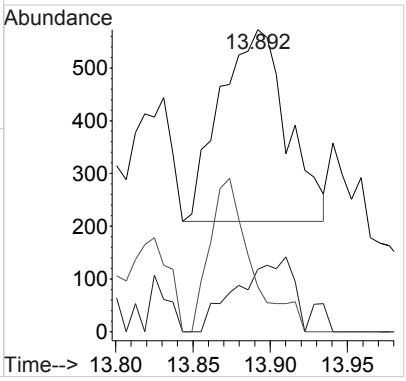
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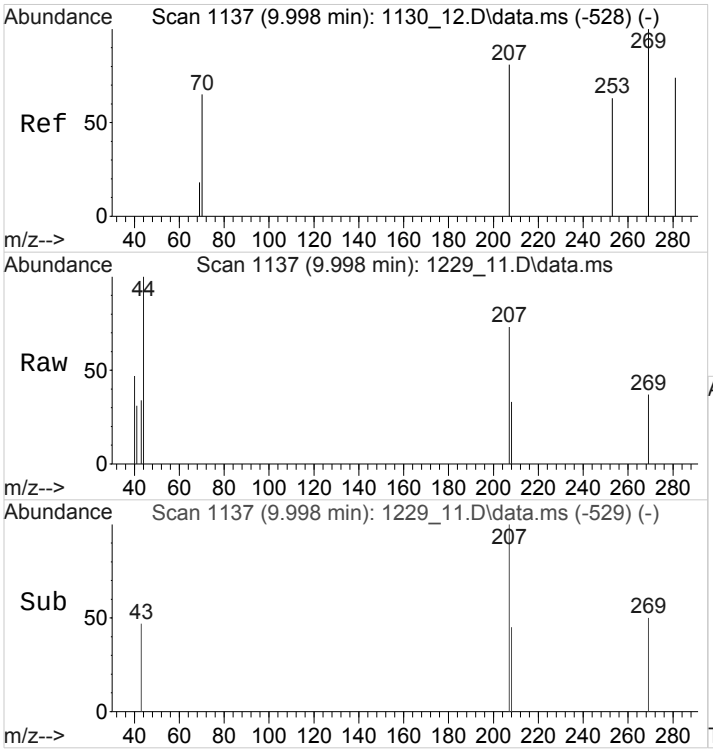


#95
n-Butylbenzene
Concen: 0.0517136 ppbv
RT: 13.892 min Scan# 1777
Delta R.T. -0.012 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion: 91 Resp: 1093

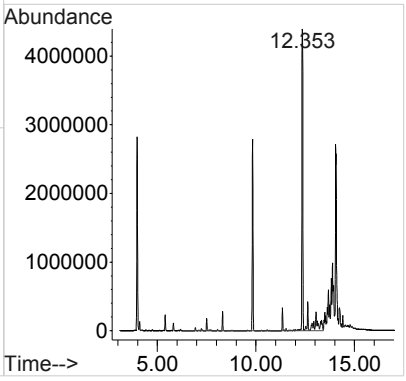
Ion	Ratio	Lower	Upper
91	100		
92	35.1	39.8	59.6#
134	49.7	17.6	26.4#



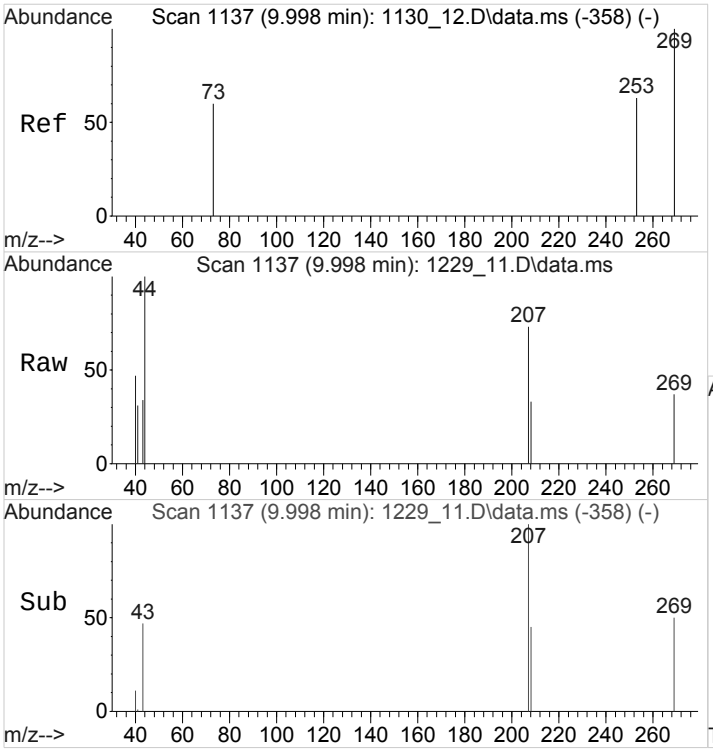


#101
TPH (GC/MS) Low Fraction
Concen: 768.2592772 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion:TIC Resp:27430886

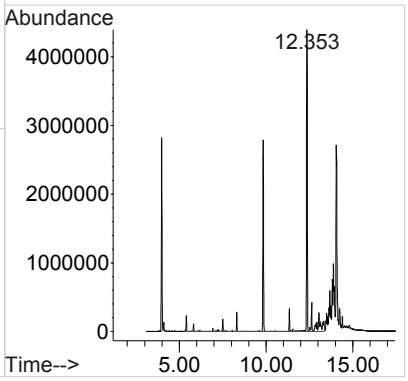


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#102
TPH-GRO (C5-C10)
Concen: 935.9918829 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_11.D
Acq: 29 Dec 2022 6:02 pm

Tgt Ion:TIC Resp:28204221



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SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
776-VMP-3_1222

Lab Sample ID:	L1570570-08	**SDG:**	L1570570
Client Sample ID:	776-VMP-3_1222	**Collected Date/Time:**	12/22/22 08:50
Lab File ID:	1229_12	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 18:45
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 18:45
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.82	7.68		1.39	2.85	5.70
Benzene	71-43-2	8.03	0.521	J	0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	7.84	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	0.576	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	0	0.867	U	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	12.88	0.506	J	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.43	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	4.18		0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	0.658	J	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	6.21	0.694	U	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	0.958	J	0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	0	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	0	0.942	U	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
776-VMP-3_1222

Lab Sample ID:	L1570570-08	**SDG:**	L1570570
Client Sample ID:	776-VMP-3_1222	**Collected Date/Time:**	12/22/22 08:50
Lab File ID:	1229_12	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 18:45
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 18:45
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.58	1.36	J	0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	13.31	0.604	J	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	1.30	U	0.585	1.30	2.60
o-Xylene	95-47-6	0	0.759	U	0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_12.D
Acq On : 29 Dec 2022 6:45 pm
Operator :
Sample : L1570570-08 1x WG1980894
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 07:23:51 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

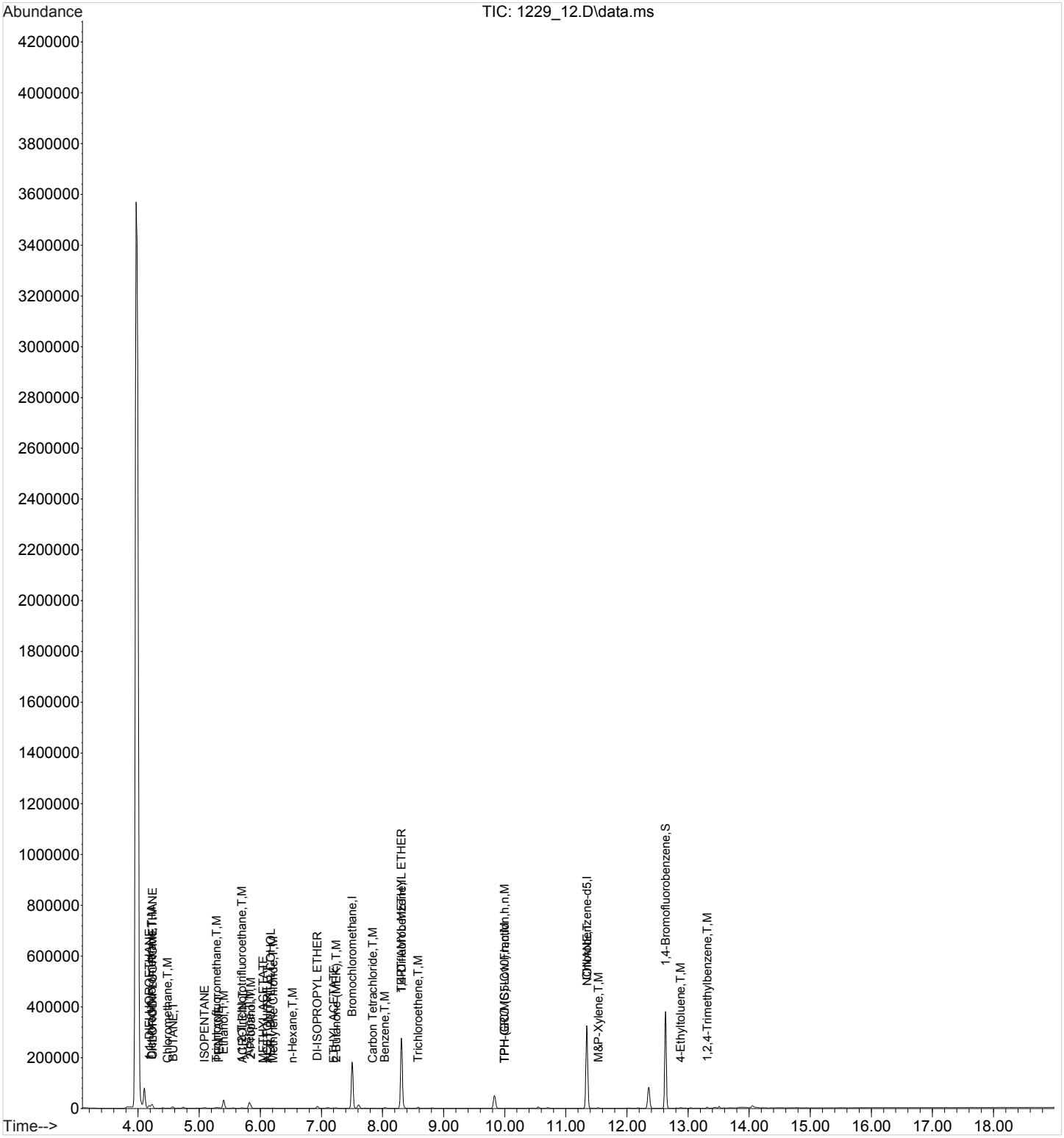
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	78969	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	278860	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	245657	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.632	95	142183	3.3921414	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 84.80%				
Target Compounds							Qvalue
3) BUTANE	4.572	43	4291	0.5921629	ppbv		97
4) 1,1-DIFLUOROETHANE	4.182	51	4730	0.7596200	ppbv		90
5) Dichlorodifluoromethane	4.219	85	11318	0.8447258	ppbv		99
6) CHLORODIFLUOROMETHANE	4.237	51	12230	1.6194450	ppbv		99
8) Chloromethane	4.480	50	1344	0.2790386	ppbv		99
13) ISOPENTANE	5.089	43	1463	0.2922969	ppbv	#	97
15) Trichlorofluoromethane	5.283	101	2856	0.2546372	ppbv		99
16) PENTANE	5.320	43	1783	0.1731858	ppbv	#	95
17) Ethanol	5.399	45	44103	17.3973068	ppbv		99
18) ACROLEIN	5.709	56	494	0.2099227	ppbv		90
19) 1,1,2-Trichlorotrifluo...	5.697	101	1041	0.0857895	ppbv		96
21) Acetone	5.819	43	28010	3.2323295	ppbv		91
23) 2-Propanol	5.843	45	14128	1.4765114	ppbv	#	1
26) METHYL ACETATE	6.044	43	931	0.0967019	ppbv	#	96
27) ACETONITRILE	6.117	41	645	0.1204481	ppbv	#	82
28) Methylene Chloride	6.208	49	581	0.0972586	ppbv		92
29) TERT-BUTYL ALCOHOL	6.172	59	991	0.0983778	ppbv	#	1
33) n-Hexane	6.524	57	504	0.0626202	ppbv	#	85
36) DI-ISOPROPYL ETHER	6.932	45	1482	0.0908785	ppbv	#	74
38) ETHYL ACETATE	7.200	45	303	0.1684888	ppbv	#	91
39) 2-Butanone (MEK)	7.242	72	862	0.3253379	ppbv	#	86
45) Carbon Tetrachloride	7.838	117	853	0.0681399	ppbv	#	93
48) Benzene	8.033	78	2568	0.1632429	ppbv		97
49) TERT-AMYL METHYL ETHER	8.307	73	2408	0.1555291	ppbv	#	51
52) Trichloroethene	8.581	95	1944	0.2527545	ppbv		99
70) NONANE	11.349	43	752	0.0523277	ppbv	#	65
73) M&P-Xylene	11.531	91	1945	0.1055167	ppbv		99
83) 4-Ethyltoluene	12.876	105	2519	0.1031191	ppbv		93
88) 1,2,4-Trimethylbenzene	13.314	105	2406	0.1224523	ppbv		98
101) TPH (GC/MS) Low Fraction	10.000	TIC	745437m	20.4173182	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	931023m	30.2160827	ppbv		

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

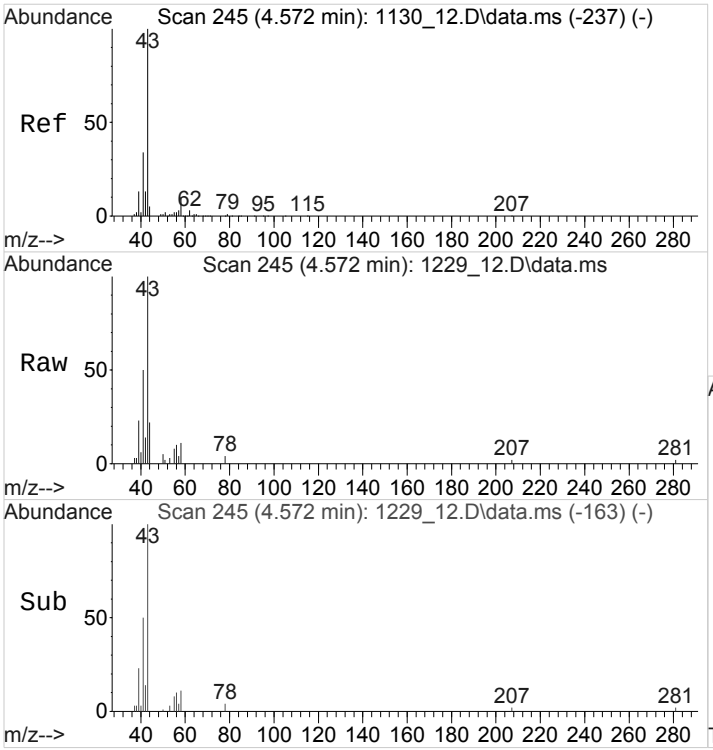
Quantitation Report (QT Reviewed)

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Data File : 1229_12.D
Acq On : 29 Dec 2022 6:45 pm
Operator :
Sample : L1570570-08 1x WG1980894
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 07:23:51 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration



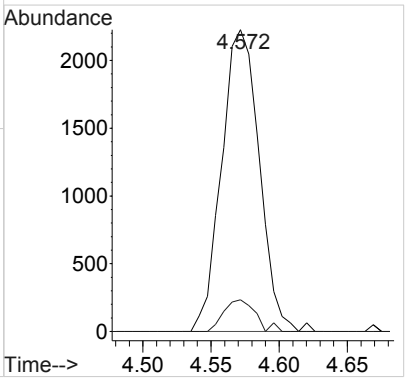
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BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	166 of 471

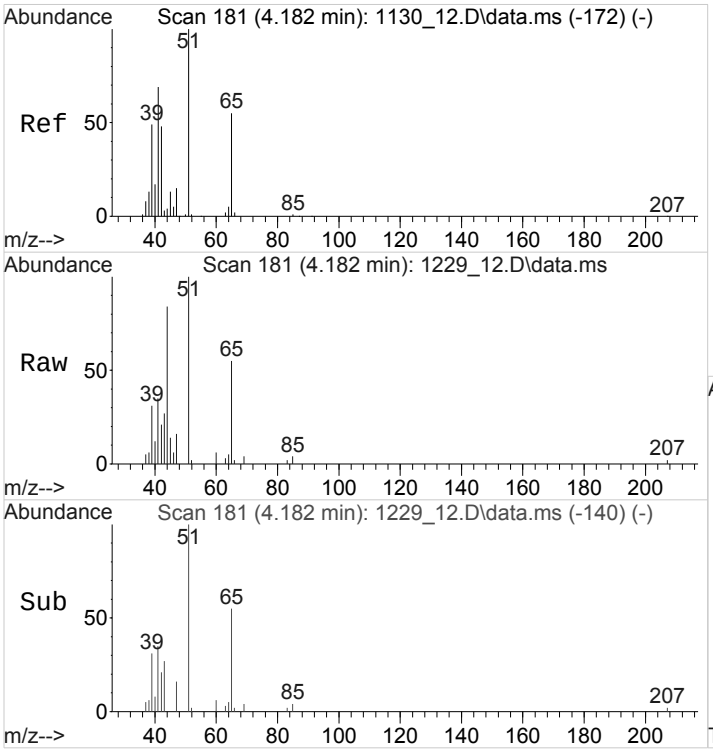


#3
BUTANE
Concen: 0.5921629 ppbv
RT: 4.572 min Scan# 245
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 43 Resp: 4291

Ion	Ratio	Lower	Upper
43	100		
58	8.9	8.0	12.0

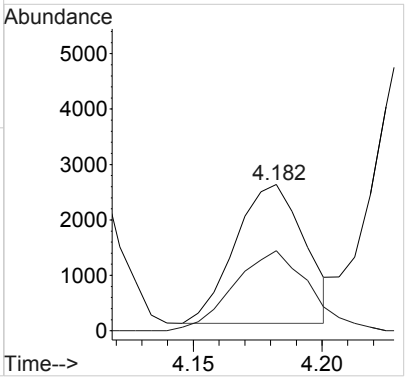




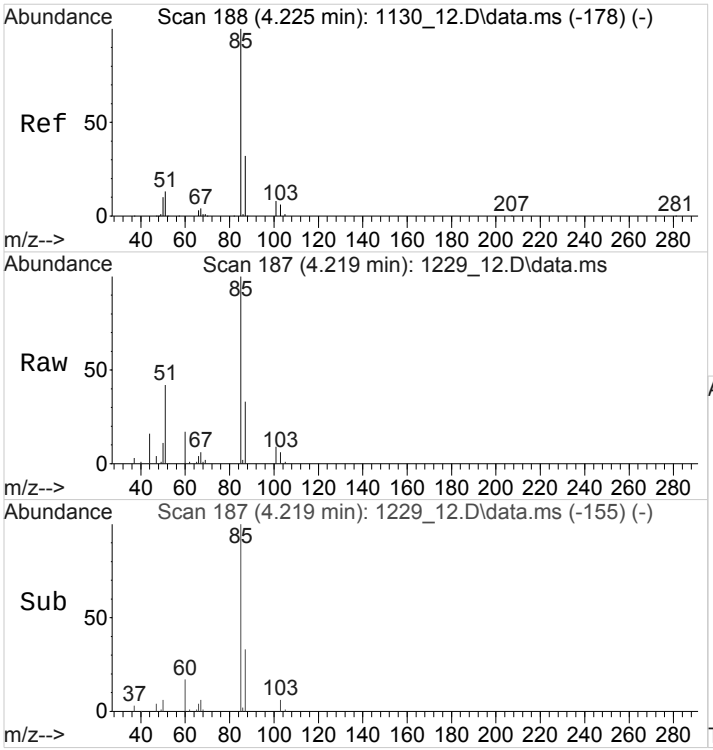
#4
1,1-DIFLUOROETHANE
Concen: 0.7596200 ppbv
RT: 4.182 min Scan# 181
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 51 Resp: 4730

Ion	Ratio	Lower	Upper
51	100		
65	62.2	44.1	66.1



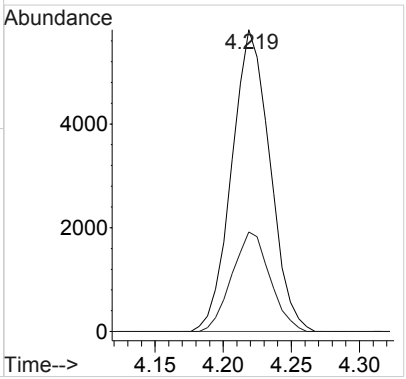
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BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	167 of 471

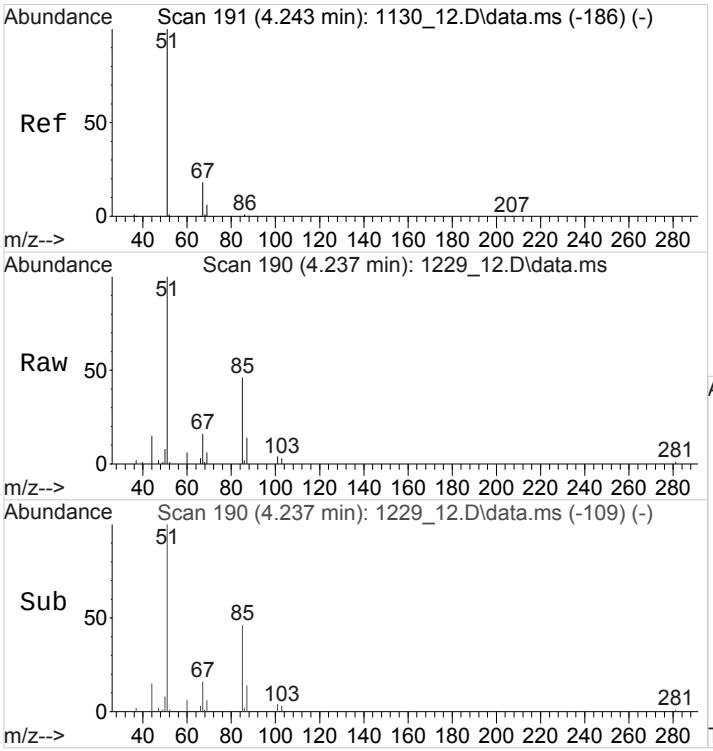


#5
Dichlorodifluoromethane
Concen: 0.8447258 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 85 Resp: 11318

Ion	Ratio	Lower	Upper
85	100		
87	32.9	25.8	38.6

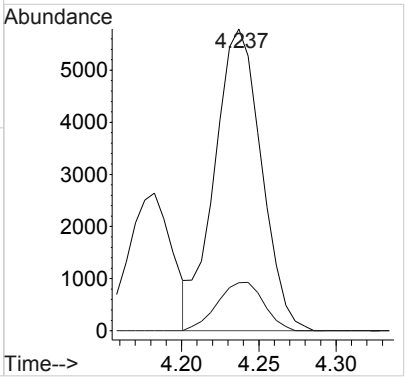




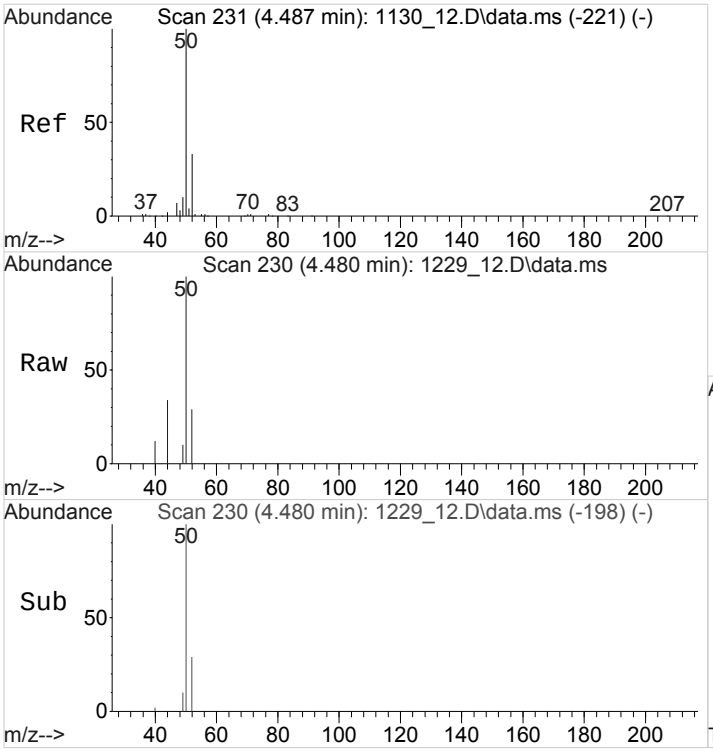
#6
CHLORODIFLUOROMETHANE
Concen: 1.6194450 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 51 Resp: 12230

Ion	Ratio	Lower	Upper
51	100		
67	15.9	13.0	19.4



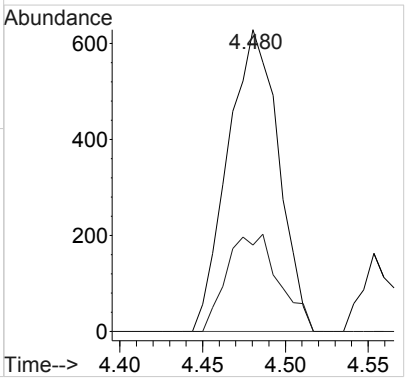
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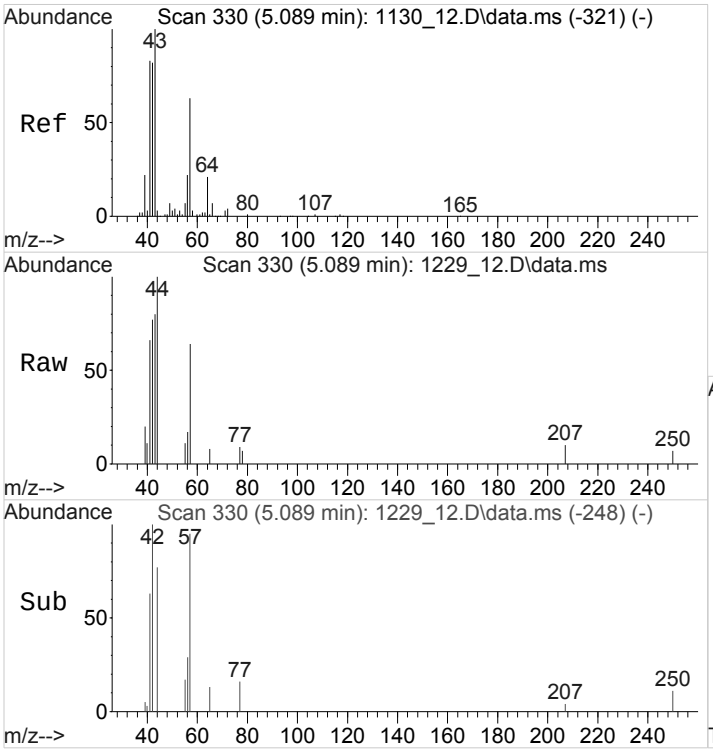


#8
Chloromethane
Concen: 0.2790386 ppbv
RT: 4.480 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 50 Resp: 1344

Ion	Ratio	Lower	Upper
50	100		
52	33.2	27.1	40.7

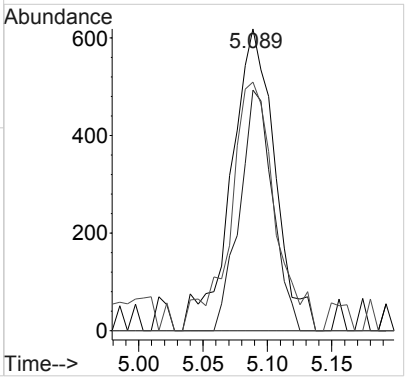




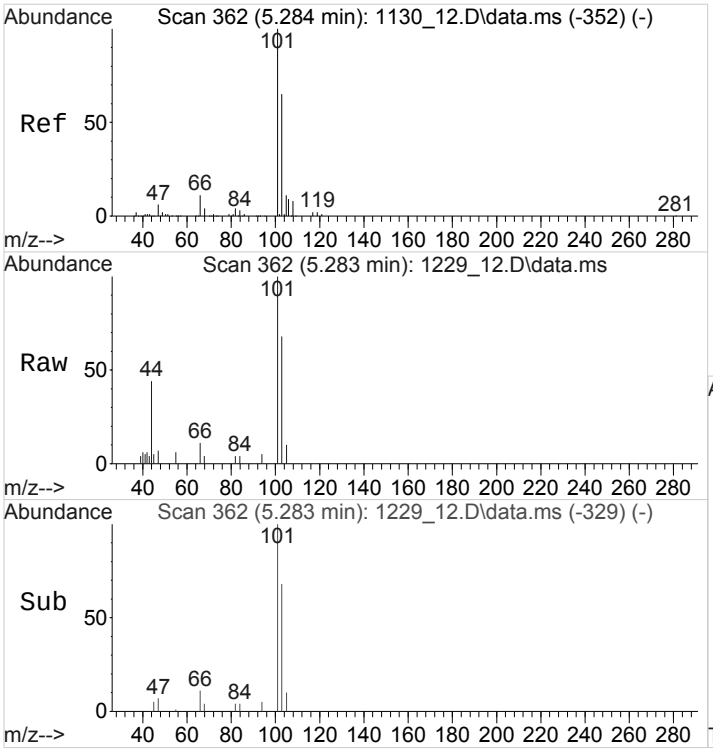
#13
ISOPENTANE
Concen: 0.2922969 ppbv
RT: 5.089 min Scan# 330
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 43 Resp: 1463

Ion	Ratio	Lower	Upper
43	100		
57	60.3	51.7	77.5
41	83.6	66.4	99.6
72	0.0	3.2	4.8#



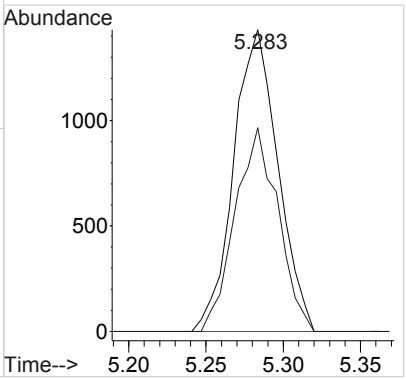
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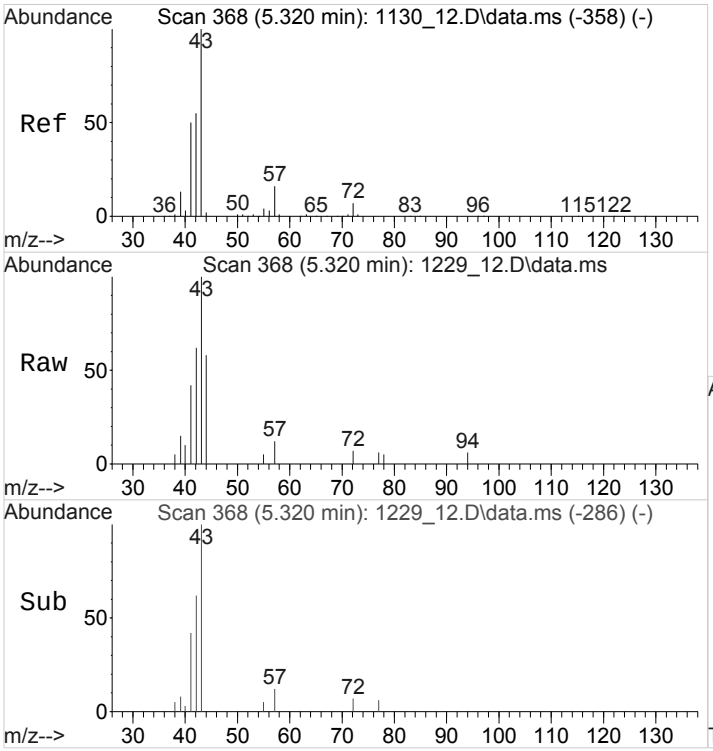


#15
Trichlorofluoromethane
Concen: 0.2546372 ppbv
RT: 5.283 min Scan# 362
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion:101 Resp: 2856

Ion	Ratio	Lower	Upper
101	100		
103	65.4	52.8	79.2

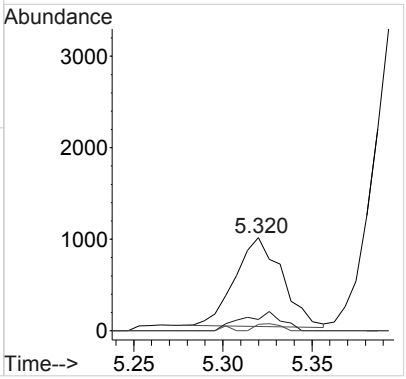




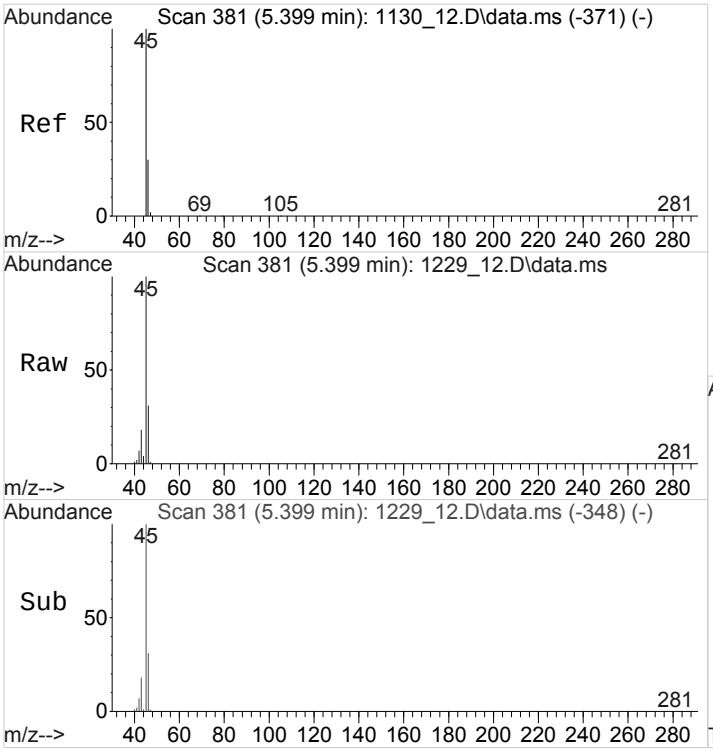
#16
PENTANE
Concen: 0.1731858 ppbv
RT: 5.320 min Scan# 368
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 43 Resp: 1783

Ion	Ratio	Lower	Upper
43	100		
57	17.7	13.0	19.4
72	4.2	5.8	8.8#



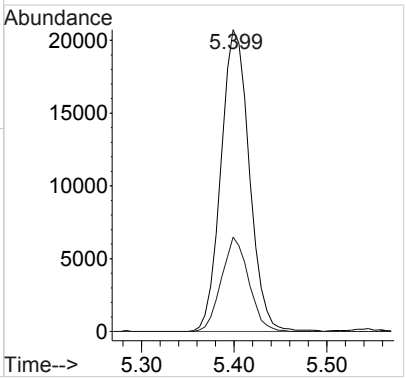
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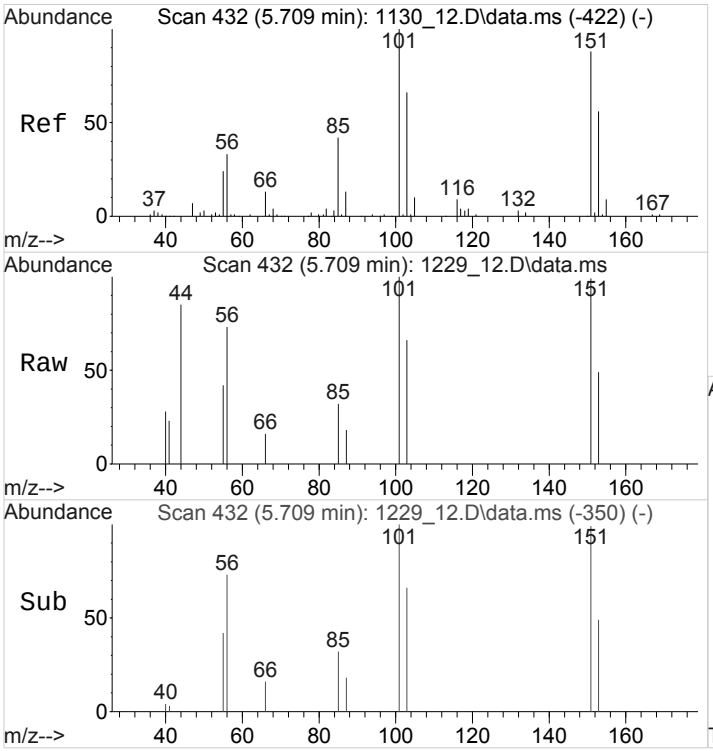


#17
Ethanol
Concen: 17.3973068 ppbv
RT: 5.399 min Scan# 381
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 45 Resp: 44103

Ion	Ratio	Lower	Upper
45	100		
46	30.0	23.6	35.4

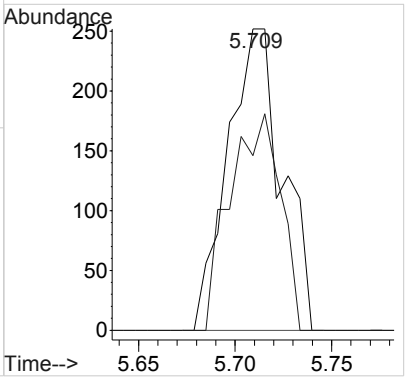




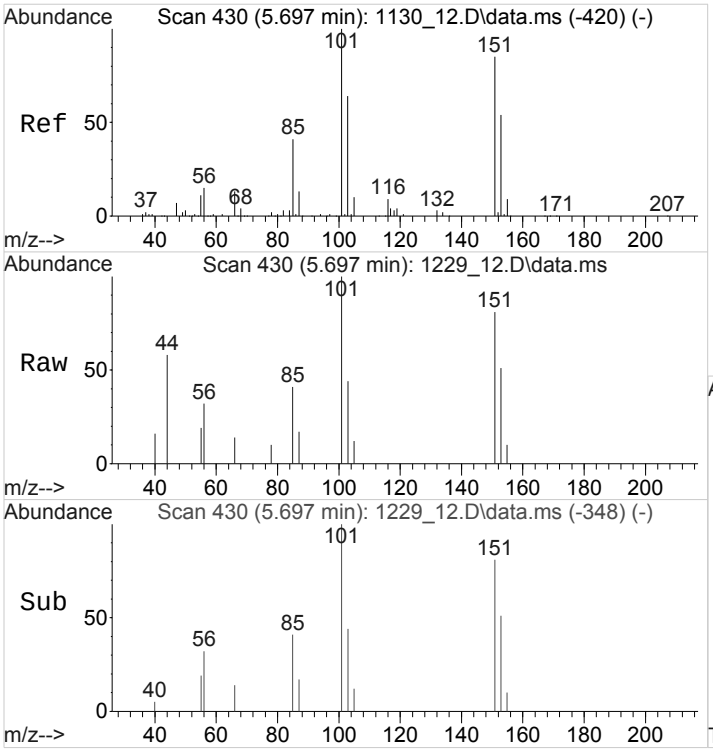
#18
ACROLEIN
Concen: 0.2099227 ppbv
RT: 5.709 min Scan# 432
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 56 Resp: 494

Ion	Ratio	Lower	Upper
56	100		
55	67.2	60.4	90.6



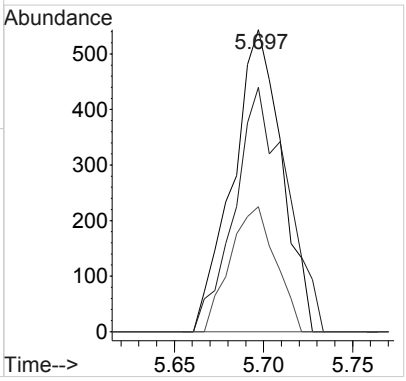
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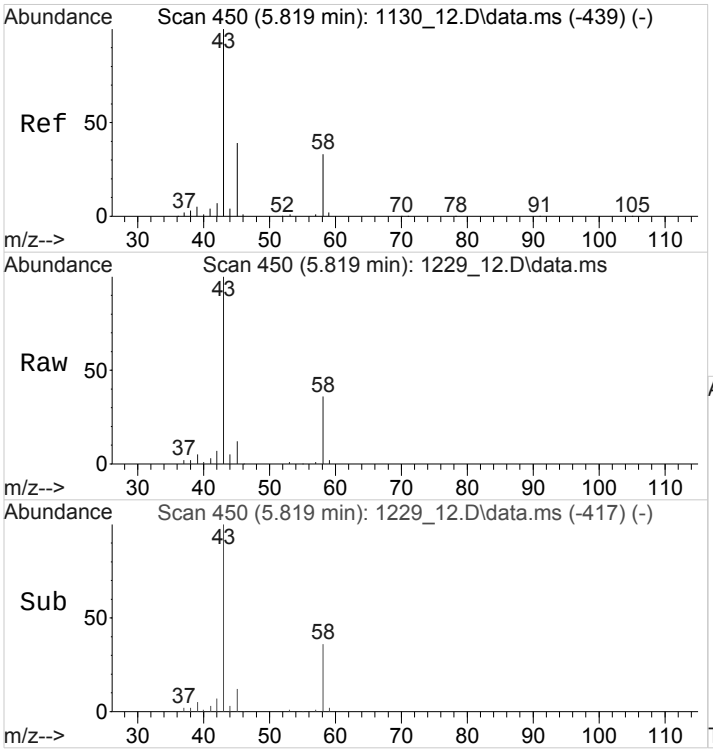


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.0857895 ppbv
RT: 5.697 min Scan# 430
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion:101 Resp: 1041

Ion	Ratio	Lower	Upper
101	100		
151	86.3	67.4	101.2
85	38.4	34.4	51.6

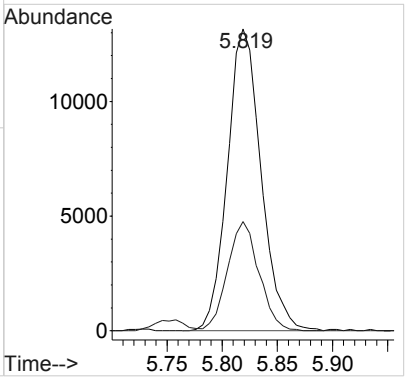




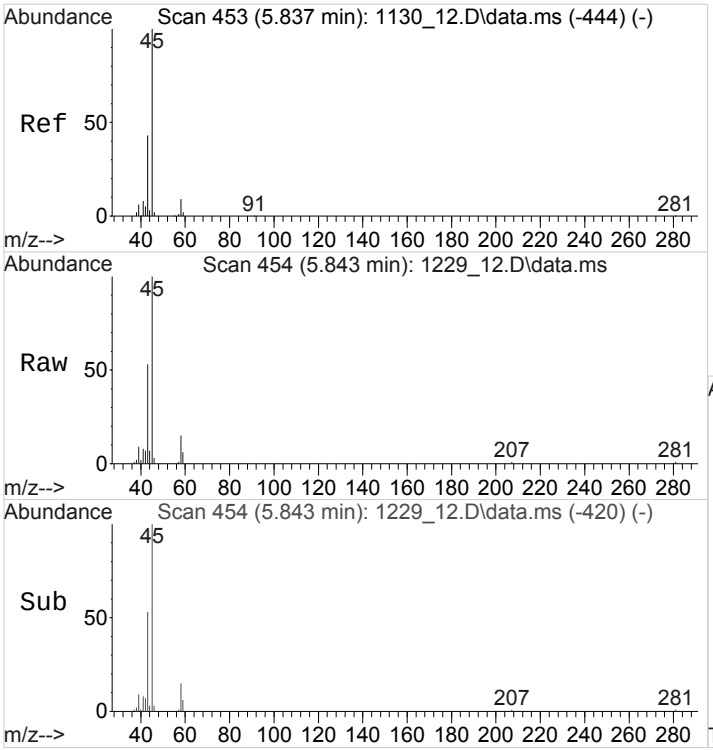
#21
Acetone
Concen: 3.2323295 ppbv
RT: 5.819 min Scan# 450
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 43 Resp: 28010

Ion	Ratio	Lower	Upper
43	100		
58	33.8	23.1	34.7



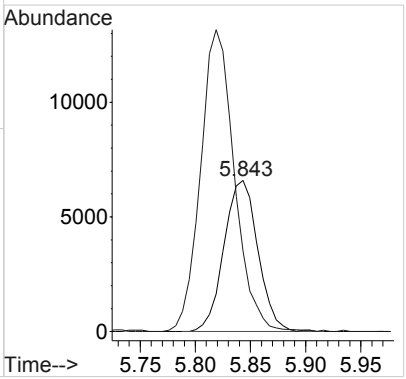
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	172 of 471

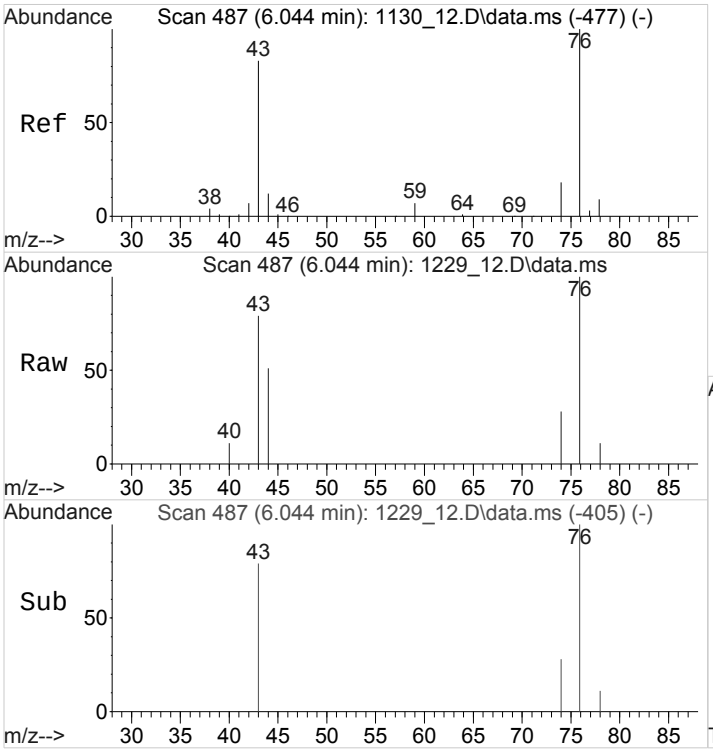


#23
2-Propanol
Concen: 1.4765114 ppbv
RT: 5.843 min Scan# 454
Delta R.T. 0.006 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 45 Resp: 14128

Ion	Ratio	Lower	Upper
45	100		
43	198.3	73.5	110.3#

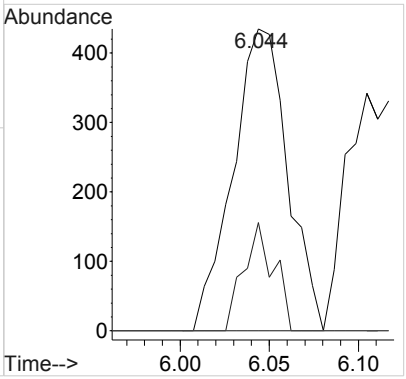




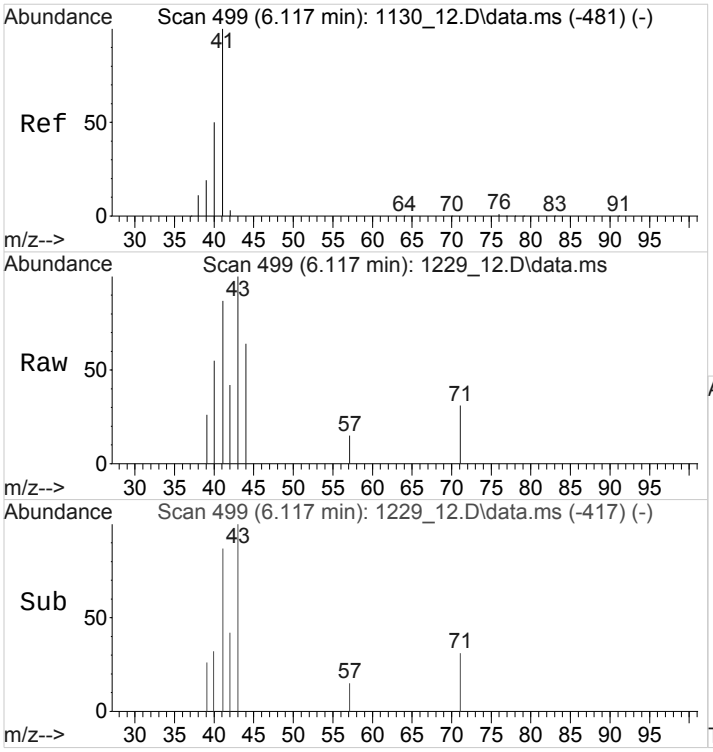
#26
METHYL ACETATE
Concen: 0.0967019 ppbv
RT: 6.044 min Scan# 487
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 43 Resp: 931

Ion	Ratio	Lower	Upper
43	100		
74	19.7	17.4	26.0
29	0.0	0.0	0.0



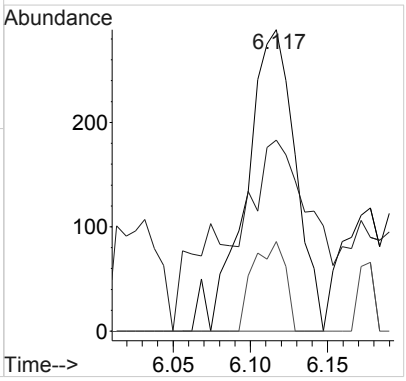
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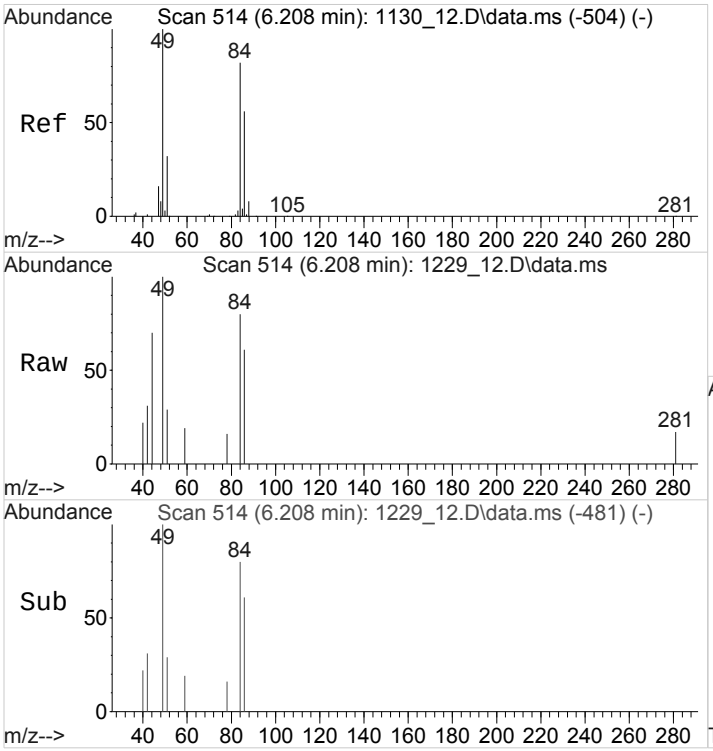


#27
ACETONITRILE
Concen: 0.1204481 ppbv
RT: 6.117 min Scan# 499
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 41 Resp: 645

Ion	Ratio	Lower	Upper
41	100		
40	52.6	32.7	49.1#
39	19.5	22.7	34.1#

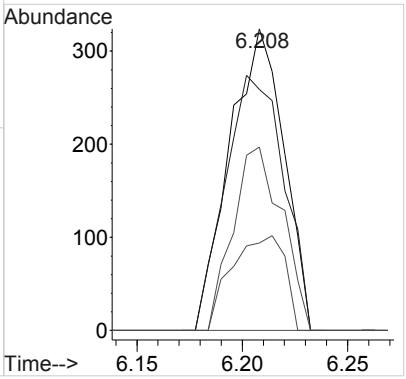




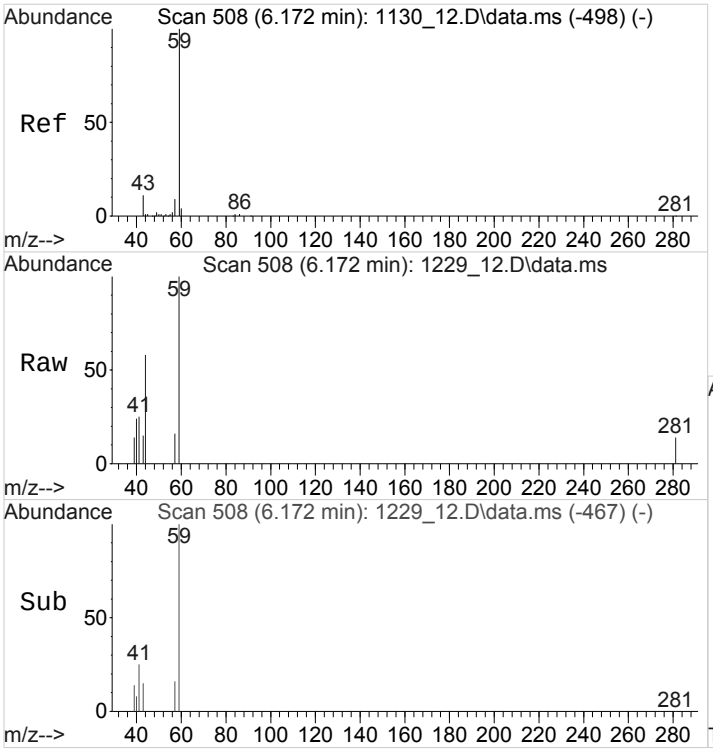
#28
Methylene Chloride
Concen: 0.0972586 ppbv
RT: 6.208 min Scan# 514
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 49 Resp: 581

Ion	Ratio	Lower	Upper
49	100		
84	91.2	65.0	97.6
86	55.4	41.8	62.6
51	30.8	26.3	39.5



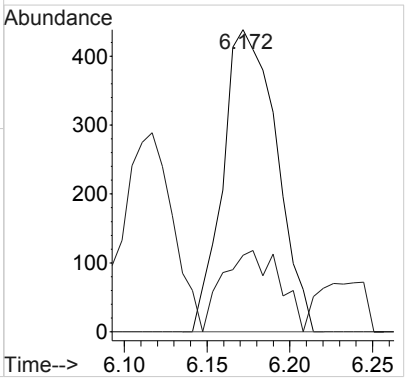
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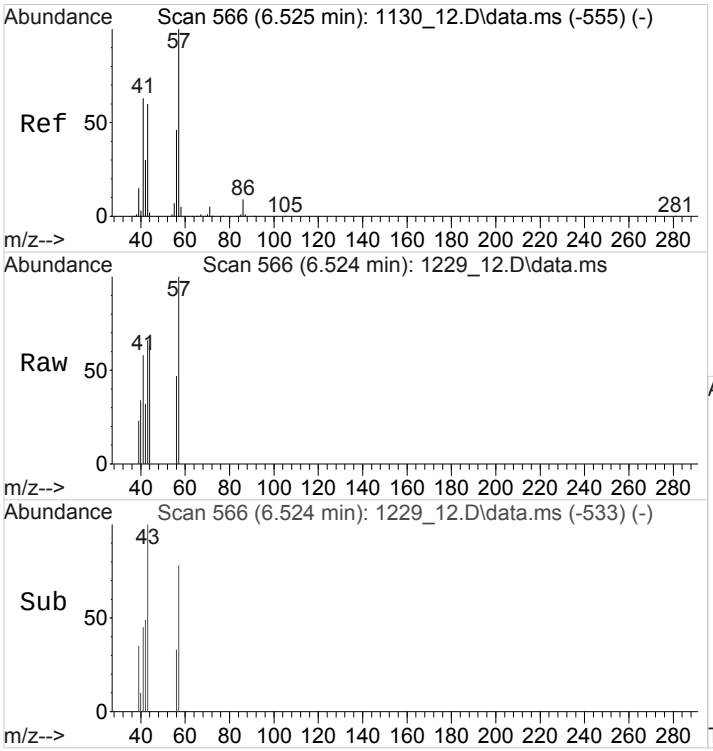


#29
TERT-BUTYL ALCOHOL
Concen: 0.0983778 ppbv
RT: 6.172 min Scan# 508
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 59 Resp: 991

Ion	Ratio	Lower	Upper
59	100		
41	28.4	216.4	324.6#

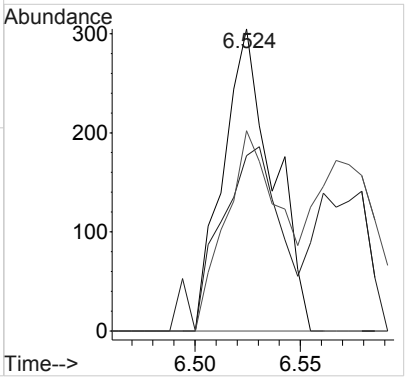




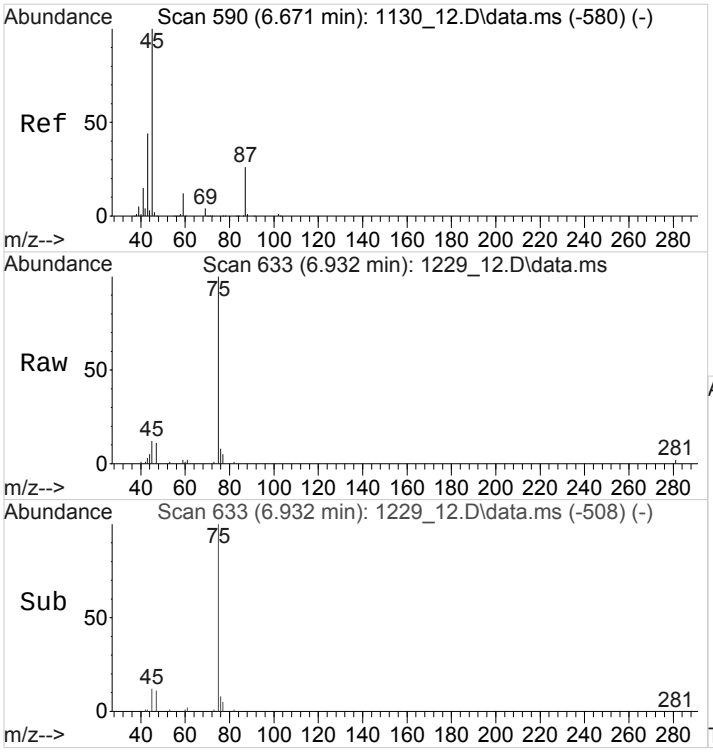
#33
n-Hexane
Concen: 0.0626202 ppbv
RT: 6.524 min Scan# 566
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 57 Resp: 504

Ion	Ratio	Lower	Upper
57	100		
41	74.4	50.9	76.3
43	72.6	48.4	72.6#



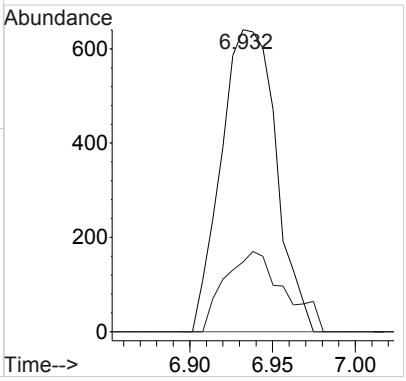
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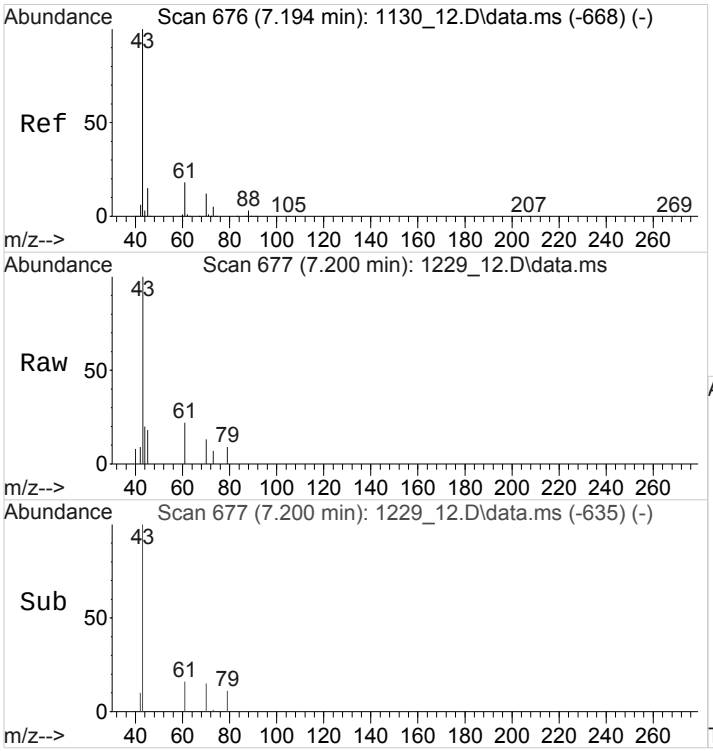


#36
DI-ISOPROPYL ETHER
Concen: 0.0908785 ppbv
RT: 6.932 min Scan# 633
Delta R.T. 0.261 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 45 Resp: 1482

Ion	Ratio	Lower	Upper
45	100		
43	28.7	36.7	55.1#

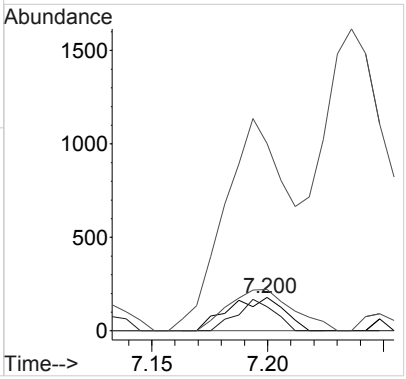




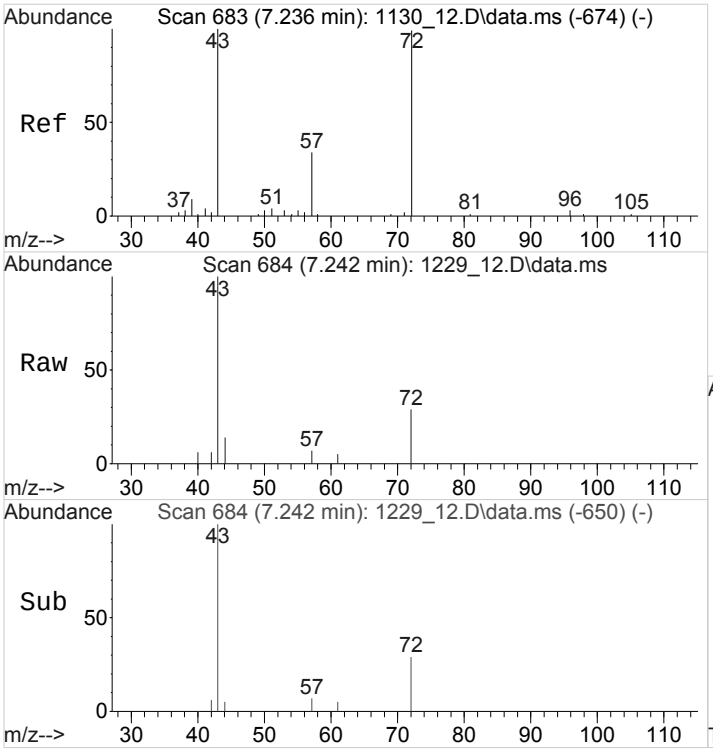
#38
ETHYL ACETATE
Concen: 0.1684888 ppbv
RT: 7.200 min Scan# 677
Delta R.T. 0.006 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 45 Resp: 303

Ion	Ratio	Lower	Upper
45	100		
70	63.0	60.5	90.7
43	695.4	543.4	815.0
61	142.2	89.8	134.6#



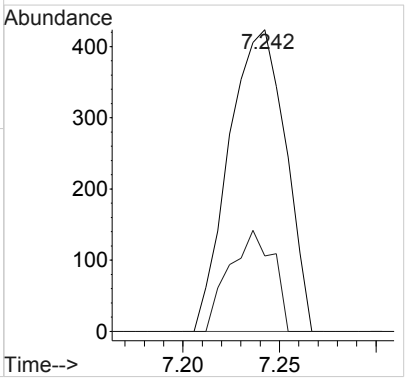
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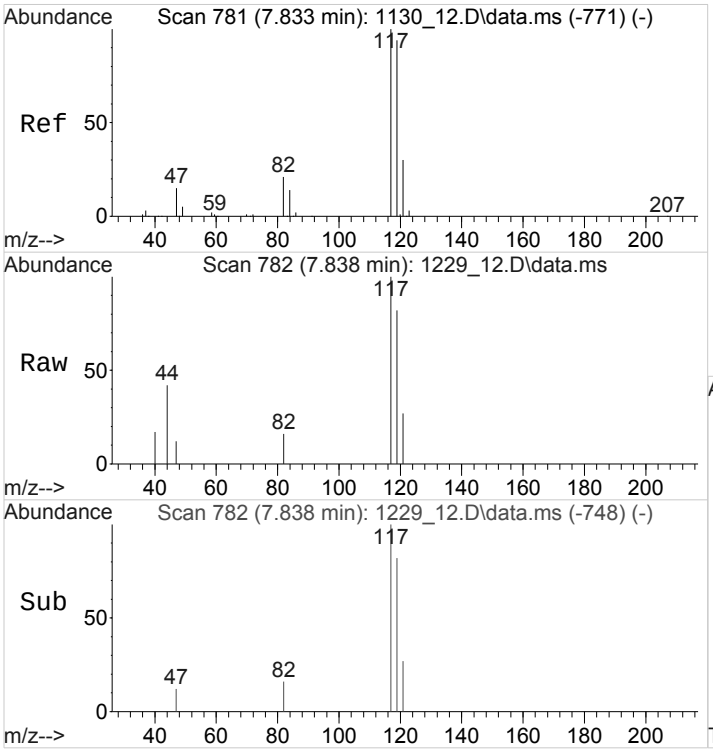


#39
2-Butanone (MEK)
Concen: 0.3253379 ppbv
RT: 7.242 min Scan# 684
Delta R.T. 0.006 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 72 Resp: 862

Ion	Ratio	Lower	Upper
72	100		
57	26.0	27.3	40.9#

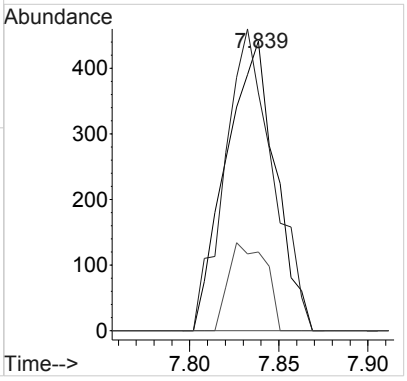


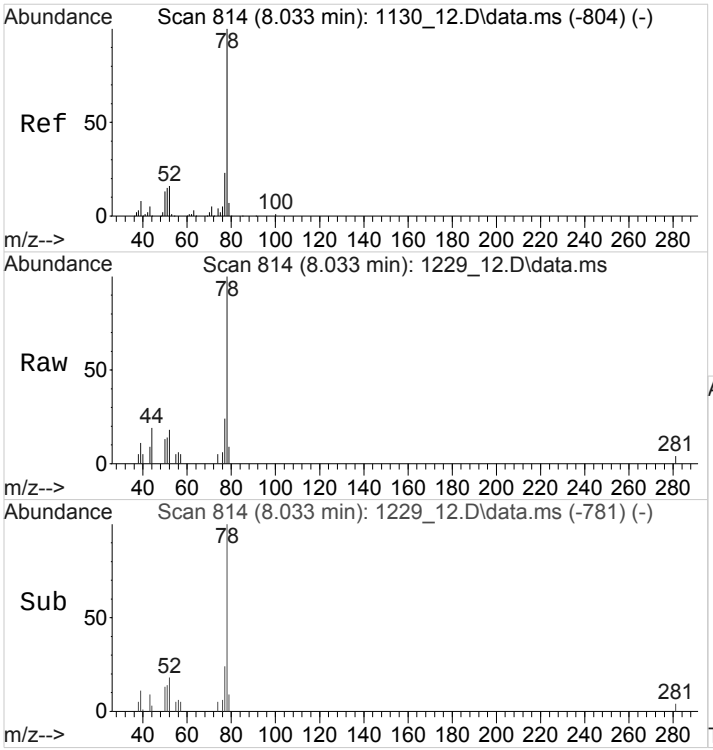


#45
Carbon Tetrachloride
Concen: 0.0681399 ppbv
RT: 7.838 min Scan# 782
Delta R.T. 0.006 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion:117 Resp: 853

Ion	Ratio	Lower	Upper
117	100		
119	100.7	77.3	115.9
121	22.9	25.0	37.4#

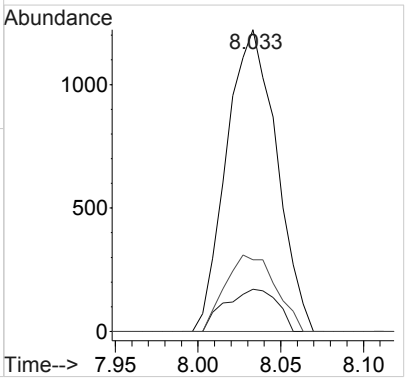


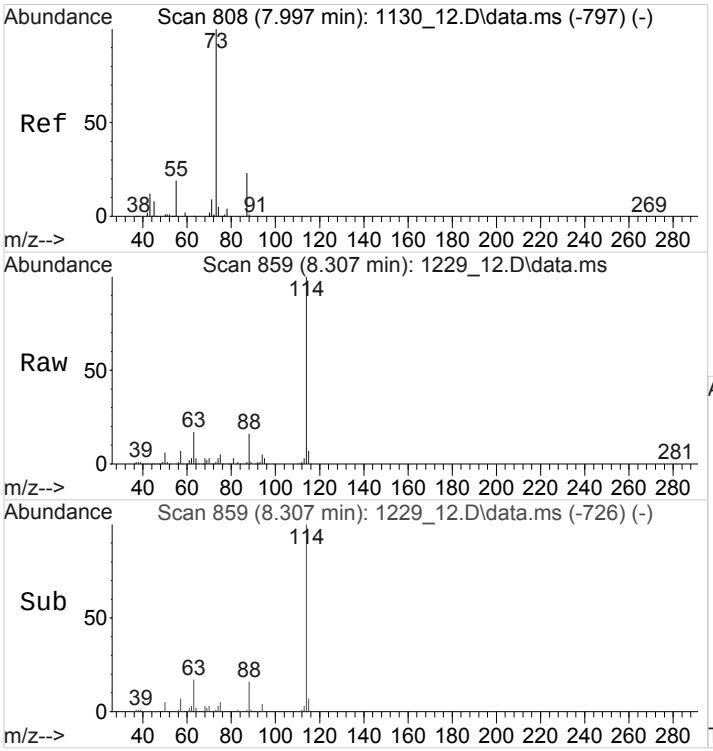


#48
Benzene
Concen: 0.1632429 ppbv
RT: 8.033 min Scan# 814
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 78 Resp: 2568

Ion	Ratio	Lower	Upper
78	100		
51	14.6	12.1	18.1
77	25.5	18.8	28.2

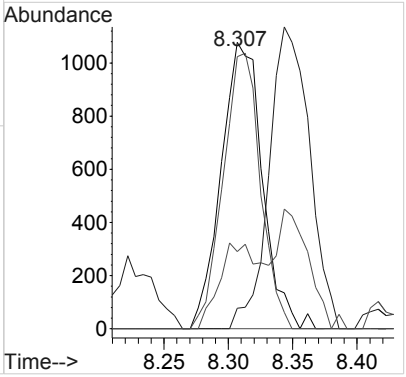


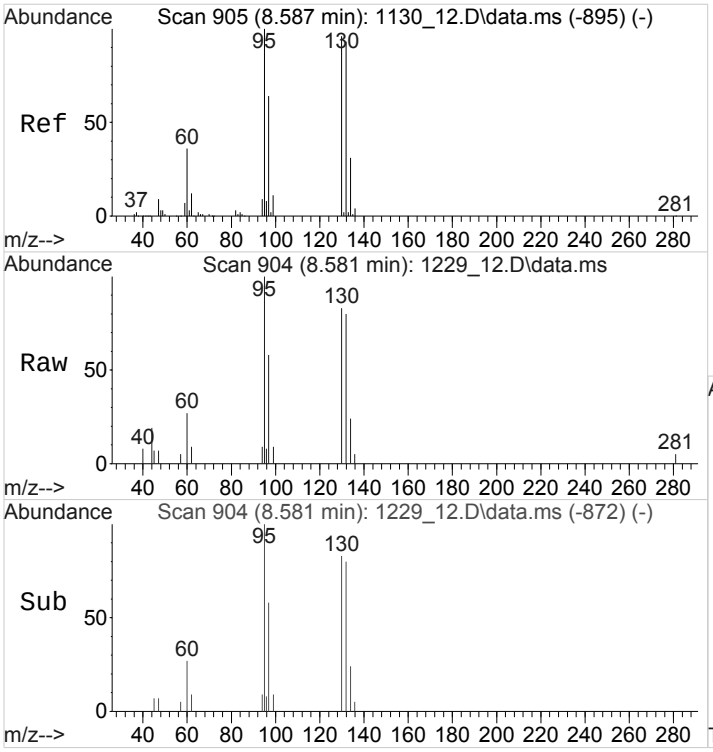


#49
TERT-AMYL METHYL ETHER
Concen: 0.1555291 ppbv
RT: 8.307 min Scan# 859
Delta R.T. 0.310 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 73 Resp: 2408

Ion	Ratio	Lower	Upper
73	100		
43	23.1	24.9	37.3#
55	31.1	18.8	28.2#
87	86.8	18.6	28.0#

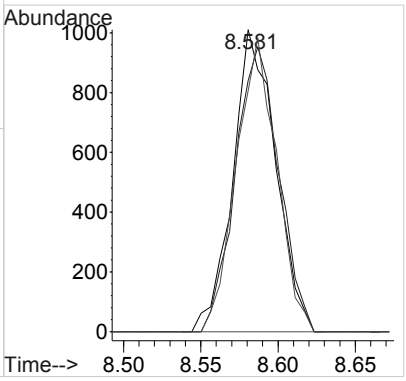


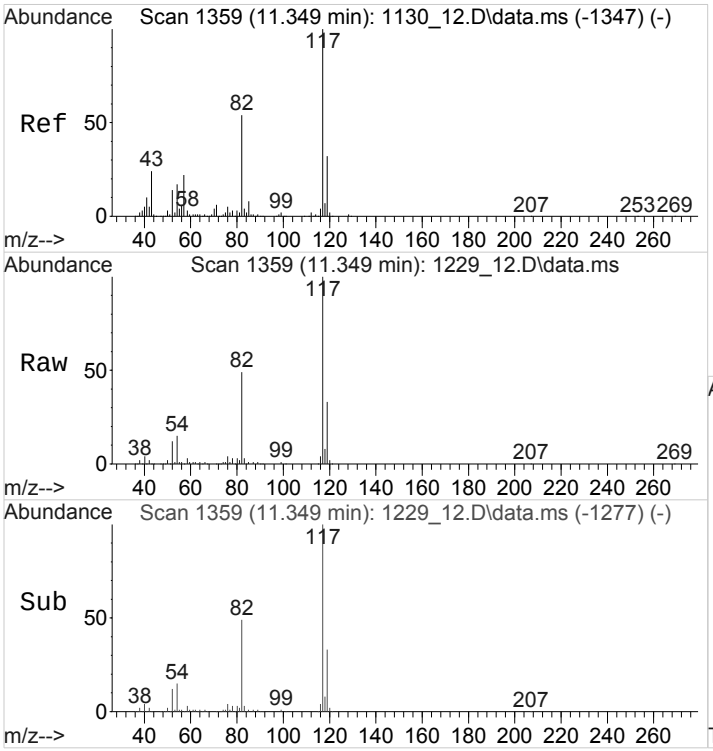


#52
Trichloroethene
Concen: 0.2527545 ppbv
RT: 8.581 min Scan# 904
Delta R.T. -0.006 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 95 Resp: 1944

Ion	Ratio	Lower	Upper
95	100		
130	96.7	76.9	115.3
132	92.4	73.3	109.9

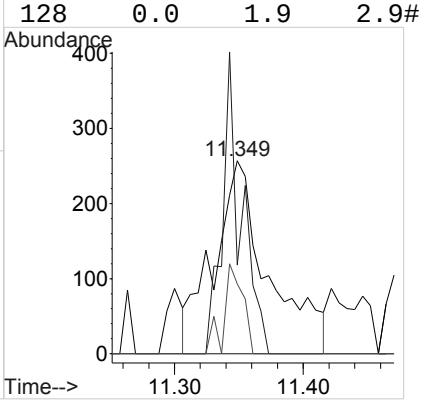




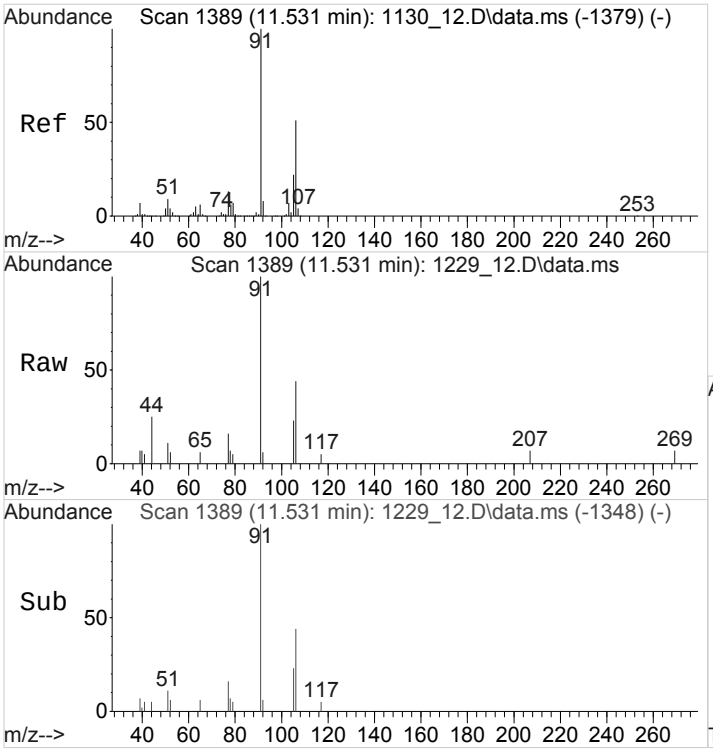
#70
NONANE
Concen: 0.0523277 ppbv
RT: 11.349 min Scan# 1359
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 43 Resp: 752

Ion	Ratio	Lower	Upper
43	100		
57	54.7	74.6	112.0#
71	16.4	20.0	30.0#
128	0.0	1.9	2.9#



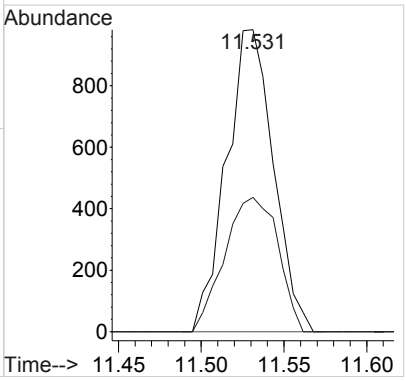
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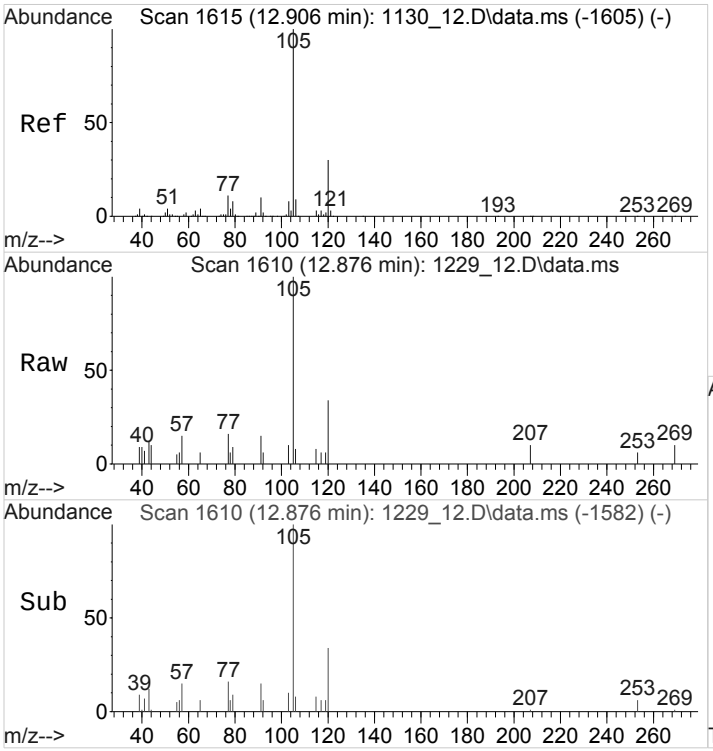


#73
M&P-Xylene
Concen: 0.1055167 ppbv
RT: 11.531 min Scan# 1389
Delta R.T. -0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion: 91 Resp: 1945

Ion	Ratio	Lower	Upper
91	100		
106	50.4	39.7	59.5

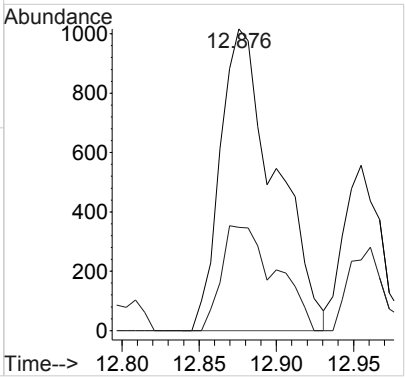


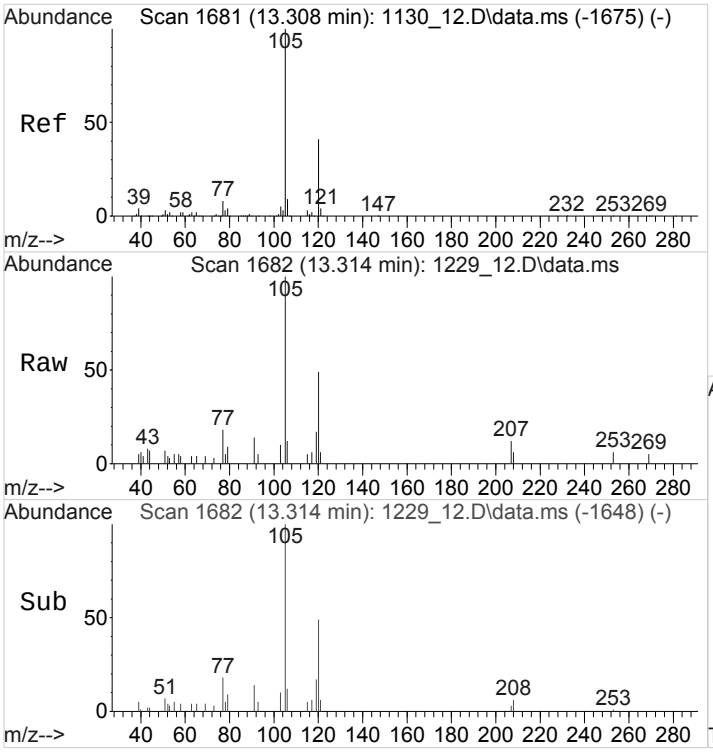


#83
4-Ethyltoluene
Concen: 0.1031191 ppbv
RT: 12.876 min Scan# 1610
Delta R.T. -0.031 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion:105 Resp: 2519

Ion	Ratio	Lower	Upper
105	100		
120	34.3	24.6	36.8

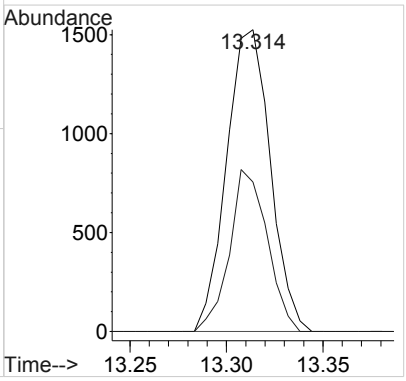


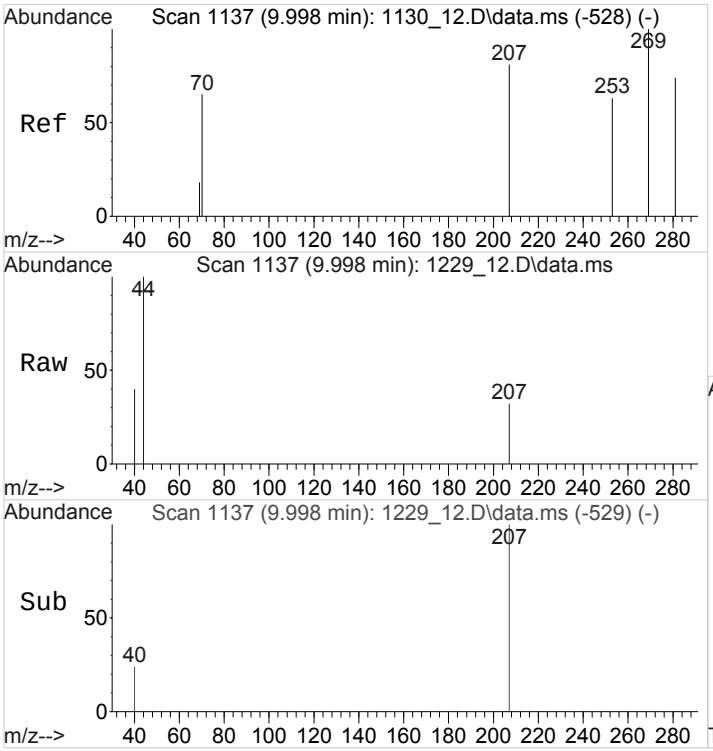


#88
1,2,4-Trimethylbenzene
Concen: 0.1224523 ppbv
RT: 13.314 min Scan# 1682
Delta R.T. 0.006 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion:105 Resp: 2406

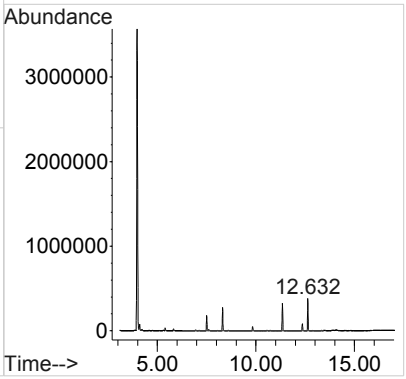
Ion	Ratio	Lower	Upper
105	100		
120	46.2	35.9	53.9



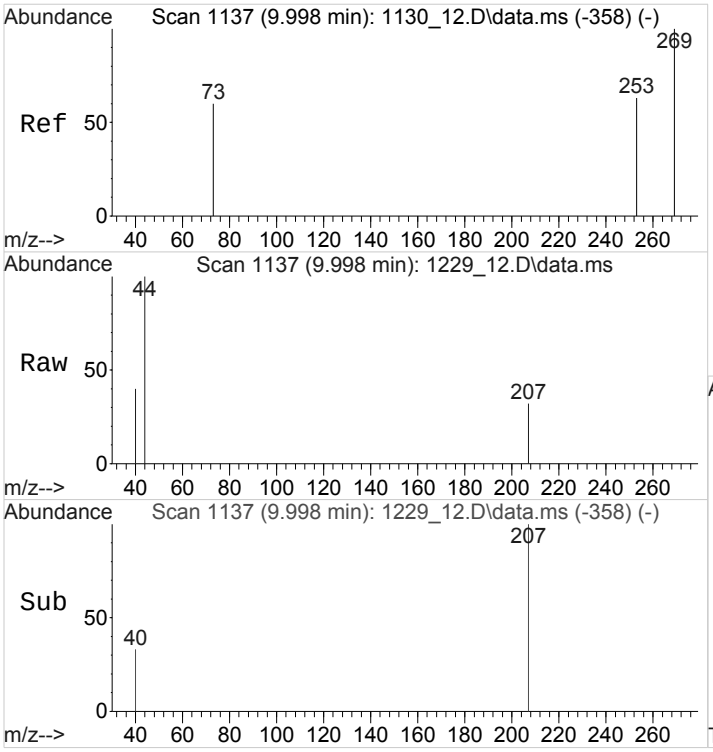


#101
TPH (GC/MS) Low Fraction
Concen: 20.4173182 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion:TIC Resp: 745437

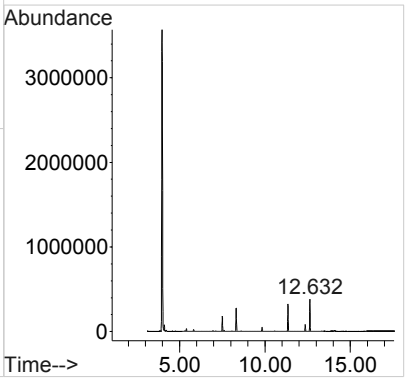


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#102
TPH-GRO (C5-C10)
Concen: 30.2160827 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_12.D
Acq: 29 Dec 2022 6:45 pm

Tgt Ion:TIC Resp: 931023



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
776-OA-1_1222

Lab Sample ID:	L1570570-09	**SDG:**	L1570570
Client Sample ID:	776-OA-1_1222	**Collected Date/Time:**	12/22/22 08:35
Lab File ID:	1229_13	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 19:31
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 19:31
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.82	2.76	J	1.39	2.85	5.70
Benzene	71-43-2	8.03	0.629	J	0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	7.82	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	0.983	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	0	0.867	U	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	0	0.982	U	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.28	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	2.18	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	1.53	U	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	6.21	0.389	J	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	0	0.560	U	0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	0	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	9.82	0.998	J	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570570-09	**SDG:**	L1570570
Client Sample ID:	776-OA-1_1222	**Collected Date/Time:**	12/22/22 08:35
Lab File ID:	1229_13	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 19:31
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 19:31
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	0	0.804	U	0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	0	0.982	U	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	1.30	U	0.585	1.30	2.60
o-Xylene	95-47-6	0	0.759	U	0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_13.D
Acq On : 29 Dec 2022 7:31 pm
Operator :
Sample : L1570570-09 1x WG1980894
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 31 07:25:48 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

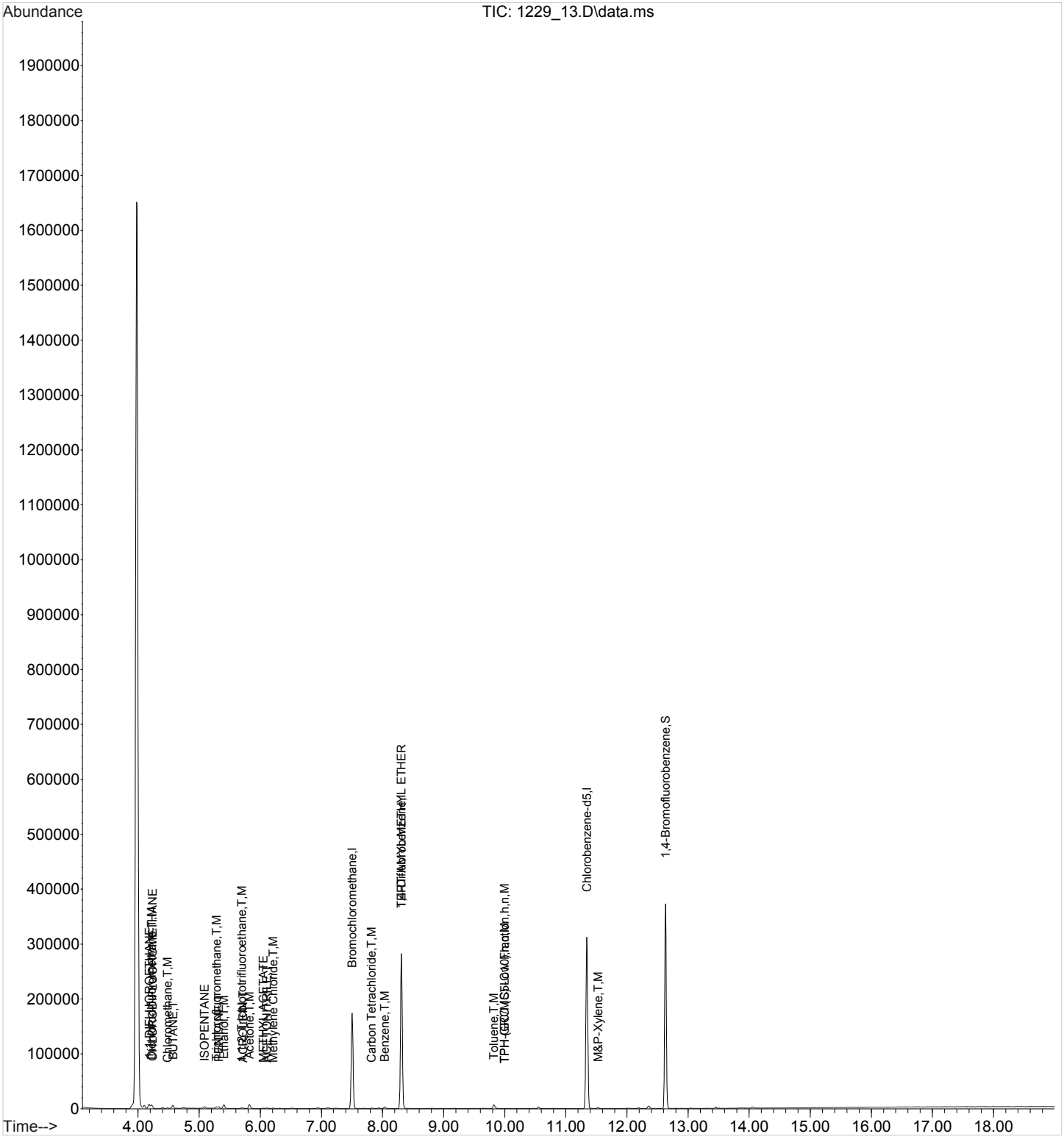
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	76121	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.307	114	272641	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	236552	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	139140	3.4473136	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 86.18%				
Target Compounds							Qvalue
3) BUTANE	4.572	43	4666	0.6680048	ppbv		98
4) 1,1-DIFLUOROETHANE	4.183	51	3511	0.5849493	ppbv		99
5) Dichlorodifluoromethane	4.219	85	5694	0.4408752	ppbv		99
6) CHLORODIFLUOROMETHANE	4.237	51	2064	0.2835317	ppbv		97
8) Chloromethane	4.481	50	2209	0.4757873	ppbv		97
13) ISOPENTANE	5.083	43	1433	0.2970149	ppbv	#	89
15) Trichlorofluoromethane	5.284	101	2451	0.2267040	ppbv		96
16) PENTANE	5.320	43	2250	0.2267230	ppbv	#	96
17) Ethanol	5.405	45	9190	3.7608114	ppbv		100
18) ACROLEIN	5.716	56	212	0.0934589	ppbv		95
19) 1,1,2-Trichlorotrifluo...	5.697	101	764	0.0653174	ppbv		89
21) Acetone	5.819	43	9681	1.1589772	ppbv	#	88
26) METHYL ACETATE	6.050	43	572	0.0616359	ppbv	#	72
27) ACETONITRILE	6.105	41	594	0.1150745	ppbv	#	89
28) Methylene Chloride	6.208	49	645	0.1120118	ppbv		98
45) Carbon Tetrachloride	7.821	117	834	0.0691147	ppbv		95
48) Benzene	8.033	78	3035	0.1973299	ppbv		96
49) TERT-AMYL METHYL ETHER	8.307	73	2505	0.1654847	ppbv	#	38
62) Toluene	9.822	91	5216	0.2646298	ppbv		98
73) M&P-Xylene	11.525	91	1740	0.0980287	ppbv		97
101) TPH (GC/MS) Low Fraction	10.000	TIC	228286m	6.4933633	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	311728m	10.5064548	ppbv		

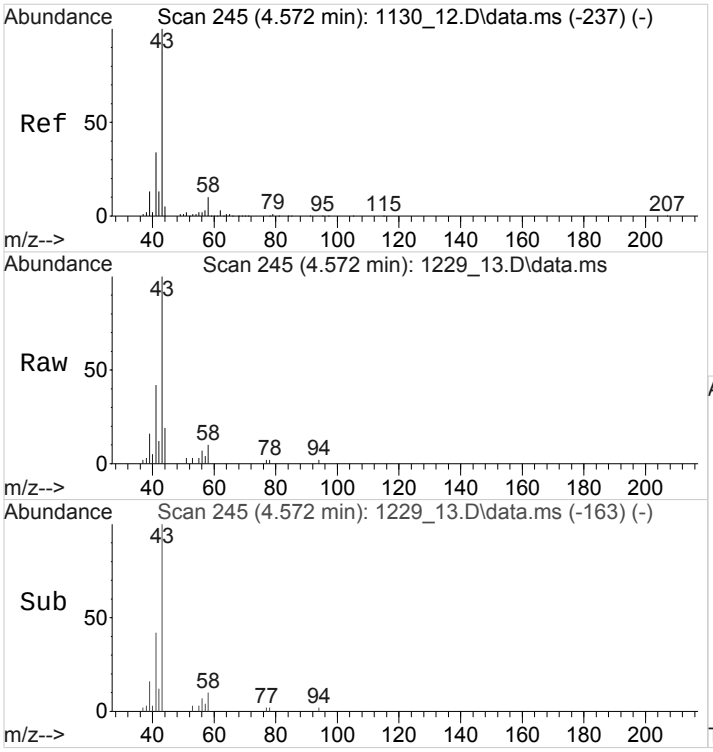
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_13.D
Acq On : 29 Dec 2022 7:31 pm
Operator :
Sample : L1570570-09 1x WG1980894
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 31 07:25:48 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

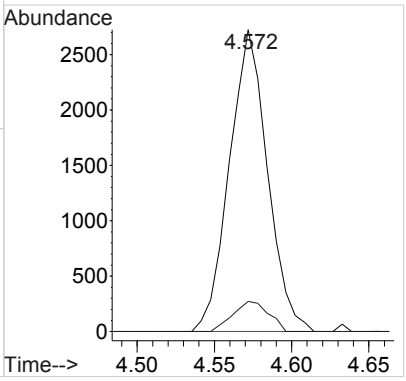


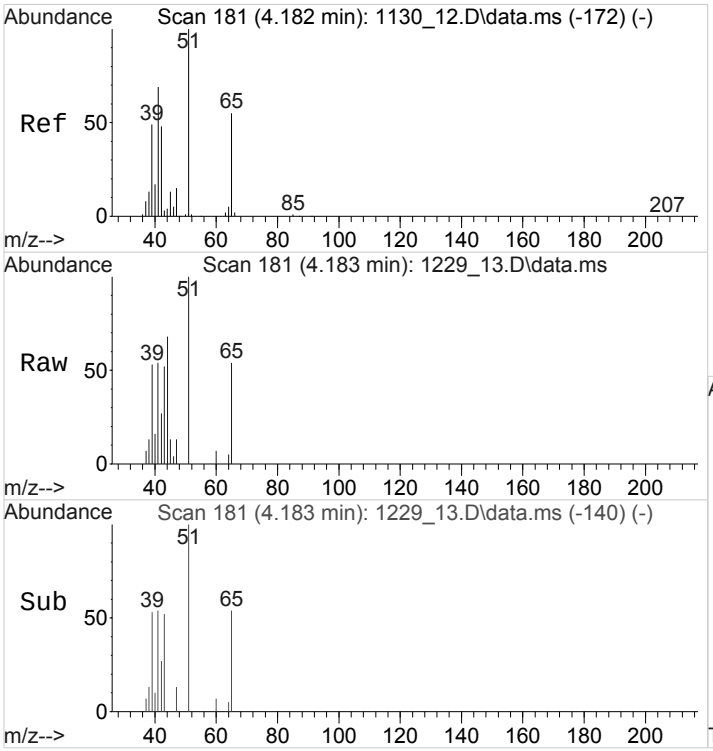


#3
BUTANE
Concen: 0.6680048 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 43 Resp: 4666

Ion	Ratio	Lower	Upper
43	100		
58	9.4	8.0	12.0

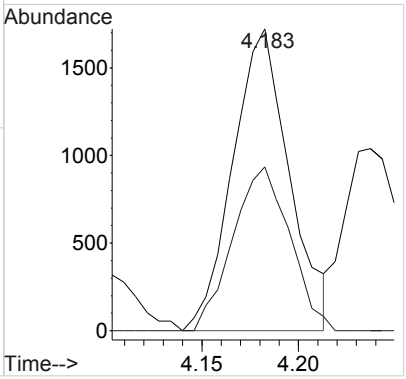




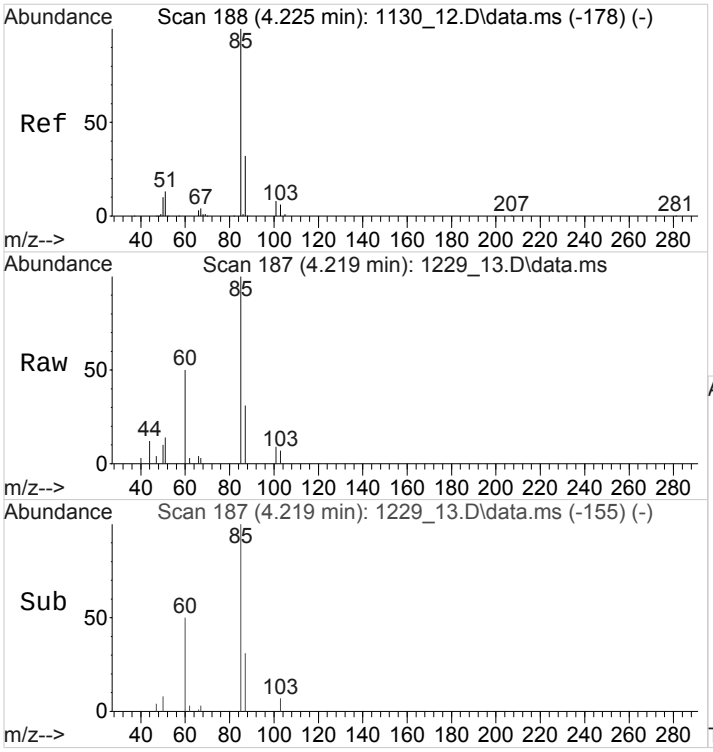
#4
1,1-DIFLUOROETHANE
Concen: 0.5849493 ppbv
RT: 4.183 min Scan# 181
Delta R.T. 0.000 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 51 Resp: 3511

Ion	Ratio	Lower	Upper
51	100		
65	54.6	44.1	66.1



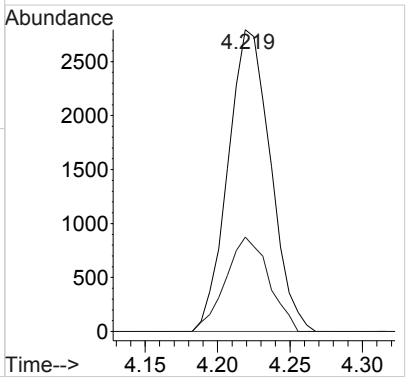
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BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	187 of 471

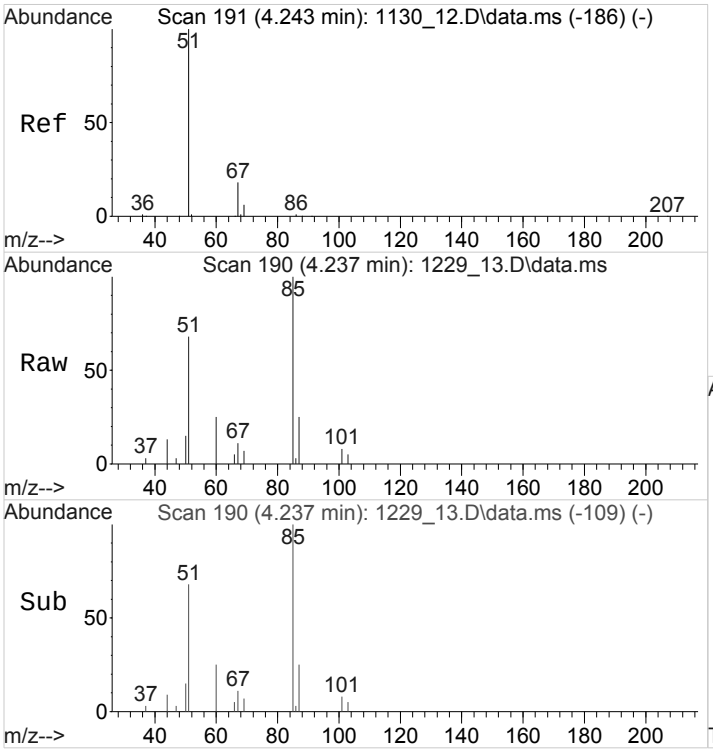


#5
Dichlorodifluoromethane
Concen: 0.4408752 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 85 Resp: 5694

Ion	Ratio	Lower	Upper
85	100		
87	31.9	25.8	38.6

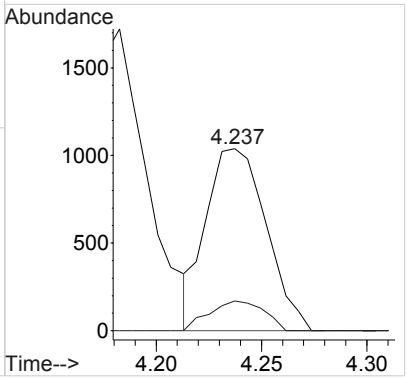




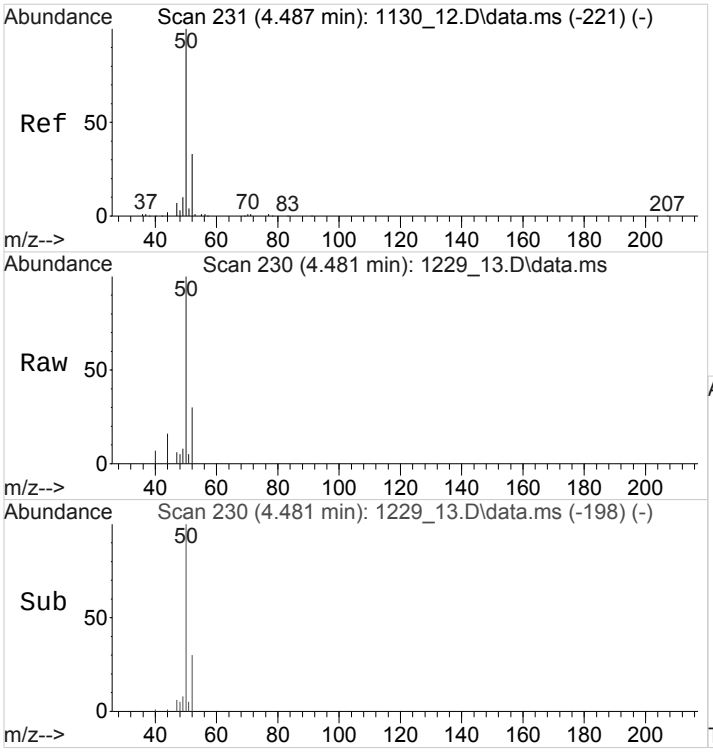
#6
CHLORODIFLUOROMETHANE
Concen: 0.2835317 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 51 Resp: 2064

Ion	Ratio	Lower	Upper
51	100		
67	14.9	13.0	19.4



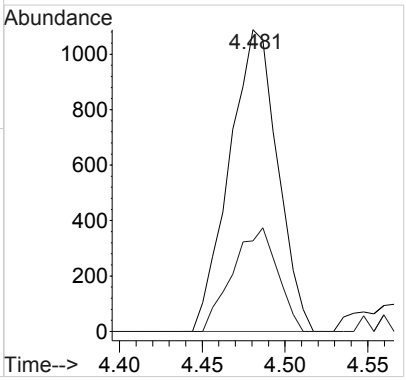
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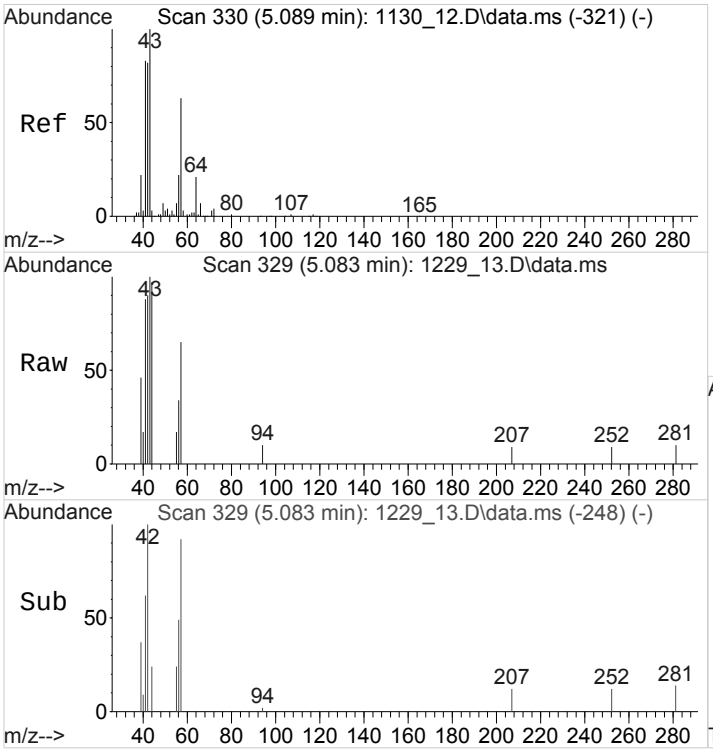


#8
Chloromethane
Concen: 0.4757873 ppbv
RT: 4.481 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 50 Resp: 2209

Ion	Ratio	Lower	Upper
50	100		
52	32.1	27.1	40.7

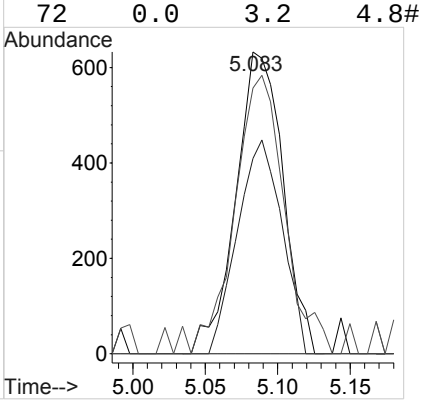




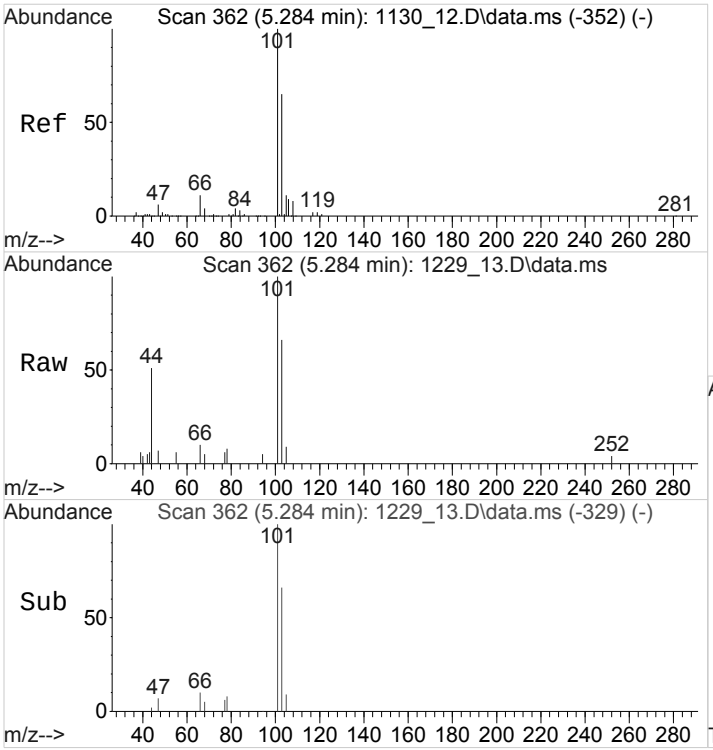
#13
ISOPENTANE
Concen: 0.2970149 ppbv
RT: 5.083 min Scan# 329
Delta R.T. -0.006 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 43 Resp: 1433

Ion	Ratio	Lower	Upper
43	100		
57	66.9	51.7	77.5
41	98.2	66.4	99.6
72	0.0	3.2	4.8#



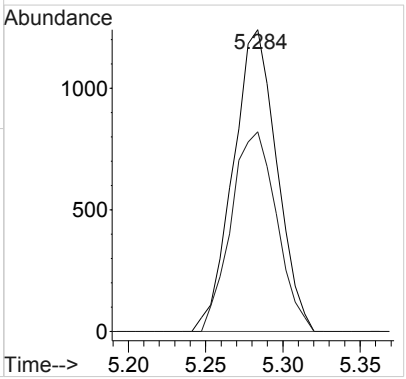
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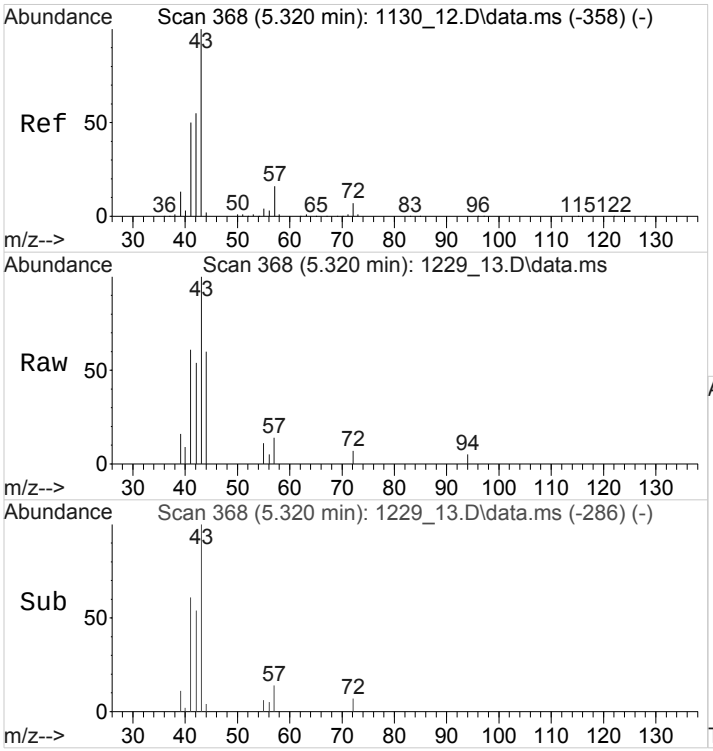


#15
Trichlorofluoromethane
Concen: 0.2267040 ppbv
RT: 5.284 min Scan# 362
Delta R.T. 0.000 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion:101 Resp: 2451

Ion	Ratio	Lower	Upper
101	100		
103	69.1	52.8	79.2

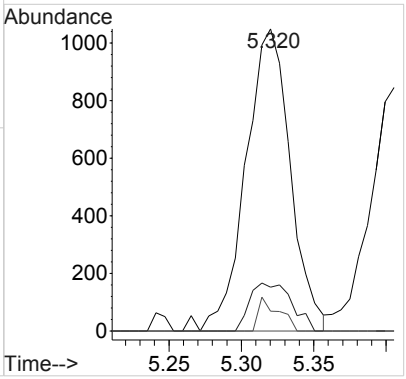




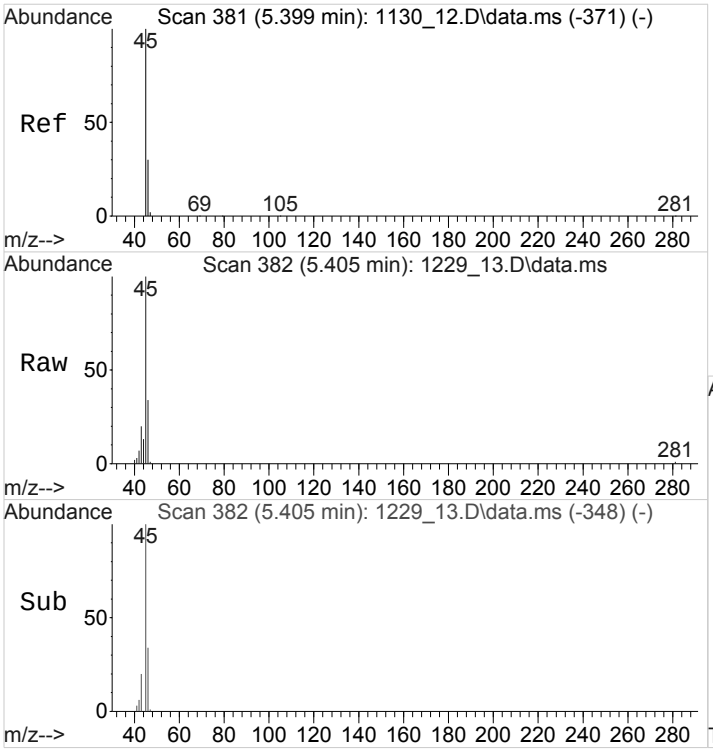
#16
PENTANE
Concen: 0.2267230 ppbv
RT: 5.320 min Scan# 368
Delta R.T. 0.000 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 43 Resp: 2250

Ion	Ratio	Lower	Upper
43	100		
57	14.8	13.0	19.4
72	5.0	5.8	8.8#



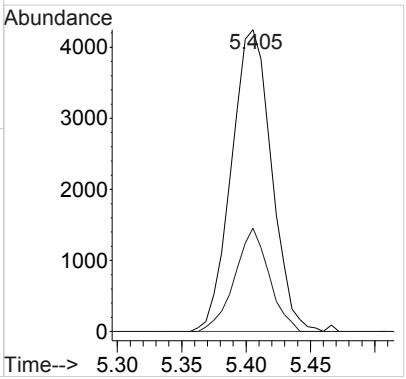
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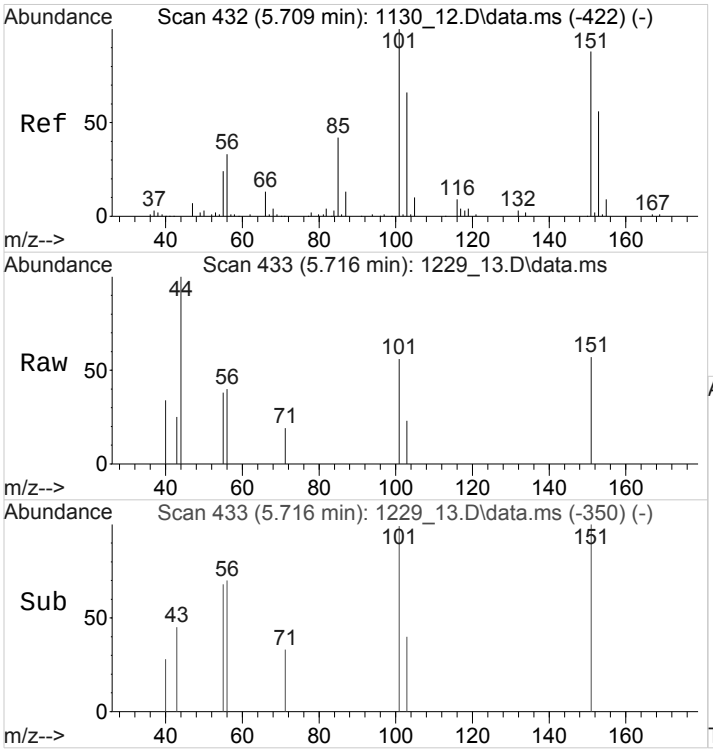


#17
Ethanol
Concen: 3.7608114 ppbv
RT: 5.405 min Scan# 382
Delta R.T. 0.006 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 45 Resp: 9190

Ion	Ratio	Lower	Upper
45	100		
46	29.5	23.6	35.4

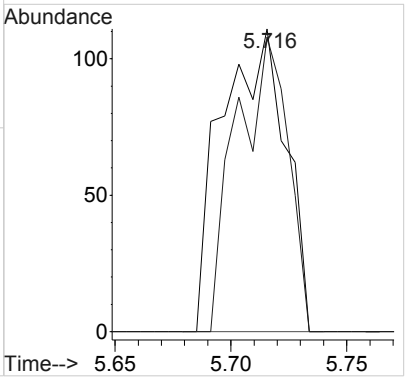


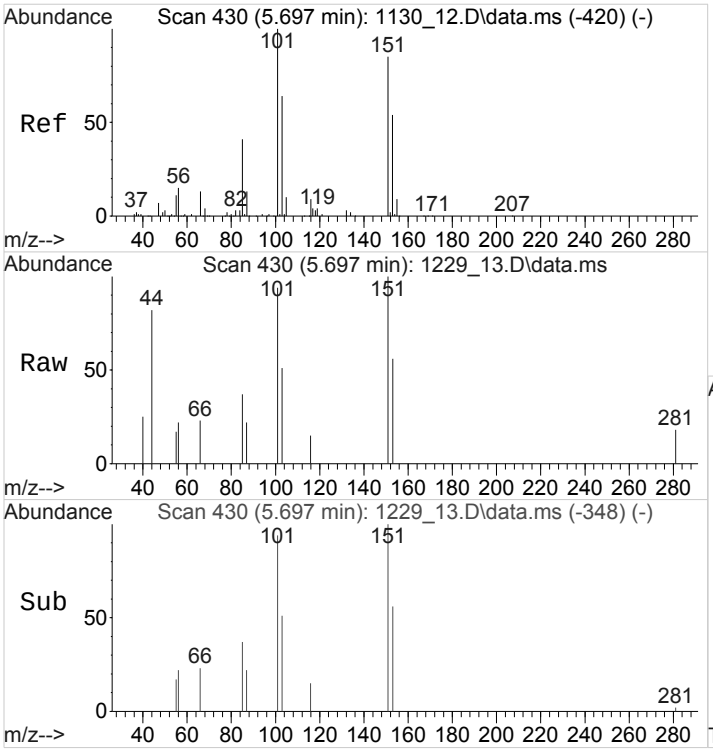


#18
ACROLEIN
Concen: 0.0934589 ppbv
RT: 5.716 min Scan# 433
Delta R.T. 0.006 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 56 Resp: 212

Ion	Ratio	Lower	Upper
56	100		
55	79.7	60.4	90.6

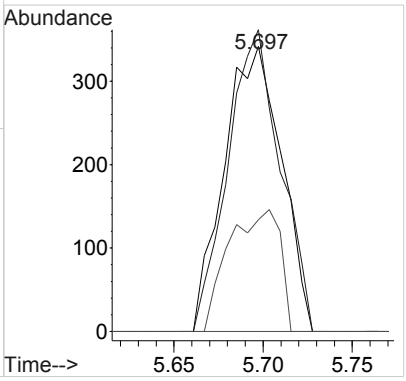


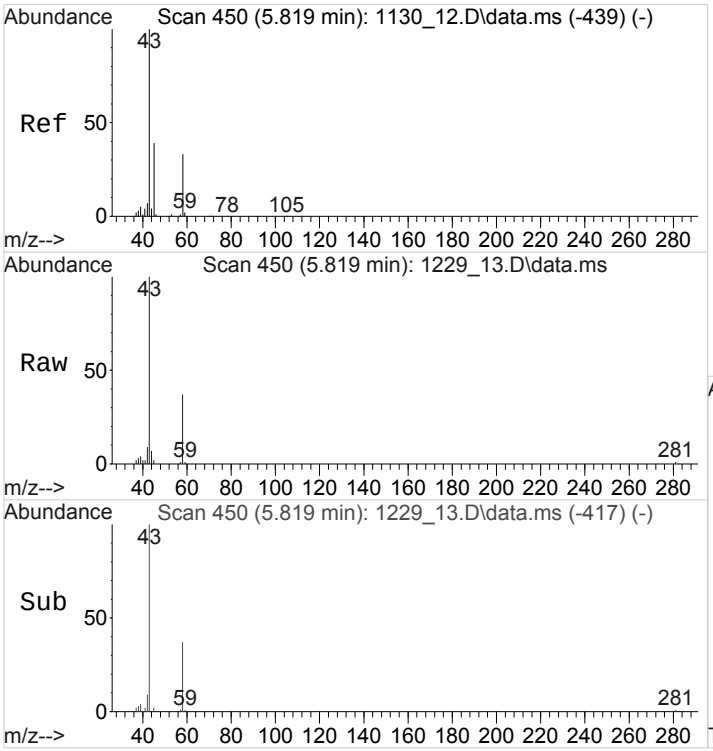


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.0653174 ppbv
RT: 5.697 min Scan# 430
Delta R.T. 0.000 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion:101 Resp: 764

Ion	Ratio	Lower	Upper
101	100		
151	96.6	67.4	101.2
85	38.4	34.4	51.6

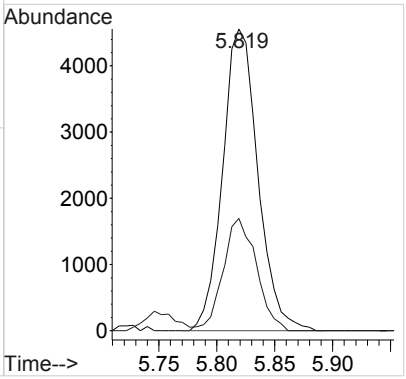


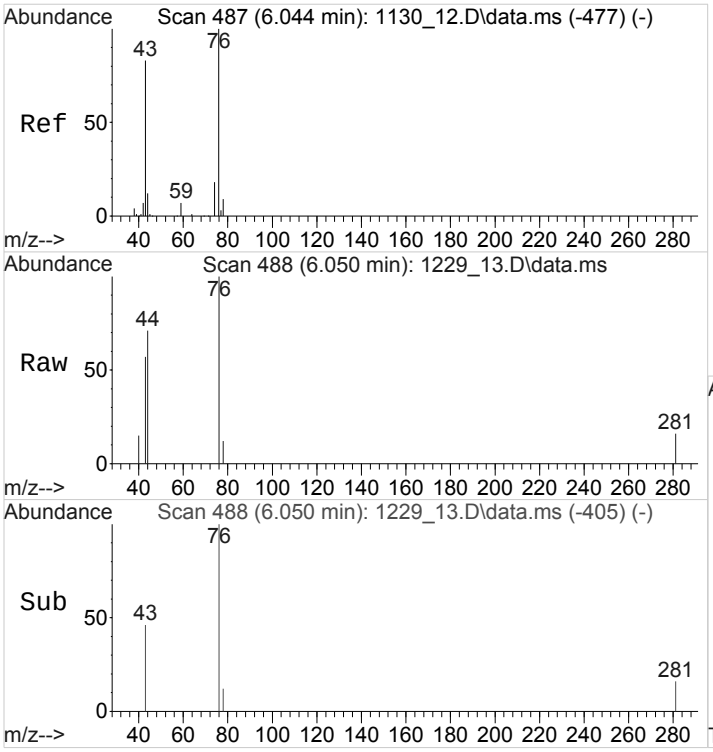


#21
Acetone
Concen: 1.1589772 ppbv
RT: 5.819 min Scan# 450
Delta R.T. 0.000 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 43 Resp: 9681

Ion	Ratio	Lower	Upper
43	100		
58	35.1	23.1	34.7#

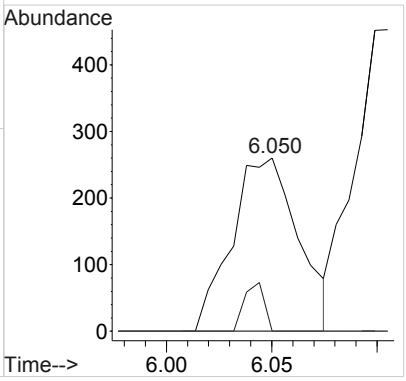


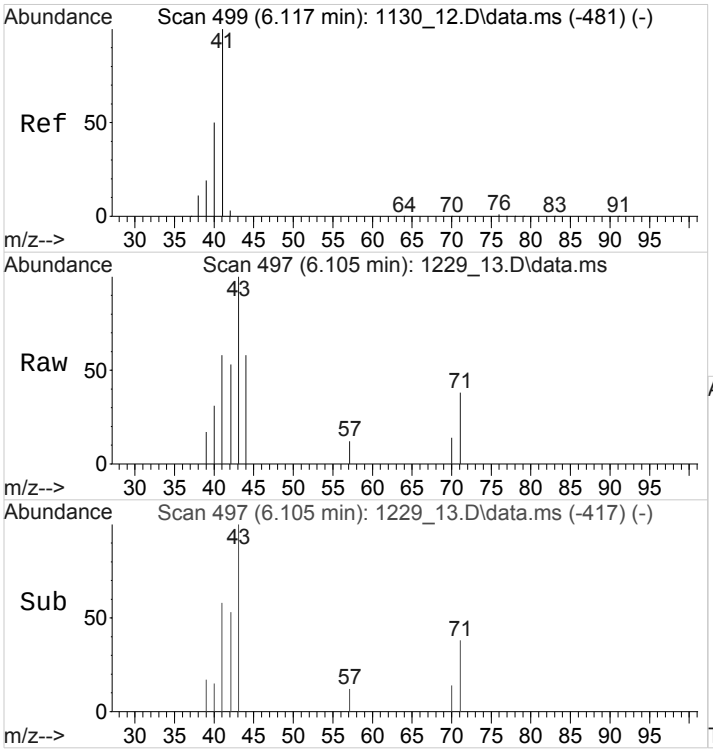


#26
METHYL ACETATE
Concen: 0.0616359 ppbv
RT: 6.050 min Scan# 488
Delta R.T. 0.006 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 43 Resp: 572

Ion	Ratio	Lower	Upper
43	100		
74	8.4	17.4	26.0#
29	0.0	0.0	0.0

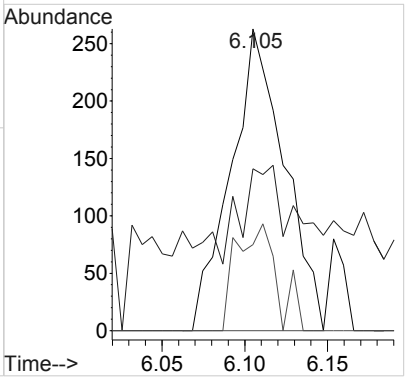


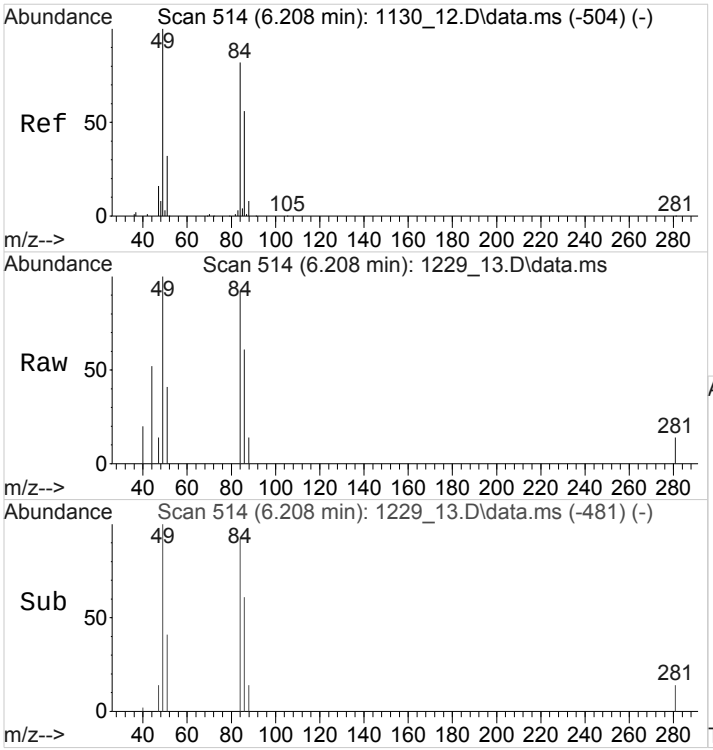


#27
ACETONITRILE
Concen: 0.1150745 ppbv
RT: 6.105 min Scan# 497
Delta R.T. -0.012 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 41 Resp: 594

Ion	Ratio	Lower	Upper
41	100		
40	30.8	32.7	49.1#
39	26.8	22.7	34.1

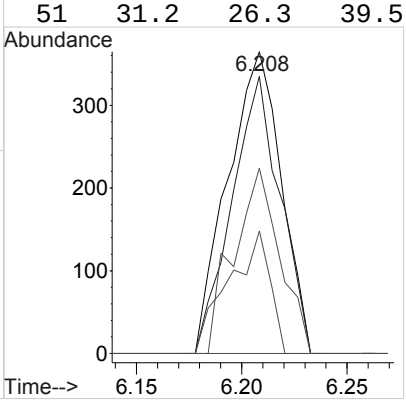


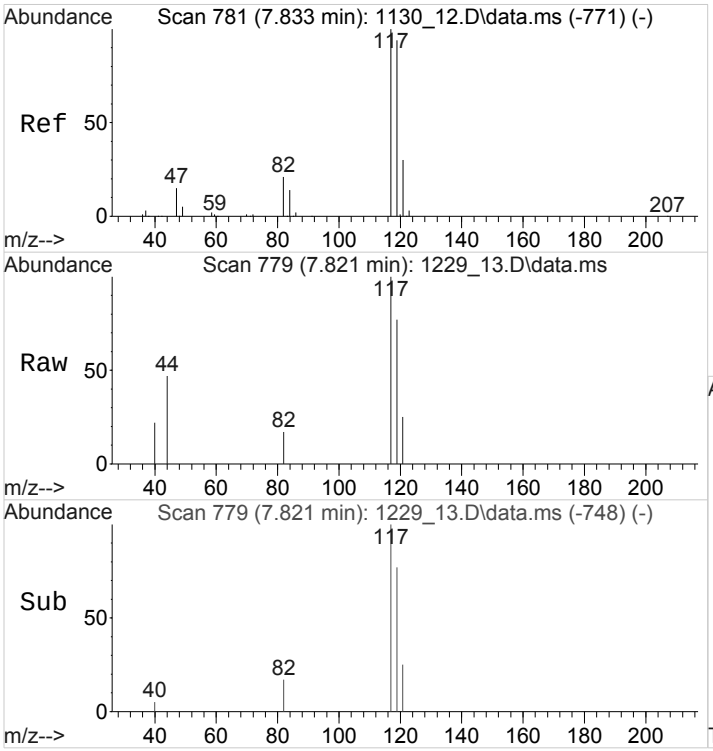


#28
Methylene Chloride
Concen: 0.1120118 ppbv
RT: 6.208 min Scan# 514
Delta R.T. 0.000 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 49 Resp: 645

Ion	Ratio	Lower	Upper
49	100		
84	82.8	65.0	97.6
86	52.7	41.8	62.6
51	31.2	26.3	39.5

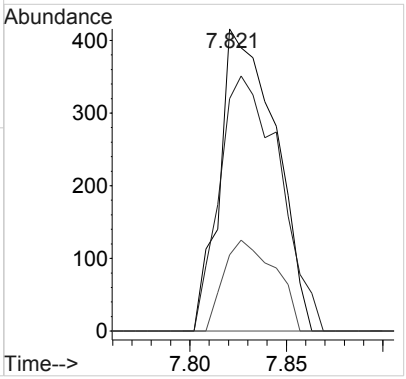


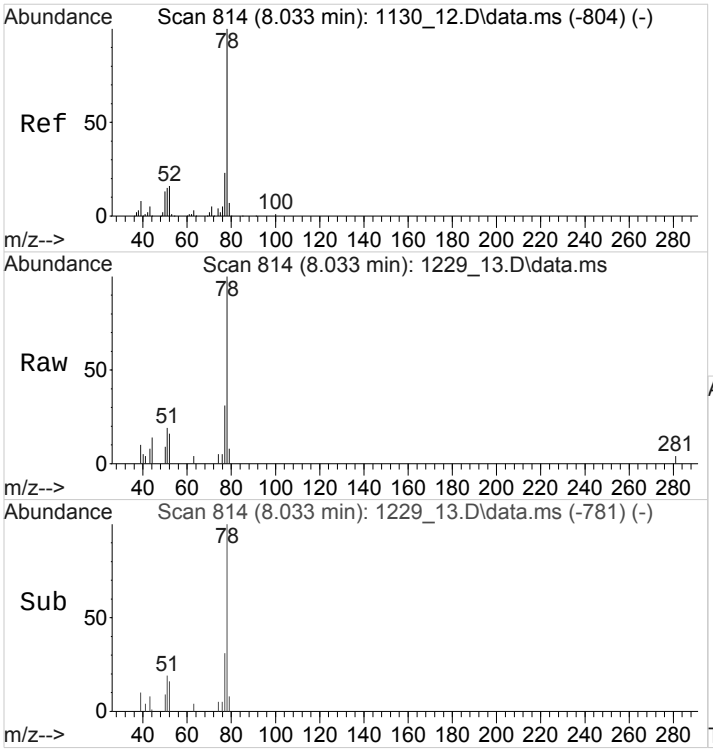


#45
Carbon Tetrachloride
Concen: 0.0691147 ppbv
RT: 7.821 min Scan# 779
Delta R.T. -0.012 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion:117 Resp: 834

Ion	Ratio	Lower	Upper
117	100		
119	91.4	77.3	115.9
121	27.9	25.0	37.4

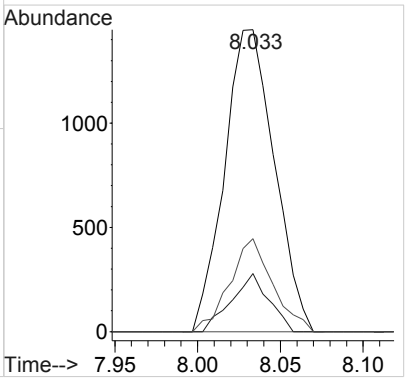


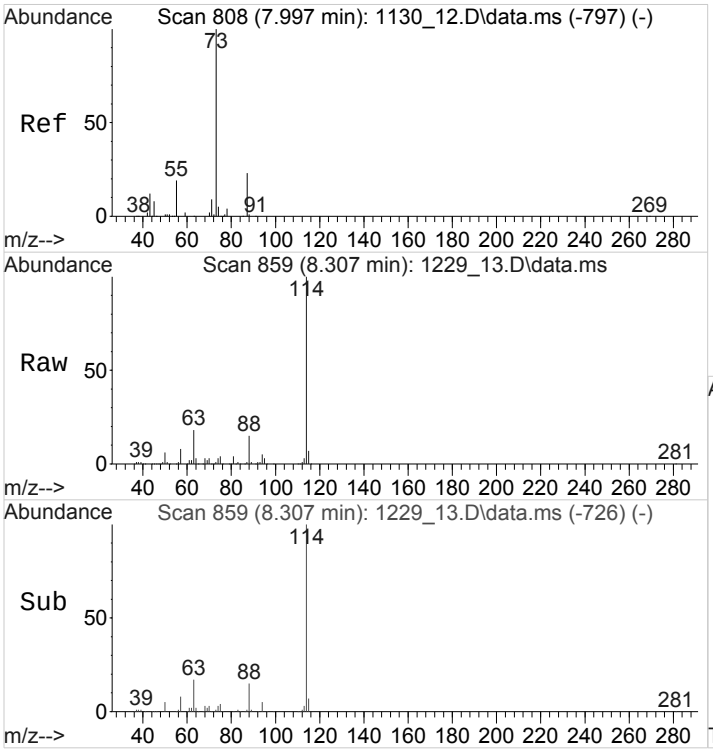


#48
Benzene
Concen: 0.1973299 ppbv
RT: 8.033 min Scan# 814
Delta R.T. 0.000 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 78 Resp: 3035

Ion	Ratio	Lower	Upper
78	100		
51	14.4	12.1	18.1
77	26.6	18.8	28.2

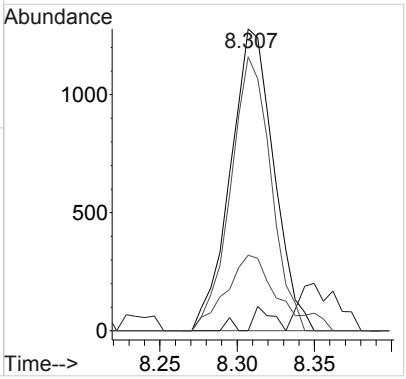




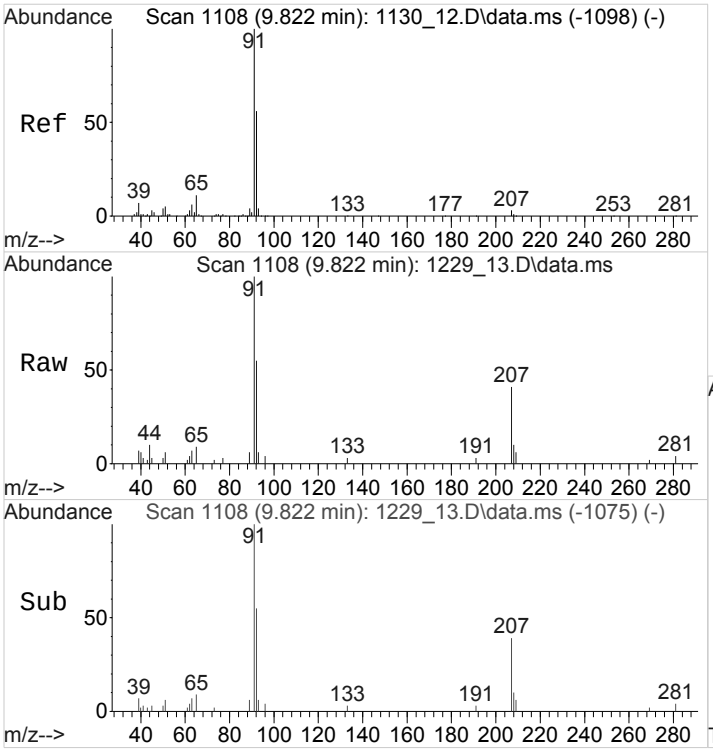
#49
TERT-AMYL METHYL ETHER
Concen: 0.1654847 ppbv
RT: 8.307 min Scan# 859
Delta R.T. 0.310 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 73 Resp: 2505

Ion	Ratio	Lower	Upper
73	100		
43	3.3	24.9	37.3#
55	30.3	18.8	28.2#
87	84.2	18.6	28.0#



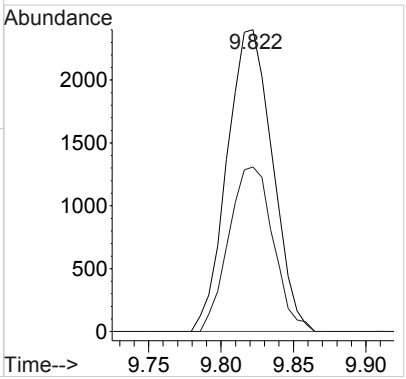
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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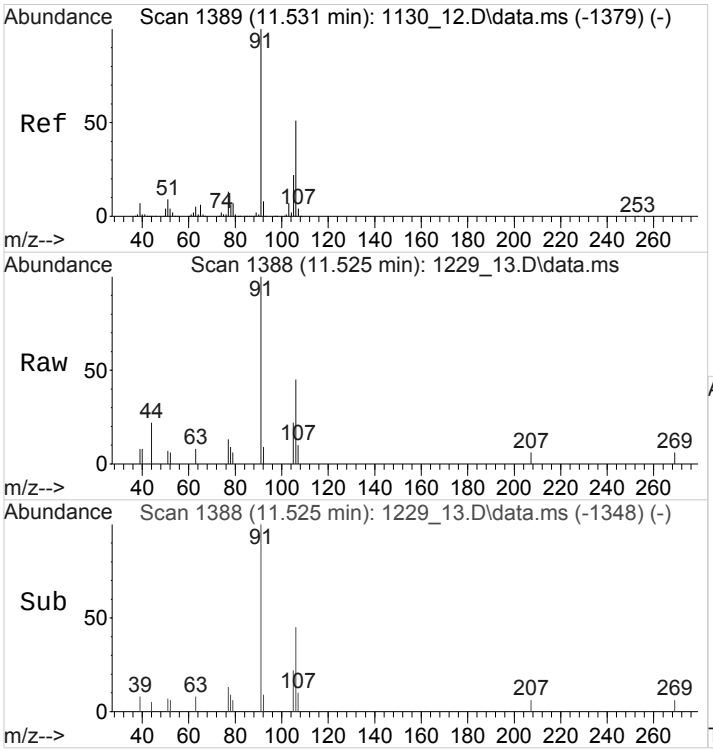


#62
Toluene
Concen: 0.2646298 ppbv
RT: 9.822 min Scan# 1108
Delta R.T. 0.000 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 91 Resp: 5216

Ion	Ratio	Lower	Upper
91	100		
92	53.6	44.1	66.1

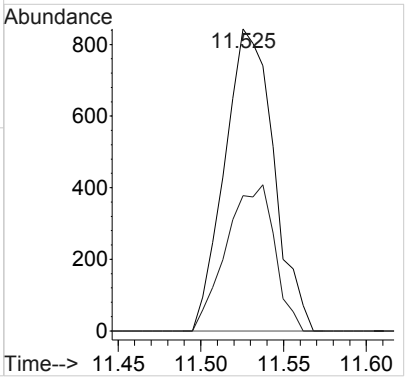


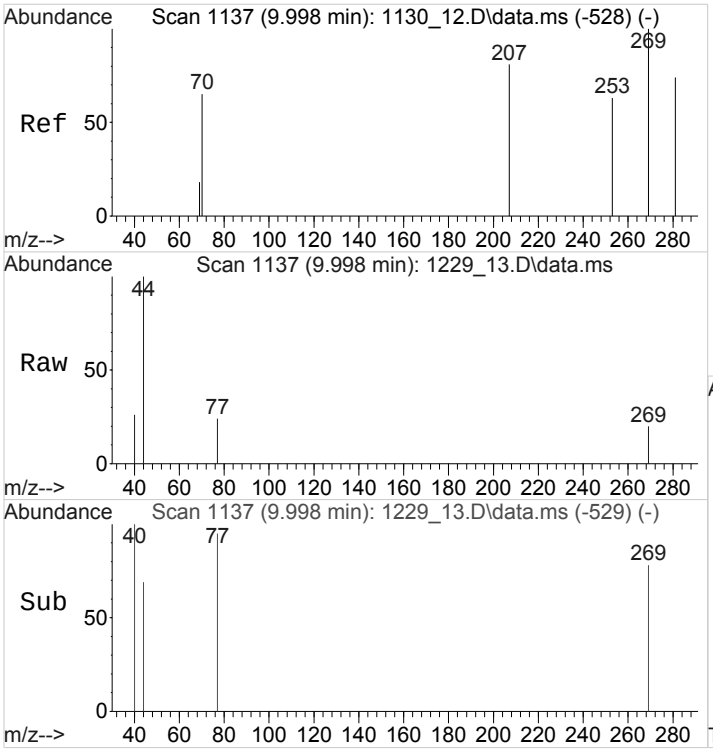


#73
M&P-Xylene
Concen: 0.0980287 ppbv
RT: 11.525 min Scan# 1388
Delta R.T. -0.006 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion: 91 Resp: 1740

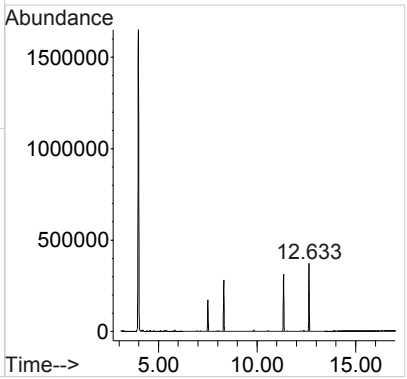
Ion	Ratio	Lower	Upper
91	100		
106	47.5	39.7	59.5

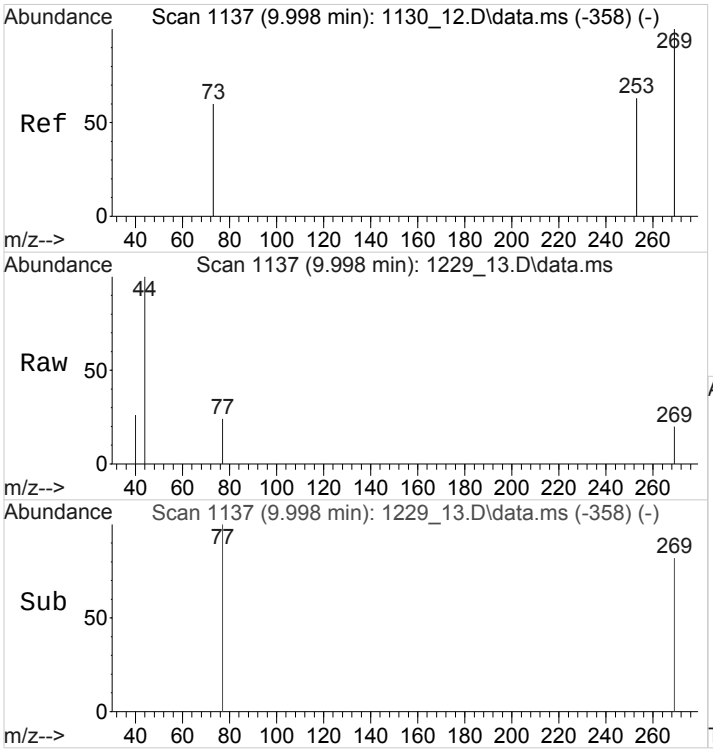




#101
TPH (GC/MS) Low Fraction
Concen: 6.4933633 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

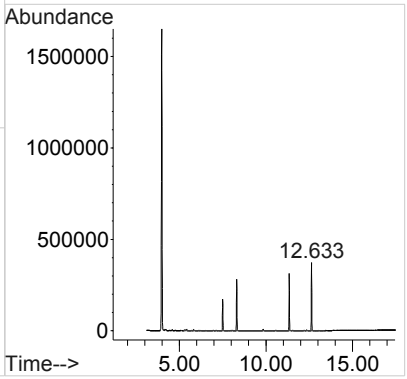
Tgt Ion:TIC Resp: 228286





#102
TPH-GRO (C5-C10)
Concen: 10.5064548 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_13.D
Acq: 29 Dec 2022 7:31 pm

Tgt Ion:TIC Resp: 311728



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1570570 **Analytical Method:** TO-15

Instrument ID: AIRMS4

Analyte	RRF: 0.19	RRF: 0.31	RRF: 0.63	RRF: 1.25	RRF: 2.5	RRF: 3.75	RRF: 10	RRF: 25	RRF: 50	RRF: 100
Analysis date/time	11/30/22 18:49	11/30/22 19:29	11/30/22 20:09	11/30/22 20:50	11/30/22 21:31	11/30/22 22:14	11/30/22 22:55	11/30/22 23:36	12/01/22 00:21	12/01/22 01:11
DICHLORODIFLUOROMETHANE	0.62	0.6840	0.6830	0.7130	0.7040	0.7160	0.7230	0.7140	0.6750	0.5540
CHLOROMETHANE	0.2110	0.2410	0.2430	0.2510	0.2550	0.2470	0.2560	0.2480	0.2440	0.2420
VINYL CHLORIDE	0.20	0.2280	0.2480	0.2420	0.2550	0.2450	0.2530	0.2460	0.2370	0.2280
1,3-BUTADIENE	0.1460	0.1670	0.1720	0.1730	0.1570	0.1570	0.1620	0.1560	0.15	0.1420
BROMOMETHANE	0.2510	0.23	0.2320	0.2270	0.2310	0.2320	0.2350	0.2330	0.2230	0.2220
CHLOROETHANE	0.12	0.1130	0.1050	0.10	0.0960	0.0980	0.0980	0.0950	0.0920	0.09
TRICHLOROFLUOROMETHANE	0.5110	0.5510	0.5820	0.5910	0.59	0.5910	0.6030	0.5880	0.5550	0.52
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5480	0.6030	0.6260	0.6420	0.6490	0.6430	0.6460	0.6190	0.6030	0.5680
1,1-DICHLOROETHENE	0.39	0.4290	0.4340	0.4610	0.4630	0.4560	0.4660	0.4460	0.4280	0.4280
ACETONE	0.5680	0.4860	0.47	0.4430	0.4280	0.4320	0.4140	0.3920	0.3810	0.3750
CARBON DISULFIDE	1.2830	1.1910	1.1150	1.0950	1.0730	1.0520	1.06	1.0260	0.99	0.9750
METHYLENE CHLORIDE	0.3080	0.3170	0.3110	0.3060	0.3050	0.31	0.3060	0.2920	0.2850	0.2860
METHYL TERT-BUTYL ETHER	0.6240	0.68	0.6990	0.7140	0.7080	0.7070	0.7030	0.7040	0.6880	0.7010
TRANS-1,2-DICHLOROETHENE	0.3870	0.4240	0.4380	0.4540	0.4510	0.4560	0.4560	0.4440	0.4320	0.4360
1,1-DICHLOROETHANE	0.4820	0.53	0.5410	0.5560	0.5650	0.5570	0.5610	0.5420	0.5320	0.53
VINYL ACETATE	0.6090	0.6340	0.6640	0.67	0.6850	0.6680	0.6350	0.6310	0.6150	0.6240
2-BUTANONE (MEK)	0.1350	0.1260	0.13	0.1390	0.1370	0.1390	0.1370	0.1340	0.1320	0.1350
CIS-1,2-DICHLOROETHENE	0.37	0.4020	0.4280	0.4350	0.4270	0.4350	0.4290	0.42	0.4120	0.4090
CHLOROFORM	0.5690	0.5750	0.6110	0.5880	0.60	0.59	0.5980	0.5810	0.5730	0.5680
1,1,1-TRICHLOROETHANE	0.56	0.5750	0.5970	0.6010	0.6130	0.6080	0.6150	0.5990	0.5920	0.5880
CARBON TETRACHLORIDE	0.5450	0.5990	0.64	0.6550	0.6530	0.6550	0.6630	0.6530	0.6370	0.6420
BENZENE	0.2150	0.2280	0.2370	0.2340	0.2380	0.2380	0.2340	0.2190	0.2130	0.20
1,2-DICHLOROETHANE	0.07	0.0790	0.0880	0.09	0.0890	0.09	0.0880	0.0830	0.0810	0.0770
TRICHLOROETHENE	0.1010	0.1070	0.1110	0.1140	0.1120	0.1160	0.1140	0.1120	0.1090	0.1060
1,2-DICHLOROPROPANE	0.0850	0.0850	0.0980	0.0990	0.0980	0.10	0.0980	0.0950	0.0910	0.0880
BROMODICHLOROMETHANE	0.1630	0.1710	0.1750	0.1740	0.1750	0.1810	0.1790	0.1770	0.17	0.1650
CIS-1,3-DICHLOROPROPENE	0.1260	0.1360	0.15	0.1510	0.1550	0.1560	0.1570	0.1550	0.1510	0.1490
4-METHYL-2-PENTANONE (MIBK)	0.1540	0.1590	0.1640	0.1650	0.1630	0.1650	0.1690	0.1630	0.1570	0.1510
TOLUENE	0.2740	0.2870	0.2950	0.3050	0.3010	0.3070	0.2980	0.2860	0.2770	0.2610
TRANS-1,3-DICHLOROPROPENE	0.1170	0.1180	0.13	0.1310	0.1340	0.1380	0.1370	0.1330	0.1340	0.13
1,1,2-TRICHLOROETHANE	0.1010	0.1070	0.11	0.1110	0.1110	0.1120	0.1110	0.1110	0.1070	0.1010
TETRACHLOROETHENE	0.1320	0.1430	0.1460	0.1490	0.1490	0.1510	0.1530	0.1470	0.1410	0.1320
METHYL BUTYL KETONE	0.1410	0.1470	0.1460	0.1490	0.15	0.1530	0.16	0.1540	0.1450	0.1360
CHLORODIBROMOMETHANE	0.1750	0.1840	0.20	0.2030	0.21	0.2140	0.2160	0.2150	0.2080	0.1970
1,2-DIBROMOETHANE	0.1540	0.1610	0.1770	0.1780	0.1830	0.1840	0.1830	0.18	0.1760	0.1690
CHLOROBENZENE	0.1920	0.20	0.2230	0.2230	0.2260	0.23	0.2270	0.2210	0.2070	0.1890
ETHYLBENZENE	0.3610	0.3840	0.39	0.3860	0.3960	0.3920	0.4040	0.38	0.37	0.3680
M&P-XYLENE	0.2860	0.2960	0.31	0.3120	0.3120	0.3090	0.3160	0.2980	0.2920	0.2690
O-XYLENE	0.3120	0.2980	0.3140	0.3240	0.3250	0.3210	0.3320	0.3160	0.3150	0.3090
STYRENE	0.2380	0.2340	0.2540	0.2550	0.2650	0.2640	0.27	0.2580	0.2530	0.2430
BROMOFORM	0.1940	0.1990	0.2120	0.2140	0.2240	0.2220	0.2340	0.2370	0.2420	0.2480
1,1,2,2-TETRACHLOROETHANE	0.2450	0.2440	0.2530	0.2570	0.2660	0.2620	0.2680	0.2590	0.2560	0.2480
4-ETHYLTOLUENE	0.3690	0.3840	0.3940	0.4060	0.4240	0.4140	0.4190	0.4050	0.3890	0.3730
1,3,5-TRIMETHYLBENZENE	0.3160	0.3320	0.3450	0.3460	0.3570	0.3470	0.3470	0.3220	0.3040	0.2610
1,2,4-TRIMETHYLBENZENE	0.2990	0.3280	0.3310	0.3250	0.3440	0.3350	0.3340	0.3140	0.3010	0.2870
1,3-DICHLOROBENZENE	0.1540	0.1560	0.1780	0.1990	0.2120	0.2120	0.2250	0.2170	0.2140	0.21
1,4-DICHLOROBENZENE	0.1360	0.1420	0.1680	0.1990	0.2050	0.2060	0.21	0.2030	0.1930	0.1790
BENZYL CHLORIDE	0.1620	0.1710	0.1880	0.1980	0.2220	0.2360	0.2510	0.26	0.2480	0.2580
1,2-DICHLOROBENZENE	0.1620	0.1730	0.1780	0.1930	0.2130	0.2070	0.2130	0.2090	0.2060	0.2010
HEXACHLORO-1,3-BUTADIENE	0.1680	0.1670	0.17	0.1750	0.1810	0.1810	0.1810	0.1840	0.1770	0.1590

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1570570 **Analytical Method:** TO-15

Instrument ID: AIRMS4

Analyte	**RRF: 0.19**	**RRF: 0.31**	**RRF: 0.63**	**RRF: 1.25**	**RRF: 2.5**	**RRF: 3.75**	**RRF: 10**	**RRF: 25**	**RRF: 50**	**RRF: 100**
Analysis date/time	11/30/22 18:49	11/30/22 19:29	11/30/22 20:09	11/30/22 20:50	11/30/22 21:31	11/30/22 22:14	11/30/22 22:55	11/30/22 23:36	12/01/22 00:21	12/01/22 01:11
NAPHTHALENE	0.1490	0.1410	0.1620	0.1910	0.2110	0.22	0.2450	0.2760	0.2750	0.2610
1,4-BROMOFLUOROBENZENE	0.6520	0.6580	0.6510	0.6590	0.6670	0.6560	0.6790	0.70	0.7170	0.7860
1,2,4-TRICHLOROBENZENE		0.0550	0.0620	0.0730	0.0840	0.0910	0.1030	0.1230		
File ID:	1130_07	1130_08	1130_09	1130_10	1130_11	1130_12	1130_13	1130_14	1130_15	1130_16

GC/MS INITIAL CALIBRATION DATA

SDG: L1570570 **Analytical Method:** TO-15
Instrument ID: AIRMS4

Analyte Analysis date/time	RRF. Avg	%RSD	COD
DICHLORODIFLUOROMETHANE	0.678668	7.84	
CHLOROMETHANE	0.243971	5.15	
VINYL CHLORIDE	0.238124	6.84	
1,3-BUTADIENE	0.158135	6.68	
BROMOMETHANE	0.231613	3.44	
CHLOROETHANE	0.100712	9.33	
TRICHLOROFLUOROMETHANE	0.568119	5.67	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.614638	5.63	
1,1-DICHLOROETHENE	0.440043	5.29	
ACETONE	0.438936	13.21	
CARBON DISULFIDE	1.086114	8.57	
METHYLENE CHLORIDE	0.302588	3.62	
METHYL TERT-BUTYL ETHER	0.692781	3.77	
TRANS-1,2-DICHLOROETHENE	0.437681	4.75	
1,1-DICHLOROETHANE	0.539493	4.49	
VINYL ACETATE	0.643468	4.03	
2-BUTANONE (MEK)	0.134207	3.14	
CIS-1,2-DICHLOROETHENE	0.416728	4.76	
CHLOROFORM	0.58541	2.5	
1,1,1-TRICHLOROETHANE	0.59481	2.88	
CARBON TETRACHLORIDE	0.63409	5.67	
BENZENE	0.22565	5.9	
1,2-DICHLOROETHANE	0.0836	8.01	
TRICHLOROETHENE	0.110324	4.17	
1,2-DICHLOROPROPANE	0.093712	6.43	
BROMODICHLOROMETHANE	0.172982	3.38	
CIS-1,3-DICHLOROPROPENE	0.148616	6.64	
4-METHYL-2-PENTANONE (MIBK)	0.160994	3.5	
TOLUENE	0.28918	5.2	
TRANS-1,3-DICHLOROPROPENE	0.130125	5.42	
1,1,2-TRICHLOROETHANE	0.108229	3.82	
TETRACHLOROETHENE	0.144296	5.12	
METHYL BUTYL KETONE	0.148178	4.66	
CHLORODIBROMOMETHANE	0.202168	6.77	
1,2-DIBROMOETHANE	0.174648	5.78	
CHLOROBENZENE	0.213731	7.26	
ETHYLBENZENE	0.382986	3.52	
M&P-XYLENE	0.300144	4.92	
O-XYLENE	0.316575	2.99	
STYRENE	0.253392	4.73	
BROMOFORM	0.222477	8.03	
1,1,2,2-TETRACHLOROETHANE	0.255829	3.18	
4-ETHYLTOLUENE	0.397759	4.74	
1,3,5-TRIMETHYLBENZENE	0.327719	8.8	
1,2,4-TRIMETHYLBENZENE	0.319933	5.85	
1,3-DICHLOROBENZENE	0.197736	13.07	
1,4-DICHLOROBENZENE	0.184073	14.75	
BENZYL CHLORIDE	0.219417	16.9	
1,2-DICHLOROBENZENE	0.195363	9.28	
HEXACHLORO-1,3-BUTADIENE	0.17424	4.63	
NAPHTHALENE	0.212862	24.03	

GC/MS INITIAL CALIBRATION DATA

SDG: L1570570 **Analytical Method:** TO-15

Instrument ID: AIRMS4

Analyte Analysis date/time	RRF. Avg	%RSD	COD
1,4-BROMOFLUOROBENZENE	0.682503	6.24	
1,2,4-TRICHLOROBENZENE	0.084459	28.21	

Response Factor Report AIRMS4

Method Path : C:\msdchem\1\methods\
Method File : TOAIRMS4K30V.m
Title : AIRMS4
Last Update : Thu Dec 01 08:21:50 2022
Response Via : Initial Calibration

Calibration Files
0.19=1130_07.D 0.31=1130_08.D 0.63=1130_09.D 1.25=1130_10.D 2.5 =1130_11.D 3.75=1130_12.D 10 =1130_13.D
25 =1130_14.D 50 =1130_15.D 100 =1130_16.D

		Compound	0.19	0.31	0.63	1.25	2.5	3.75	10	25	50	100	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------											
2)	T,M	Propene			0.306	0.269	0.237	0.218	0.208	0.205	0.202	0.198	0.230	16.66
3)	T	BUTANE	0.425	0.443	0.410	0.407	0.361	0.342	0.338	0.324	0.315	0.306	0.367	13.55
4)		1,1-DIFLUOROET...	0.317	0.325	0.317	0.320	0.317	0.318	0.314	0.310	0.307	0.310	0.315	1.76
5)	T,M	Dichlorodifluo...	0.620	0.684	0.683	0.713	0.704	0.716	0.723	0.714	0.675	0.554	0.679	7.84
6)		CHLORODIFLUORO...	0.341	0.370	0.386	0.383	0.401	0.394	0.398	0.399	0.384	0.369	0.383	4.81
7)	T,M	1,2-Dichlorote...	0.678	0.740	0.756	0.762	0.778	0.771	0.789	0.765	0.734	0.710	0.748	4.50
8)	T,M	Chloromethane	0.211	0.241	0.243	0.251	0.255	0.247	0.256	0.248	0.244	0.242	0.244	5.15
9)	T,M	Vinyl Chloride	0.200	0.228	0.248	0.242	0.255	0.245	0.253	0.246	0.237	0.228	0.238	6.84
10)	T,M	1,3-Butadiene	0.146	0.167	0.172	0.173	0.157	0.157	0.162	0.156	0.150	0.142	0.158	6.68
11)	T,M	Bromomethane	0.251	0.230	0.232	0.227	0.231	0.232	0.235	0.233	0.223	0.222	0.232	3.44
12)	T,M	Chloroethane	0.120	0.113	0.105	0.100	0.096	0.098	0.098	0.095	0.092	0.090	0.101	9.33
13)		ISOPENTANE	0.334	0.300	0.267	0.235	0.233	0.240	0.244	0.239	0.228	0.216	0.254	14.51
14)	T,M	Vinyl Bromide	0.253	0.237	0.238	0.236	0.235	0.234	0.238	0.233	0.222	0.214	0.234	4.40
15)	T,M	Trichlorofluor...	0.511	0.551	0.582	0.591	0.590	0.591	0.603	0.588	0.555	0.520	0.568	5.67
16)	T	PENTANE	0.904	0.720	0.541	0.490	0.450	0.443	0.445	0.429	0.405	0.388	0.521	31.59
17)	T,M	Ethanol			0.166	0.144	0.132	0.123	0.123	0.114	0.112	0.114	0.128	14.49
18)	T	ACROLEIN	0.127	0.132	0.124	0.119	0.124	0.119	0.117	0.112	0.111	0.106	0.119	6.72
19)	T,M	1,1,2-Trichlor...	0.548	0.603	0.626	0.642	0.649	0.643	0.646	0.619	0.603	0.568	0.615	5.63
20)	T,M	1,1-Dichloroet...	0.390	0.429	0.434	0.461	0.463	0.456	0.466	0.446	0.428	0.428	0.440	5.29
21)	T,M	Acetone	0.568	0.486	0.470	0.443	0.428	0.432	0.414	0.392	0.381	0.375	0.439	13.21
22)	T	BROMOETHANE	0.222	0.262	0.265	0.268	0.271	0.264	0.268	0.260	0.260	0.266	0.261	5.39
23)	T,M	2-Propanol	0.598	0.547	0.506	0.501	0.493	0.470	0.458	0.440	0.416	0.418	0.485	11.85
24)	T,M	Carbon Disulfide	1.283	1.191	1.115	1.095	1.073	1.052	1.060	1.026	0.990	0.975	1.086	8.57
25)	T,M	Allyl Chloride	0.275	0.377	0.255	0.246	0.355	0.360	0.371	0.351	0.320	0.303	0.321	15.27
26)		METHYL ACETATE	0.451	0.489	0.498	0.502	0.504	0.491	0.506	0.490	0.476	0.469	0.488	3.59
27)	T	ACETONITRILE	0.238	0.263	0.269	0.275	0.280	0.284	0.307	0.278	0.263	0.257	0.271	6.78
28)	T,M	Methylene Chlo...	0.308	0.317	0.311	0.306	0.305	0.310	0.306	0.292	0.285	0.286	0.303	3.62
29)		TERT-BUTYL ALC...	0.459	0.497	0.505	0.533	0.521	0.525	0.544	0.526	0.497	0.495	0.510	4.83
30)	T,M	Methyl Tert-Bu...	0.624	0.680	0.699	0.714	0.708	0.707	0.703	0.704	0.688	0.701	0.693	3.77
31)	T,M	Trans-1,2-Dich...	0.387	0.424	0.438	0.454	0.451	0.456	0.456	0.444	0.432	0.436	0.438	4.75
32)	T	ACRYLONITRILE	0.210	0.208	0.235	0.238	0.232	0.235	0.229	0.223	0.221	0.222	0.225	4.62
33)	T,M	n-Hexane	0.378	0.411	0.403	0.435	0.409	0.427	0.418	0.404	0.396	0.396	0.408	4.05
34)	T,M	1,1-Dichloroet...	0.482	0.530	0.541	0.556	0.565	0.557	0.561	0.542	0.532	0.530	0.539	4.49
35)	T,M	Vinyl Acetate	0.609	0.634	0.664	0.670	0.685	0.668	0.635	0.631	0.615	0.624	0.643	4.03
36)		DI-ISOPROPYL E...	0.718	0.801	0.828	0.860	0.852	0.849	0.873	0.840	0.823	0.816	0.826	5.28
37)		ETHYL TERT-BUT...	0.750	0.847	0.889	0.901	0.916	0.908	0.912	0.898	0.861	0.873	0.875	5.68
38)		ETHYL ACETATE	0.098	0.081	0.101	0.085	0.092	0.091	0.093	0.090	0.090	0.090	0.091	6.17
39)	T,M	2-Butanone (MEK)	0.135	0.126	0.130	0.139	0.137	0.139	0.137	0.134	0.132	0.135	0.134	3.14
40)	T,M	cis-1,2-Dichlo...	0.370	0.402	0.428	0.435	0.427	0.435	0.429	0.420	0.412	0.409	0.417	4.76

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Method Path : C:\msdchem\1\methods\
Method File : TOAIRMS4K30V.m
Title : AIRMS4

41)	T,M	Tetrahydrofuran	0.312	0.272	0.282	0.282	0.277	0.280	0.280	0.277	0.269	0.266	0.280	4.51
42)	T,M	Chloroform	0.569	0.575	0.611	0.588	0.600	0.590	0.598	0.581	0.573	0.568	0.585	2.50
43)	T,M	Cyclohexane	0.326	0.315	0.330	0.327	0.342	0.333	0.332	0.326	0.316	0.317	0.326	2.69
44)	T,M	1,1,1-Trichlor...	0.560	0.575	0.597	0.601	0.613	0.608	0.615	0.599	0.592	0.588	0.595	2.88
45)	T,M	Carbon Tetrach...	0.545	0.599	0.640	0.655	0.653	0.655	0.663	0.653	0.637	0.642	0.634	5.67
46)	T,M	2,2,4-Trimethy...	1.244	1.311	1.343	1.383	1.390	1.387	1.396	1.358	1.304	1.303	1.342	3.74
47)	I	1,4-Difluorobenzene	----------ISTD----------											
48)	T,M	Benzene	0.215	0.228	0.237	0.234	0.238	0.238	0.234	0.219	0.213	0.200	0.226	5.90
49)		TERT-AMYL METH...	0.205	0.219	0.230	0.232	0.235	0.239	0.230	0.220	0.209	0.202	0.222	5.91
50)	T,M	1,2-Dichloroet...	0.070	0.079	0.088	0.090	0.089	0.090	0.088	0.083	0.081	0.077	0.084	8.01
51)	T,M	Heptane	0.125	0.121	0.133	0.129	0.130	0.131	0.127	0.120	0.114	0.108	0.124	6.53
52)	T,M	Trichloroethene	0.101	0.107	0.111	0.114	0.112	0.116	0.114	0.112	0.109	0.106	0.110	4.17
53)		TERT-AMYL ETHY...	0.081	0.077	0.078	0.077	0.076	0.077	0.074	0.073	0.070	0.068	0.075	5.20
54)		METHYL CYCLOHE...	0.157	0.150	0.151	0.152	0.152	0.154	0.152	0.147	0.141	0.135	0.149	4.50
55)	T,M	1,2-Dichloropr...	0.085	0.085	0.098	0.099	0.098	0.100	0.098	0.095	0.091	0.088	0.094	6.43
56)	T,M	Methyl Methacr...	0.099	0.091	0.099	0.106	0.099	0.109	0.106	0.103	0.092	0.091	0.099	6.62
57)	T,M	1,4-Dioxane	0.042	0.043	0.048	0.048	0.047	0.048	0.051	0.050	0.048	0.047	0.047	5.65
58)	T,M	Bromodichlorom...	0.163	0.171	0.175	0.174	0.175	0.181	0.179	0.177	0.170	0.165	0.173	3.38
59)	T,M	cis-1,3-Dichlo...	0.126	0.136	0.150	0.151	0.155	0.156	0.157	0.155	0.151	0.149	0.149	6.64
60)	T,M	4-Methyl-2-Pen...	0.154	0.159	0.164	0.165	0.163	0.165	0.169	0.163	0.157	0.151	0.161	3.50
61)		n-OCTANE	0.182	0.192	0.202	0.205	0.204	0.207	0.202	0.196	0.187	0.172	0.195	5.88
62)	T,M	Toluene	0.274	0.287	0.295	0.305	0.301	0.307	0.298	0.286	0.277	0.261	0.289	5.20
63)	T,M	trans-1,3-Dich...	0.117	0.118	0.130	0.131	0.134	0.138	0.137	0.133	0.134	0.130	0.130	5.42
64)	T,M	1,1,2-Trichlor...	0.101	0.107	0.110	0.111	0.111	0.112	0.111	0.111	0.107	0.101	0.108	3.82
65)	T,M	Tetrachloroethene	0.132	0.143	0.146	0.149	0.149	0.151	0.153	0.147	0.141	0.132	0.144	5.12
66)	T,M	Methyl Butyl K...	0.141	0.147	0.146	0.149	0.150	0.153	0.160	0.154	0.145	0.136	0.148	4.66
67)	T,M	Chlorodibromom...	0.175	0.184	0.200	0.203	0.210	0.214	0.216	0.215	0.208	0.197	0.202	6.77
68)	T,M	1,2-Dibromoethane	0.154	0.161	0.177	0.178	0.183	0.184	0.183	0.180	0.176	0.169	0.175	5.78
69)	T,M	Chlorobenzene	0.192	0.200	0.223	0.223	0.226	0.230	0.227	0.221	0.207	0.189	0.214	7.26
70)	T	NONANE	0.210	0.204	0.212	0.214	0.214	0.220	0.211	0.206	0.196	0.173	0.206	6.44
71)	I	Chlorobenzene-d5	----------ISTD----------											
72)	T,M	Ethylbenzene	0.361	0.384	0.390	0.386	0.396	0.392	0.404	0.380	0.370	0.368	0.383	3.52
73)	T,M	M&P-Xylene	0.286	0.296	0.310	0.312	0.312	0.309	0.316	0.298	0.292	0.269	0.300	4.92
74)	T,M	O-Xylene	0.312	0.298	0.314	0.324	0.325	0.321	0.332	0.316	0.315	0.309	0.317	2.99
75)		TOTAL XYLENES											0.000	-1.00
76)		XYLENES, TOTAL											0.000	-1.00
77)	T,M	Styrene	0.238	0.234	0.254	0.255	0.265	0.264	0.270	0.258	0.253	0.243	0.253	4.73
78)	T,M	Bromoform	0.194	0.199	0.212	0.214	0.224	0.222	0.234	0.237	0.242	0.248	0.222	8.03
79)	T,M	Isopropylbenzene	0.404	0.425	0.435	0.444	0.447	0.443	0.446	0.429	0.414	0.408	0.430	3.80
80)		n-DECANE	0.193	0.206	0.206	0.215	0.221	0.220	0.221	0.201	0.178	0.145	0.201	11.98
81)	T,M	1,1,2,2-Tetrac...	0.245	0.244	0.253	0.257	0.266	0.262	0.268	0.259	0.256	0.248	0.256	3.18
82)	T,M	n-Propylbenzene	0.456	0.471	0.488	0.521	0.529	0.520	0.526	0.495	0.452	0.386	0.484	9.28
83)	T,M	4-Ethyltoluene	0.369	0.384	0.394	0.406	0.424	0.414	0.419	0.405	0.389	0.373	0.398	4.74
84)	T,M	2-Chlorotoluene	0.093	0.101	0.109	0.110	0.110	0.105	0.108	0.101	0.095	0.085	0.102	8.46
85)	S	1,4-Bromofluor...	0.652	0.658	0.651	0.659	0.667	0.656	0.679	0.700	0.717	0.786	0.683	6.24
86)	T,M	1,3,5-Trimethy...	0.316	0.332	0.345	0.346	0.357	0.347	0.347	0.322	0.304	0.261	0.328	8.80
87)	T,M	Tert-Butylbenzene	0.282	0.305	0.310	0.316	0.317	0.318	0.316	0.298	0.289	0.281	0.303	4.87
88)	T,M	1,2,4-Trimethy...	0.299	0.328	0.331	0.325	0.344	0.335	0.334	0.314	0.301	0.287	0.320	5.85

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Method Path : C:\msdchem\1\methods\
Method File : TOAIRMS4K30V.m
Title : AIRMS4

89)	T,M	sec-Butylbenzene	0.089	0.092	0.094	0.095	0.097	0.094	0.097	0.092	0.090	0.088	0.093	3.51
90)	T,M	1,3-Dichlorobe...	0.154	0.156	0.178	0.199	0.212	0.212	0.225	0.217	0.214	0.210	0.198	13.07
91)		P-ISOPROPYLTOL...	0.356	0.369	0.381	0.384	0.394	0.387	0.391	0.371	0.354	0.333	0.372	5.26
92)	T,M	1,4-Dichlorobe...	0.136	0.142	0.168	0.199	0.205	0.206	0.210	0.203	0.193	0.179	0.184	14.75
93)		1,2,3-TRIMETHY...	0.302	0.317	0.328	0.327	0.342	0.331	0.325	0.306	0.283	0.251	0.311	8.75
94)	T,M	Benzyl Chloride	0.162	0.171	0.188	0.198	0.222	0.236	0.251	0.260	0.248	0.258	0.219	16.90
95)	T,M	n-Butylbenzene	0.316	0.323	0.350	0.362	0.369	0.376	0.388	0.376	0.344	0.317	0.352	7.47
96)	T,M	1,2-Dichlorobe...	0.162	0.173	0.178	0.193	0.213	0.207	0.213	0.209	0.206	0.201	0.195	9.28
97)		1,2-DIBROMO-3-...	0.078	0.077	0.083	0.089	0.096	0.100	0.108	0.110	0.104	0.102	0.095	12.68
98)	T,M	1,2,4-Trichlor...		0.055	0.062	0.073	0.084	0.091	0.103	0.123			0.084	28.21
99)	T,M	Hexachloro-1,3...	0.168	0.167	0.170	0.175	0.181	0.181	0.181	0.184	0.177	0.159	0.174	4.63
100)	T,M	Naphthalene	0.149	0.141	0.162	0.191	0.211	0.220	0.245	0.276	0.275	0.261	0.213	24.03
101)	h,n,	MTPH (GC/MS) Lo...			0.663	0.626	0.614	0.595	0.591	0.566	0.551	0.549	0.594	6.62
102)	h,n,	MTPH-GRO (C5-C10)			0.612	0.542	0.513	0.495	0.486	0.464	0.452	0.451	0.502	10.85

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:05:21 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	103391	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	387756	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.349	117	337551	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	220022	3.9768953	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 99.42%				
Target Compounds							Qvalue
2) Propene	4.182	41	2619	0.4644560	ppbv		93
3) BUTANE	4.578	43	2089m	0.2362754	ppbv		
4) 1,1-DIFLUOROETHANE	4.189	51	1555	0.1891790	ppbv		97
5) Dichlorodifluoromethane	4.225	85	3046	0.1644826	ppbv		92
6) CHLORODIFLUOROMETHANE	4.243	51	1676	0.1646214	ppbv	#	87
7) 1,2-Dichlorotetrafluor...	4.377	85	3328	0.1669802	ppbv		96
8) Chloromethane	4.493	50	1038m	0.1623460	ppbv		
9) Vinyl Chloride	4.602	62	980	0.1550408	ppbv	#	48
10) 1,3-Butadiene	4.633	39	716m	0.1763592	ppbv		
11) Bromomethane	4.992	94	1232	0.2055873	ppbv		88
12) Chloroethane	5.077	64	587	0.2313392	ppbv	#	32
13) ISOPENTANE	5.089	43	1640	0.2648501	ppbv	#	90
14) Vinyl Bromide	5.259	106	1243	0.2051135	ppbv		95
15) Trichlorofluoromethane	5.278	101	2511	0.1644417	ppbv		85
16) PENTANE	5.320	43	4440	0.3873936	ppbv	#	94
17) Ethanol	5.405	45	1238	0.3894888	ppbv		98
18) ACROLEIN	5.709	56	623	0.2023284	ppbv		84
19) 1,1,2-Trichlorotrifluo...	5.697	101	2691	0.1619725	ppbv	#	93
20) 1,1-Dichloroethene	5.782	61	1914	0.1624096	ppbv	#	89
21) Acetone	5.831	43	2789	0.2499803	ppbv		95
22) BROMOETHANE	5.965	108	1091	0.1600426	ppbv		97
23) 2-Propanol	5.849	45	2939	0.2420214	ppbv		97
24) Carbon Disulfide	6.056	76	6303	0.2317931	ppbv	#	85
25) Allyl Chloride	6.087	41	1349m	0.1449857	ppbv		
26) METHYL ACETATE	6.050	43	2217	0.1746875	ppbv	#	99
27) ACETONITRILE	6.117	41	5842	0.7956622	ppbv	#	77
28) Methylene Chloride	6.208	49	1513	0.1888496	ppbv	#	89
29) TERT-BUTYL ALCOHOL	6.190	59	2256	0.1662414	ppbv	#	1
30) Methyl Tert-Butyl Ether	6.354	73	3064	0.1677718	ppbv	#	88
31) Trans-1,2-Dichloroethene	6.403	61	1903	0.1616039	ppbv		96
32) ACRYLONITRILE	6.439	53	1033	0.1702145	ppbv		95
33) n-Hexane	6.525	57	1854	0.1680852	ppbv		90
34) 1,1-Dichloroethane	6.792	63	2365	0.1643547	ppbv	#	75
35) Vinyl Acetate	6.719	43	2992	0.1733588	ppbv	#	91
36) DI-ISOPROPYL ETHER	6.683	45	3527	0.1607836	ppbv		93
37) ETHYL TERT-BUTYL ETHER	6.987	59	3681	0.1567945	ppbv		95
38) ETHYL ACETATE	7.206	45	481	0.2041460	ppbv	#	48
39) 2-Butanone (MEK)	7.243	72	662	0.1843508	ppbv		90
40) cis-1,2-Dichloroethene	7.279	61	1817	0.1616159	ppbv		94
41) Tetrahydrofuran	7.522	42	1532	0.2117475	ppbv	#	86
42) Chloroform	7.504	83	2793	0.1830279	ppbv		100
43) Cyclohexane	7.729	84	1602	0.1859616	ppbv		98
44) 1,1,1-Trichloroethane	7.699	97	2748	0.1749207	ppbv		92
45) Carbon Tetrachloride	7.839	117	2678	0.1581190	ppbv		97
46) 2,2,4-Trimethylpentane	7.942	57	6109	0.1704503	ppbv	#	93
48) Benzene	8.033	78	3952	0.1712391	ppbv	#	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:05:21 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration

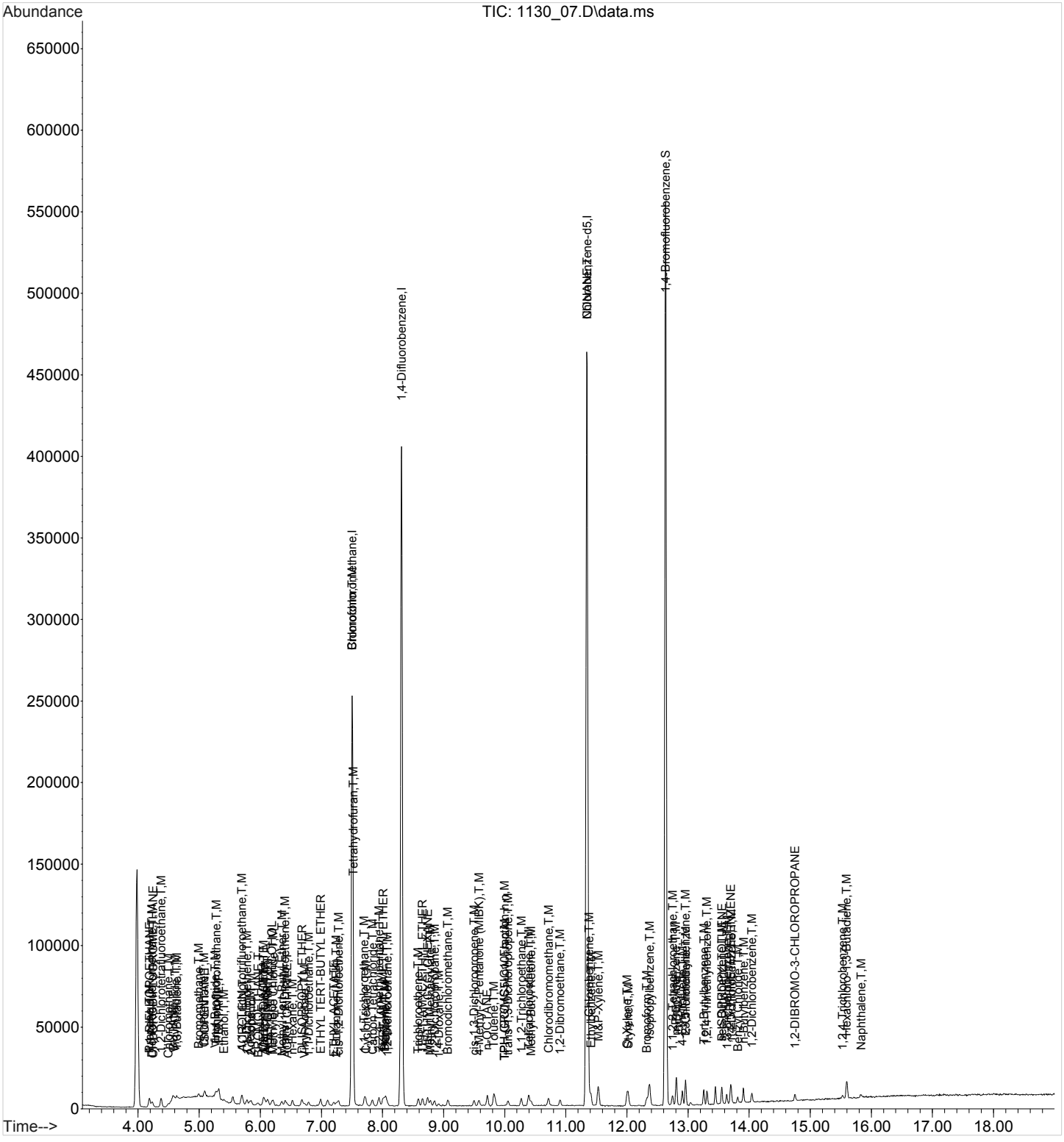
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
49)	TERT-AMYL METHYL ETHER	8.009	73	3774	0.1629244	ppbv	95
50)	1,2-Dichloroethane	8.082	62	1296	0.1477909	ppbv #	83
51)	Heptane	8.052	43	2302	0.1813722	ppbv	94
52)	Trichloroethene	8.581	95	1860	0.1649800	ppbv	99
53)	TERT-AMYL ETHYL ETHER	8.654	73	1492	0.1991584	ppbv #	85
54)	METHYL CYCLOHEXANE	8.739	83	2900	0.1939163	ppbv #	81
55)	1,2-Dichloropropane	8.855	63	1562	0.1618512	ppbv	96
56)	Methyl Methacrylate	8.782	41	1818	0.1712999	ppbv	92
57)	1,4-Dioxane	8.922	88	782	0.1672807	ppbv #	72
58)	Bromodichloromethane	9.068	83	2994	0.1704856	ppbv	100
59)	cis-1,3-Dichloropropene	9.500	75	2328	0.1536414	ppbv #	84
60)	4-Methyl-2-Pentanone (...	9.579	43	2838	0.1778708	ppbv #	92
61)	n-OCTANE	9.712	43	3351	0.1671032	ppbv #	88
62)	Toluene	9.822	91	5045	0.1694305	ppbv	96
63)	trans-1,3-Dichloropropene	10.053	75	2156	0.1615757	ppbv	98
64)	1,1,2-Trichloroethane	10.272	97	1861	0.1712558	ppbv	93
65)	Tetrachloroethene	10.394	166	2430	0.1659323	ppbv #	95
66)	Methyl Butyl Ketone	10.430	43	2596	0.1747343	ppbv #	93
67)	Chlorodibromomethane	10.716	129	3231	0.1560626	ppbv	98
68)	1,2-Dibromoethane	10.905	107	2839	0.1587661	ppbv	97
69)	Chlorobenzene	11.379	112	3532	0.1581273	ppbv #	3
70)	NONANE	11.349	43	3876	0.1817913	ppbv #	89
72)	Ethylbenzene	11.410	91	5789	0.1749855	ppbv	100
73)	M&P-Xylene	11.531	91	9175	0.3518812	ppbv	96
74)	O-Xylene	12.000	91	4995	0.1843479	ppbv	95
77)	Styrene	12.024	104	3815	0.1712073	ppbv	96
78)	Bromoform	12.322	173	3113	0.1662088	ppbv	98
79)	Isopropylbenzene	12.371	105	6478	0.1731669	ppbv #	97
80)	n-DECANE	12.809	43	3090	0.1665745	ppbv #	91
81)	1,1,2,2-Tetrachloroethane	12.748	83	3935	0.1779258	ppbv	96
82)	n-Propylbenzene	12.803	91	7308	0.1664649	ppbv	100
83)	4-Ethyltoluene	12.906	105	5920	0.1693809	ppbv	99
84)	2-Chlorotoluene	12.961	126	1493	0.1677997	ppbv	95
86)	1,3,5-Trimethylbenzene	12.955	105	5071	0.1731522	ppbv	96
87)	Tert-Butylbenzene	13.259	119	4517	0.1684160	ppbv	98
88)	1,2,4-Trimethylbenzene	13.308	105	4798	0.1698870	ppbv	100
89)	sec-Butylbenzene	13.551	134	1425	0.1798441	ppbv	95
90)	1,3-Dichlorobenzene	13.636	146	2463	0.1375028	ppbv	99
91)	P-ISOPROPYLTOLUENE	13.551	119	5714	0.1750245	ppbv	98
92)	1,4-Dichlorobenzene	13.709	146	2178	0.1250597	ppbv	95
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	4839	0.1733065	ppbv	98
94)	Benzyl Chloride	13.813	91	2590	0.1298398	ppbv	98
95)	n-Butylbenzene	13.910	91	5063	0.1595480	ppbv	98
96)	1,2-Dichlorobenzene	14.044	146	2600	0.1490885	ppbv	97
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	1257	0.1494722	ppbv	91
98)	1,2,4-Trichlorobenzene	15.528	180	869	0.1136958	ppbv	97
99)	Hexachloro-1,3-Butadiene	15.595	225	2699	0.1769894	ppbv	98
100)	Naphthalene	15.833	128	2387	0.1285486	ppbv #	96
101)	TPH (GC/MS) Low Fraction	10.000	TIC	753435m	14.9971957	ppbv	
102)	TPH-GRO (C5-C10)	10.000	TIC	1140832m	27.3326835	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

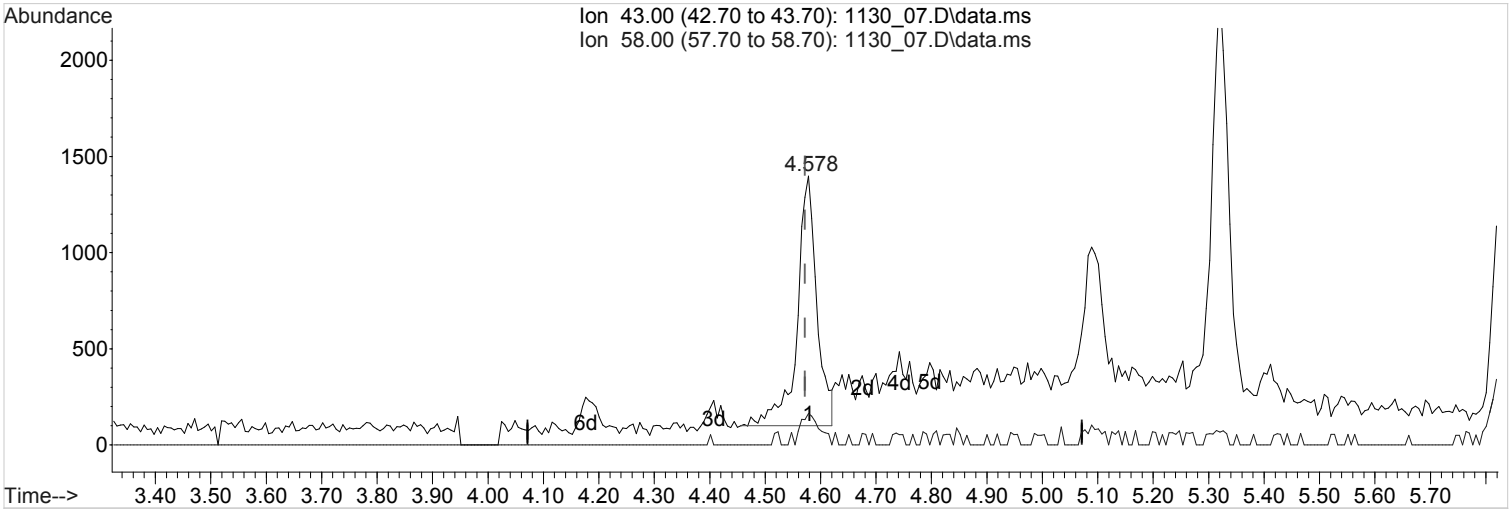
Quant Time: Dec 01 08:05:21 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration

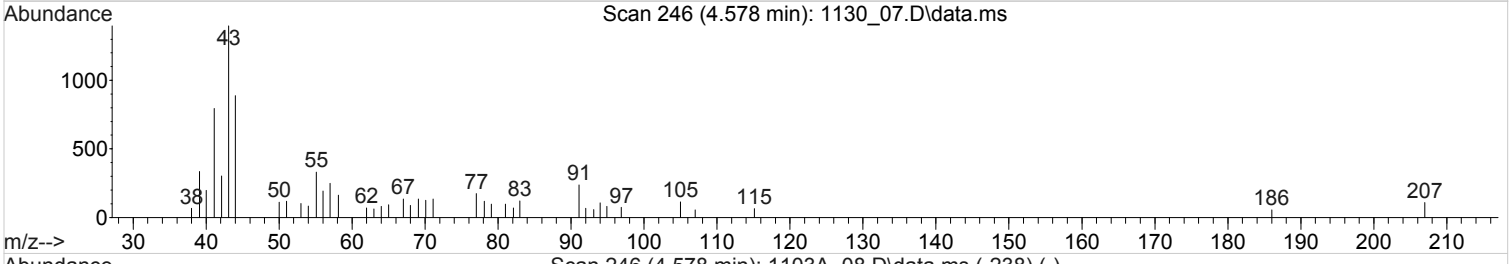


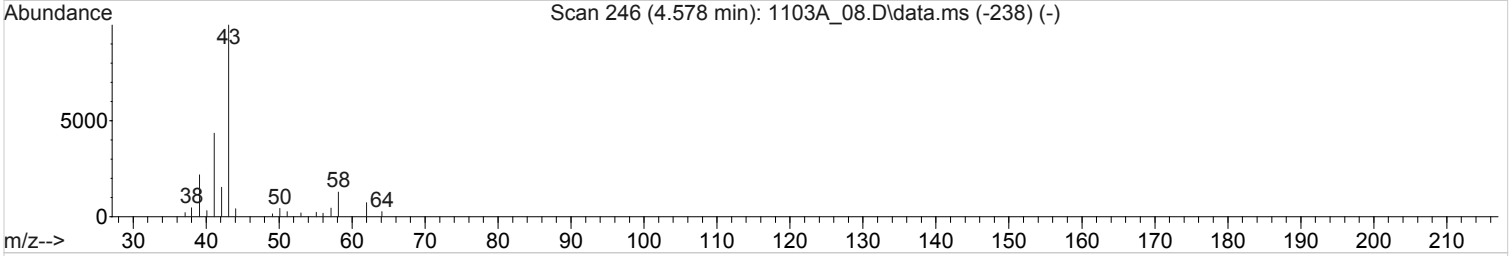
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration







TIC: 1130_07.D\data.ms

(3) BUTANE (T)

4.578min (+0.006) 0.3662326 ppbv

Qvalue = 91

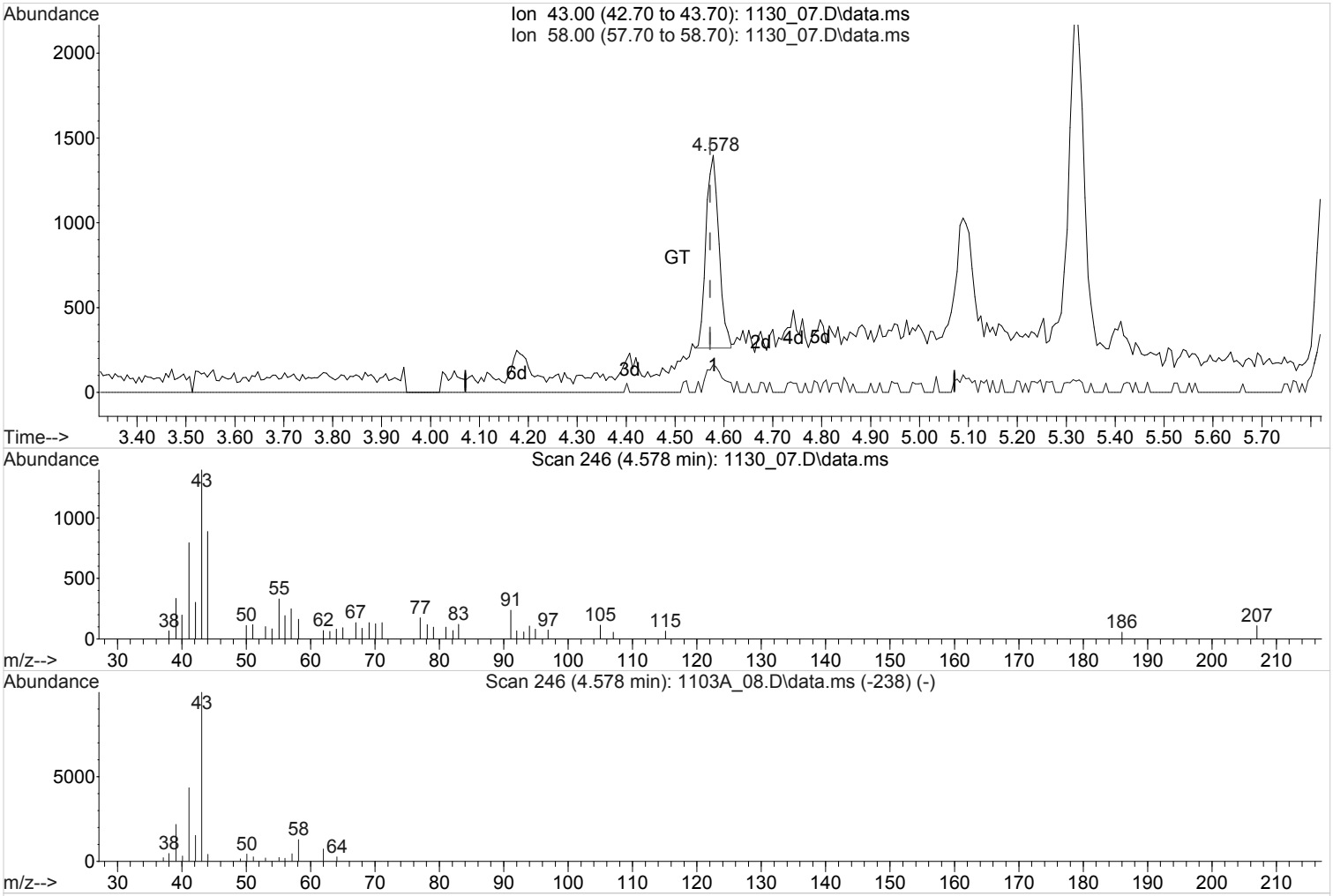
response 3238

Ion	Exp%	Act%
43.00	100	100
58.00	10.00	13.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration



TIC: 1130_07.D\data.ms

(3) BUTANE (T)

4.578min (+0.006) 0.2362754 ppbv m

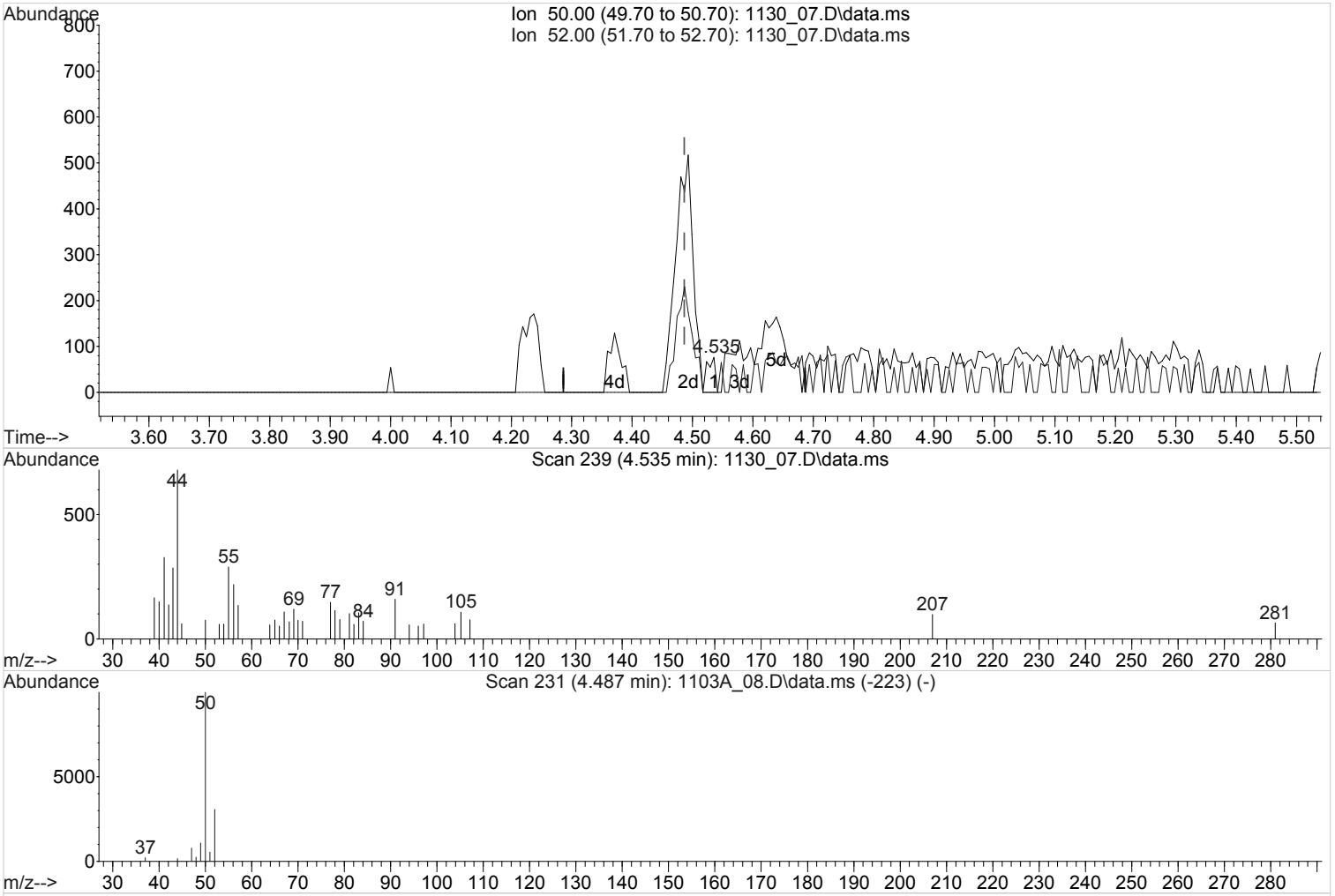
response 2089

Ion	Exp%	Act%
43.00	100	100
58.00	10.00	20.63#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration



TIC: 1130_07.D\data.ms

(8) Chloromethane (T,M)

4.535min (+0.049) 0.0112610 ppbv

Qvalue = 99

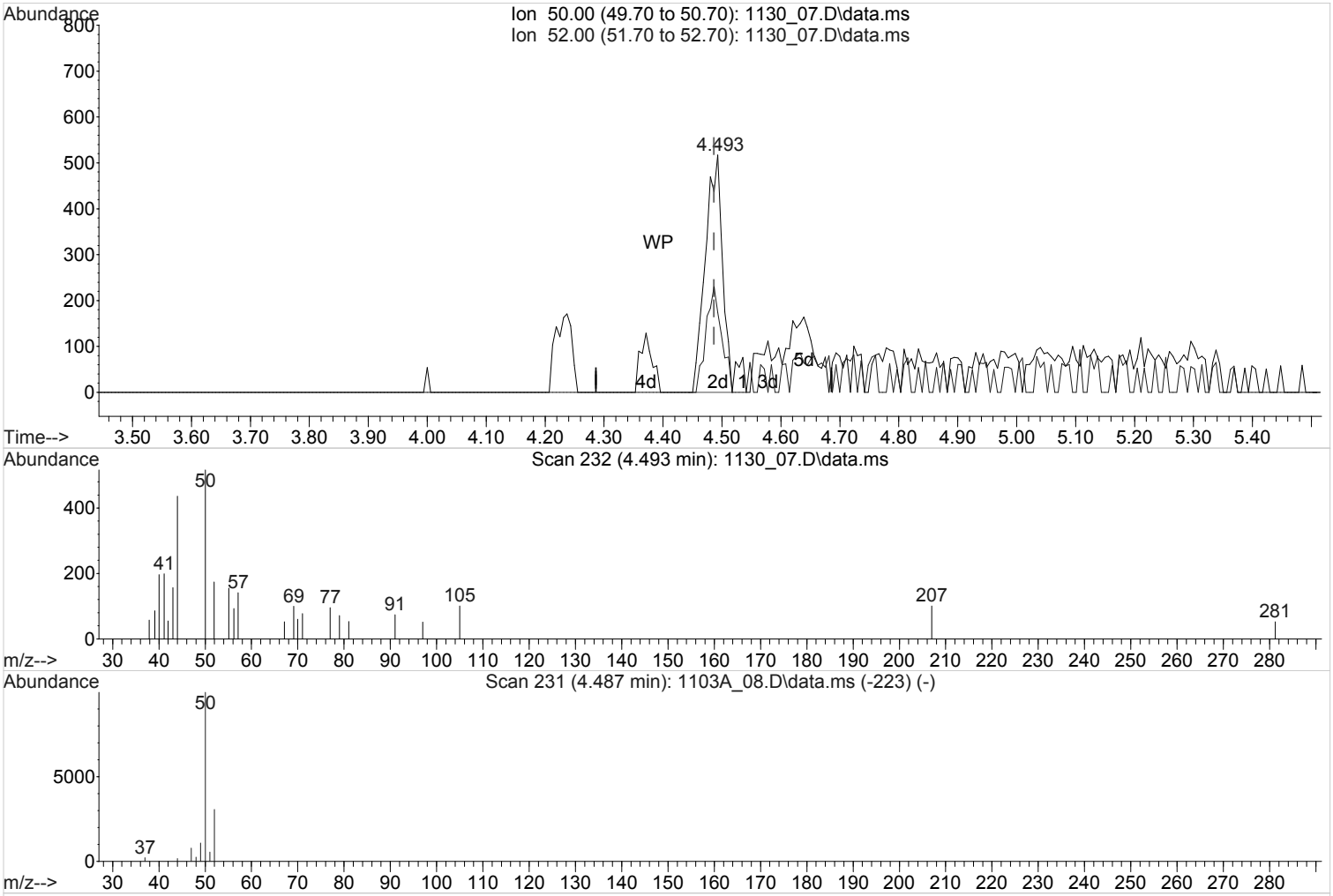
response 72

Ion	Exp%	Act%
50.00	100	100
52.00	33.90	33.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration



TIC: 1130_07.D\data.ms

(8) Chloromethane (T,M)

4.493min (+0.006) 0.1623460 ppbv m

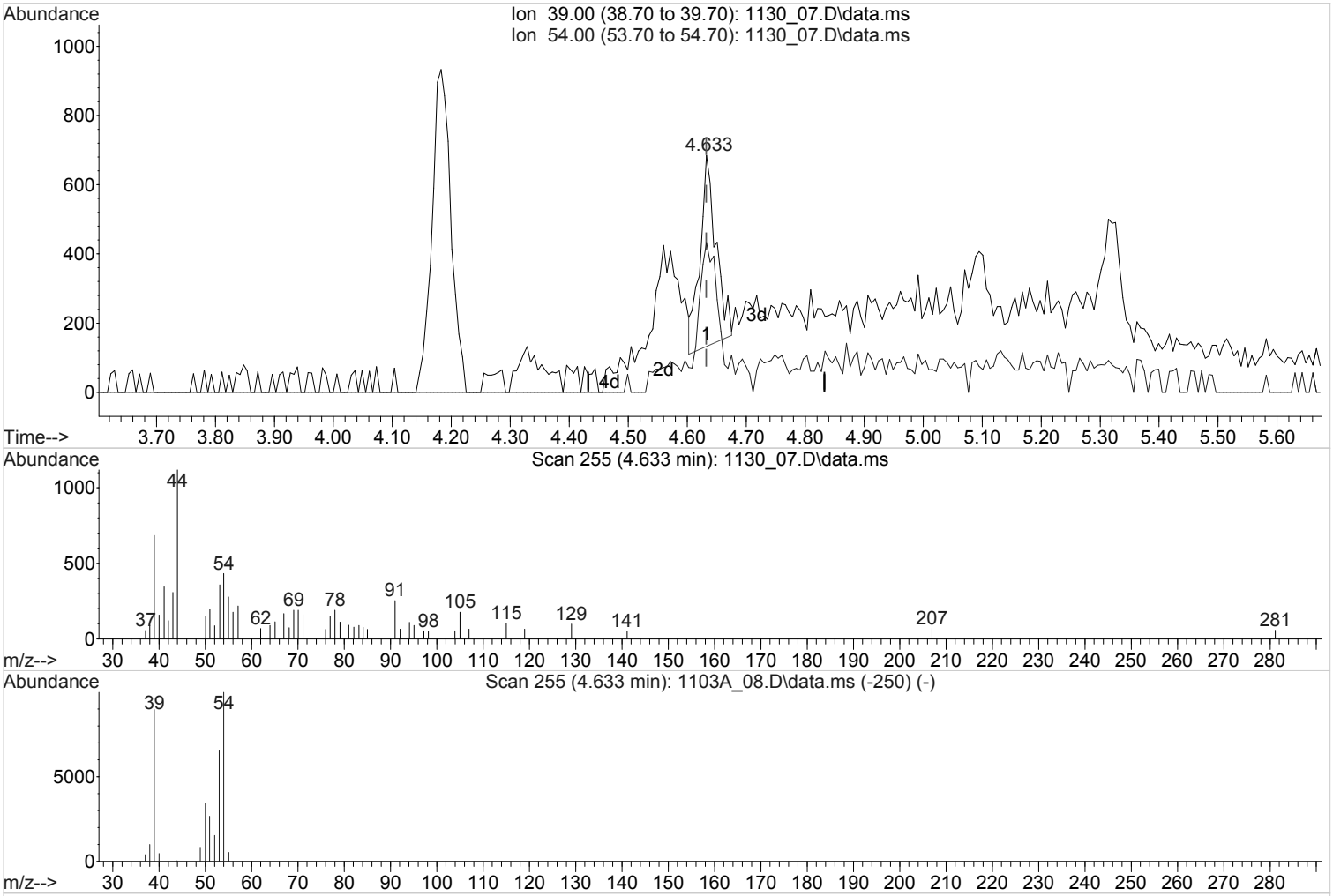
response 1038

Ion	Exp%	Act%
50.00	100	100
52.00	33.90	2.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration



TIC: 1130_07.D\data.ms

(10) 1,3-Butadiene (T,M)

4.633min (+0.000) 0.2586273 ppbv

Qvalue = 60

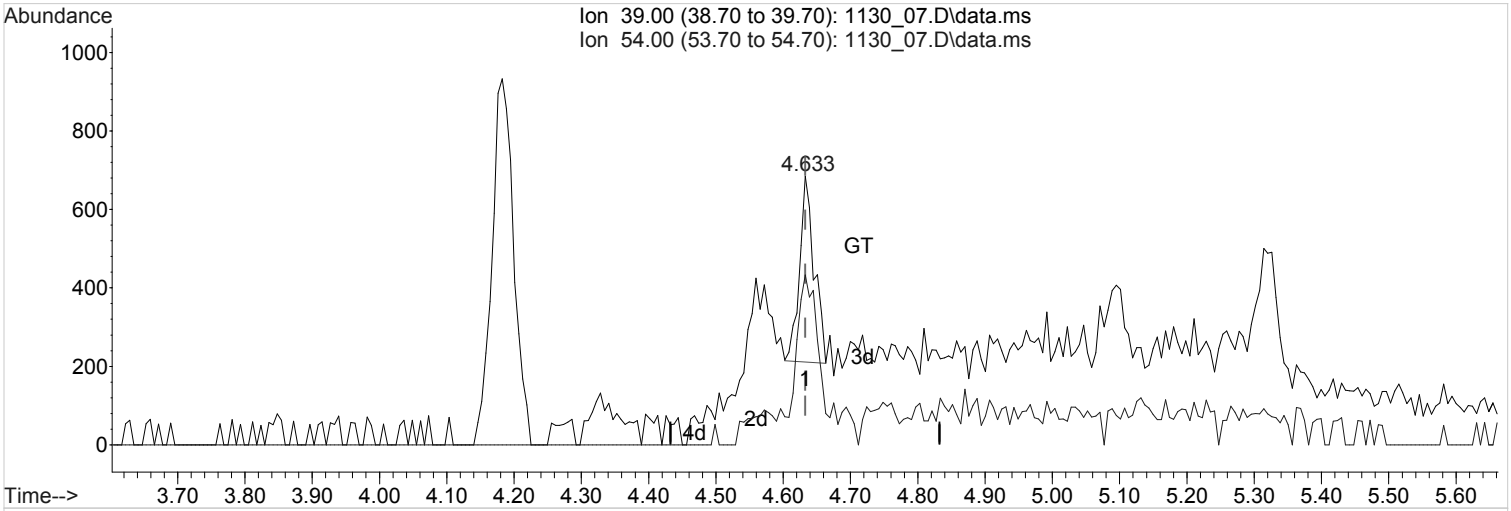
response 1050

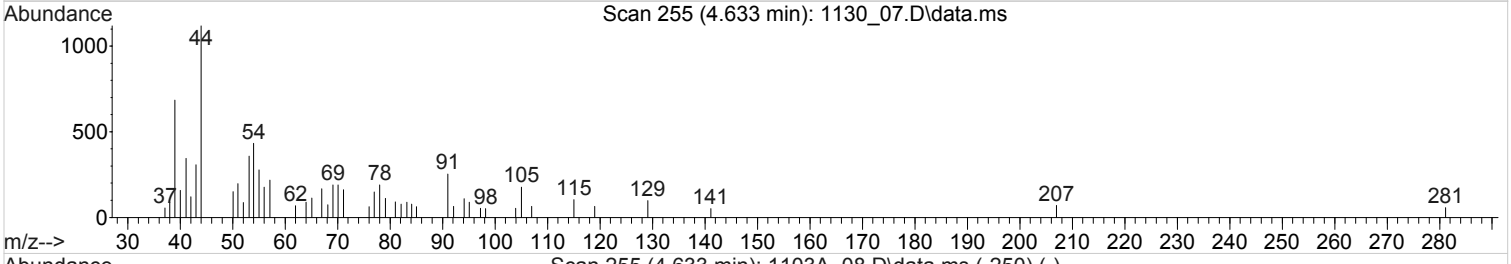
Ion	Exp%	Act%
39.00	100	100
54.00	112.60	69.24#
0.00	0.00	0.00
0.00	0.00	0.00

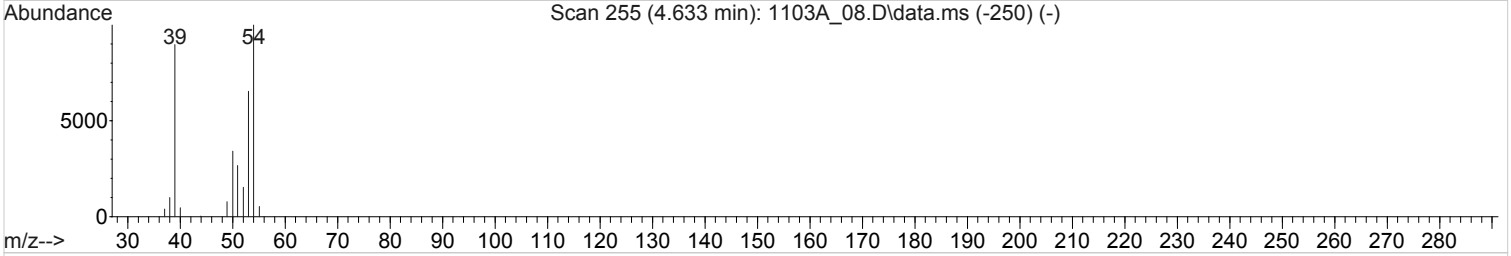
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration







TIC: 1130_07.D\data.ms

(10) 1,3-Butadiene (T,M)

4.633min (+0.000) 0.1763592 ppbv m

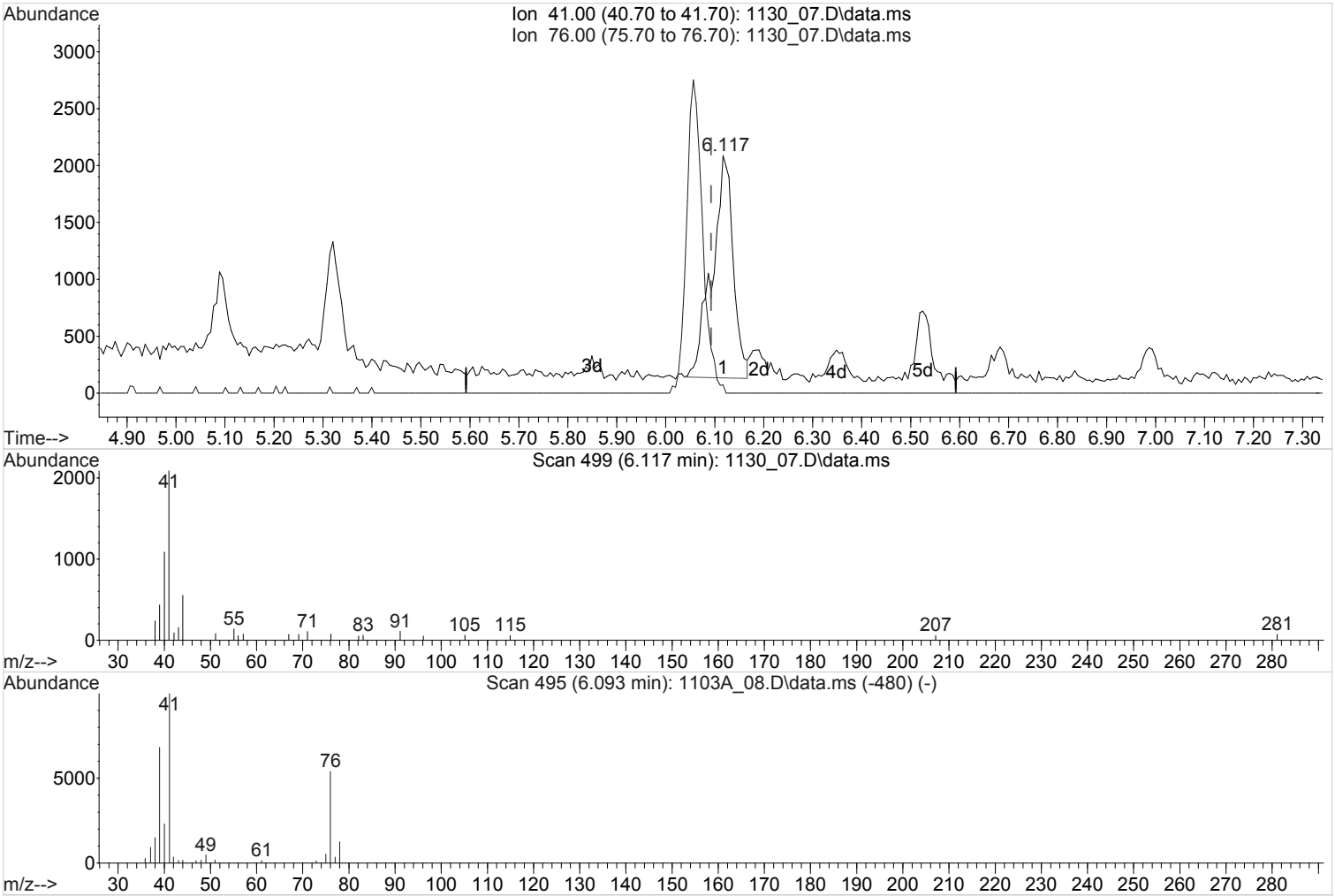
response 716

Ion	Exp%	Act%
39.00	100	100
54.00	112.60	101.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration



TIC: 1130_07.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 0.6278774 ppbv

Qvalue = 4

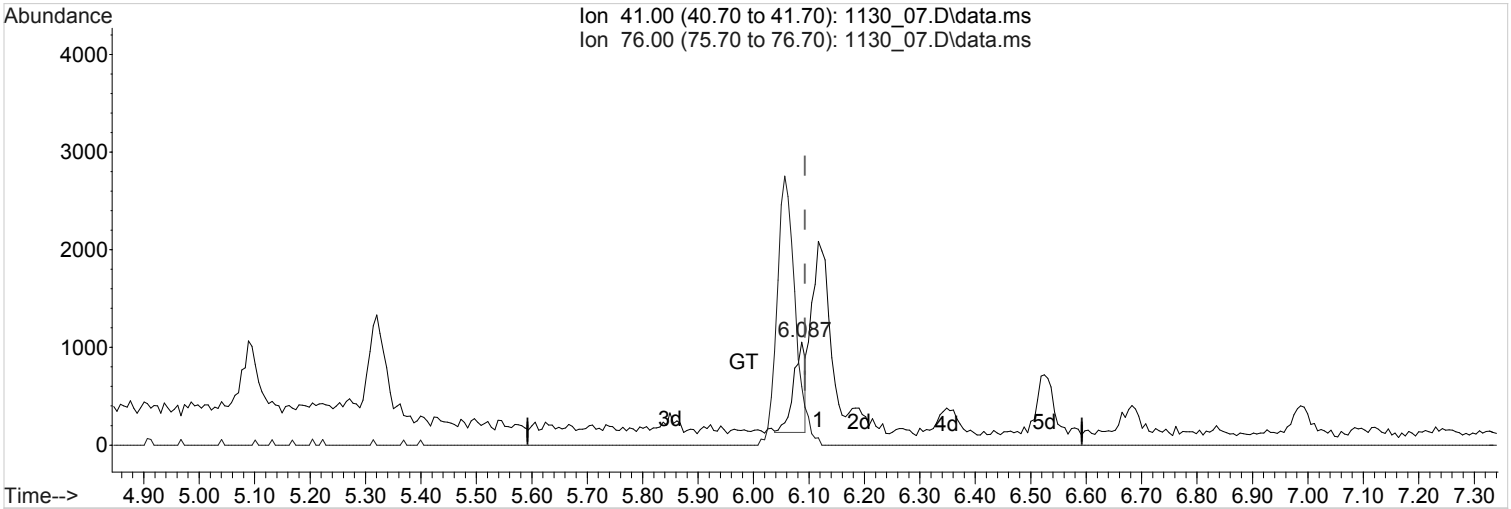
response 5842

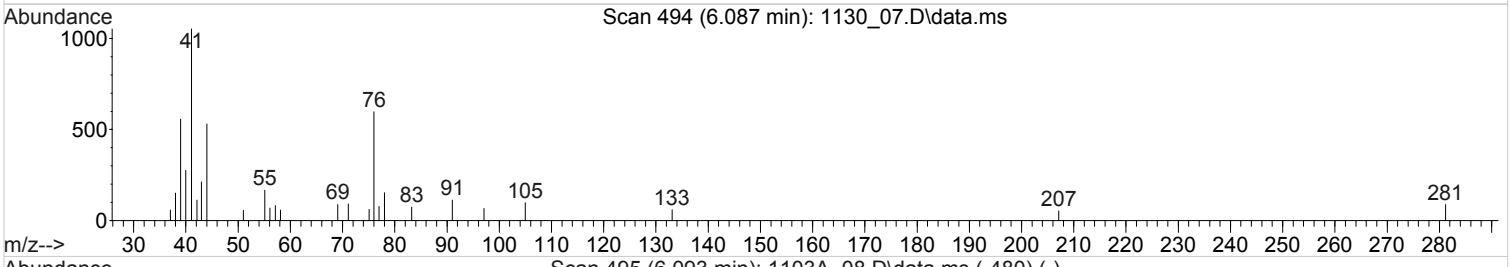
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	107.89#
0.00	0.00	0.00
0.00	0.00	0.00

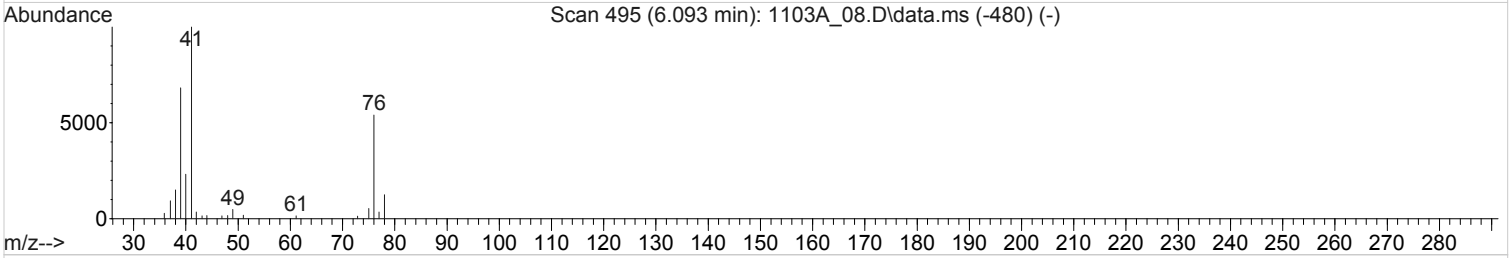
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration







TIC: 1130_07.D\data.ms

(25) Allyl Chloride (T,M)

6.087min (-0.006) 0.1449857 ppbv m

response 1349

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	467.23#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 01 08:06:55 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	100986	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	386606	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	337064	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	221861	4.0275611	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.69%			
Target Compounds						Qvalue
2) Propene	4.189	41	3286	0.3464187	ppbv	95
3) BUTANE	4.572	43	3465m	0.3576829	ppbv	
4) 1,1-DIFLUOROETHANE	4.183	51	2545	0.3176809	ppbv	97
5) Dichlorodifluoromethane	4.225	85	5356	0.3174249	ppbv	95
6) CHLORODIFLUOROMETHANE	4.243	51	2892	0.3116383	ppbv	97
7) 1,2-Dichlorotetrafluor...	4.371	85	5794	0.3168263	ppbv	98
8) Chloromethane	4.487	50	1886	0.3257030	ppbv	98
9) Vinyl Chloride	4.602	62	1788	0.3189497	ppbv #	82
10) 1,3-Butadiene	4.639	39	1309	0.3423914	ppbv	95
11) Bromomethane	4.992	94	1798	0.2950788	ppbv	88
12) Chloroethane	5.071	64	883	0.3213254	ppbv #	84
13) ISOPENTANE	5.095	43	2350	0.3246094	ppbv #	95
14) Vinyl Bromide	5.259	106	1853	0.3010799	ppbv	96
15) Trichlorofluoromethane	5.284	101	4311	0.3098872	ppbv	93
16) PENTANE	5.320	43	5635	0.3312811	ppbv	98
17) Ethanol	5.405	45	1550	0.3273906	ppbv	97
18) ACROLEIN	5.710	56	1036	0.3336445	ppbv	99
19) 1,1,2-Trichlorotrifluo...	5.697	101	4718	0.3138933	ppbv	95
20) 1,1-Dichloroethene	5.776	61	3358	0.3145631	ppbv	93
21) Acetone	5.825	43	3805	0.3015670	ppbv	90
22) BROMOETHANE	5.959	108	2048	0.3339067	ppbv	100
23) 2-Propanol	5.849	45	4280	0.3173934	ppbv	97
24) Carbon Disulfide	6.056	76	9321	0.3161705	ppbv #	91
25) Allyl Chloride	6.093	41	2952m	0.3684754	ppbv	
26) METHYL ACETATE	6.050	43	3828	0.3217750	ppbv #	93
27) ACETONITRILE	6.117	41	10273	1.5591196	ppbv #	89
28) Methylene Chloride	6.208	49	2481	0.3180110	ppbv	95
29) TERT-BUTYL ALCOHOL	6.184	59	3886	0.3127257	ppbv #	1
30) Methyl Tert-Butyl Ether	6.348	73	5324	0.3170059	ppbv	94
31) Trans-1,2-Dichloroethene	6.409	61	3315	0.3114929	ppbv	95
32) ACRYLONITRILE	6.440	53	1628	0.2897308	ppbv	91
33) n-Hexane	6.531	57	3217	0.3168761	ppbv	95
34) 1,1-Dichloroethane	6.792	63	4146	0.3163350	ppbv #	93
35) Vinyl Acetate	6.726	43	4965	0.3080158	ppbv	99
36) DI-ISOPROPYL ETHER	6.677	45	6270	0.3170077	ppbv	95
37) ETHYL TERT-BUTYL ETHER	6.981	59	6629	0.3167714	ppbv	100
38) ETHYL ACETATE	7.200	45	635	0.2660220	ppbv #	89
39) 2-Butanone (MEK)	7.237	72	983	0.2844900	ppbv #	55
40) cis-1,2-Dichloroethene	7.279	61	3149	0.3099121	ppbv	98
41) Tetrahydrofuran	7.516	42	2126	0.2845606	ppbv #	90
42) Chloroform	7.504	83	4500	0.3075549	ppbv	100
43) Cyclohexane	7.729	84	2463	0.2958604	ppbv	90
44) 1,1,1-Trichloroethane	7.699	97	4501	0.3054501	ppbv	96
45) Carbon Tetrachloride	7.833	117	4686	0.3092098	ppbv	99
46) 2,2,4-Trimethylpentane	7.942	57	10263	0.3090735	ppbv	96
48) Benzene	8.033	78	6826	0.3120549	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 01 08:06:55 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration

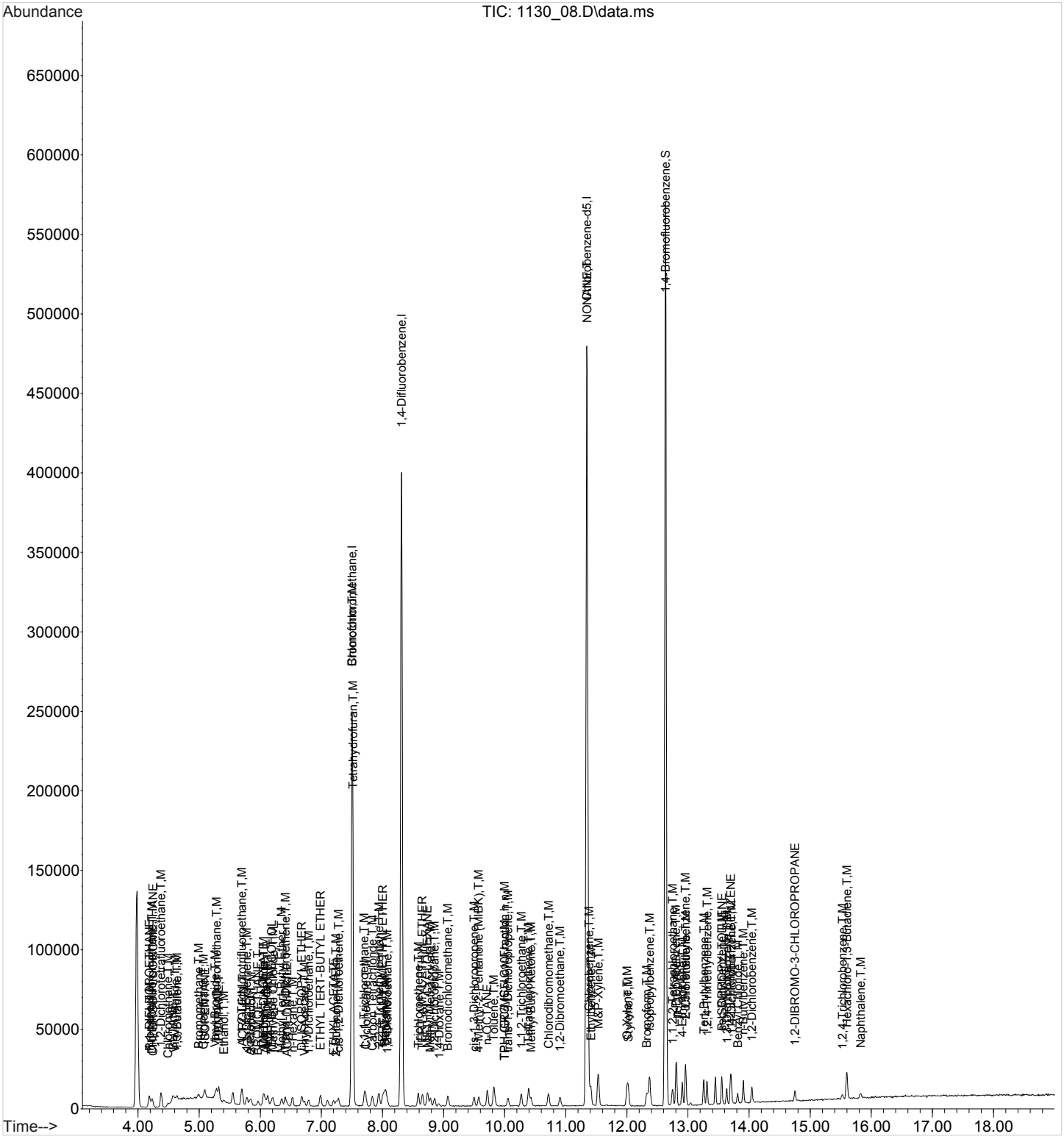
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	TERT-AMYL METHYL ETHER	8.003	73	6547	0.3052238	ppbv		95
50)	1,2-Dichloroethane	8.082	62	2372	0.3051988	ppbv		94
51)	Heptane	8.058	43	3632	0.2936807	ppbv		97
52)	Trichloroethene	8.587	95	3194	0.3041746	ppbv		99
53)	TERT-AMYL ETHYL ETHER	8.648	73	2304	0.3012031	ppbv		91
54)	METHYL CYCLOHEXANE	8.733	83	4486	0.2977917	ppbv		99
55)	1,2-Dichloropropane	8.849	63	2541	0.2852030	ppbv		94
56)	Methyl Methacrylate	8.782	41	2735	0.2718481	ppbv	#	84
57)	1,4-Dioxane	8.928	88	1300	0.2966514	ppbv		91
58)	Bromodichloromethane	9.068	83	5125	0.3085427	ppbv		96
59)	cis-1,3-Dichloropropene	9.500	75	4071	0.2979850	ppbv		98
60)	4-Methyl-2-Pentanone (...	9.573	43	4768	0.3096041	ppbv		97
61)	n-OCTANE	9.713	43	5739	0.3054403	ppbv		99
62)	Toluene	9.822	91	8614	0.3067566	ppbv		96
63)	trans-1,3-Dichloropropene	10.053	75	3547	0.2881663	ppbv		95
64)	1,1,2-Trichloroethane	10.272	97	3196	0.3102876	ppbv		98
65)	Tetrachloroethene	10.388	166	4283	0.3131691	ppbv		98
66)	Methyl Butyl Ketone	10.430	43	4405	0.3098249	ppbv	#	95
67)	Chlorodibromomethane	10.716	129	5510	0.2931112	ppbv		99
68)	1,2-Dibromoethane	10.905	107	4829	0.2951134	ppbv		99
69)	Chlorobenzene	11.379	112	5985	0.2933498	ppbv	#	56
70)	NONANE	11.349	43	6126	0.2945375	ppbv		95
72)	Ethylbenzene	11.410	91	10024	0.3159181	ppbv		96
73)	M&P-Xylene	11.532	91	15480	0.6173920	ppbv		100
74)	O-Xylene	12.000	91	7785	0.2920765	ppbv		100
77)	Styrene	12.024	104	6103	0.2885527	ppbv		93
78)	Bromoform	12.322	173	5201	0.2966660	ppbv		100
79)	Isopropylbenzene	12.371	105	11094	0.3107538	ppbv		97
80)	n-DECANE	12.809	43	5393	0.3102707	ppbv		99
81)	1,1,2,2-Tetrachloroethane	12.748	83	6379	0.2983302	ppbv		98
82)	n-Propylbenzene	12.803	91	12291	0.2988857	ppbv		100
83)	4-Ethyltoluene	12.906	105	10044	0.3043022	ppbv		97
84)	2-Chlorotoluene	12.961	126	2643	0.3159361	ppbv		99
86)	1,3,5-Trimethylbenzene	12.955	105	8673	0.3103314	ppbv		100
87)	Tert-Butylbenzene	13.259	119	7966	0.3153529	ppbv		99
88)	1,2,4-Trimethylbenzene	13.314	105	8578	0.3211666	ppbv		97
89)	sec-Butylbenzene	13.551	134	2392	0.3106236	ppbv		97
90)	1,3-Dichlorobenzene	13.636	146	4070	0.2640202	ppbv		99
91)	P-ISOPROPYLTOLUENE	13.551	119	9652	0.3082226	ppbv		98
92)	1,4-Dichlorobenzene	13.709	146	3702	0.2567520	ppbv	#	96
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	8286	0.3108434	ppbv		98
94)	Benzyl Chloride	13.813	91	4474	0.2668592	ppbv		100
95)	n-Butylbenzene	13.904	91	8450	0.2898971	ppbv		99
96)	1,2-Dichlorobenzene	14.044	146	4522	0.2910040	ppbv		99
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	2019	0.2691336	ppbv		97
98)	1,2,4-Trichlorobenzene	15.528	180	1432	0.2347684	ppbv		91
99)	Hexachloro-1,3-Butadiene	15.601	225	4366	0.2968829	ppbv		98
100)	Naphthalene	15.827	128	3678	0.2366256	ppbv		98
101)	TPH (GC/MS) Low Fraction	10.000	TIC	1005953m	14.6054816	ppbv		
102)	TPH-GRO (C5-C10)	10.000	TIC	1580427m	24.3933184	ppbv		

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

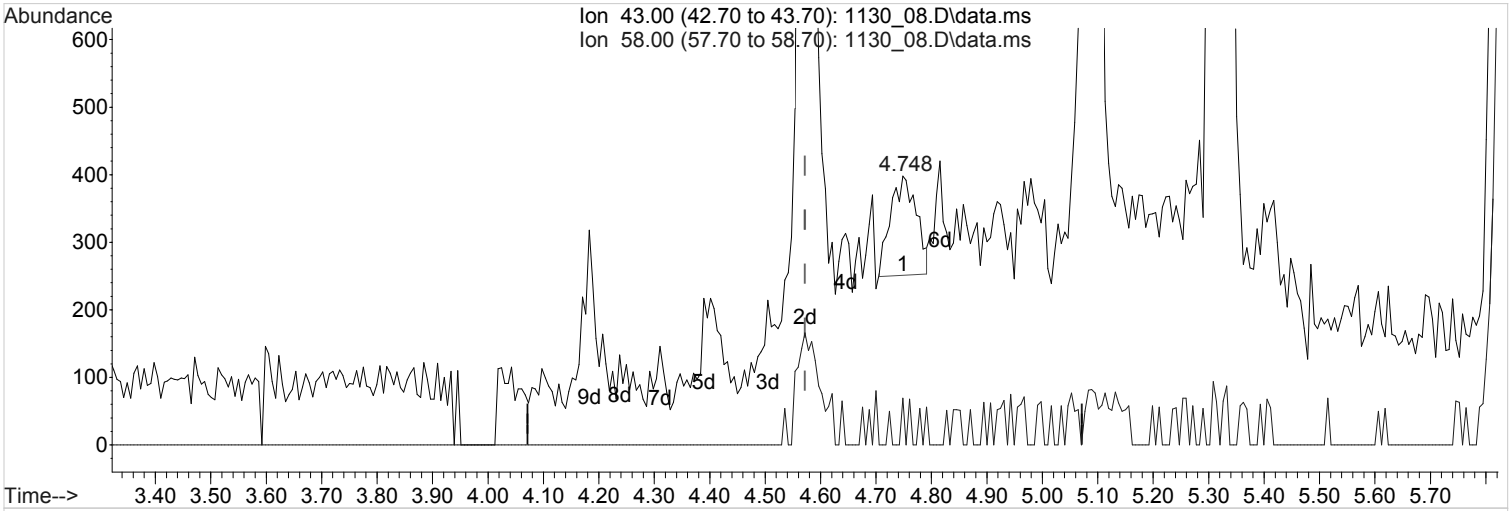
Quant Time: Dec 01 08:06:55 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration

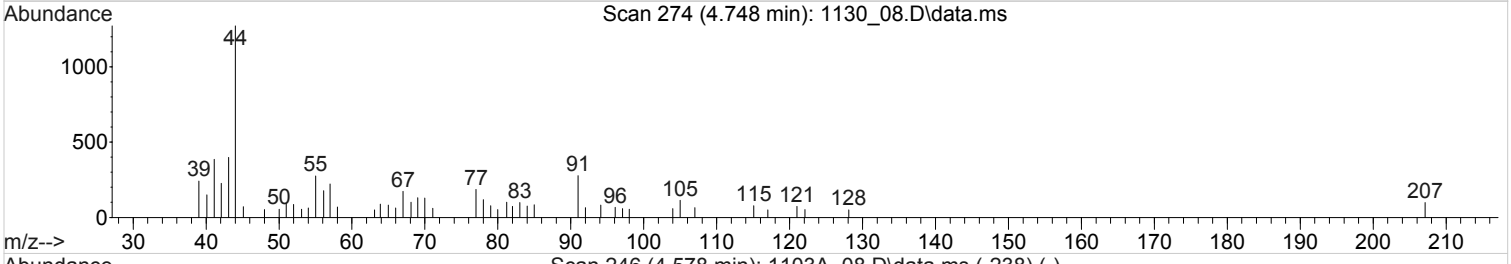


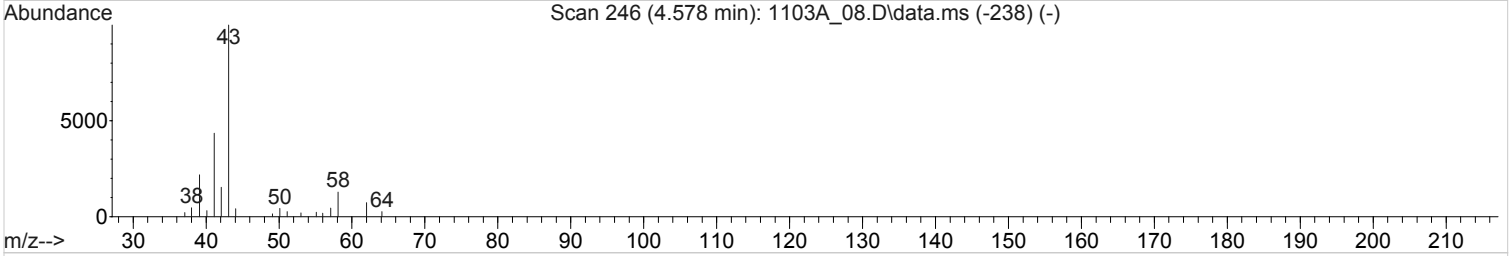
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 01 08:05:37 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration







TIC: 1130_08.D\data.ms

(3) BUTANE (T)

4.748min (+0.177) 0.0491362 ppbv

Qvalue = 99

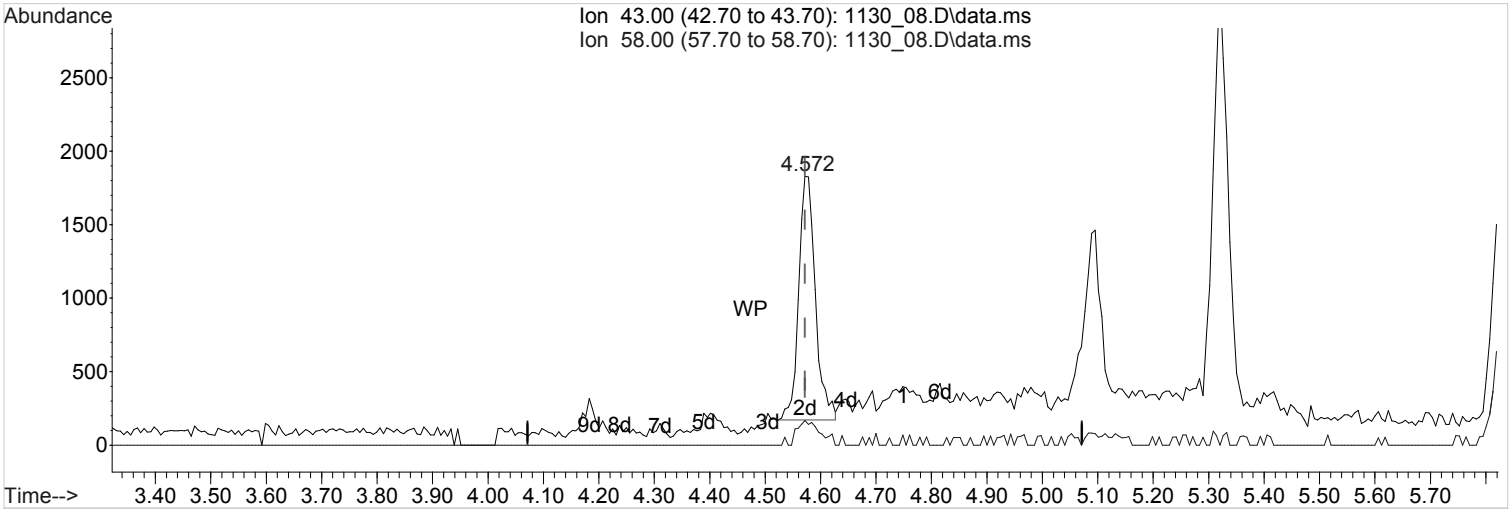
response 476

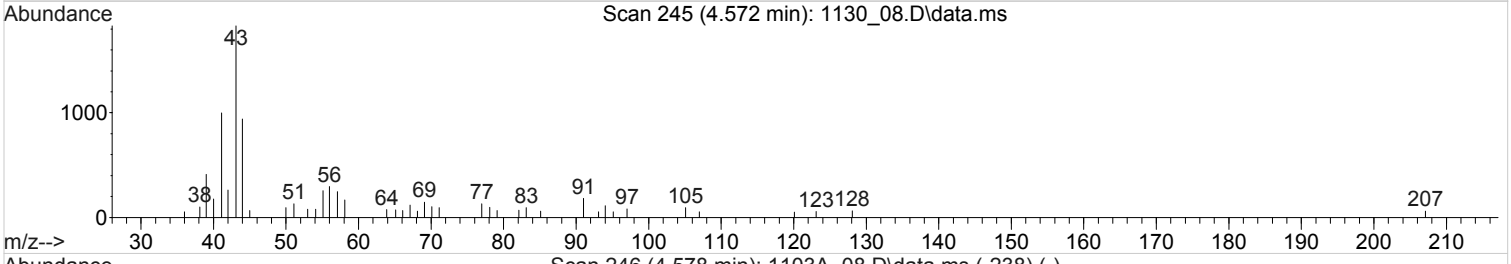
Ion	Exp%	Act%
43.00	100	100
58.00	10.00	10.50
0.00	0.00	0.00
0.00	0.00	0.00

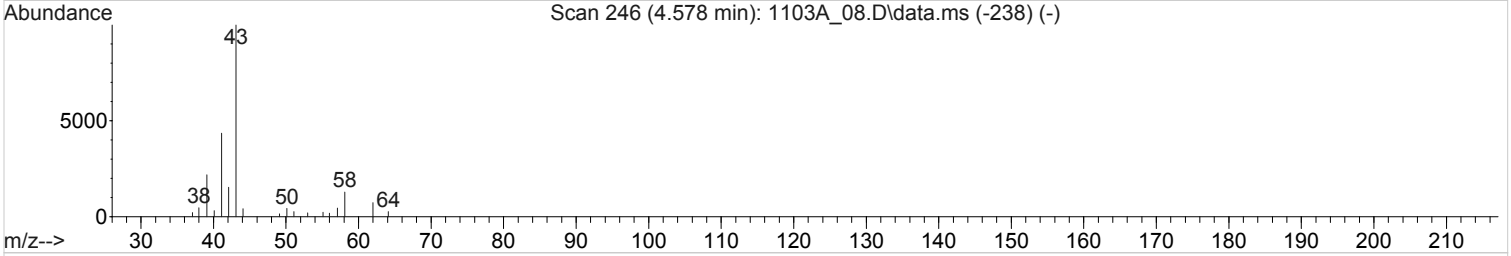
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 01 08:05:37 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration







TIC: 1130_08.D\data.ms

(3) BUTANE (T)

4.572min (+0.000) 0.3576829 ppbv m

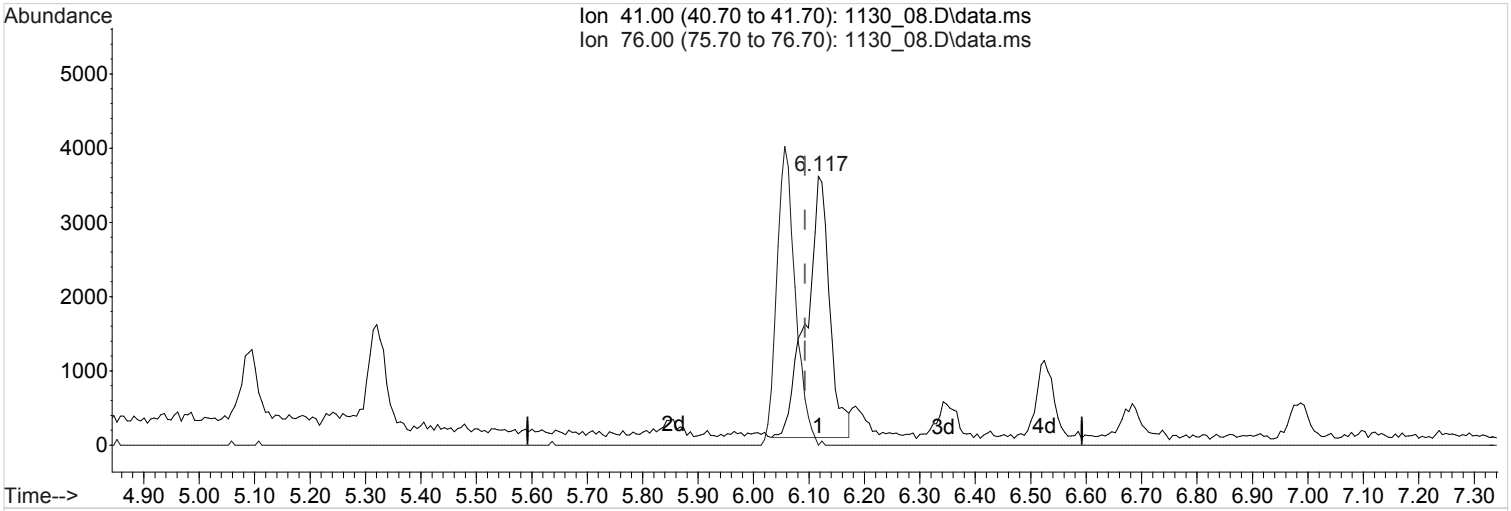
response 3465

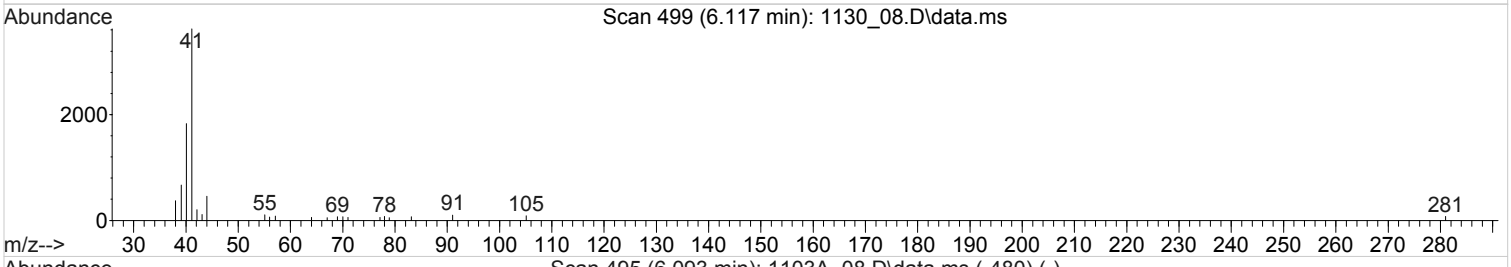
Ion	Exp%	Act%
43.00	100	100
58.00	10.00	1.44#
0.00	0.00	0.00
0.00	0.00	0.00

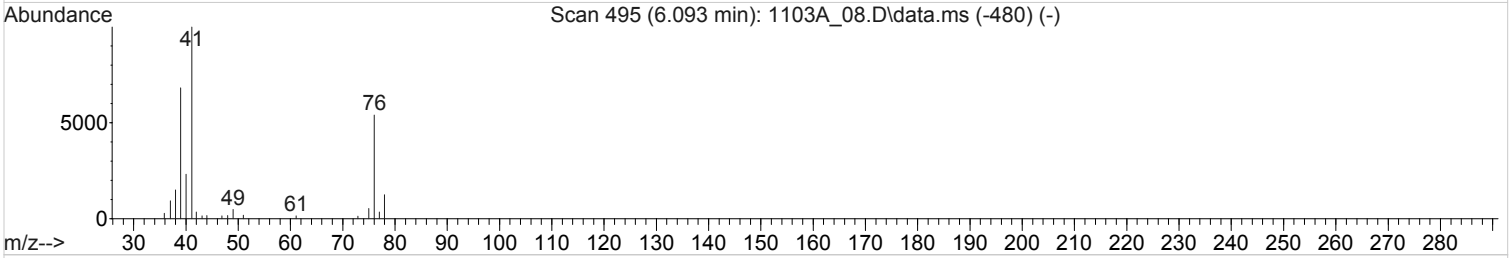
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 01 08:05:37 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration







TIC: 1130_08.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.025) 1.2822994 ppbv

Qvalue = 1

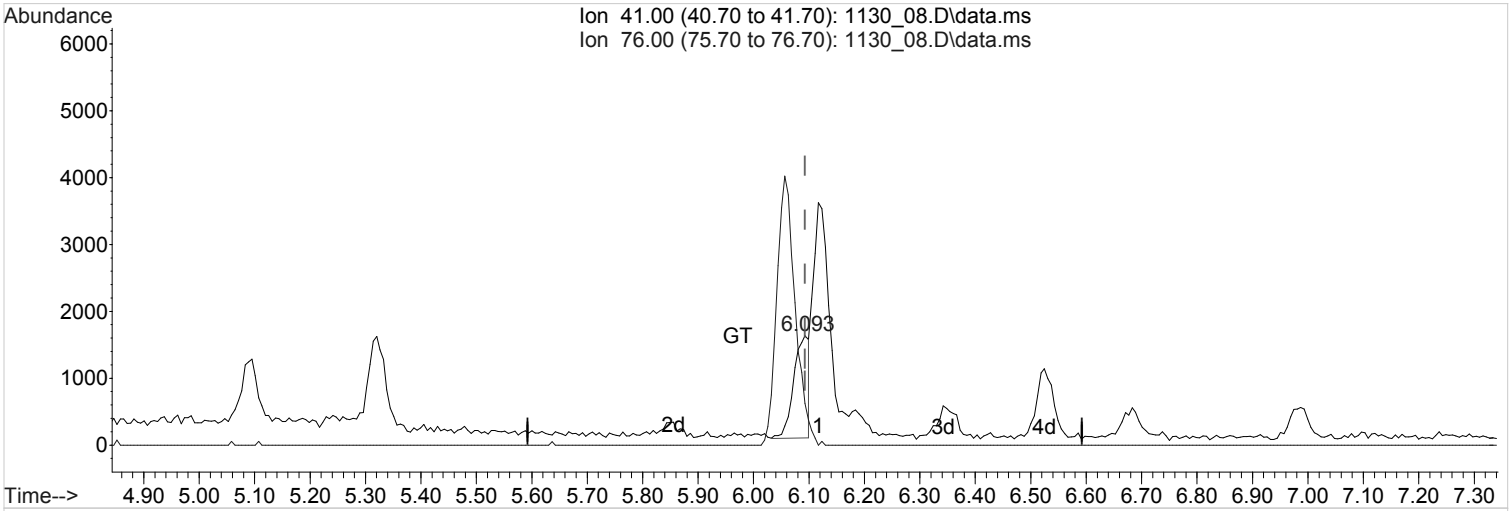
response 10273

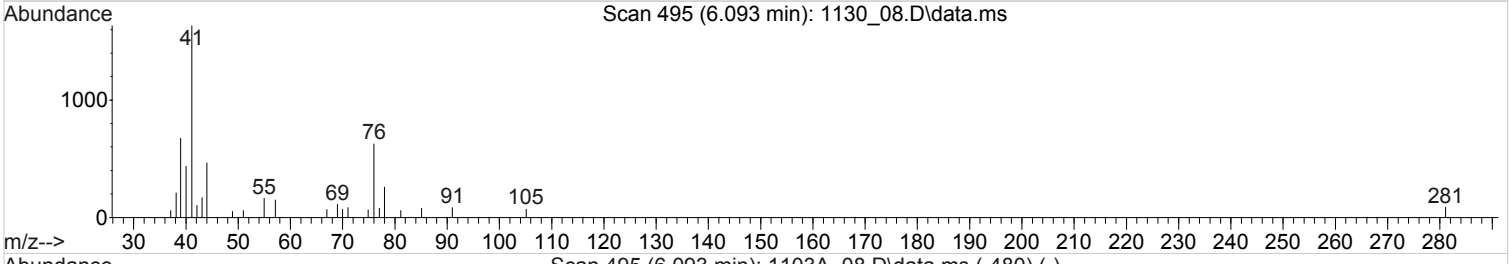
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	90.73#
0.00	0.00	0.00
0.00	0.00	0.00

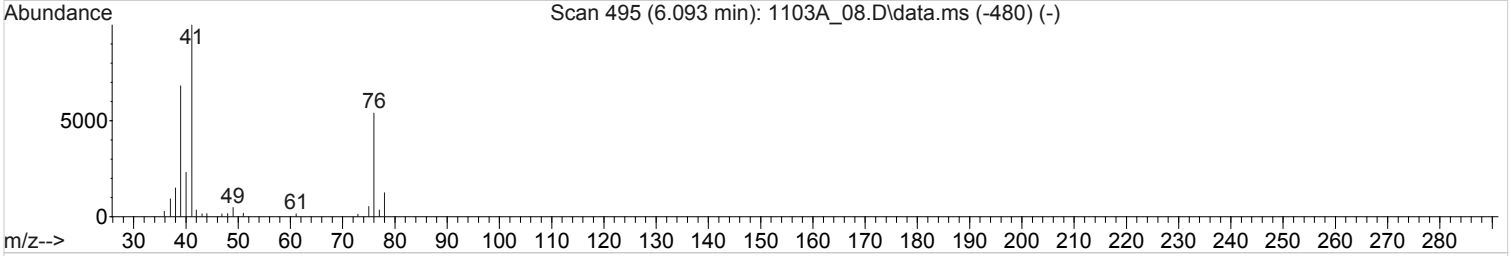
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 01 08:05:37 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration







TIC: 1130_08.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 0.3684754 ppbv m

response 2952

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	315.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_09.D
Acq On : 30 Nov 2022 8:09 pm
Operator :
Sample : STD AMS 0.63 ppbv 22K29457
Misc : 22K22745
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 01 08:08:13 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:07:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	101168	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	380143	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	344670	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	224426	3.9750894	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 99.38%				
Target Compounds							Qvalue
2) Propene	4.182	41	4871	0.4932732	ppbv		96
3) BUTANE	4.578	43	6526	0.6396538	ppbv		100
4) 1,1-DIFLUOROETHANE	4.182	51	5053	0.6244512	ppbv		99
5) Dichlorodifluoromethane	4.225	85	10876	0.6383135	ppbv		99
6) CHLORODIFLUOROMETHANE	4.243	51	6150	0.6603608	ppbv		98
7) 1,2-Dichlorotetrafluor...	4.377	85	12044	0.6526125	ppbv		99
8) Chloromethane	4.487	50	3878	0.6574066	ppbv		96
9) Vinyl Chloride	4.602	62	3952	0.6969960	ppbv		93
10) 1,3-Butadiene	4.633	39	2736	0.6903169	ppbv		98
11) Bromomethane	4.992	94	3703	0.6165163	ppbv		91
12) Chloroethane	5.071	64	1681	0.6032721	ppbv	#	81
13) ISOPENTANE	5.089	43	4259	0.5781620	ppbv		98
14) Vinyl Bromide	5.259	106	3788	0.6203260	ppbv		98
15) Trichlorofluoromethane	5.284	101	9272	0.6653799	ppbv		99
16) PENTANE	5.320	43	8628	0.4949997	ppbv	#	94
17) Ethanol	5.405	45	2651	0.5486761	ppbv		97
18) ACROLEIN	5.709	56	1982	0.6213586	ppbv		98
19) 1,1,2-Trichlorotrifluo...	5.697	101	9969	0.6592944	ppbv		97
20) 1,1-Dichloroethene	5.782	61	6918	0.6437245	ppbv		99
21) Acetone	5.825	43	7494	0.5982971	ppbv		99
22) BROMOETHANE	5.959	108	4229	0.6710083	ppbv		99
23) 2-Propanol	5.843	45	8057	0.5917068	ppbv		99
24) Carbon Disulfide	6.056	76	17770	0.5977124	ppbv		97
25) Allyl Chloride	6.087	41	4057m	0.4755895	ppbv		
26) METHYL ACETATE	6.050	43	7932	0.6572293	ppbv	#	99
27) ACETONITRILE	6.117	41	21413	3.2376266	ppbv	#	90
28) Methylene Chloride	6.208	49	4963	0.6295826	ppbv		98
29) TERT-BUTYL ALCOHOL	6.178	59	8040	0.6439674	ppbv		98
30) Methyl Tert-Butyl Ether	6.348	73	11142	0.6572810	ppbv		99
31) Trans-1,2-Dichloroethene	6.403	61	6975	0.6531760	ppbv		95
32) ACRYLONITRILE	6.433	53	3745	0.6801115	ppbv		95
33) n-Hexane	6.525	57	6421	0.6267003	ppbv		95
34) 1,1-Dichloroethane	6.786	63	8617	0.6518441	ppbv	#	91
35) Vinyl Acetate	6.719	43	10582	0.6567001	ppbv		99
36) DI-ISOPROPYL ETHER	6.677	45	13189	0.6606507	ppbv		98
37) ETHYL TERT-BUTYL ETHER	6.981	59	14162	0.6706406	ppbv		99
38) ETHYL ACETATE	7.200	45	1610	0.7066854	ppbv		72
39) 2-Butanone (MEK)	7.242	72	2064	0.6130845	ppbv		88
40) cis-1,2-Dichloroethene	7.279	61	6819	0.6699550	ppbv		99
41) Tetrahydrofuran	7.522	42	4498	0.6178659	ppbv		96
42) Chloroform	7.504	83	9738	0.6661028	ppbv		98
43) Cyclohexane	7.723	84	5263	0.6408073	ppbv		98
44) 1,1,1-Trichloroethane	7.705	97	9516	0.6477890	ppbv		98
45) Carbon Tetrachloride	7.839	117	10194	0.6720209	ppbv		98
46) 2,2,4-Trimethylpentane	7.942	57	21403	0.6440402	ppbv		97
48) Benzene	8.033	78	14207	0.6590679	ppbv		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_09.D
Acq On : 30 Nov 2022 8:09 pm
Operator :
Sample : STD AMS 0.63 ppbv 22K29457
Misc : 22K22745
ALS Vial : 9 Sample Multiplier: 1

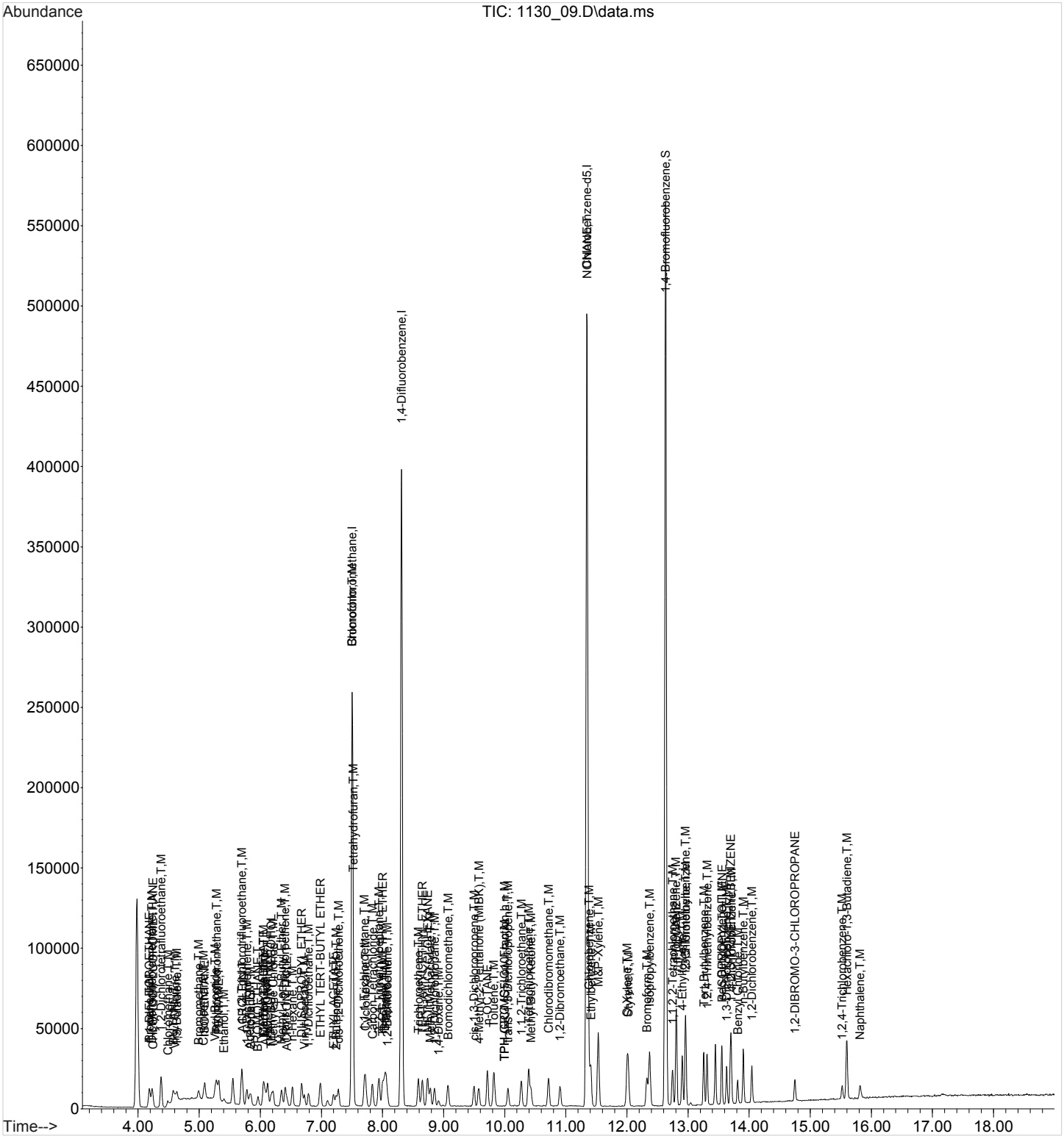
Quant Time: Dec 01 08:08:13 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:07:04 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	TERT-AMYL METHYL ETHER	8.003	73	13765	0.6560094	ppbv		97
50)	1,2-Dichloroethane	8.082	62	5267	0.6927890	ppbv		94
51)	Heptane	8.058	43	7985	0.6683664	ppbv		98
52)	Trichloroethene	8.587	95	6664	0.6494916	ppbv		97
53)	TERT-AMYL ETHYL ETHER	8.654	73	4654	0.6246727	ppbv		94
54)	METHYL CYCLOHEXANE	8.739	83	9039	0.6183496	ppbv		96
55)	1,2-Dichloropropane	8.855	63	5878	0.6893465	ppbv		99
56)	Methyl Methacrylate	8.782	41	5945	0.6266636	ppbv		89
57)	1,4-Dioxane	8.915	88	2851	0.6712753	ppbv	#	93
58)	Bromodichloromethane	9.074	83	10467	0.6418689	ppbv		98
59)	cis-1,3-Dichloropropene	9.499	75	8961	0.6758009	ppbv		93
60)	4-Methyl-2-Pentanone (...	9.579	43	9790	0.6467846	ppbv		99
61)	n-OCTANE	9.718	43	12073	0.6566916	ppbv		97
62)	Toluene	9.822	91	17687	0.6428092	ppbv		98
63)	trans-1,3-Dichloropropene	10.053	75	7768	0.6572496	ppbv		94
64)	1,1,2-Trichloroethane	10.272	97	6565	0.6480069	ppbv		98
65)	Tetrachloroethene	10.394	166	8717	0.6460142	ppbv		98
66)	Methyl Butyl Ketone	10.430	43	8713	0.6233636	ppbv		100
67)	Chlorodibromomethane	10.716	129	11951	0.6585153	ppbv		99
68)	1,2-Dibromoethane	10.905	107	10568	0.6675044	ppbv		99
69)	Chlorobenzene	11.379	112	13323	0.6762248	ppbv	#	80
70)	NONANE	11.349	43	12721	0.6325399	ppbv		98
72)	Ethylbenzene	11.410	91	21160	0.6480419	ppbv		100
73)	M&P-Xylene	11.531	91	33351	1.3026183	ppbv		99
74)	O-Xylene	12.000	91	17048	0.6377816	ppbv		100
77)	Styrene	12.024	104	13770	0.6517146	ppbv		99
78)	Bromoform	12.328	173	11494	0.6504783	ppbv		99
79)	Isopropylbenzene	12.371	105	23621	0.6465224	ppbv		99
80)	n-DECANE	12.809	43	11172	0.6283820	ppbv		99
81)	1,1,2,2-Tetrachloroethane	12.748	83	13717	0.6353261	ppbv		99
82)	n-Propylbenzene	12.803	91	26473	0.6371643	ppbv		99
83)	4-Ethyltoluene	12.906	105	21404	0.6380742	ppbv		100
84)	2-Chlorotoluene	12.961	126	5899	0.6852138	ppbv		95
86)	1,3,5-Trimethylbenzene	12.955	105	18714	0.6546018	ppbv		99
87)	Tert-Butylbenzene	13.259	119	16834	0.6479779	ppbv		98
88)	1,2,4-Trimethylbenzene	13.314	105	17962	0.6498668	ppbv		99
89)	sec-Butylbenzene	13.551	134	5090	0.6459648	ppbv		98
90)	1,3-Dichlorobenzene	13.630	146	9688	0.6465566	ppbv		99
91)	P-ISOPROPYLTOLUENE	13.557	119	20686	0.6472371	ppbv		99
92)	1,4-Dichlorobenzene	13.709	146	9144	0.6578527	ppbv		98
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	17788	0.6519872	ppbv		99
94)	Benzyl Chloride	13.813	91	10194	0.6235453	ppbv		100
95)	n-Butylbenzene	13.904	91	18974	0.6506473	ppbv		100
96)	1,2-Dichlorobenzene	14.044	146	9646	0.6197082	ppbv		100
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	4483	0.6112588	ppbv		96
98)	1,2,4-Trichlorobenzene	15.522	180	3391	0.5915177	ppbv		99
99)	Hexachloro-1,3-Butadiene	15.601	225	9205	0.6208736	ppbv		100
100)	Naphthalene	15.814	128	8769	0.5989641	ppbv		100
101)	TPH (GC/MS) Low Fraction	10.000	TIC	1965316m	29.3771180	ppbv		
102)	TPH-GRO (C5-C10)	10.000	TIC	2576757m	38.8546101	ppbv		

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

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_09.D
Acq On : 30 Nov 2022 8:09 pm
Operator :
Sample : STD AMS 0.63 ppbv 22K29457
Misc : 22K22745
ALS Vial : 9 Sample Multiplier: 1

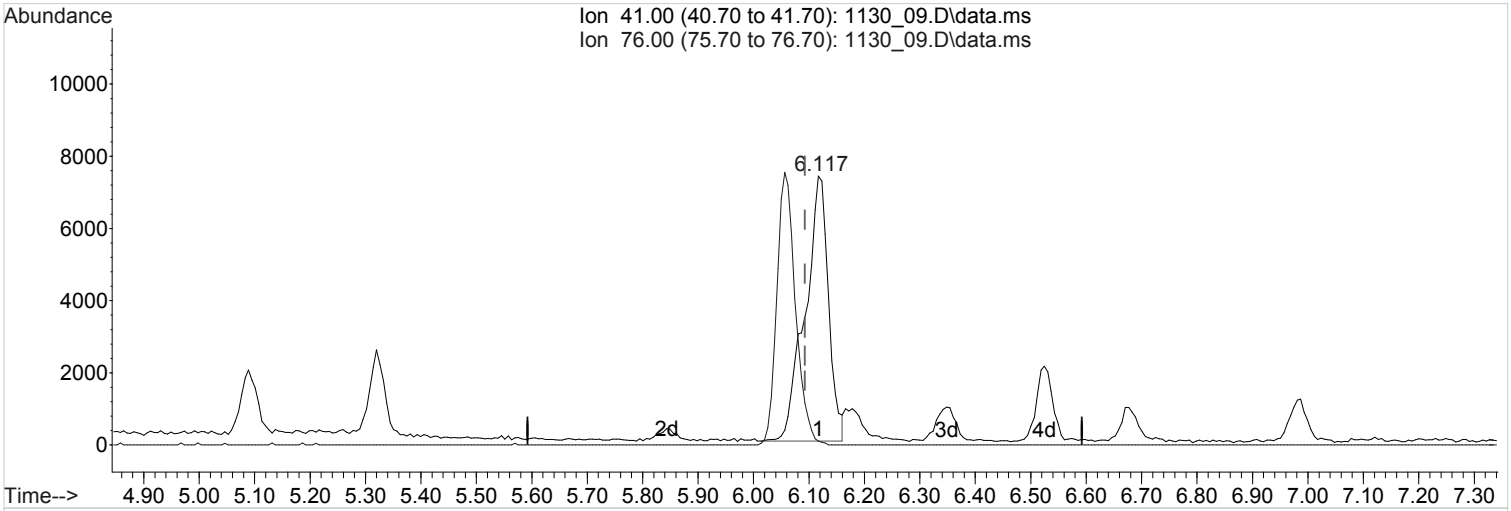
Quant Time: Dec 01 08:08:13 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:07:04 2022
Response via : Initial Calibration

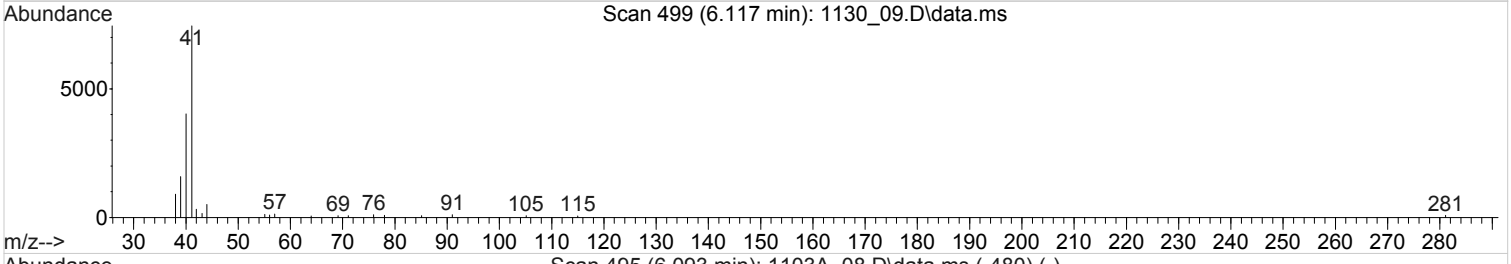


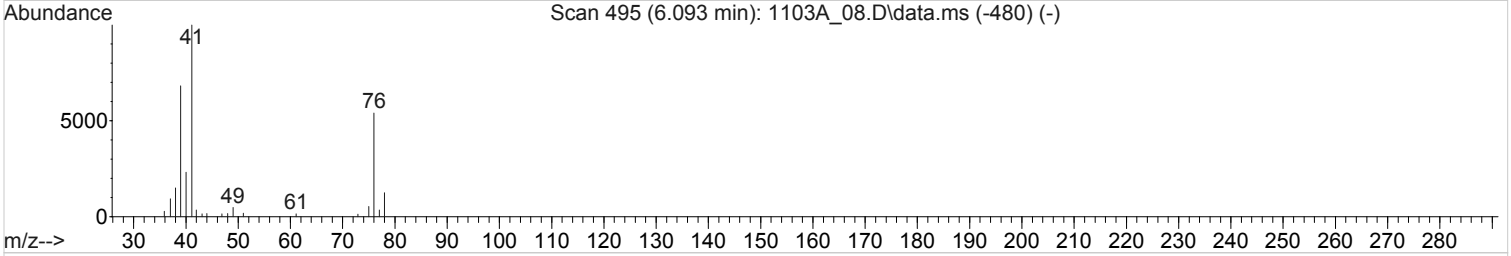
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_09.D
Acq On : 30 Nov 2022 8:09 pm
Operator :
Sample : STD AMS 0.63 ppbv 22K29457
Misc : 22K22745
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 01 08:07:09 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:07:04 2022
Response via : Initial Calibration







TIC: 1130_09.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 2.5101794 ppbv

Qvalue = 1

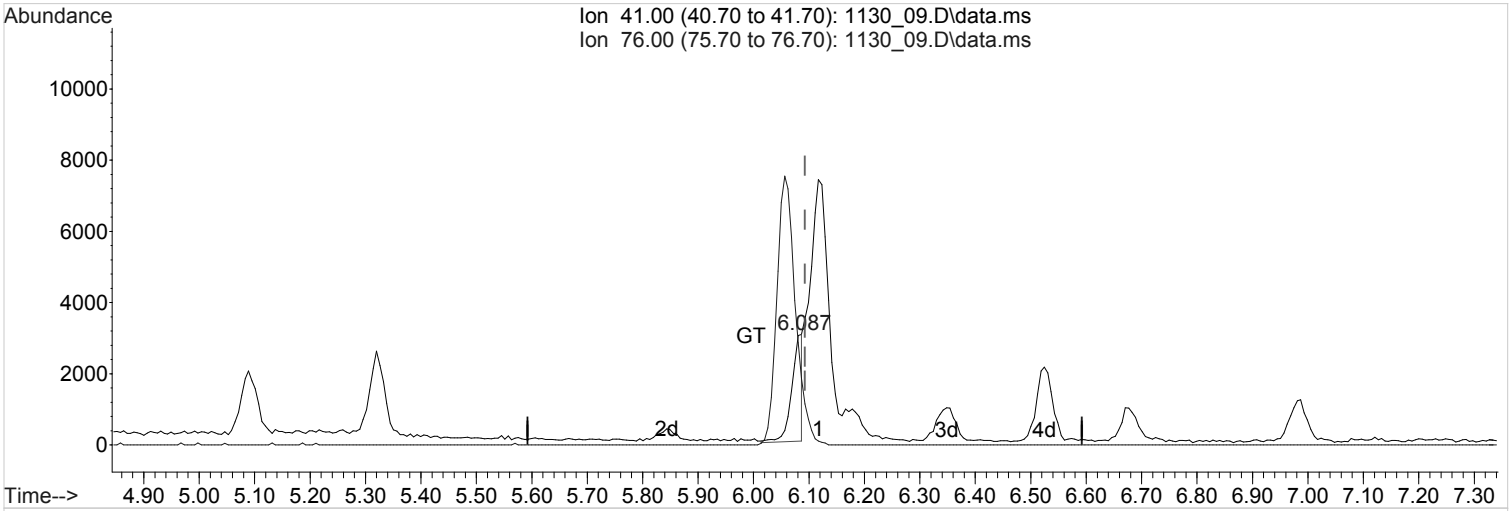
response 21413

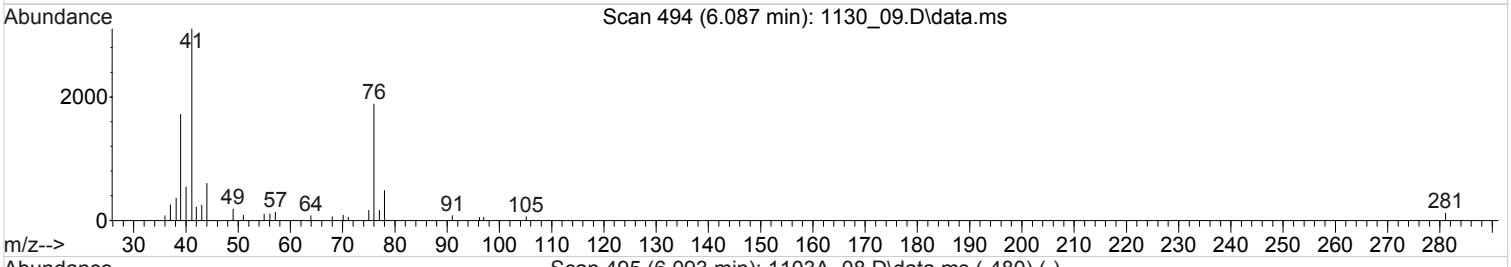
Ion	Exp%	Act%
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76.00	292.30	82.99#
0.00	0.00	0.00
0.00	0.00	0.00

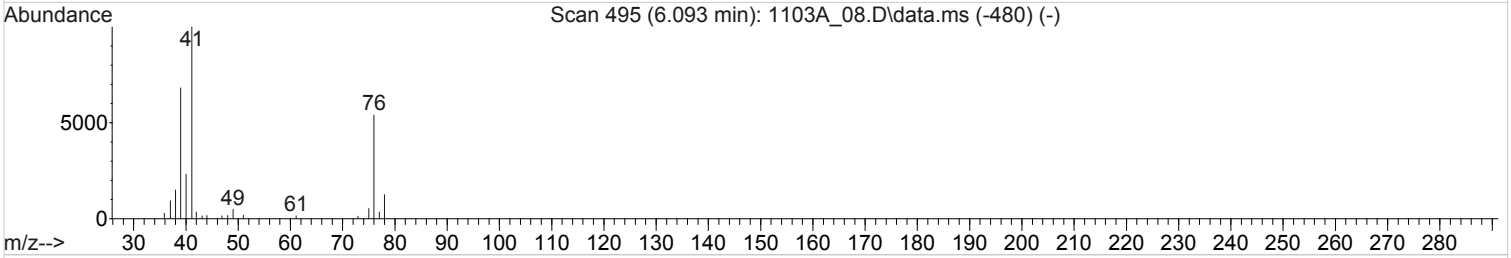
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_09.D
Acq On : 30 Nov 2022 8:09 pm
Operator :
Sample : STD AMS 0.63 ppbv 22K29457
Misc : 22K22745
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 01 08:07:09 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:07:04 2022
Response via : Initial Calibration







TIC: 1130_09.D\data.ms

(25) Allyl Chloride (T,M)

6.087min (-0.006) 0.4755895 ppbv m

response 4057

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	438.01#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_10.D
Acq On : 30 Nov 2022 8:50 pm
Operator :
Sample : STD AMS 1.25 ppbv 22K29457
Misc : 22K22745
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 01 08:09:27 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:08:22 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	99744	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	376807	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.349	117	343075	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.632	95	226149	4.0305054	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.76%				
Target Compounds							Qvalue
2) Propene	4.182	41	8376	0.9096811	ppbv		98
3) BUTANE	4.572	43	12674	1.2551841	ppbv		97
4) 1,1-DIFLUOROETHANE	4.182	51	9983	1.2540765	ppbv		98
5) Dichlorodifluoromethane	4.225	85	22231	1.3190153	ppbv		98
6) CHLORODIFLUOROMETHANE	4.243	51	11938	1.2846743	ppbv		98
7) 1,2-Dichlorotetrafluor...	4.371	85	23767	1.2946004	ppbv		100
8) Chloromethane	4.487	50	7833	1.3323338	ppbv		99
9) Vinyl Chloride	4.602	62	7536	1.3131532	ppbv		97
10) 1,3-Butadiene	4.633	39	5400	1.3496154	ppbv		91
11) Bromomethane	4.992	94	7074	1.2009980	ppbv		95
12) Chloroethane	5.071	64	3125	1.1496955	ppbv		95
13) ISOPENTANE	5.089	43	7325	1.0297523	ppbv	#	88
14) Vinyl Bromide	5.259	106	7361	1.2273647	ppbv		97
15) Trichlorofluoromethane	5.284	101	18410	1.3214523	ppbv		100
16) PENTANE	5.320	43	15260	0.9382486	ppbv		98
17) Ethanol	5.405	45	4477	0.9711722	ppbv		97
18) ACROLEIN	5.709	56	3701	1.1808805	ppbv		100
19) 1,1,2-Trichlorotrifluo...	5.697	101	20012	1.3269520	ppbv		99
20) 1,1-Dichloroethene	5.776	61	14356	1.3475672	ppbv		100
21) Acetone	5.825	43	13812	1.1326989	ppbv		99
22) BROMOETHANE	5.965	108	8348	1.3219609	ppbv		99
23) 2-Propanol	5.843	45	15614	1.1810106	ppbv		96
24) Carbon Disulfide	6.056	76	34129	1.1794653	ppbv		99
25) Allyl Chloride	6.087	41	7679m	0.9726340	ppbv		
26) METHYL ACETATE	6.050	43	15654	1.3015127	ppbv	#	100
27) ACETONITRILE	6.117	41	42855	6.5267546	ppbv	#	92
28) Methylene Chloride	6.208	49	9530	1.2263930	ppbv		95
29) TERT-BUTYL ALCOHOL	6.178	59	16623	1.3429911	ppbv	#	1
30) Methyl Tert-Butyl Ether	6.342	73	22258	1.3175106	ppbv		99
31) Trans-1,2-Dichloroethene	6.403	61	14139	1.3307155	ppbv		99
32) ACRYLONITRILE	6.433	53	7428	1.3415447	ppbv		98
33) n-Hexane	6.525	57	13569	1.3450255	ppbv		99
34) 1,1-Dichloroethane	6.786	63	17343	1.3192281	ppbv		98
35) Vinyl Acetate	6.719	43	20879	1.3004335	ppbv		99
36) DI-ISOPROPYL ETHER	6.677	45	26807	1.3455944	ppbv		98
37) ETHYL TERT-BUTYL ETHER	6.981	59	28078	1.3272102	ppbv		99
38) ETHYL ACETATE	7.200	45	2664	1.1509914	ppbv		95
39) 2-Butanone (MEK)	7.242	72	4320	1.3103153	ppbv		98
40) cis-1,2-Dichloroethene	7.279	61	13567	1.3308630	ppbv		98
41) Tetrahydrofuran	7.516	42	8797	1.2315781	ppbv		99
42) Chloroform	7.504	83	18338	1.2543019	ppbv		99
43) Cyclohexane	7.723	84	10198	1.2540272	ppbv		99
44) 1,1,1-Trichloroethane	7.705	97	18727	1.2839520	ppbv		98
45) Carbon Tetrachloride	7.833	117	20402	1.3417918	ppbv		99
46) 2,2,4-Trimethylpentane	7.942	57	43107	1.3083669	ppbv		98
48) Benzene	8.033	78	27586	1.2763321	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_10.D
Acq On : 30 Nov 2022 8:50 pm
Operator :
Sample : STD AMS 1.25 ppbv 22K29457
Misc : 22K22745
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 01 08:09:27 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:08:22 2022
Response via : Initial Calibration

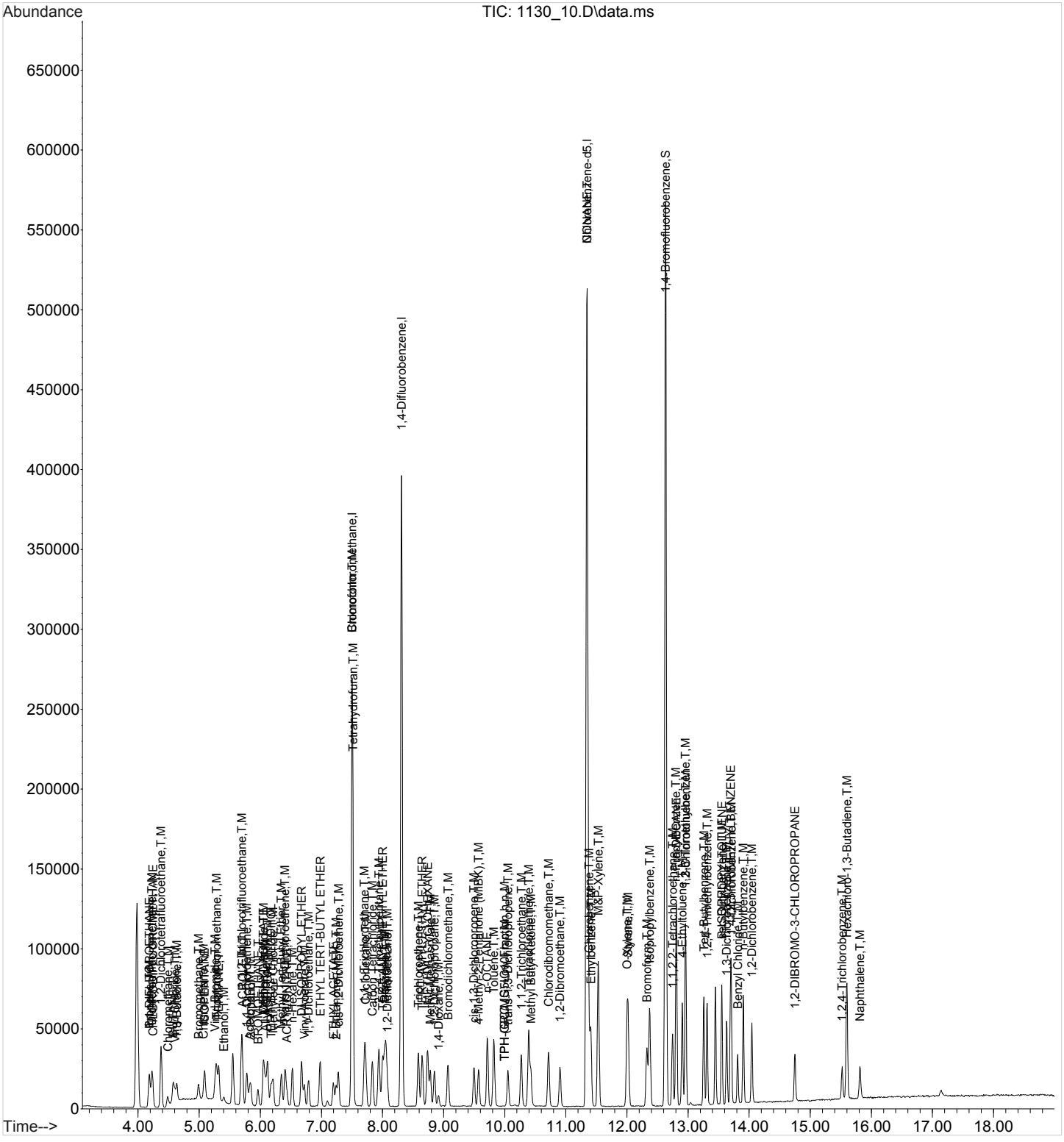
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	TERT-AMYL METHYL ETHER	8.003	73	27312	1.2997383	ppbv		98
50)	1,2-Dichloroethane	8.082	62	10608	1.3734436	ppbv		98
51)	Heptane	8.058	43	15145	1.2597222	ppbv		99
52)	Trichloroethene	8.587	95	13389	1.3063769	ppbv		99
53)	TERT-AMYL ETHYL ETHER	8.648	73	9015	1.2233169	ppbv		96
54)	METHYL CYCLOHEXANE	8.739	83	17950	1.2445681	ppbv		98
55)	1,2-Dichloropropane	8.848	63	11668	1.3487246	ppbv		99
56)	Methyl Methacrylate	8.782	41	12466	1.3274345	ppbv		98
57)	1,4-Dioxane	8.915	88	5656	1.3218591	ppbv		96
58)	Bromodichloromethane	9.074	83	20544	1.2650173	ppbv		97
59)	cis-1,3-Dichloropropene	9.493	75	17836	1.3328012	ppbv		98
60)	4-Methyl-2-Pentanone (...	9.572	43	19420	1.2857933	ppbv		100
61)	n-OCTANE	9.712	43	24117	1.3095491	ppbv		99
62)	Toluene	9.822	91	35909	1.3099578	ppbv		100
63)	trans-1,3-Dichloropropene	10.053	75	15395	1.3000435	ppbv		97
64)	1,1,2-Trichloroethane	10.272	97	13057	1.2909936	ppbv		99
65)	Tetrachloroethene	10.394	166	17603	1.3077918	ppbv		100
66)	Methyl Butyl Ketone	10.430	43	17552	1.2702044	ppbv		99
67)	Chlorodibromomethane	10.716	129	23877	1.3124499	ppbv		100
68)	1,2-Dibromoethane	10.905	107	20958	1.3159014	ppbv		99
69)	Chlorobenzene	11.379	112	26223	1.3185764	ppbv	#	86
70)	NONANE	11.349	43	25166	1.2611635	ppbv		99
72)	Ethylbenzene	11.410	91	41391	1.2644729	ppbv		99
73)	M&P-Xylene	11.531	91	66988	2.6011970	ppbv		100
74)	O-Xylene	12.000	91	34728	1.3012289	ppbv		99
77)	Styrene	12.018	104	27321	1.2879775	ppbv		98
78)	Bromoform	12.328	173	22962	1.2950031	ppbv		99
79)	Isopropylbenzene	12.371	105	47577	1.2997464	ppbv		99
80)	n-DECANE	12.809	43	23096	1.3059391	ppbv		99
81)	1,1,2,2-Tetrachloroethane	12.748	83	27514	1.2775820	ppbv		99
82)	n-Propylbenzene	12.803	91	55842	1.3464516	ppbv		100
83)	4-Ethyltoluene	12.906	105	43480	1.2980485	ppbv		99
84)	2-Chlorotoluene	12.961	126	11845	1.3526469	ppbv		98
86)	1,3,5-Trimethylbenzene	12.955	105	37124	1.2919938	ppbv		99
87)	Tert-Butylbenzene	13.259	119	33921	1.3024727	ppbv		99
88)	1,2,4-Trimethylbenzene	13.314	105	34889	1.2582363	ppbv		99
89)	sec-Butylbenzene	13.551	134	10185	1.2903984	ppbv		97
90)	1,3-Dichlorobenzene	13.630	146	21353	1.4223345	ppbv		100
91)	P-ISOPROPYLTOLUENE	13.551	119	41180	1.2856630	ppbv		100
92)	1,4-Dichlorobenzene	13.709	146	21297	1.5224797	ppbv		99
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	35055	1.2796863	ppbv		99
94)	Benzyl Chloride	13.813	91	21211	1.3068109	ppbv		99
95)	n-Butylbenzene	13.904	91	38759	1.3244326	ppbv		99
96)	1,2-Dichlorobenzene	14.044	146	20742	1.3442570	ppbv		99
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	9559	1.3192441	ppbv		98
98)	1,2,4-Trichlorobenzene	15.522	180	7774	1.3835093	ppbv		99
99)	Hexachloro-1,3-Butadiene	15.601	225	18760	1.2758581	ppbv		100
100)	Naphthalene	15.814	128	20460	1.4215191	ppbv		99
101)	TPH (GC/MS) Low Fraction	10.000	TIC	3691019m	57.5216728	ppbv		
102)	TPH-GRO (C5-C10)	10.000	TIC	4534180m	72.3975124	ppbv		

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_10.D
Acq On : 30 Nov 2022 8:50 pm
Operator :
Sample : STD AMS 1.25 ppbv 22K29457
Misc : 22K22745
ALS Vial : 10 Sample Multiplier: 1

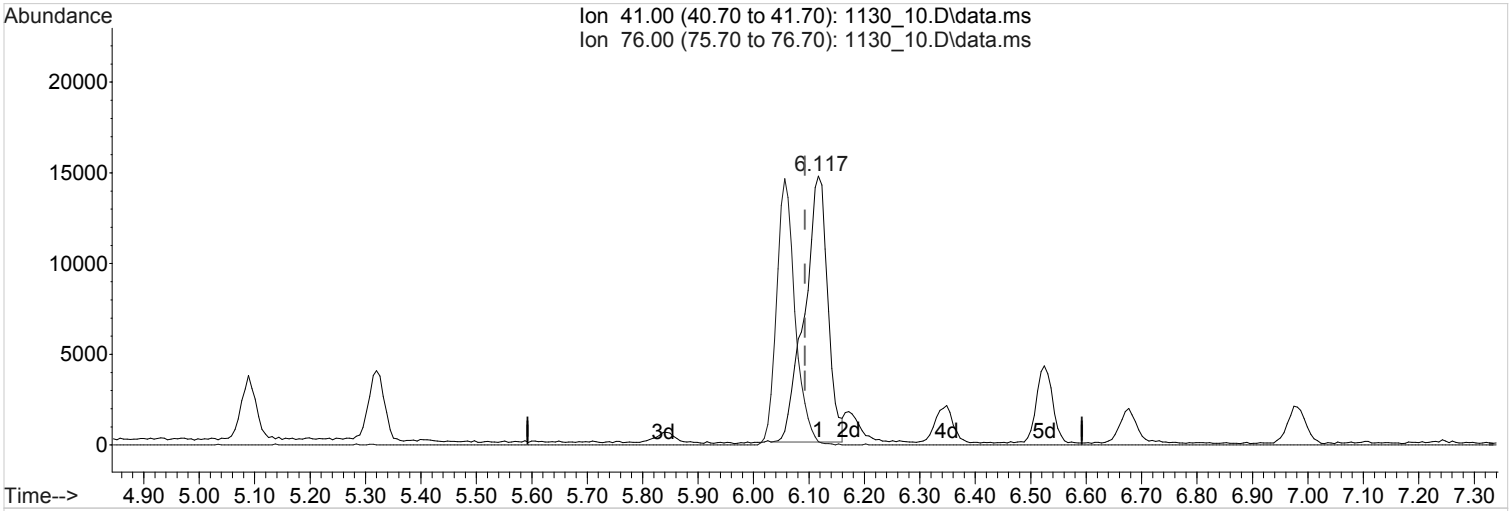
Quant Time: Dec 01 08:09:27 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:08:22 2022
Response via : Initial Calibration

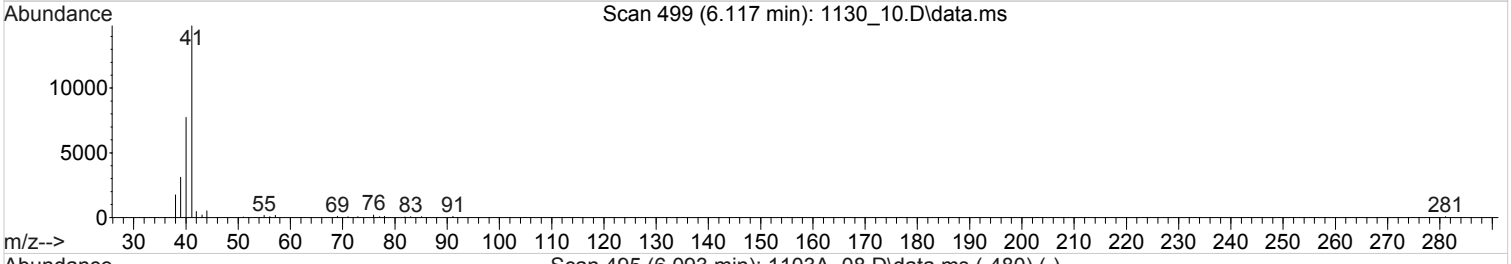


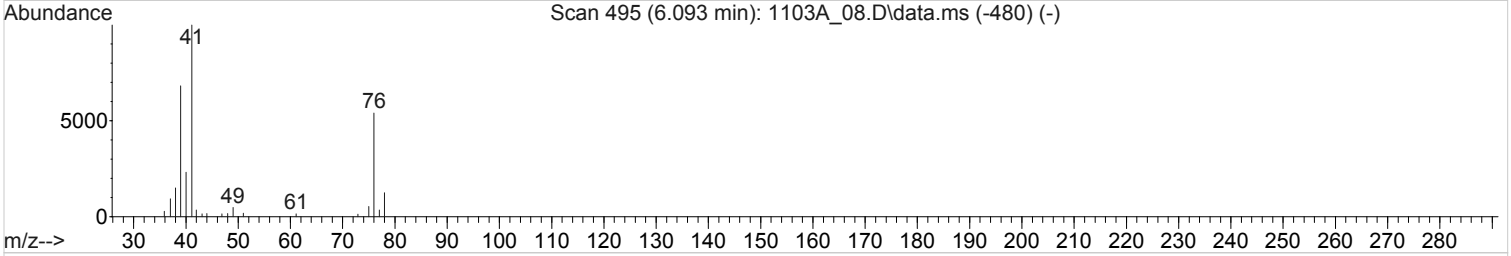
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_10.D
Acq On : 30 Nov 2022 8:50 pm
Operator :
Sample : STD AMS 1.25 ppbv 22K29457
Misc : 22K22745
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 01 08:08:28 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:08:22 2022
Response via : Initial Calibration







TIC: 1130_10.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 5.4280806 ppbv

Qvalue = 1

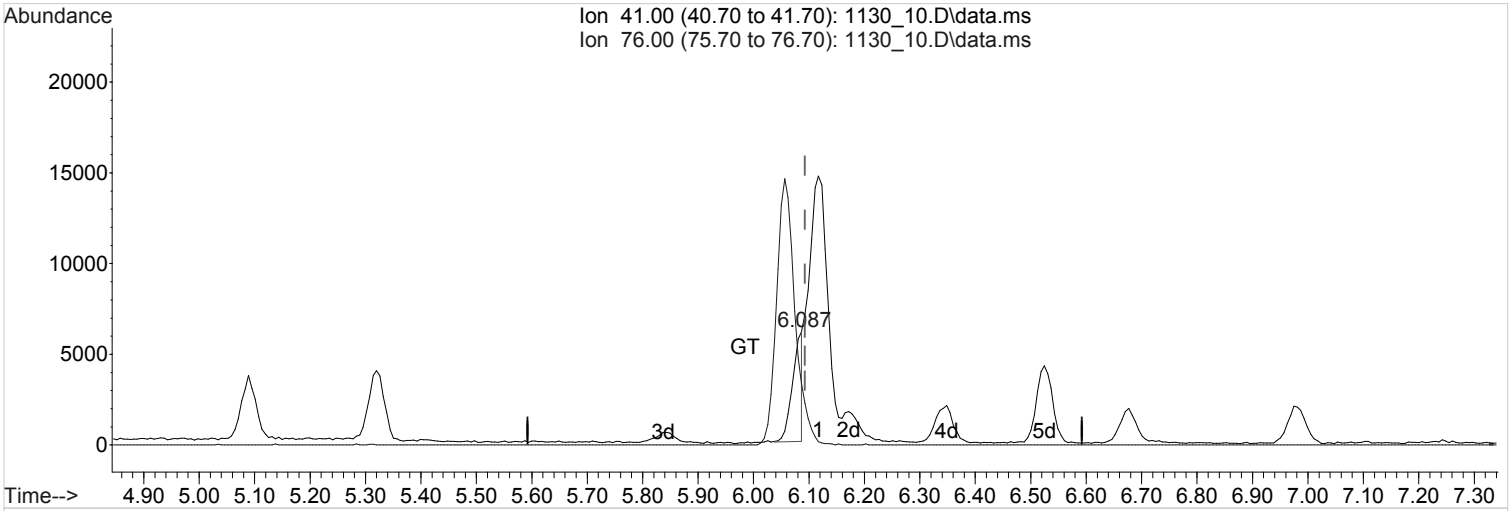
response 42855

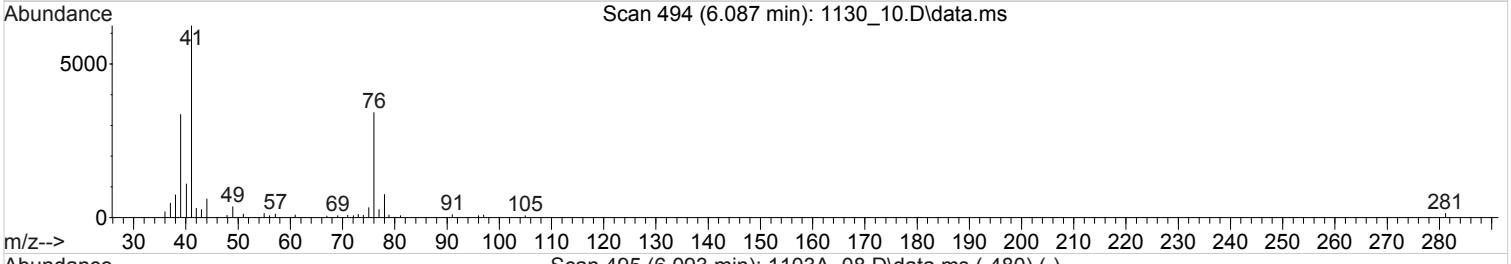
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	79.64#
0.00	0.00	0.00
0.00	0.00	0.00

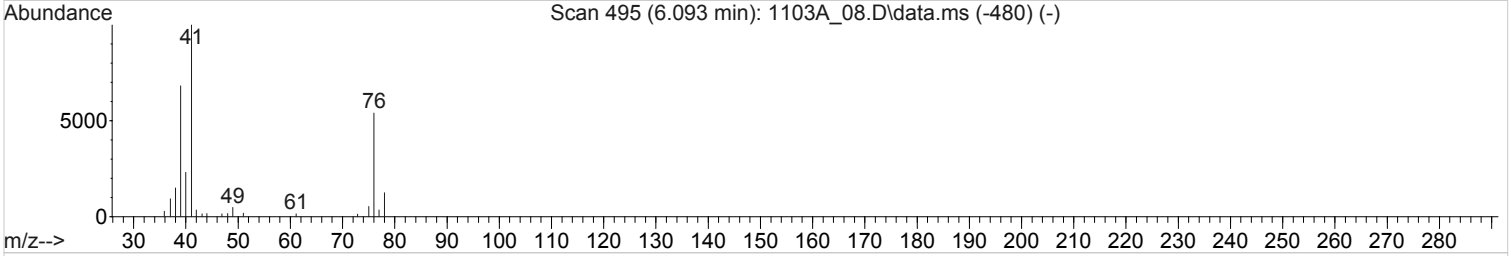
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_10.D
Acq On : 30 Nov 2022 8:50 pm
Operator :
Sample : STD AMS 1.25 ppbv 22K29457
Misc : 22K22745
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 01 08:08:28 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:08:22 2022
Response via : Initial Calibration







TIC: 1130_10.D\data.ms

(25) Allyl Chloride (T,M)

6.087min (-0.006) 0.9726340 ppbv m

response 7679

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	444.45#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_11.D
Acq On : 30 Nov 2022 9:31 pm
Operator :
Sample : STD AMS 2.5 ppbv 22K29457
Misc : 22K22745
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 01 08:10:39 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:09:36 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	98023	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	370651	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	335639	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.632	95	223835	4.0714356	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 101.79%			
Target Compounds						Qvalue
2) Propene	4.182	41	14537	1.6990339	ppbv	97
3) BUTANE	4.572	43	22090	2.2242734	ppbv	99
4) 1,1-DIFLUOROETHANE	4.182	51	19435	2.4826935	ppbv	99
5) Dichlorodifluoromethane	4.225	85	43135	2.5757876	ppbv	99
6) CHLORODIFLUOROMETHANE	4.243	51	24562	2.6747378	ppbv	100
7) 1,2-Dichlorotetrafluor...	4.371	85	47644	2.6220455	ppbv	99
8) Chloromethane	4.486	50	15642	2.6720969	ppbv	97
9) Vinyl Chloride	4.602	62	15619	2.7417017	ppbv	98
10) 1,3-Butadiene	4.632	39	9636	2.4121507	ppbv	95
11) Bromomethane	4.991	94	14153	2.4643531	ppbv	99
12) Chloroethane	5.071	64	5899	2.2443800	ppbv	99
13) ISOPENTANE	5.089	43	14257	2.1139399	ppbv	94
14) Vinyl Bromide	5.259	106	14409	2.4536079	ppbv	99
15) Trichlorofluoromethane	5.283	101	36172	2.6121143	ppbv	99
16) PENTANE	5.320	43	27559	1.8147102	ppbv	99
17) Ethanol	5.405	45	8057	1.8614943	ppbv	99
18) ACROLEIN	5.703	56	7620	2.5016716	ppbv	99
19) 1,1,2-Trichlorotrifluo...	5.697	101	39761	2.6501245	ppbv	99
20) 1,1-Dichloroethene	5.776	61	28338	2.6651256	ppbv	99
21) Acetone	5.825	43	26209	2.2289253	ppbv	98
22) BROMOETHANE	5.959	108	16631	2.6493634	ppbv	98
23) 2-Propanol	5.837	45	30214	2.3514036	ppbv	95
24) Carbon Disulfide	6.056	76	65751	2.3385781	ppbv	100
25) Allyl Chloride	6.093	41	21720m	2.9293921	ppbv	
26) METHYL ACETATE	6.044	43	30865	2.5899022	ppbv #	100
27) ACETONITRILE	6.117	41	85848	13.1872886	ppbv	99
28) Methylene Chloride	6.208	49	18658	2.4524724	ppbv	98
29) TERT-BUTYL ALCOHOL	6.172	59	31927	2.5862264	ppbv	99
30) Methyl Tert-Butyl Ether	6.342	73	43392	2.5856545	ppbv	99
31) Trans-1,2-Dichloroethene	6.403	61	27632	2.6125514	ppbv	99
32) ACRYLONITRILE	6.433	53	14189	2.5699744	ppbv	99
33) n-Hexane	6.524	57	25054	2.4892309	ppbv	95
34) 1,1-Dichloroethane	6.786	63	34594	2.6483246	ppbv	98
35) Vinyl Acetate	6.719	43	41936	2.6365367	ppbv	100
36) DI-ISOPROPYL ETHER	6.677	45	52193	2.6256977	ppbv	100
37) ETHYL TERT-BUTYL ETHER	6.981	59	56105	2.6656410	ppbv	100
38) ETHYL ACETATE	7.194	45	5632	2.5159047	ppbv	96
39) 2-Butanone (MEK)	7.236	72	8374	2.5598396	ppbv	91
40) cis-1,2-Dichloroethene	7.279	61	26173	2.5791638	ppbv	99
41) Tetrahydrofuran	7.510	42	16970	2.4246552	ppbv	99
42) Chloroform	7.504	83	36755	2.5563864	ppbv	100
43) Cyclohexane	7.723	84	20972	2.6224719	ppbv	98
44) 1,1,1-Trichloroethane	7.705	97	37564	2.6065037	ppbv	100
45) Carbon Tetrachloride	7.832	117	40022	2.6395993	ppbv	100
46) 2,2,4-Trimethylpentane	7.942	57	85159	2.6057586	ppbv	100
48) Benzene	8.033	78	55235	2.5871237	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_11.D
Acq On : 30 Nov 2022 9:31 pm
Operator :
Sample : STD AMS 2.5 ppbv 22K29457
Misc : 22K22745
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 01 08:10:39 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:09:36 2022
Response via : Initial Calibration

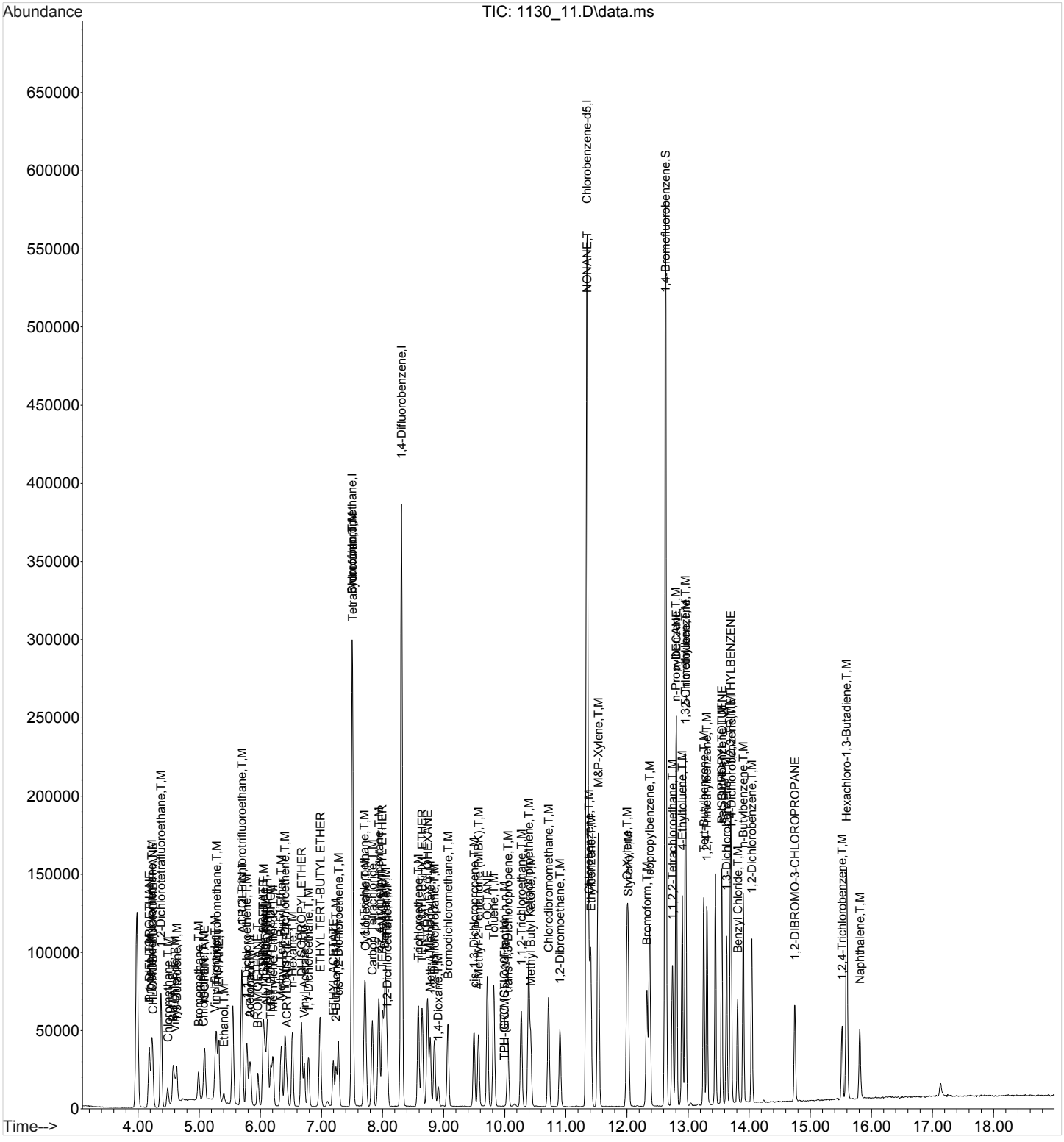
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49)	TERT-AMYL METHYL ETHER	7.997	73	54510	2.6163141 ppbv	99
50)	1,2-Dichloroethane	8.082	62	20660	2.6666578 ppbv	100
51)	Heptane	8.058	43	30089	2.5403410 ppbv	100
52)	Trichloroethene	8.587	95	26025	2.5583795 ppbv	98
53)	TERT-AMYL ETHYL ETHER	8.648	73	17641	2.4440401 ppbv	99
54)	METHYL CYCLOHEXANE	8.739	83	35226	2.4851291 ppbv	96
55)	1,2-Dichloropropane	8.848	63	22746	2.6313536 ppbv	98
56)	Methyl Methacrylate	8.781	41	22835	2.4417048 ppbv	94
57)	1,4-Dioxane	8.909	88	10932	2.5678188 ppbv	98
58)	Bromodichloromethane	9.073	83	40540	2.5316679 ppbv	97
59)	cis-1,3-Dichloropropene	9.499	75	35797	2.6838145 ppbv	99
60)	4-Methyl-2-Pentanone (...	9.572	43	37713	2.5239848 ppbv	100
61)	n-OCTANE	9.718	43	47359	2.5896227 ppbv	99
62)	Toluene	9.822	91	69725	2.5612376 ppbv	99
63)	trans-1,3-Dichloropropene	10.053	75	31094	2.6481651 ppbv	98
64)	1,1,2-Trichloroethane	10.272	97	25826	2.5790063 ppbv	100
65)	Tetrachloroethene	10.394	166	34564	2.5866184 ppbv	98
66)	Methyl Butyl Ketone	10.424	43	34790	2.5512530 ppbv	100
67)	Chlorodibromomethane	10.716	129	48698	2.6943249 ppbv	100
68)	1,2-Dibromoethane	10.905	107	42339	2.6743150 ppbv	100
69)	Chlorobenzene	11.379	112	52351	2.6470520 ppbv	98
70)	NONANE	11.349	43	49648	2.5248624 ppbv	100
72)	Ethylbenzene	11.410	91	83075	2.5881301 ppbv	100
73)	M&P-Xylene	11.531	91	131062	5.1602161 ppbv	100
74)	O-Xylene	12.000	91	68094	2.5867485 ppbv	99
77)	Styrene	12.024	104	55673	2.6665025 ppbv	100
78)	Bromoform	12.328	173	46905	2.6846084 ppbv	100
79)	Isopropylbenzene	12.371	105	93825	2.5992841 ppbv	100
80)	n-DECANE	12.809	43	46292	2.6517892 ppbv	100
81)	1,1,2,2-Tetrachloroethane	12.742	83	55757	2.6347459 ppbv	99
82)	n-Propylbenzene	12.803	91	110995	2.6940080 ppbv	99
83)	4-Ethyltoluene	12.906	105	88948	2.6935698 ppbv	99
84)	2-Chlorotoluene	12.961	126	23136	2.6569269 ppbv	99
86)	1,3,5-Trimethylbenzene	12.955	105	74963	2.6488722 ppbv	99
87)	Tert-Butylbenzene	13.259	119	66456	2.5865441 ppbv	100
88)	1,2,4-Trimethylbenzene	13.308	105	72214	2.6585192 ppbv	99
89)	sec-Butylbenzene	13.551	134	20392	2.6238628 ppbv	98
90)	1,3-Dichlorobenzene	13.630	146	44551	2.9519163 ppbv	100
91)	P-ISOPROPYLTOLUENE	13.551	119	82674	2.6233445 ppbv	99
92)	1,4-Dichlorobenzene	13.709	146	43091	3.0171965 ppbv	99
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	71816	2.6670642 ppbv	100
94)	Benzyl Chloride	13.813	91	46649	2.9112587 ppbv	99
95)	n-Butylbenzene	13.904	91	77368	2.6705074 ppbv	100
96)	1,2-Dichlorobenzene	14.044	146	44628	2.9124268 ppbv	99
97)	1,2-DIBROMO-3-CHLOROPR...	14.749	157	20225	2.8218425 ppbv	98
98)	1,2,4-Trichlorobenzene	15.522	180	17682	3.1492424 ppbv	100
99)	Hexachloro-1,3-Butadiene	15.595	225	37974	2.6289325 ppbv	99
100)	Naphthalene	15.814	128	44193	3.0546358 ppbv	100
101)	TPH (GC/MS) Low Fraction	10.000	TIC	7082287m	116.6267378 ppbv	
102)	TPH-GRO (C5-C10)	10.000	TIC	8388639m	144.3418135 ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_11.D
Acq On : 30 Nov 2022 9:31 pm
Operator :
Sample : STD AMS 2.5 ppbv 22K29457
Misc : 22K22745
ALS Vial : 11 Sample Multiplier: 1

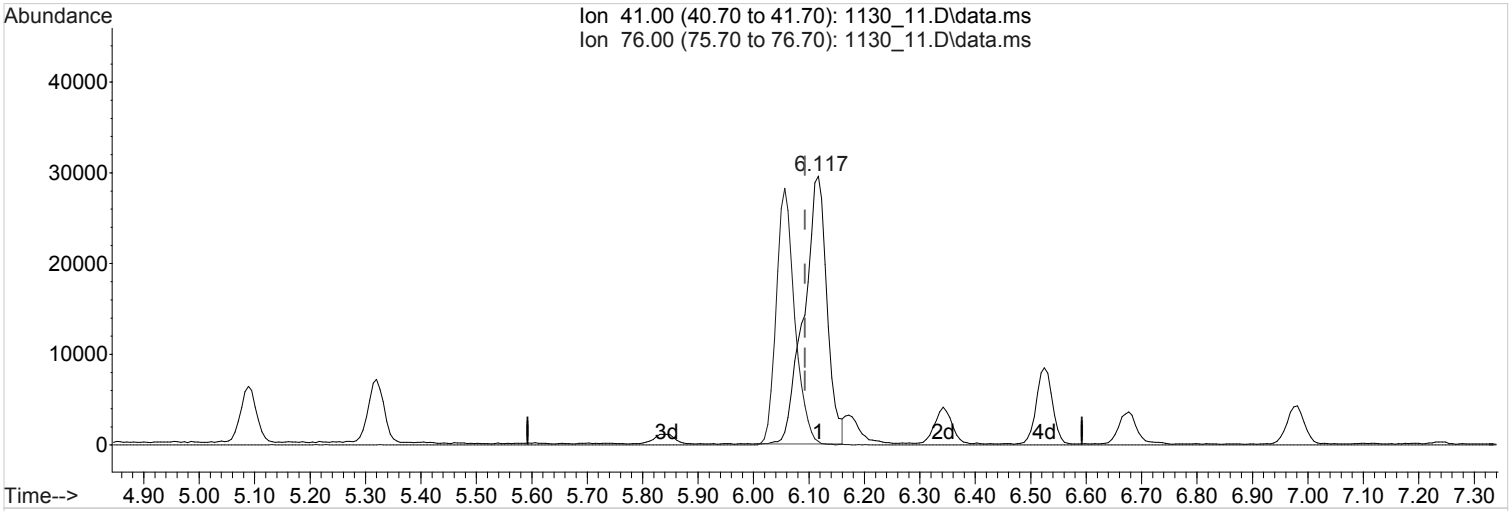
Quant Time: Dec 01 08:10:39 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:09:36 2022
Response via : Initial Calibration

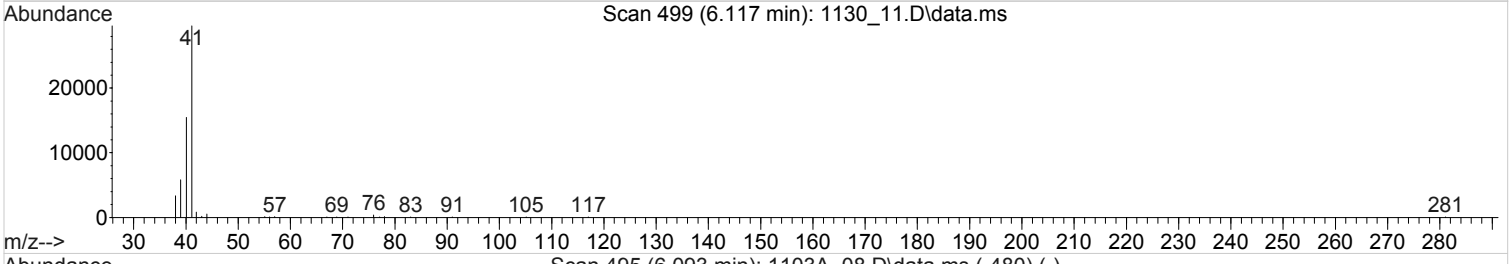


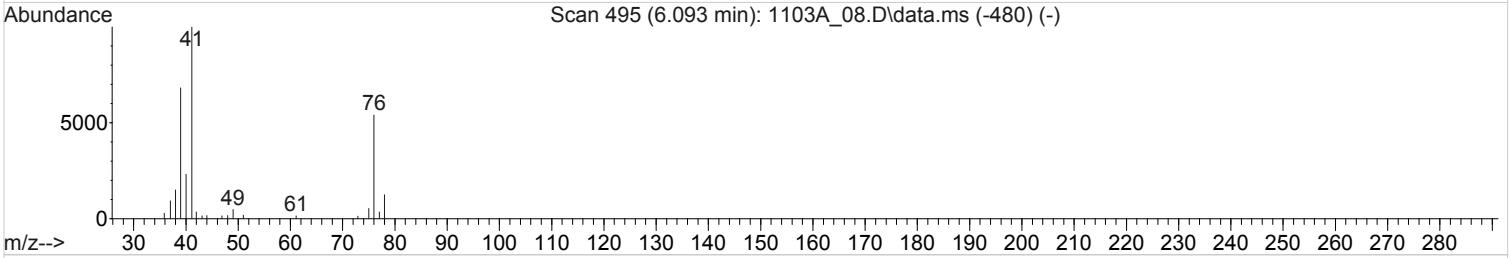
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_11.D
Acq On : 30 Nov 2022 9:31 pm
Operator :
Sample : STD AMS 2.5 ppbv 22K29457
Misc : 22K22745
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 01 08:09:41 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:09:36 2022
Response via : Initial Calibration







TIC: 1130_11.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 11.5783819 ppbv

Qvalue = 1

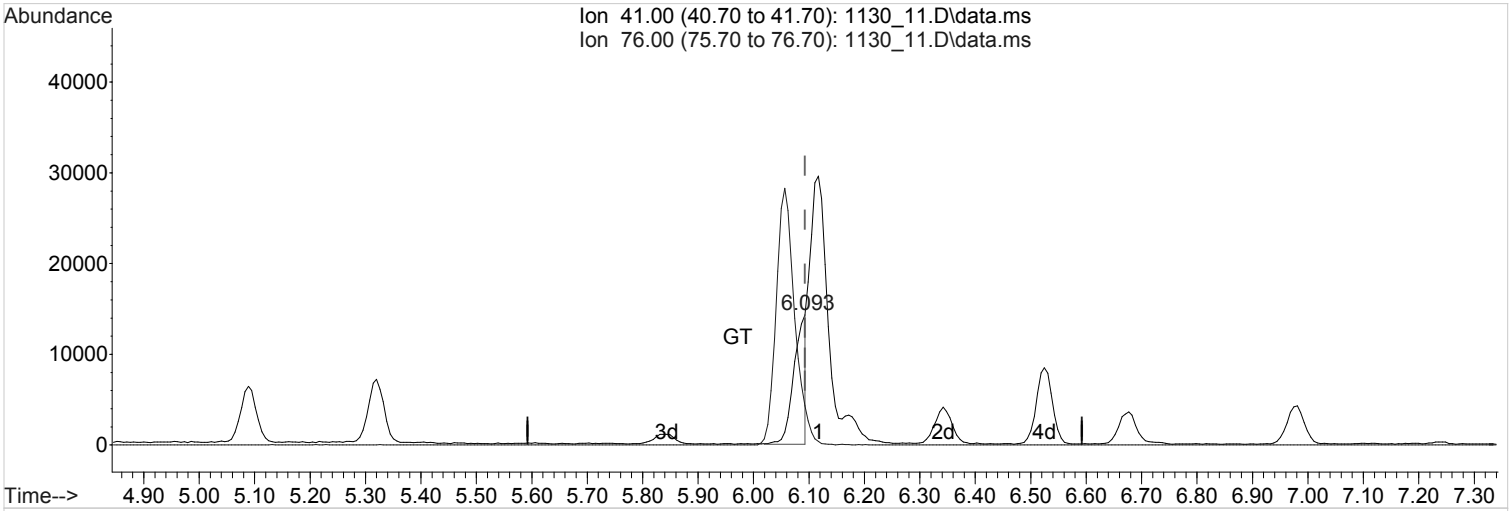
response 85848

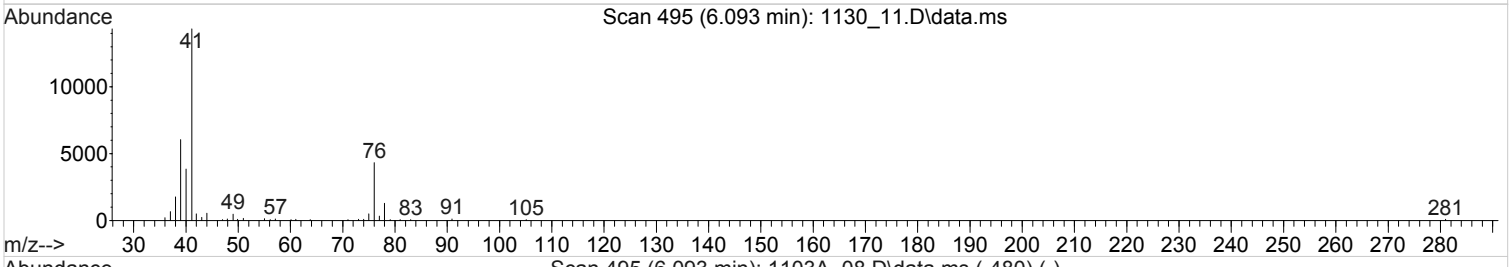
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	76.59#
0.00	0.00	0.00
0.00	0.00	0.00

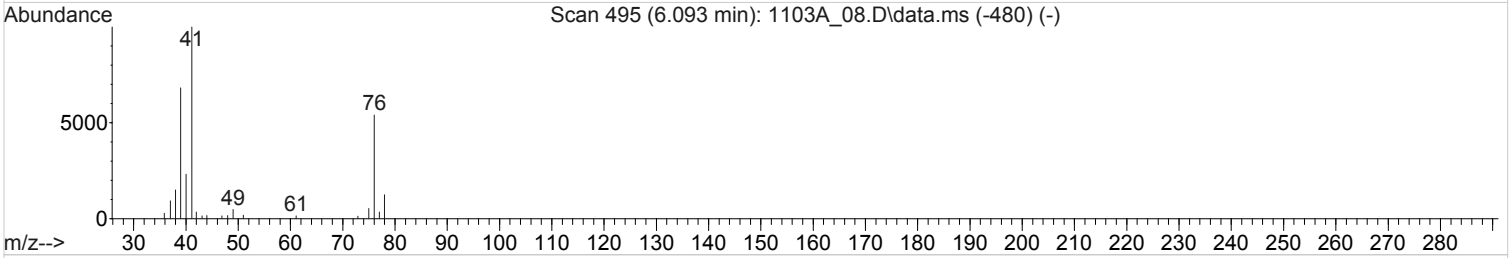
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_11.D
Acq On : 30 Nov 2022 9:31 pm
Operator :
Sample : STD AMS 2.5 ppbv 22K29457
Misc : 22K22745
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 01 08:09:41 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:09:36 2022
Response via : Initial Calibration







TIC: 1130_11.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (-0.000) 2.9293921 ppbv m

response 21720

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	302.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 01 08:11:52 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:10:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	97662	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	363792	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	339082	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.632	95	222304	3.9906513	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 99.77%			
Target Compounds						Qvalue
2) Propene	4.182	41	19974	2.4752961	ppbv	100
3) BUTANE	4.572	43	31318	3.2243801	ppbv	100
4) 1,1-DIFLUOROETHANE	4.182	51	29116	3.7374382	ppbv	100
5) Dichlorodifluoromethane	4.225	85	65597	3.9118109	ppbv	100
6) CHLORODIFLUOROMETHANE	4.243	51	36063	3.8962945	ppbv	100
7) 1,2-Dichlorotetrafluor...	4.377	85	70598	3.8681874	ppbv	100
8) Chloromethane	4.487	50	22648	3.8391741	ppbv	100
9) Vinyl Chloride	4.602	62	22390	3.8822299	ppbv	100
10) 1,3-Butadiene	4.633	39	14381	3.6345453	ppbv	100
11) Bromomethane	4.991	94	21227	3.7185938	ppbv	100
12) Chloroethane	5.071	64	8988	3.4917905	ppbv	100
13) ISOPENTANE	5.089	43	21934	3.3504924	ppbv	100
14) Vinyl Bromide	5.259	106	21466	3.6801887	ppbv	100
15) Trichlorofluoromethane	5.284	101	54089	3.8913206	ppbv	100
16) PENTANE	5.320	43	40598	2.8116388	ppbv	100
17) Ethanol	5.399	45	11259	2.7269814	ppbv	100
18) ACROLEIN	5.709	56	10907	3.5936404	ppbv	100
19) 1,1,2-Trichlorotrifluo...	5.697	101	58850	3.8979196	ppbv	100
20) 1,1-Dichloroethene	5.782	61	41745	3.8976297	ppbv	100
21) Acetone	5.819	43	39520	3.4354575	ppbv	100
22) BROMOETHANE	5.965	108	24147	3.8228354	ppbv	100
23) 2-Propanol	5.837	45	43015	3.3936341	ppbv	100
24) Carbon Disulfide	6.056	76	96321	3.4759366	ppbv	100
25) Allyl Chloride	6.093	41	32977m	4.3398393	ppbv	
26) METHYL ACETATE	6.044	43	44955	3.7635899	ppbv #	100
27) ACETONITRILE	6.117	41	130040	19.8674890	ppbv	100
28) Methylene Chloride	6.208	49	28379	3.7559236	ppbv	100
29) TERT-BUTYL ALCOHOL	6.172	59	48070	3.8859353	ppbv	100
30) Methyl Tert-Butyl Ether	6.342	73	64691	3.8471061	ppbv	100
31) Trans-1,2-Dichloroethene	6.403	61	41712	3.9288856	ppbv	100
32) ACRYLONITRILE	6.433	53	21497	3.8898780	ppbv	100
33) n-Hexane	6.525	57	39071	3.8990331	ppbv	100
34) 1,1-Dichloroethane	6.786	63	50971	3.8781323	ppbv	100
35) Vinyl Acetate	6.719	43	61135	3.8229961	ppbv	100
36) DI-ISOPROPYL ETHER	6.671	45	77703	3.8908856	ppbv	100
37) ETHYL TERT-BUTYL ETHER	6.975	59	83159	3.9223127	ppbv	100
38) ETHYL ACETATE	7.194	45	8346	3.7381098	ppbv	100
39) 2-Butanone (MEK)	7.236	72	12720	3.8872297	ppbv	100
40) cis-1,2-Dichloroethene	7.279	61	39824	3.9182007	ppbv	100
41) Tetrahydrofuran	7.510	42	25628	3.6937899	ppbv	100
42) Chloroform	7.504	83	54054	3.7593330	ppbv	100
43) Cyclohexane	7.723	84	30515	3.7988768	ppbv	100
44) 1,1,1-Trichloroethane	7.705	97	55648	3.8482719	ppbv	100
45) Carbon Tetrachloride	7.833	117	59993	3.9347673	ppbv	100
46) 2,2,4-Trimethylpentane	7.942	57	126954	3.8716947	ppbv	100
48) Benzene	8.033	78	81197	3.8524735	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 01 08:11:52 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:10:48 2022
Response via : Initial Calibration

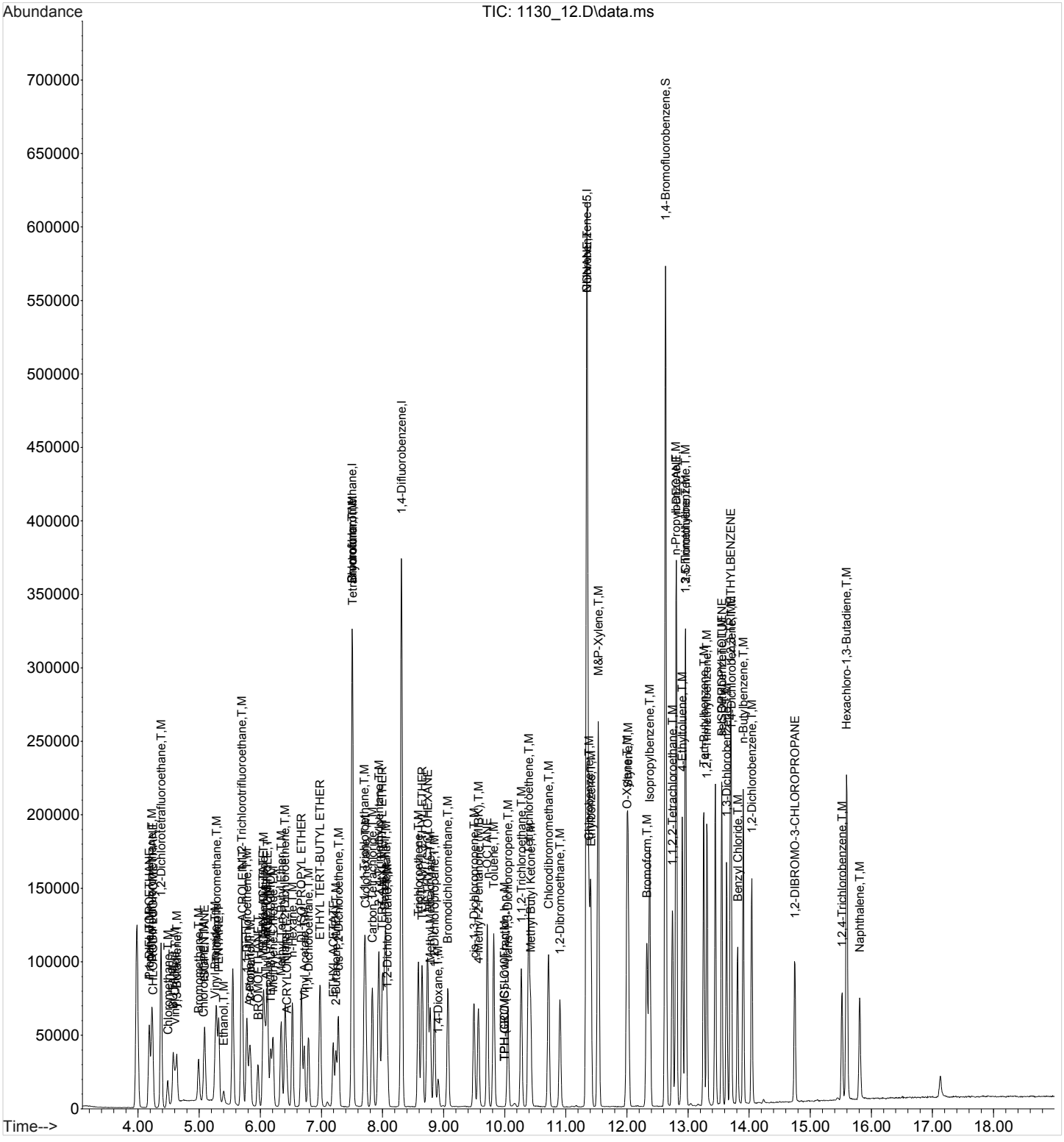
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	TERT-AMYL METHYL ETHER	7.997	73	81497	3.9546924	ppbv	100
50)	1,2-Dichloroethane	8.082	62	30852	4.0126723	ppbv	100
51)	Heptane	8.058	43	44654	3.8308067	ppbv	100
52)	Trichloroethene	8.587	95	39665	3.9573708	ppbv	100
53)	TERT-AMYL ETHYL ETHER	8.648	73	26357	3.7343616	ppbv	100
54)	METHYL CYCLOHEXANE	8.739	83	52615	3.7856285	ppbv	100
55)	1,2-Dichloropropane	8.848	63	33954	3.9672597	ppbv	100
56)	Methyl Methacrylate	8.782	41	37339	4.0837388	ppbv	100
57)	1,4-Dioxane	8.909	88	16447	3.9183601	ppbv	100
58)	Bromodichloromethane	9.067	83	61786	3.9229177	ppbv	100
59)	cis-1,3-Dichloropropene	9.499	75	53309	4.0228034	ppbv	100
60)	4-Methyl-2-Pentanone (...	9.572	43	56135	3.8216202	ppbv	100
61)	n-OCTANE	9.712	43	70553	3.9072785	ppbv	100
62)	Toluene	9.822	91	104760	3.9048060	ppbv	100
63)	trans-1,3-Dichloropropene	10.053	75	46946	4.0337624	ppbv	100
64)	1,1,2-Trichloroethane	10.272	97	38232	3.8694821	ppbv	100
65)	Tetrachloroethene	10.394	166	51523	3.9058980	ppbv	100
66)	Methyl Butyl Ketone	10.424	43	52270	3.8920843	ppbv	100
67)	Chlorodibromomethane	10.716	129	72839	4.0534488	ppbv	100
68)	1,2-Dibromoethane	10.905	107	62912	4.0022080	ppbv	100
69)	Chlorobenzene	11.379	112	78585	4.0091502	ppbv	100
70)	NONANE	11.349	43	75013	3.8802998	ppbv	100
72)	Ethylbenzene	11.410	91	124623	3.8206519	ppbv	100
73)	M&P-Xylene	11.531	91	196443	7.6152146	ppbv	100
74)	O-Xylene	12.000	91	102069	3.8159485	ppbv	100
77)	Styrene	12.018	104	83940	3.9358617	ppbv	100
78)	Bromoform	12.328	173	70554	3.9485605	ppbv	100
79)	Isopropylbenzene	12.371	105	140920	3.8389318	ppbv	100
80)	n-DECANE	12.809	43	69879	3.9226067	ppbv	100
81)	1,1,2,2-Tetrachloroethane	12.742	83	83311	3.8621176	ppbv	100
82)	n-Propylbenzene	12.803	91	165376	3.9224241	ppbv	100
83)	4-Ethyltoluene	12.906	105	131660	3.8962338	ppbv	100
84)	2-Chlorotoluene	12.961	126	33517	3.7705461	ppbv	100
86)	1,3,5-Trimethylbenzene	12.955	105	110322	3.8208045	ppbv	100
87)	Tert-Butylbenzene	13.259	119	101033	3.8700637	ppbv	100
88)	1,2,4-Trimethylbenzene	13.308	105	106389	3.8363418	ppbv	100
89)	sec-Butylbenzene	13.551	134	29848	3.7704462	ppbv	100
90)	1,3-Dichlorobenzene	13.630	146	67476	4.2960815	ppbv	100
91)	P-ISOPROPYLTOLUENE	13.551	119	122981	3.8312058	ppbv	100
92)	1,4-Dichlorobenzene	13.709	146	65605	4.3954125	ppbv	100
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	105181	3.8239039	ppbv	100
94)	Benzyl Chloride	13.813	91	75143	4.5180166	ppbv	100
95)	n-Butylbenzene	13.904	91	119540	4.0383550	ppbv	100
96)	1,2-Dichlorobenzene	14.044	146	65694	4.1301061	ppbv	100
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	31679	4.2831537	ppbv	100
98)	1,2,4-Trichlorobenzene	15.522	180	28792	4.8653285	ppbv	100
99)	Hexachloro-1,3-Butadiene	15.595	225	57445	3.9029768	ppbv	100
100)	Naphthalene	15.808	128	69949	4.6151579	ppbv	100
101)	TPH (GC/MS) Low Fraction	10.000	TIC	10408662m	174.0670756	ppbv	
102)	TPH-GRO (C5-C10)	10.000	TIC	12263955m	218.3343219	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 01 08:11:52 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:10:48 2022
Response via : Initial Calibration

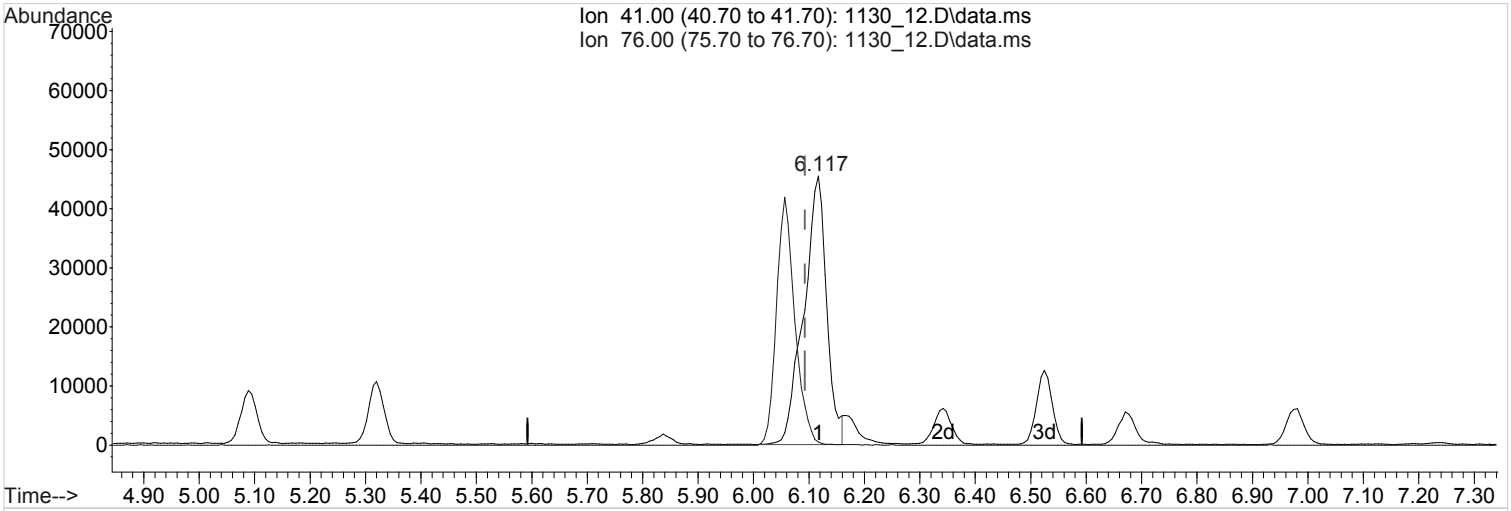


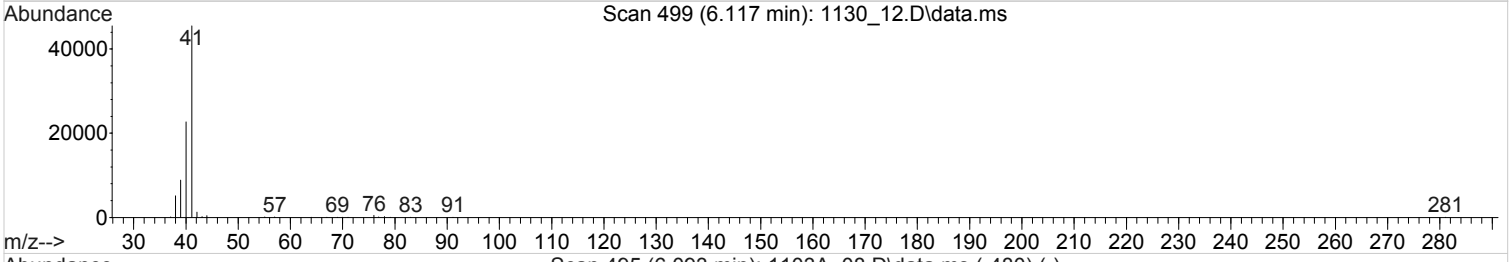
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	240 of 471

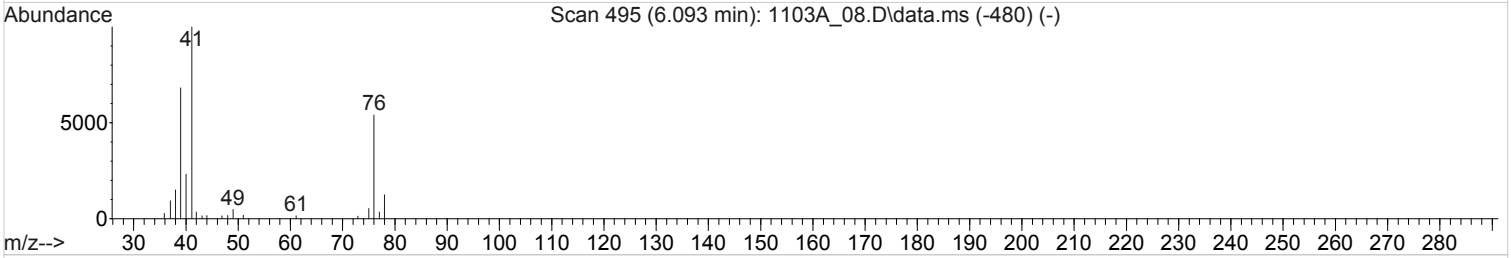
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 01 08:01:36 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Fri Nov 04 10:36:31 2022
Response via : Initial Calibration







TIC: 1130_12.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 0.0000000 ppbv

Qvalue = 1

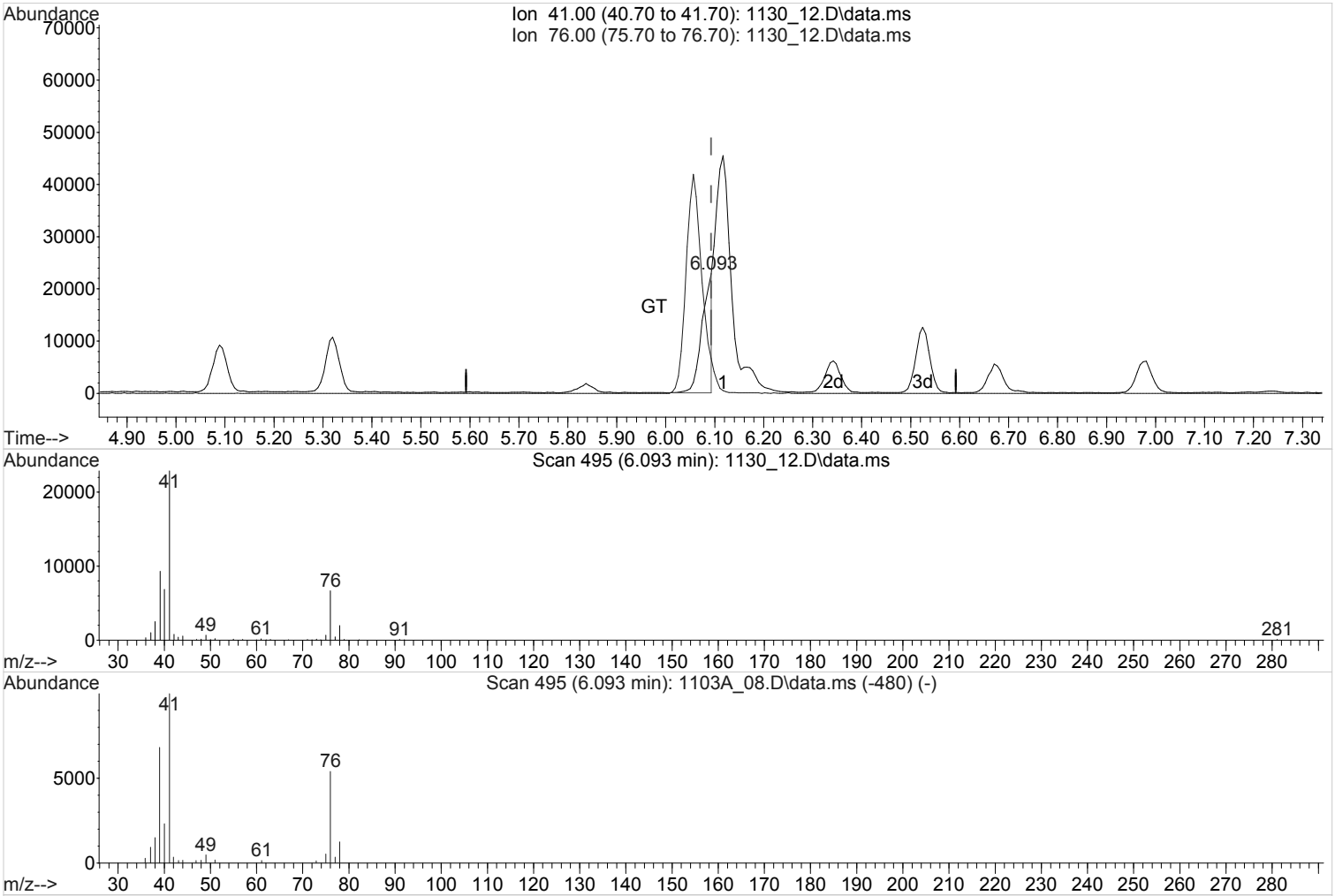
response 130040

Ion	Exp%	Act%
41.00	100	100
76.00	455.70	74.07#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 01 08:01:36 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Fri Nov 04 10:36:31 2022
Response via : Initial Calibration



TIC: 1130_12.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (-0.000) 0.0000000 ppbv m

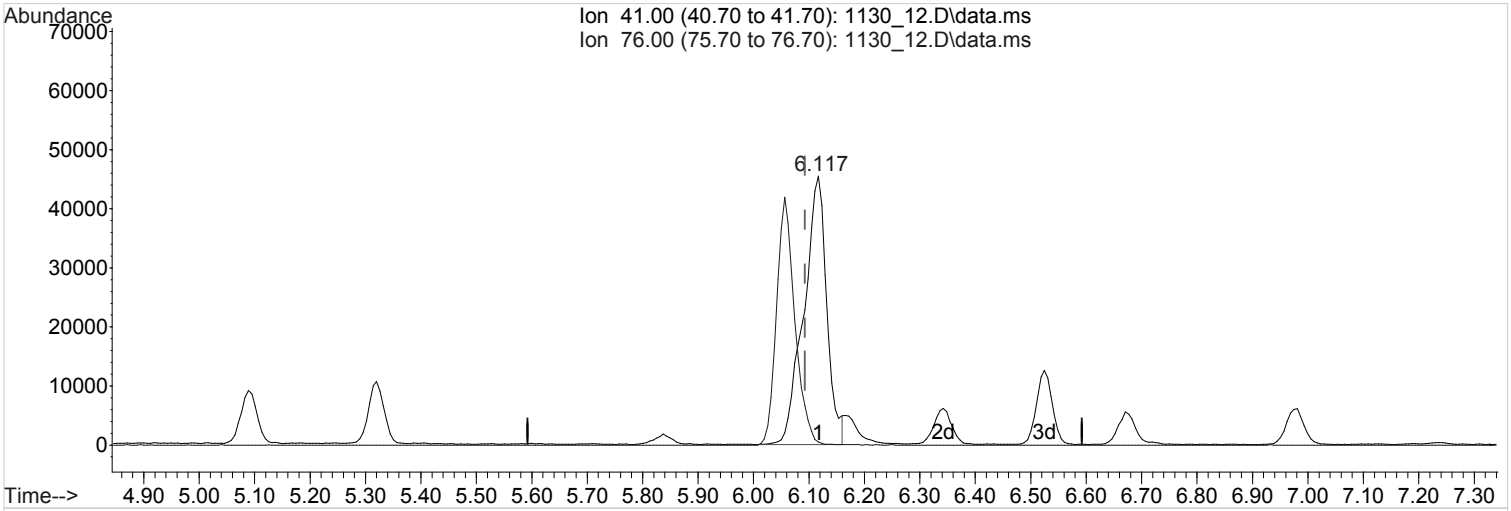
response 32958

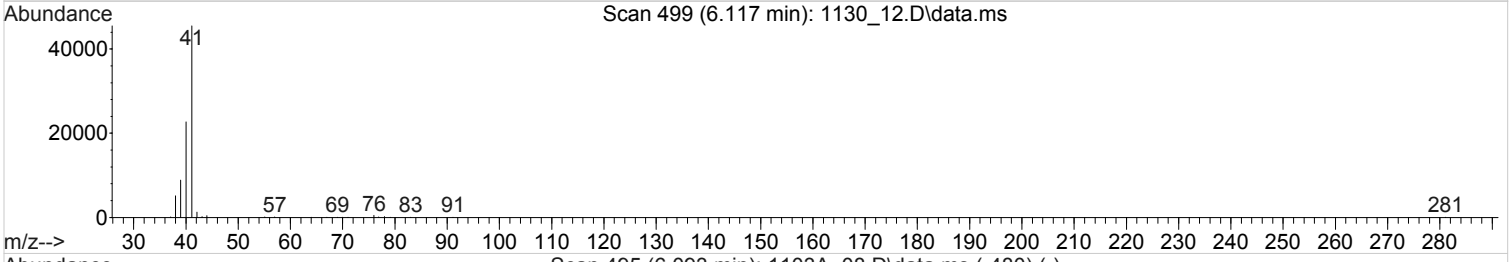
Ion	Exp%	Act%
41.00	100	100
76.00	455.70	292.25#
0.00	0.00	0.00
0.00	0.00	0.00

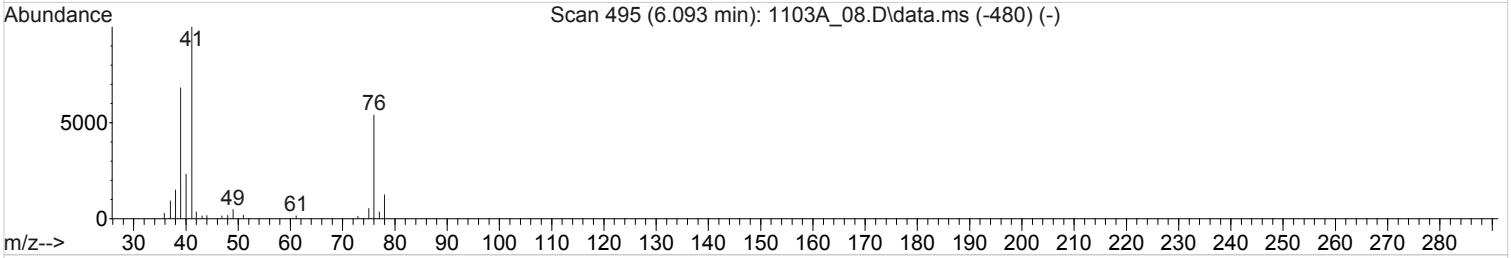
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 01 08:10:53 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:10:48 2022
Response via : Initial Calibration







TIC: 1130_12.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 17.1135248 ppbv

Qvalue = 1

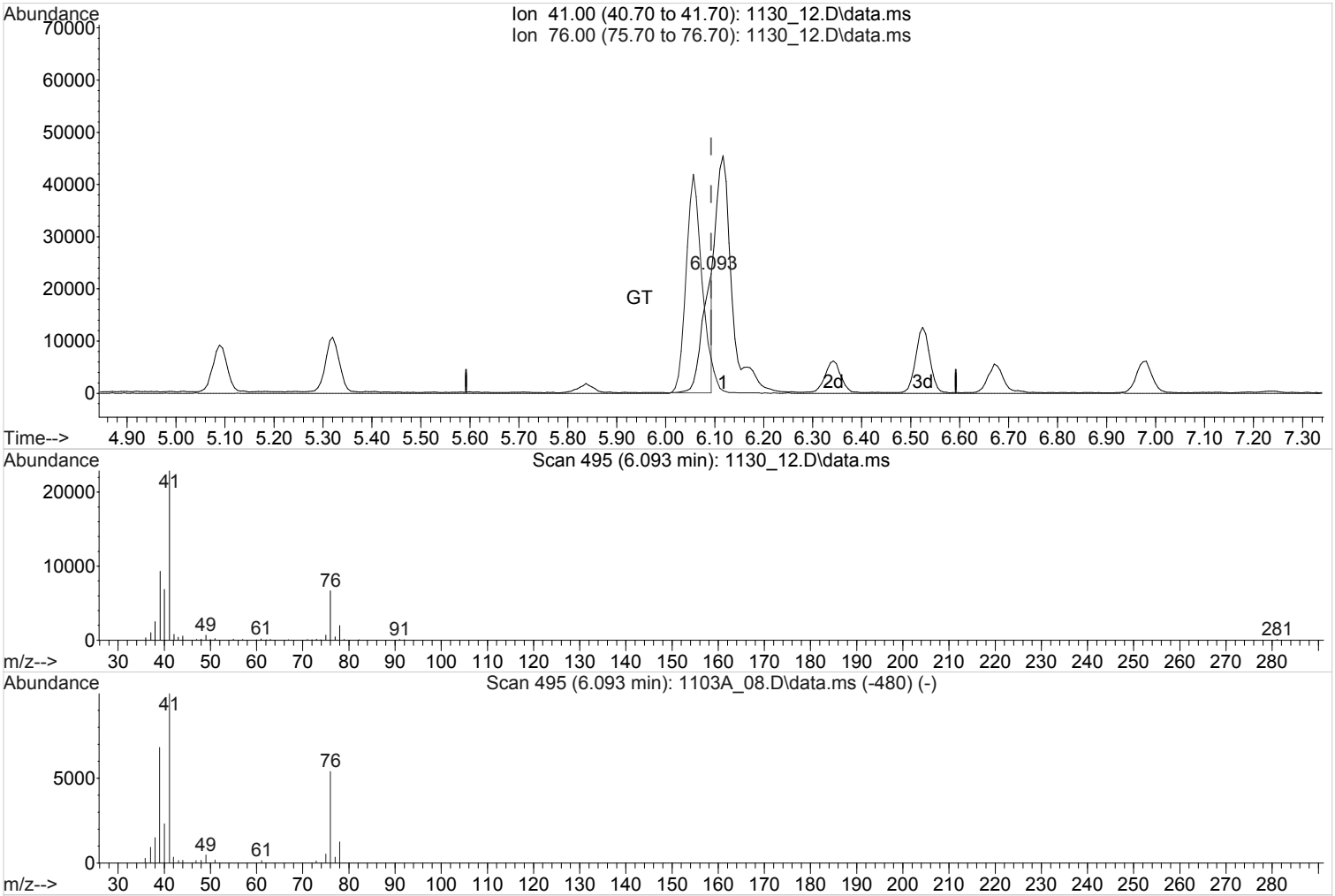
response 130040

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	74.07#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 01 08:10:53 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:10:48 2022
Response via : Initial Calibration



TIC: 1130_12.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (0.000) 4.3398393 ppbv m

response 32977

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	292.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_13.D
Acq On : 30 Nov 2022 10:55 pm
Operator :
Sample : STD AMS 10.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 01 08:13:17 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:12:01 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	95990	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	365949	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.349	117	331539	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.632	95	225079	4.1323928	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 103.31%				
Target Compounds						Qvalue	
2) Propene	4.176	41	49909	6.2927517	ppbv		99
3) BUTANE	4.572	43	81164	8.5018860	ppbv		99
4) 1,1-DIFLUOROETHANE	4.182	51	75259	9.8287971	ppbv		99
5) Dichlorodifluoromethane	4.225	85	173429	10.5224098	ppbv		99
6) CHLORODIFLUOROMETHANE	4.237	51	95561	10.5043753	ppbv		99
7) 1,2-Dichlorotetrafluor...	4.371	85	189268	10.5509587	ppbv		100
8) Chloromethane	4.480	50	61349	10.5807161	ppbv		98
9) Vinyl Chloride	4.602	62	60607	10.6917690	ppbv		98
10) 1,3-Butadiene	4.633	39	38786	9.9732251	ppbv		94
11) Bromomethane	4.992	94	56359	10.0450713	ppbv		99
12) Chloroethane	5.071	64	23625	9.3380578	ppbv		99
13) ISOPENTANE	5.089	43	58484	9.0892384	ppbv		95
14) Vinyl Bromide	5.259	106	57189	9.9754177	ppbv		99
15) Trichlorofluoromethane	5.284	101	144655	10.5881755	ppbv		99
16) PENTANE	5.320	43	106676	7.5165965	ppbv		99
17) Ethanol	5.399	45	29399	7.2446022	ppbv		99
18) ACROLEIN	5.709	56	28002	9.3868090	ppbv		99
19) 1,1,2-Trichlorotrifluo...	5.697	101	155142	10.4547926	ppbv		99
20) 1,1-Dichloroethene	5.776	61	111942	10.6338076	ppbv		99
21) Acetone	5.819	43	99358	8.7875965	ppbv		99
22) BROMOETHANE	5.959	108	64351	10.3651918	ppbv		100
23) 2-Propanol	5.837	45	109875	8.8194925	ppbv		98
24) Carbon Disulfide	6.056	76	254426	9.3414002	ppbv		99
25) Allyl Chloride	6.093	41	88982m	11.9128598	ppbv		
26) METHYL ACETATE	6.044	43	121533	10.3518538	ppbv	#	100
27) ACETONITRILE	6.117	41	368204	57.2340060	ppbv		96
28) Methylene Chloride	6.208	49	73330	9.8741785	ppbv		100
29) TERT-BUTYL ALCOHOL	6.166	59	130553	10.7376174	ppbv		94
30) Methyl Tert-Butyl Ether	6.342	73	168621	10.2023821	ppbv		99
31) Trans-1,2-Dichloroethene	6.403	61	109493	10.4928712	ppbv		99
32) ACRYLONITRILE	6.433	53	55006	10.1266970	ppbv		99
33) n-Hexane	6.525	57	100232	10.1767337	ppbv		97
34) 1,1-Dichloroethane	6.786	63	134619	10.4209054	ppbv		100
35) Vinyl Acetate	6.719	43	152357	9.6933964	ppbv		100
36) DI-ISOPROPYL ETHER	6.671	45	209532	10.6748224	ppbv		100
37) ETHYL TERT-BUTYL ETHER	6.975	59	218794	10.4994847	ppbv		100
38) ETHYL ACETATE	7.194	45	22228	10.1291659	ppbv		99
39) 2-Butanone (MEK)	7.236	72	32846	10.2125736	ppbv		98
40) cis-1,2-Dichloroethene	7.279	61	102888	10.2992629	ppbv		99
41) Tetrahydrofuran	7.510	42	67283	9.8664846	ppbv		99
42) Chloroform	7.510	83	143540	10.1567677	ppbv		100
43) Cyclohexane	7.723	84	79687	10.0932014	ppbv		99
44) 1,1,1-Trichloroethane	7.705	97	147500	10.3778607	ppbv		99
45) Carbon Tetrachloride	7.833	117	158988	10.6091953	ppbv		100
46) 2,2,4-Trimethylpentane	7.942	57	334965	10.3933074	ppbv		100
48) Benzene	8.033	78	214305	10.1079844	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_13.D
Acq On : 30 Nov 2022 10:55 pm
Operator :
Sample : STD AMS 10.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 01 08:13:17 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:12:01 2022
Response via : Initial Calibration

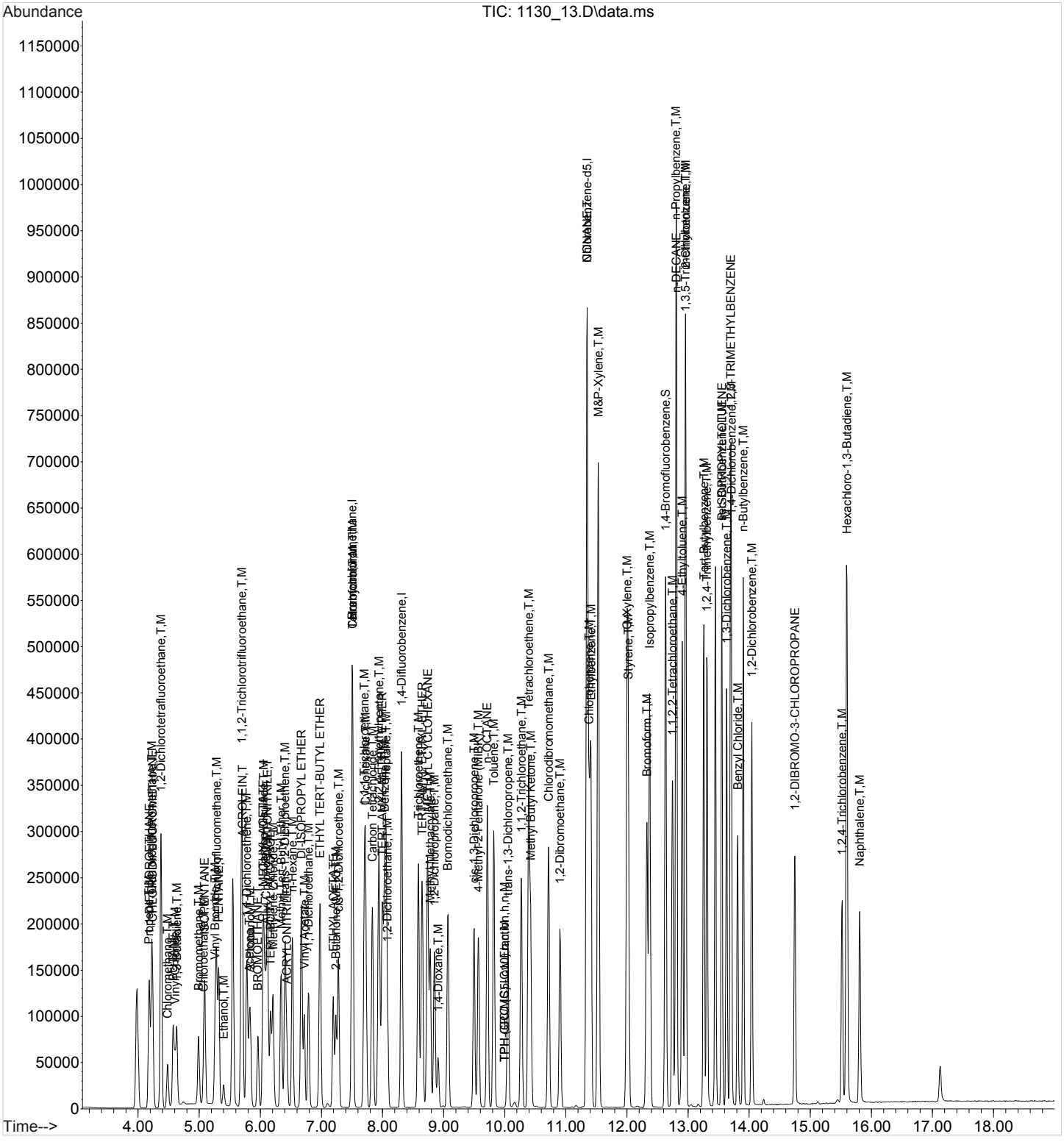
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	TERT-AMYL METHYL ETHER	7.997	73	210288	10.1442082	ppbv	99
50)	1,2-Dichloroethane	8.082	62	80569	10.4171982	ppbv	100
51)	Heptane	8.058	43	116532	9.9381980	ppbv	100
52)	Trichloroethene	8.587	95	104641	10.3784797	ppbv	99
53)	TERT-AMYL ETHYL ETHER	8.648	73	68078	9.5887007	ppbv	99
54)	METHYL CYCLOHEXANE	8.739	83	138687	9.9196593	ppbv	99
55)	1,2-Dichloropropane	8.848	63	89944	10.4473097	ppbv	100
56)	Methyl Methacrylate	8.782	41	97028	10.5493314	ppbv	99
57)	1,4-Dioxane	8.909	88	46923	11.1131199	ppbv	98
58)	Bromodichloromethane	9.068	83	163489	10.3190622	ppbv	99
59)	cis-1,3-Dichloropropene	9.499	75	143741	10.7830473	ppbv	100
60)	4-Methyl-2-Pentanone (...	9.566	43	155007	10.4905364	ppbv	100
61)	n-OCTANE	9.712	43	184385	10.1511922	ppbv	100
62)	Toluene	9.822	91	272690	10.1042891	ppbv	99
63)	trans-1,3-Dichloropropene	10.053	75	125078	10.6837872	ppbv	100
64)	1,1,2-Trichloroethane	10.272	97	101836	10.2461270	ppbv	99
65)	Tetrachloroethene	10.394	166	139718	10.5294260	ppbv	99
66)	Methyl Butyl Ketone	10.424	43	146659	10.8560300	ppbv	99
67)	Chlorodibromomethane	10.716	129	197958	10.9513171	ppbv	100
68)	1,2-Dibromoethane	10.905	107	167859	10.6155713	ppbv	99
69)	Chlorobenzene	11.379	112	208008	10.5493399	ppbv	97
70)	NONANE	11.349	43	193049	9.9272481	ppbv	100
72)	Ethylbenzene	11.410	91	334673	10.4937342	ppbv	100
73)	M&P-Xylene	11.531	91	523801	20.7673950	ppbv	100
74)	O-Xylene	12.000	91	275041	10.5166204	ppbv	99
77)	Styrene	12.024	104	224059	10.7449246	ppbv	100
78)	Bromoform	12.328	173	193735	11.0890759	ppbv	100
79)	Isopropylbenzene	12.371	105	369784	10.3028170	ppbv	100
80)	n-DECANE	12.809	43	183180	10.5166216	ppbv	99
81)	1,1,2,2-Tetrachloroethane	12.742	83	221860	10.5189469	ppbv	99
82)	n-Propylbenzene	12.803	91	436053	10.5777050	ppbv	100
83)	4-Ethyltoluene	12.906	105	347038	10.5036031	ppbv	99
84)	2-Chlorotoluene	12.961	126	89436	10.2901474	ppbv	99
86)	1,3,5-Trimethylbenzene	12.955	105	287501	10.1836195	ppbv	100
87)	Tert-Butylbenzene	13.259	119	261514	10.2451877	ppbv	99
88)	1,2,4-Trimethylbenzene	13.308	105	277158	10.2215814	ppbv	100
89)	sec-Butylbenzene	13.551	134	80110	10.3498573	ppbv	97
90)	1,3-Dichlorobenzene	13.630	146	186360	12.1351736	ppbv	99
91)	P-ISOPROPYLTOLUENE	13.551	119	324264	10.3315698	ppbv	99
92)	1,4-Dichlorobenzene	13.709	146	173820	11.9105704	ppbv	99
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	269769	10.0307136	ppbv	100
94)	Benzyl Chloride	13.813	91	208214	12.8038133	ppbv	100
95)	n-Butylbenzene	13.904	91	321309	11.1015661	ppbv	99
96)	1,2-Dichlorobenzene	14.044	146	176249	11.3326710	ppbv	100
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	89102	12.3211078	ppbv	100
98)	1,2,4-Trichlorobenzene	15.522	180	85557	14.7865206	ppbv	100
99)	Hexachloro-1,3-Butadiene	15.601	225	150047	10.4265630	ppbv	99
100)	Naphthalene	15.808	128	202726	13.6799534	ppbv	100
101)	TPH (GC/MS) Low Fraction	10.000	TIC	26936251m	460.7114208	ppbv	
102)	TPH-GRO (C5-C10)	10.000	TIC	31449572m	572.6329121	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_13.D
Acq On : 30 Nov 2022 10:55 pm
Operator :
Sample : STD AMS 10.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 13 Sample Multiplier: 1

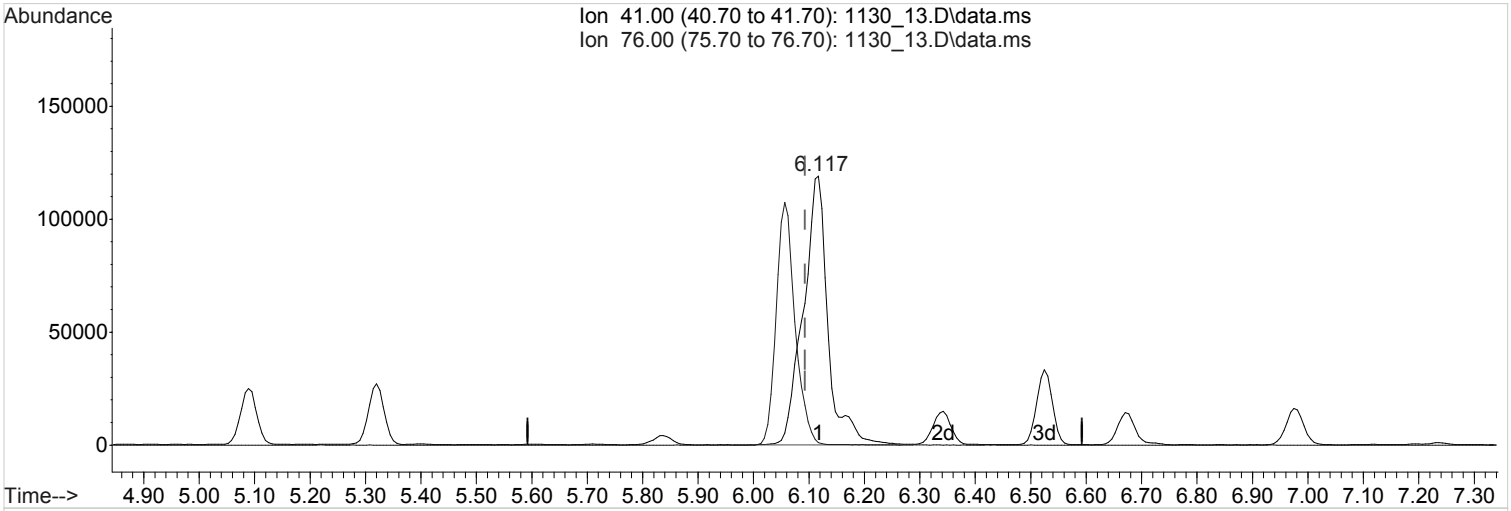
Quant Time: Dec 01 08:13:17 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:12:01 2022
Response via : Initial Calibration

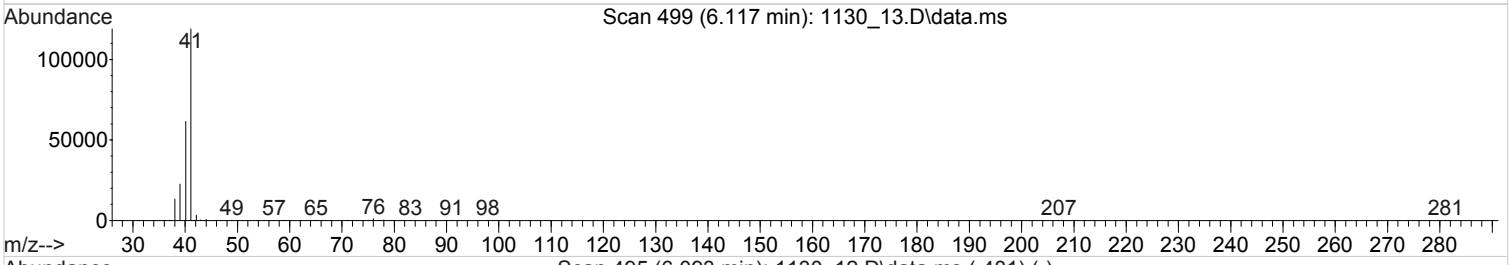


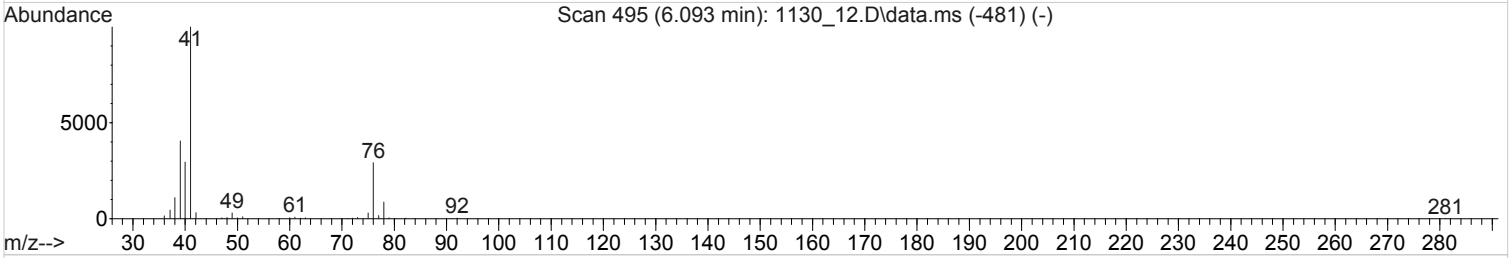
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_13.D
Acq On : 30 Nov 2022 10:55 pm
Operator :
Sample : STD AMS 10.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 01 08:12:10 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:12:01 2022
Response via : Initial Calibration







TIC: 1130_13.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 49.2949433 ppbv

Qvalue = 1

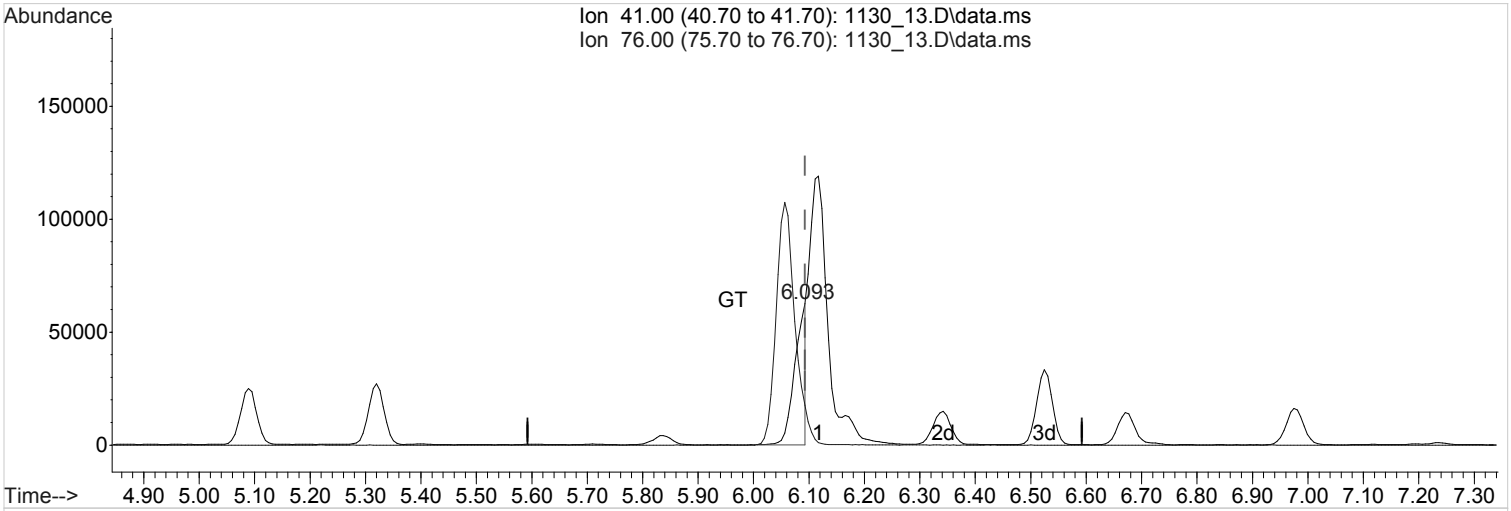
response 368204

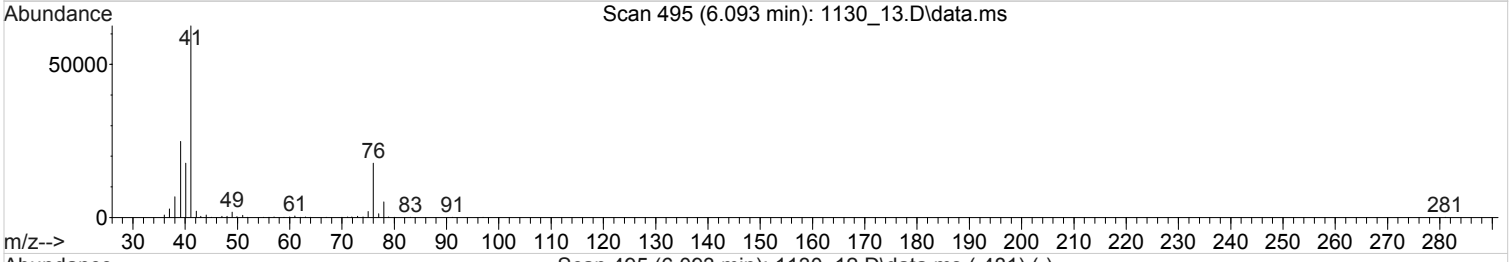
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	69.10#
0.00	0.00	0.00
0.00	0.00	0.00

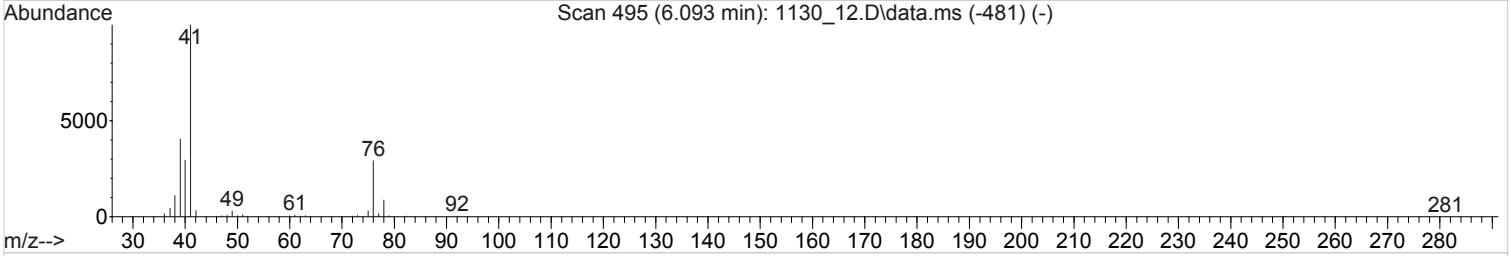
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_13.D
Acq On : 30 Nov 2022 10:55 pm
Operator :
Sample : STD AMS 10.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 01 08:12:10 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:12:01 2022
Response via : Initial Calibration







TIC: 1130_13.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 11.9128598 ppbv m

response 88982

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	285.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_14.D
Acq On : 30 Nov 2022 11:36 pm
Operator :
Sample : STD AMS 25.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 01 08:15:08 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:13:26 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	93994	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	363264	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	330277	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	231161	4.2402243	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 106.01%			
Target Compounds						Qvalue
2) Propene	4.182	41	120292	16.3552176	ppbv	99
3) BUTANE	4.578	43	190600	20.8351246	ppbv	98
4) 1,1-DIFLUOROETHANE	4.182	51	181870	24.3160110	ppbv	99
5) Dichlorodifluoromethane	4.225	85	419351	25.7909851	ppbv	99
6) CHLORODIFLUOROMETHANE	4.243	51	234410	26.1260354	ppbv	99
7) 1,2-Dichlorotetrafluor...	4.377	85	449118	25.3685808	ppbv	100
8) Chloromethane	4.487	50	145673	25.4462904	ppbv	98
9) Vinyl Chloride	4.602	62	144475	25.7735673	ppbv	97
10) 1,3-Butadiene	4.633	39	91426	24.0171989	ppbv	97
11) Bromomethane	4.992	94	137021	24.9243129	ppbv	99
12) Chloroethane	5.071	64	55726	22.7088341	ppbv	98
13) ISOPENTANE	5.089	43	140221	22.5484648	ppbv	96
14) Vinyl Bromide	5.259	106	137125	24.4350722	ppbv	99
15) Trichlorofluoromethane	5.284	101	345152	25.5852709	ppbv	100
16) PENTANE	5.320	43	252012	18.8013527	ppbv	99
17) Ethanol	5.399	45	66941	17.5364084	ppbv	98
18) ACROLEIN	5.703	56	65848	22.7414683	ppbv	99
19) 1,1,2-Trichlorotrifluo...	5.697	101	363409	24.8482080	ppbv	100
20) 1,1-Dichloroethene	5.782	61	261835	25.1729850	ppbv	99
21) Acetone	5.819	43	230488	21.1850429	ppbv	99
22) BROMOETHANE	5.965	108	152901	25.0206387	ppbv	100
23) 2-Propanol	5.837	45	258466	21.5506594	ppbv	97
24) Carbon Disulfide	6.056	76	602891	22.8202597	ppbv	98
25) Allyl Chloride	6.093	41	206256m	27.4497125	ppbv	
26) METHYL ACETATE	6.044	43	288107	24.9359590	ppbv #	100
27) ACETONITRILE	6.117	41	815248	126.7933555	ppbv	99
28) Methylene Chloride	6.208	49	171738	23.6588088	ppbv	99
29) TERT-BUTYL ALCOHOL	6.172	59	309016	25.6847597	ppbv	96
30) Methyl Tert-Butyl Ether	6.342	73	413331	25.4659541	ppbv	99
31) Trans-1,2-Dichloroethene	6.403	61	260734	25.3387014	ppbv	98
32) ACRYLONITRILE	6.433	53	130919	24.5697618	ppbv	100
33) n-Hexane	6.525	57	237611	24.5753270	ppbv	98
34) 1,1-Dichloroethane	6.792	63	318645	25.0396640	ppbv	99
35) Vinyl Acetate	6.719	43	370455	24.1758244	ppbv	100
36) DI-ISOPROPYL ETHER	6.671	45	493514	25.4313229	ppbv	99
37) ETHYL TERT-BUTYL ETHER	6.975	59	527413	25.6638238	ppbv	100
38) ETHYL ACETATE	7.194	45	52695	24.4775491	ppbv	98
39) 2-Butanone (MEK)	7.236	72	78726	24.9218286	ppbv	98
40) cis-1,2-Dichloroethene	7.279	61	246807	25.1230301	ppbv	99
41) Tetrahydrofuran	7.510	42	162529	24.3861345	ppbv	98
42) Chloroform	7.510	83	341478	24.6206568	ppbv	100
43) Cyclohexane	7.723	84	191574	24.7471980	ppbv	98
44) 1,1,1-Trichloroethane	7.705	97	351967	25.1539157	ppbv	100
45) Carbon Tetrachloride	7.833	117	383592	25.9149442	ppbv	100
46) 2,2,4-Trimethylpentane	7.942	57	797606	25.1324764	ppbv	100
48) Benzene	8.033	78	496751	23.5667541	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_14.D
Acq On : 30 Nov 2022 11:36 pm
Operator :
Sample : STD AMS 25.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 01 08:15:08 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:13:26 2022
Response via : Initial Calibration

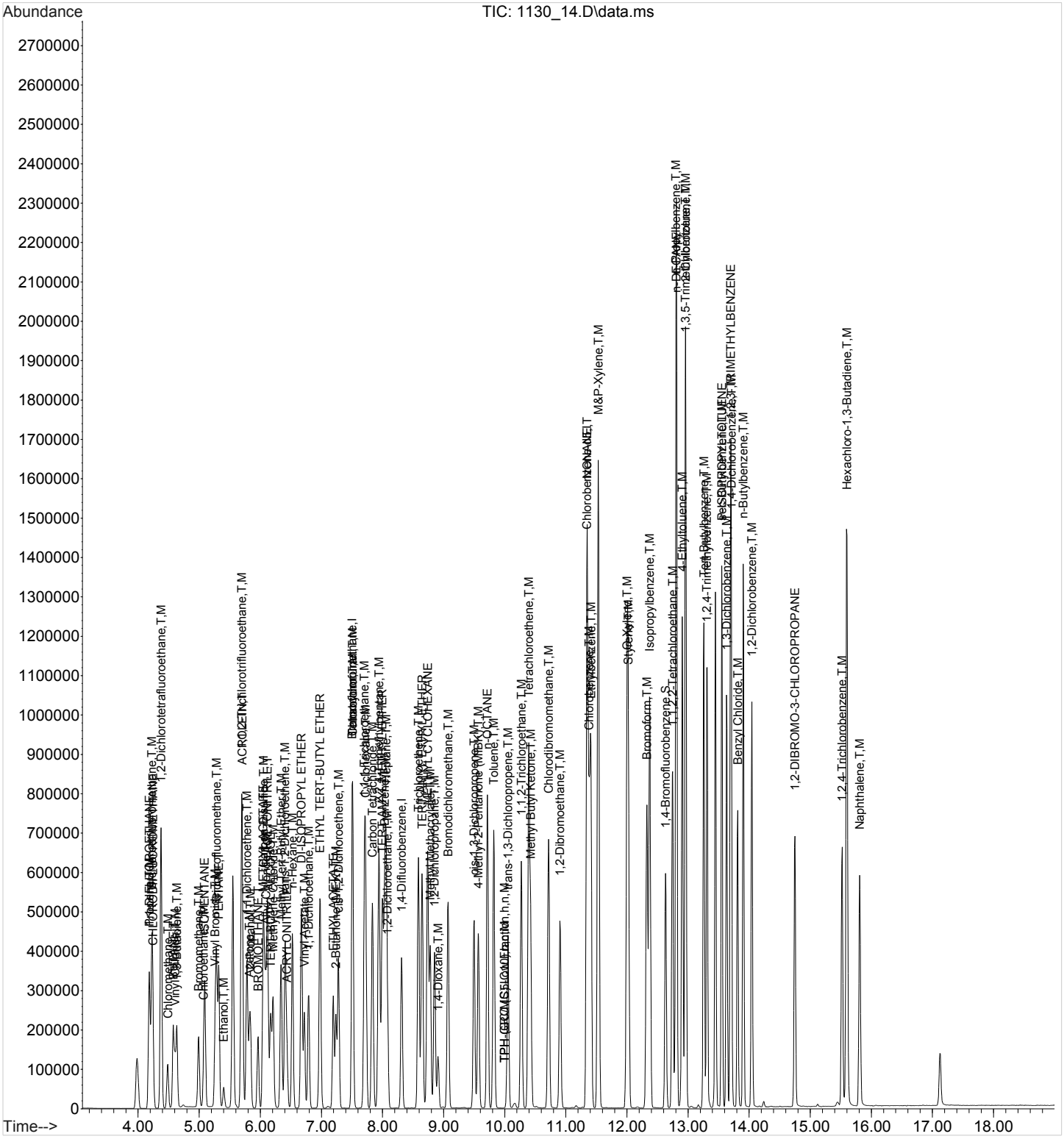
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) TERT-AMYL METHYL ETHER	7.997	73	499812	24.2390040	ppbv	99
50) 1,2-Dichloroethane	8.082	62	188010	24.3434095	ppbv	99
51) Heptane	8.058	43	271853	23.3764405	ppbv	99
52) Trichloroethene	8.587	95	254668	25.3082783	ppbv	99
53) TERT-AMYL ETHYL ETHER	8.648	73	164833	23.5263554	ppbv	99
54) METHYL CYCLOHEXANE	8.739	83	334768	24.1491517	ppbv	98
55) 1,2-Dichloropropane	8.849	63	216089	25.1244615	ppbv	100
56) Methyl Methacrylate	8.782	41	233123	25.3347323	ppbv	100
57) 1,4-Dioxane	8.909	88	113388	26.6295504	ppbv	98
58) Bromodichloromethane	9.074	83	401455	25.4104139	ppbv	99
59) cis-1,3-Dichloropropene	9.499	75	350917	26.2260114	ppbv	99
60) 4-Methyl-2-Pentanone (...	9.566	43	370921	25.1126898	ppbv	100
61) n-OCTANE	9.718	43	444371	24.5922554	ppbv	99
62) Toluene	9.822	91	649335	24.2023210	ppbv	99
63) trans-1,3-Dichloropropene	10.053	75	302762	25.8001422	ppbv	99
64) 1,1,2-Trichloroethane	10.272	97	251329	25.3848653	ppbv	99
65) Tetrachloroethene	10.394	166	333181	25.1048978	ppbv	99
66) Methyl Butyl Ketone	10.424	43	350114	25.7923682	ppbv	98
67) Chlorodibromomethane	10.716	129	488064	26.8352629	ppbv	99
68) 1,2-Dibromoethane	10.905	107	408979	25.8282817	ppbv	100
69) Chlorobenzene	11.379	112	501482	25.4216588	ppbv	96
70) NONANE	11.349	43	467499	24.2433043	ppbv	99
72) Ethylbenzene	11.410	91	783862	24.4992510	ppbv	100
73) M&P-Xylene	11.531	91	1232067	48.7677006	ppbv	100
74) O-Xylene	12.000	91	652754	24.8708794	ppbv	99
77) Styrene	12.024	104	532294	25.3542982	ppbv	100
78) Bromoform	12.328	173	489236	27.6794298	ppbv	100
79) Isopropylbenzene	12.371	105	885862	24.6692274	ppbv	100
80) n-DECANE	12.809	43	414698	23.7242761	ppbv	97
81) 1,1,2,2-Tetrachloroethane	12.748	83	534480	25.2506887	ppbv	99
82) n-Propylbenzene	12.803	91	1022618	24.6974666	ppbv	99
83) 4-Ethyltoluene	12.906	105	836518	25.2336213	ppbv	100
84) 2-Chlorotoluene	12.961	126	207688	23.8880396	ppbv	97
86) 1,3,5-Trimethylbenzene	12.955	105	664904	23.5798111	ppbv	99
87) Tert-Butylbenzene	13.259	119	615607	24.1249421	ppbv	100
88) 1,2,4-Trimethylbenzene	13.308	105	649091	23.9541072	ppbv	99
89) sec-Butylbenzene	13.551	134	189810	24.4938938	ppbv	97
90) 1,3-Dichlorobenzene	13.630	146	447626	28.3932984	ppbv	99
91) P-ISOPROPYLTOLUENE	13.551	119	765915	24.3810371	ppbv	99
92) 1,4-Dichlorobenzene	13.709	146	418144	27.9975665	ppbv	99
93) 1,2,3-TRIMETHYLBENZENE	13.697	105	631526	23.5611673	ppbv	99
94) Benzyl Chloride	13.813	91	536007	31.8126664	ppbv	99
95) n-Butylbenzene	13.904	91	775500	26.4800211	ppbv	99
96) 1,2-Dichlorobenzene	14.044	146	431640	27.3396625	ppbv	100
97) 1,2-DIBROMO-3-CHLOROPR...	14.750	157	226462	30.4261432	ppbv	99
98) 1,2,4-Trichlorobenzene	15.522	180	254585	41.3403606	ppbv	99
99) Hexachloro-1,3-Butadiene	15.601	225	379817	26.3333488	ppbv	99
100) Naphthalene	15.808	128	568865	36.6091267	ppbv	100
101) TPH (GC/MS) Low Fraction	10.000	TIC	64234277m	1129.0305233	ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	74647633m	1418.2392277	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_14.D
Acq On : 30 Nov 2022 11:36 pm
Operator :
Sample : STD AMS 25.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 14 Sample Multiplier: 1

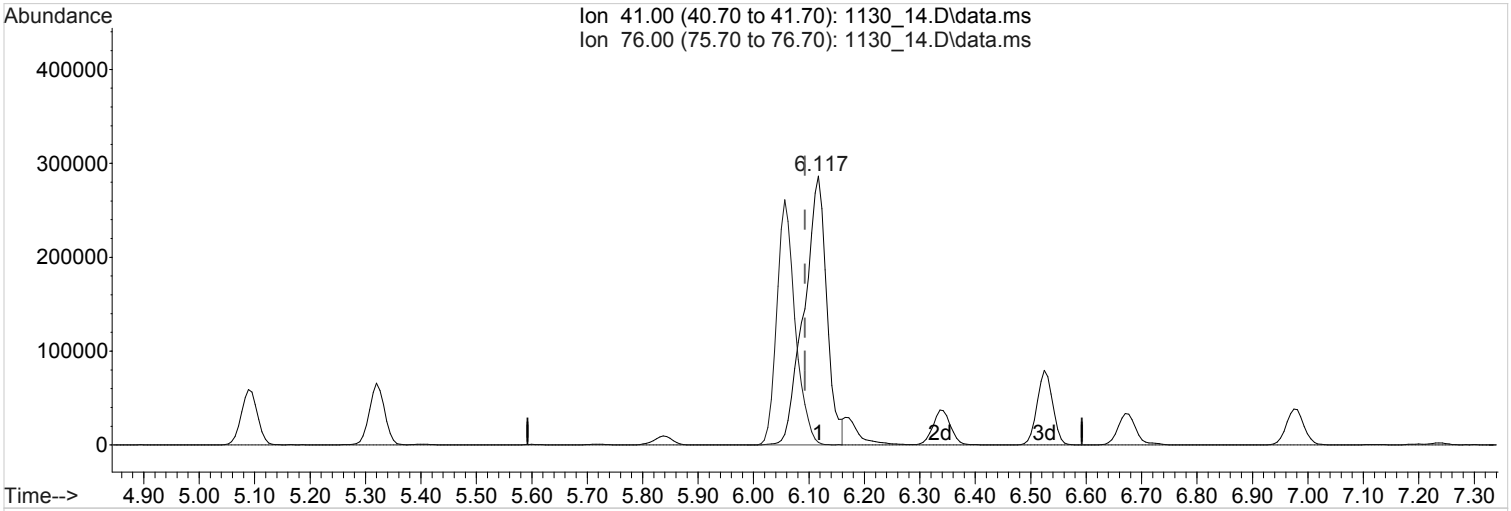
Quant Time: Dec 01 08:15:08 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:13:26 2022
Response via : Initial Calibration

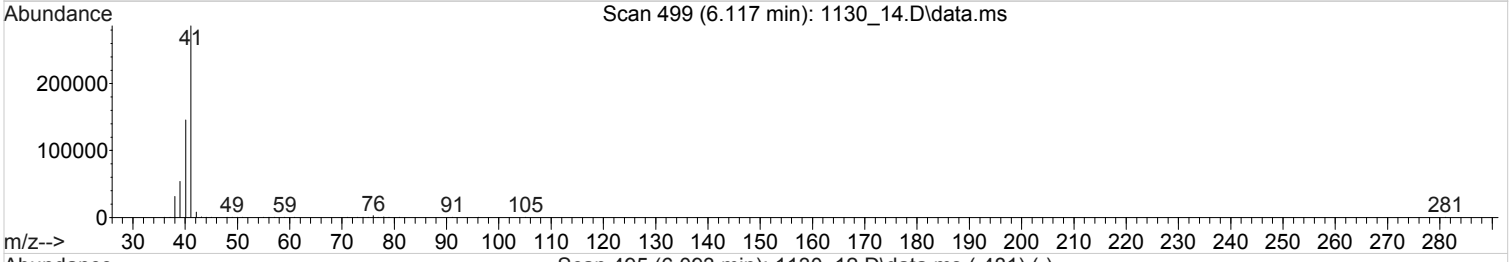


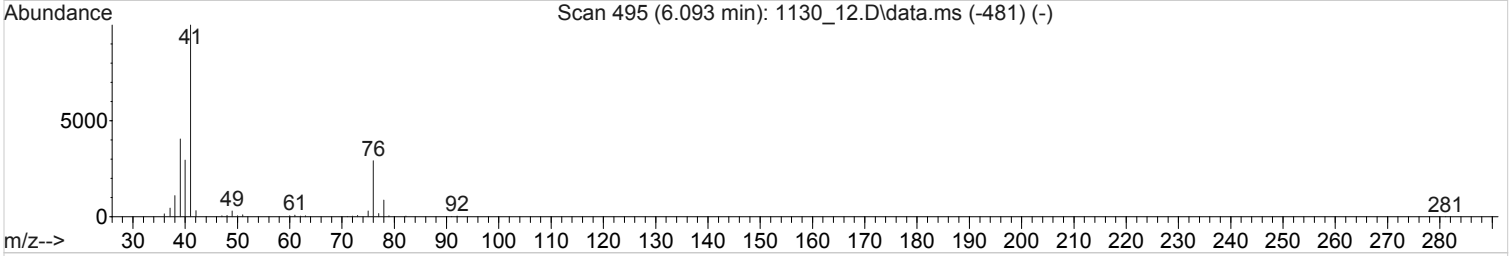
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_14.D
Acq On : 30 Nov 2022 11:36 pm
Operator :
Sample : STD AMS 25.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 01 08:13:30 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:13:26 2022
Response via : Initial Calibration







TIC: 1130_14.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 108.4978048 ppbv

Qvalue = 1

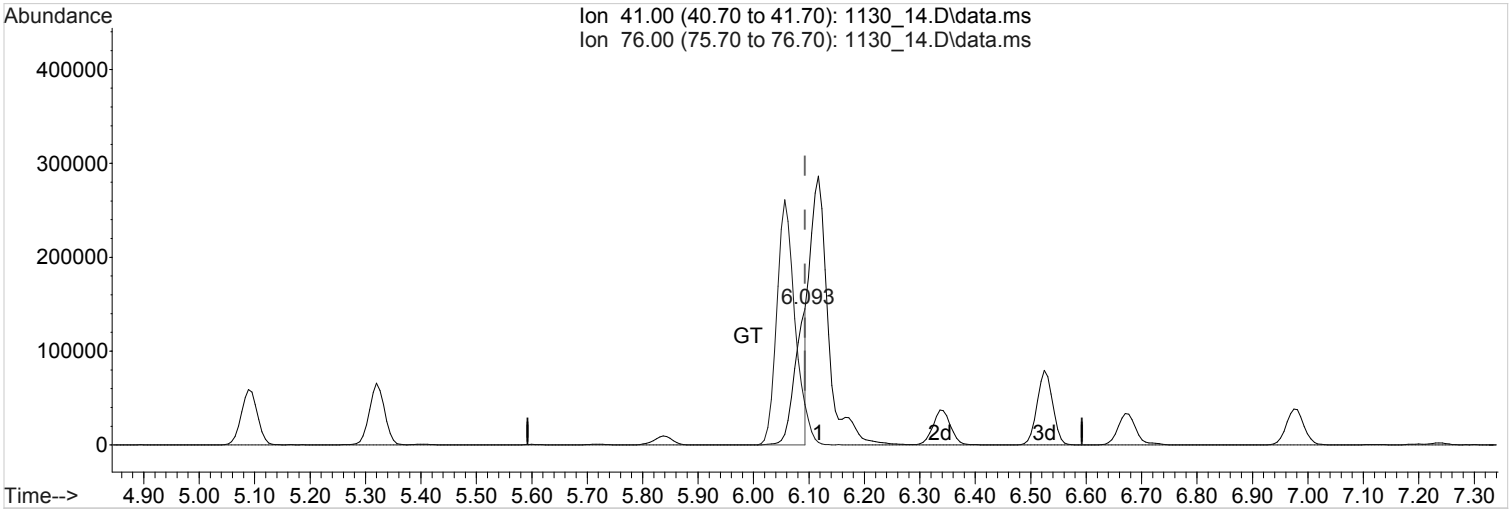
response 815248

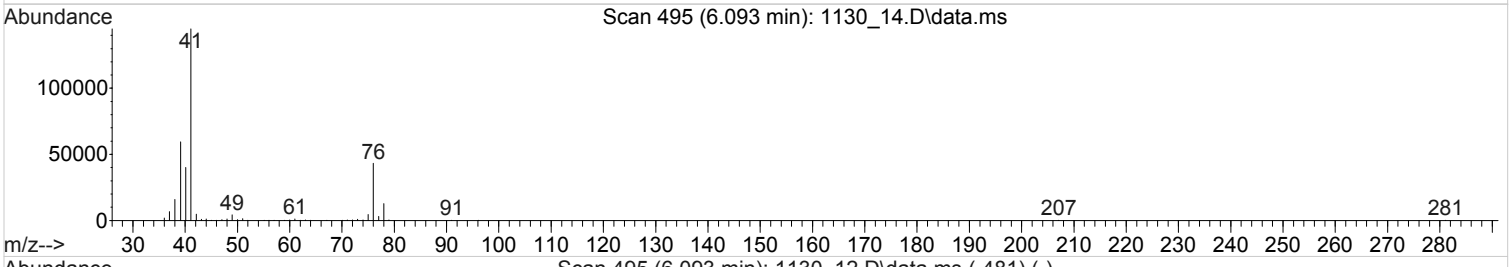
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	73.95#
0.00	0.00	0.00
0.00	0.00	0.00

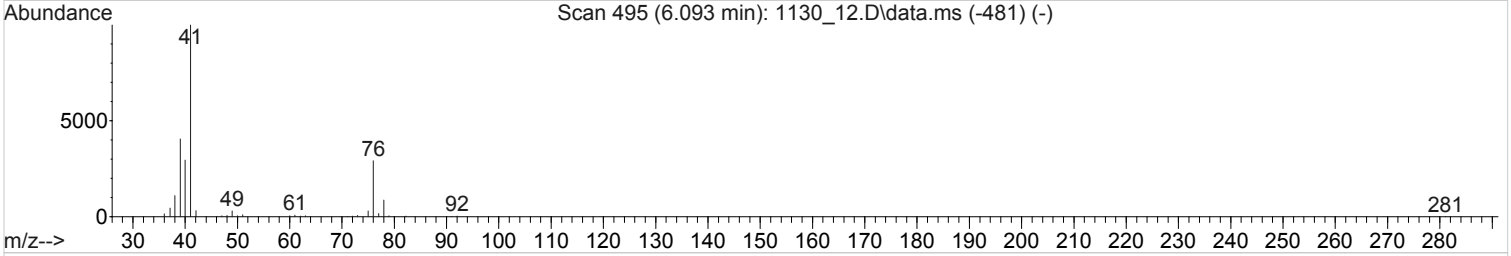
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_14.D
Acq On : 30 Nov 2022 11:36 pm
Operator :
Sample : STD AMS 25.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 01 08:13:30 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:13:26 2022
Response via : Initial Calibration







TIC: 1130_14.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 27.4497125 ppbv m

response 206256

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	292.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_15.D
Acq On : 1 Dec 2022 12:21 am
Operator :
Sample : STD AMS 50.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 01 08:16:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:15:18 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	93915	4.0000000	ppbv	# 0.00
47) 1,4-Difluorobenzene	8.313	114	367764	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.349	117	325050	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	233078	4.3117705	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 107.79%			
Target Compounds						Qvalue
2) Propene	4.182	41	237322	33.7530044	ppbv	99
3) BUTANE	4.578	43	370238	41.3674522	ppbv	98
4) 1,1-DIFLUOROETHANE	4.182	51	360218	48.3670560	ppbv	100
5) Dichlorodifluoromethane	4.225	85	792783	48.6066322	ppbv	99
6) CHLORODIFLUOROMETHANE	4.243	51	451257	50.0550845	ppbv	100
7) 1,2-Dichlorotetrafluor...	4.377	85	862171	48.6513240	ppbv	100
8) Chloromethane	4.487	50	286747	50.0197410	ppbv	99
9) Vinyl Chloride	4.602	62	278760	49.5793598	ppbv	98
10) 1,3-Butadiene	4.633	39	176069	46.5200409	ppbv	96
11) Bromomethane	4.992	94	261614	47.6460165	ppbv	99
12) Chloroethane	5.077	64	107430	44.3232536	ppbv	97
13) ISOPENTANE	5.089	43	267677	43.6150607	ppbv	96
14) Vinyl Bromide	5.259	106	261195	46.7149056	ppbv	99
15) Trichlorofluoromethane	5.284	101	652111	48.2388868	ppbv	100
16) PENTANE	5.320	43	475583	36.6465046	ppbv	99
17) Ethanol	5.405	45	131486	35.8104902	ppbv	98
18) ACROLEIN	5.709	56	130633	45.6694965	ppbv	98
19) 1,1,2-Trichlorotrifluo...	5.697	101	708011	48.4880040	ppbv	100
20) 1,1-Dichloroethene	5.782	61	502742	48.3327923	ppbv	100
21) Acetone	5.819	43	447360	41.9534277	ppbv	99
22) BROMOETHANE	5.965	108	304701	49.8979036	ppbv	100
23) 2-Propanol	5.843	45	488685	41.4960548	ppbv	100
24) Carbon Disulfide	6.056	76	1162303	44.5169640	ppbv	98
25) Allyl Chloride	6.093	41	375334m	49.3886456	ppbv	
26) METHYL ACETATE	6.044	43	558299	48.3774943	ppbv #	100
27) ACETONITRILE	6.117	41	1541081	239.4524259	ppbv #	91
28) Methylene Chloride	6.208	49	334917	46.4890855	ppbv	99
29) TERT-BUTYL ALCOHOL	6.172	59	583766	48.3965173	ppbv	96
30) Methyl Tert-Butyl Ether	6.342	73	808069	49.7124262	ppbv	99
31) Trans-1,2-Dichloroethene	6.409	61	506694	49.1997344	ppbv	98
32) ACRYLONITRILE	6.439	53	259095	48.7705580	ppbv	99
33) n-Hexane	6.525	57	464923	48.2283173	ppbv	99
34) 1,1-Dichloroethane	6.792	63	624397	49.0977109	ppbv	100
35) Vinyl Acetate	6.719	43	721891	47.3452049	ppbv	100
36) DI-ISOPROPYL ETHER	6.671	45	966500	49.7394416	ppbv	98
37) ETHYL TERT-BUTYL ETHER	6.975	59	1010987	49.0729523	ppbv	99
38) ETHYL ACETATE	7.194	45	105440	49.1479107	ppbv	96
39) 2-Butanone (MEK)	7.242	72	154452	48.9542279	ppbv	96
40) cis-1,2-Dichloroethene	7.279	61	483097	49.1866201	ppbv	99
41) Tetrahydrofuran	7.510	42	316048	47.6064020	ppbv	98
42) Chloroform	7.510	83	672440	48.6161014	ppbv	100
43) Cyclohexane	7.723	84	370472	47.9578080	ppbv	97
44) 1,1,1-Trichloroethane	7.705	97	695454	49.7053502	ppbv	99
45) Carbon Tetrachloride	7.833	117	747757	50.3296775	ppbv	99
46) 2,2,4-Trimethylpentane	7.942	57	1531296	48.2595885	ppbv	99
48) Benzene	8.033	78	979095	46.2128187	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_15.D
Acq On : 1 Dec 2022 12:21 am
Operator :
Sample : STD AMS 50.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 01 08:16:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:15:18 2022
Response via : Initial Calibration

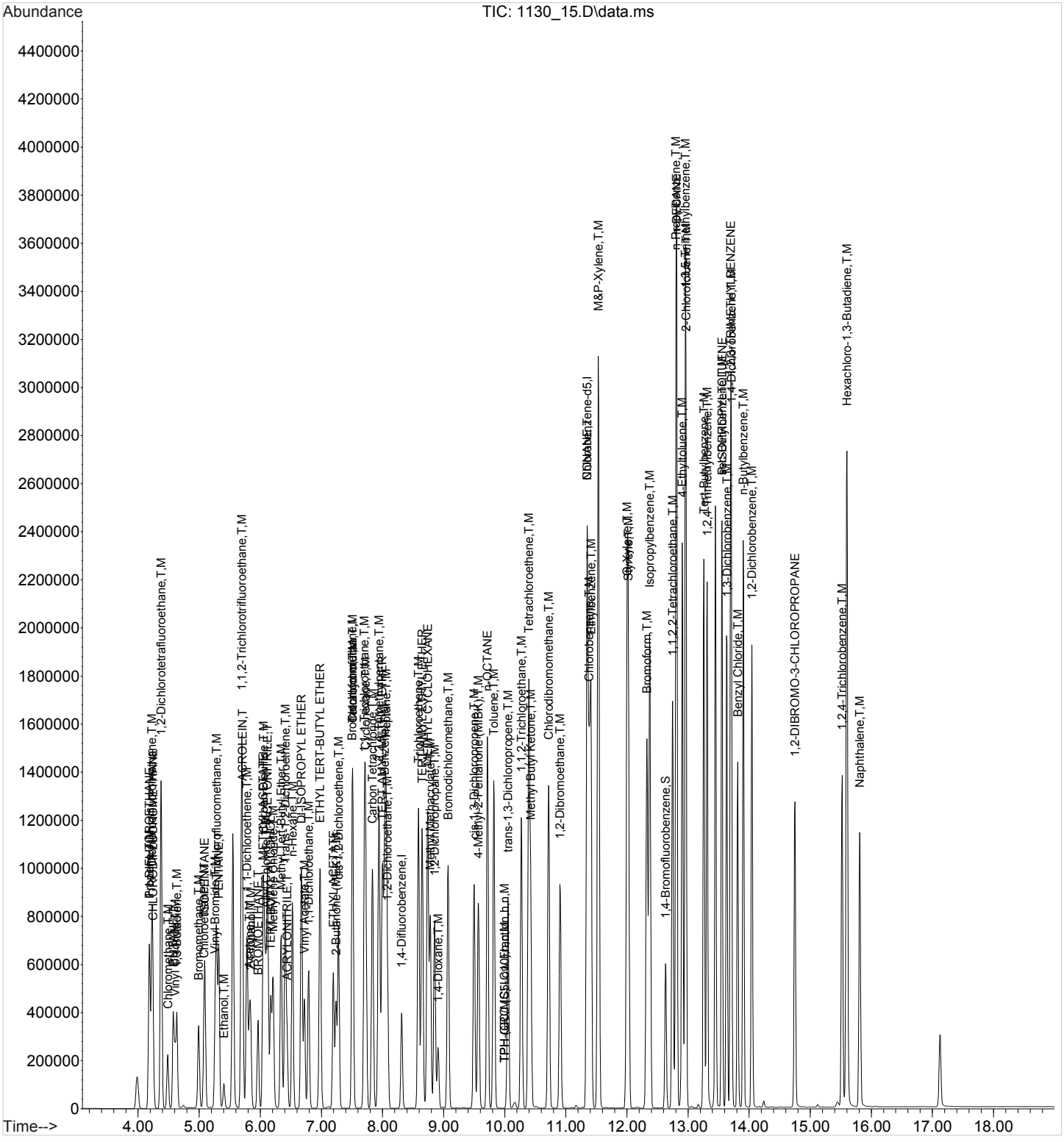
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) TERT-AMYL METHYL ETHER	7.997	73	961163	46.2182946 ppbv	98
50) 1,2-Dichloroethane	8.082	62	370283	47.5133322 ppbv	99
51) Heptane	8.058	43	526175	45.0575435 ppbv	99
52) Trichloroethene	8.587	95	501865	49.1880240 ppbv	98
53) TERT-AMYL ETHYL ETHER	8.648	73	322558	45.8124249 ppbv	98
54) METHYL CYCLOHEXANE	8.739	83	648201	46.3844402 ppbv	97
55) 1,2-Dichloropropane	8.855	63	419672	48.1678279 ppbv	99
56) Methyl Methacrylate	8.782	41	422217	45.2474183 ppbv	93
57) 1,4-Dioxane	8.909	88	222187	51.1262977 ppbv	99
58) Bromodichloromethane	9.074	83	782447	48.8194243 ppbv	99
59) cis-1,3-Dichloropropene	9.499	75	696270	51.0863111 ppbv	98
60) 4-Methyl-2-Pentanone (...	9.566	43	723588	48.3628270 ppbv	99
61) n-OCTANE	9.718	43	858213	47.0096694 ppbv	99
62) Toluene	9.822	91	1273781	47.0838230 ppbv	99
63) trans-1,3-Dichloropropene	10.053	75	614027	51.4786712 ppbv	98
64) 1,1,2-Trichloroethane	10.272	97	492862	49.0767529 ppbv	99
65) Tetrachloroethene	10.394	166	649662	48.3271428 ppbv	99
66) Methyl Butyl Ketone	10.424	43	667451	48.3767926 ppbv	98
67) Chlorodibromomethane	10.716	129	957628	51.5361548 ppbv	100
68) 1,2-Dibromoethane	10.905	107	810701	50.3632194 ppbv	100
69) Chlorobenzene	11.379	112	952404	47.5891816 ppbv	96
70) NONANE	11.349	43	900185	46.2852172 ppbv	98
72) Ethylbenzene	11.410	91	1503785	47.8757766 ppbv	99
73) M&P-Xylene	11.531	91	2373754	95.7639037 ppbv	99
74) O-Xylene	12.000	91	1281368	49.6391239 ppbv	100
77) Styrene	12.024	104	1027061	49.6198851 ppbv	99
78) Bromoform	12.328	173	982056	55.7087570 ppbv	99
79) Isopropylbenzene	12.371	105	1680630	47.6330737 ppbv	99
80) n-DECANE	12.815	43	722170	42.2481508 ppbv	96
81) 1,1,2,2-Tetrachloroethane	12.748	83	1041962	49.9548648 ppbv	99
82) n-Propylbenzene	12.803	91	1835953	45.1217707 ppbv	98
83) 4-Ethyltoluene	12.906	105	1579194	48.3460427 ppbv	99
84) 2-Chlorotoluene	12.967	126	386220	45.3892864 ppbv	97
86) 1,3,5-Trimethylbenzene	12.955	105	1233797	44.7762943 ppbv	99
87) Tert-Butylbenzene	13.259	119	1175349	47.0069493 ppbv	99
88) 1,2,4-Trimethylbenzene	13.314	105	1221310	46.0368459 ppbv	99
89) sec-Butylbenzene	13.557	134	364406	47.9019077 ppbv	94
90) 1,3-Dichlorobenzene	13.636	146	867597	54.9844774 ppbv	99
91) P-ISOPROPYLTOLUENE	13.557	119	1438186	46.6617436 ppbv	98
92) 1,4-Dichlorobenzene	13.709	146	784116	52.5583903 ppbv	99
93) 1,2,3-TRIMETHYLBENZENE	13.697	105	1148994	43.8719732 ppbv	99
94) Benzyl Chloride	13.813	91	1008296	58.8028907 ppbv	99
95) n-Butylbenzene	13.904	91	1396305	48.0886944 ppbv	98
96) 1,2-Dichlorobenzene	14.044	146	835050	53.1203688 ppbv	100
97) 1,2-DIBROMO-3-CHLOROPR...	14.750	157	422333	56.1318075 ppbv	99
98) 1,2,4-Trichlorobenzene	15.522	180	538246	82.0999452 ppbv	100
99) Hexachloro-1,3-Butadiene	15.601	225	719004	50.3159223 ppbv	98
100) Naphthalene	15.808	128	1117206	69.0457857 ppbv	100
101) TPH (GC/MS) Low Fraction	10.000	TIC	123238077m	2251.2998277 ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	143134406m	2860.6698961 ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_15.D
Acq On : 1 Dec 2022 12:21 am
Operator :
Sample : STD AMS 50.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 15 Sample Multiplier: 1

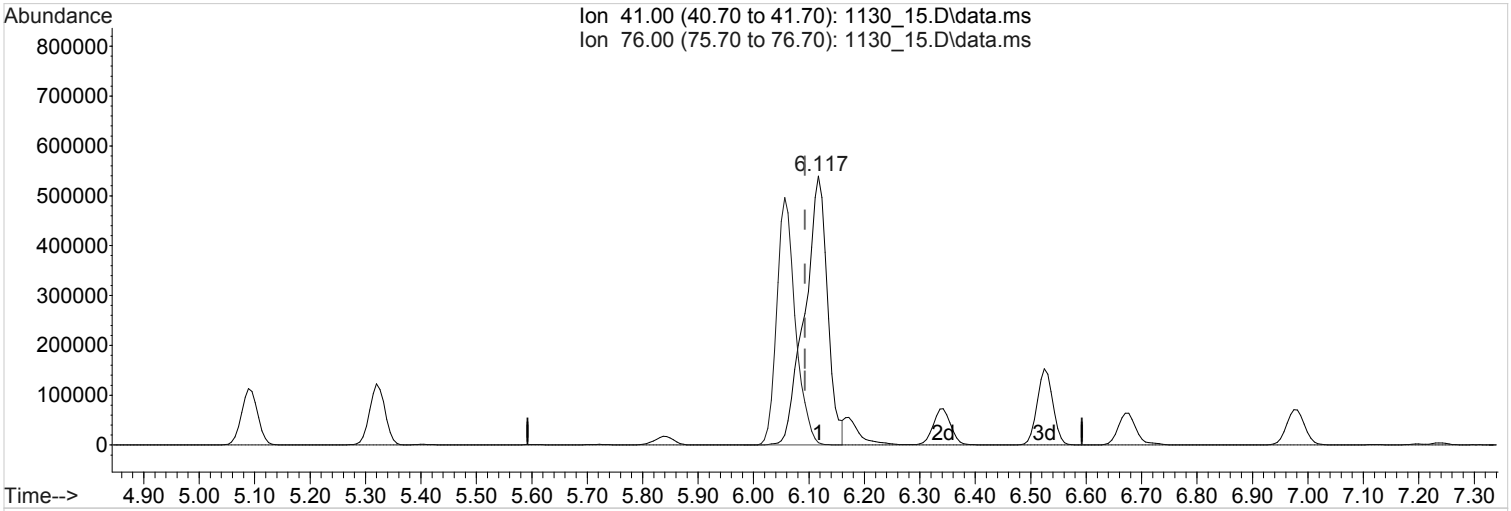
Quant Time: Dec 01 08:16:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:15:18 2022
Response via : Initial Calibration

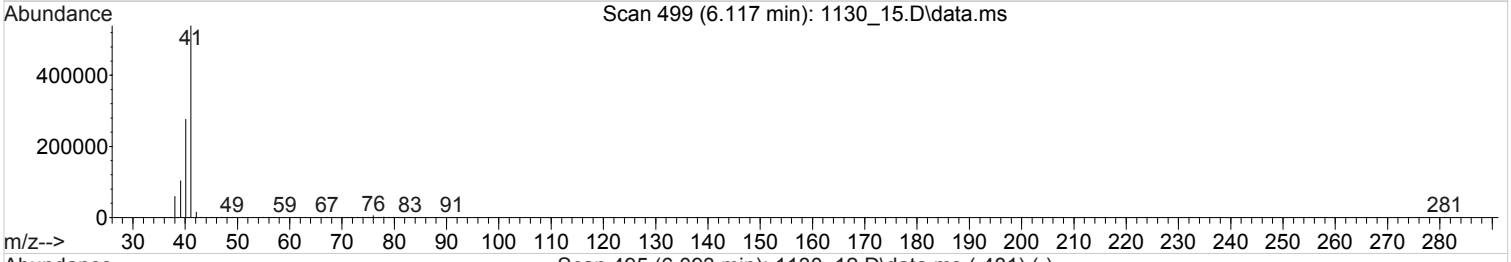

Abundance
TIC: 1130_15.D\data.ms
Time-->
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
M&P-Xylene,T,M
Hexachloro-1,3-Butadiene,T,M
1,2-DIBROMO-3-CHLOROPROPANE
Naphthalene,T,M
Isopropylbenzene,T,M
Bromoform,T,M
1,1,2,2-Tetrachloroethane,T,M
Tetrachloroethene,T,M
Chlorodibromomethane,T,M
1,2-Dibromoethane,T,M
Toluene,T,M
Chlorobenzene-d5,I
1,2-Dichlorobenzene,T,M
Benzyl Chloride,T,M
1,4-Bromofluorobenzene,S
1,4-Difluorobenzene,I
1,4-Dioxane,T,M
Bromodichloromethane,T,M
1,1,2-Trichlorotrifluoroethane,T,M
1,2-Dichlorotetrafluoroethane,T,M
Ethanol,T,M
Vinyl Bromide,T,M
Chloroethane,T,M
Vinyl Chloride,T,M
Chloromethane,T,M
ACROLEIN,T
ACRYLONITRILE,T,M
ETHYL TERT-BUTYL ETHER
DIISOPROPYL ETHER
Carbon Tetrachloride,T,M
1,2-Dichloroethane,I
4-Methyl-2-Pentanone(MIBK),T,M
Methyl Butyl Ketone,T,M
1,1,2-Trichloroethane,T,M
trans-1,3-Dichloropropene,T,M
1,1-Dichloroethene,T,M
Methylene Chloride,T,M
Trichlorofluoromethane,T,M
Bromochloromethane,S
Chloroform,T,M
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Toluene-d8,S
4-Bromofluorobenzene,S

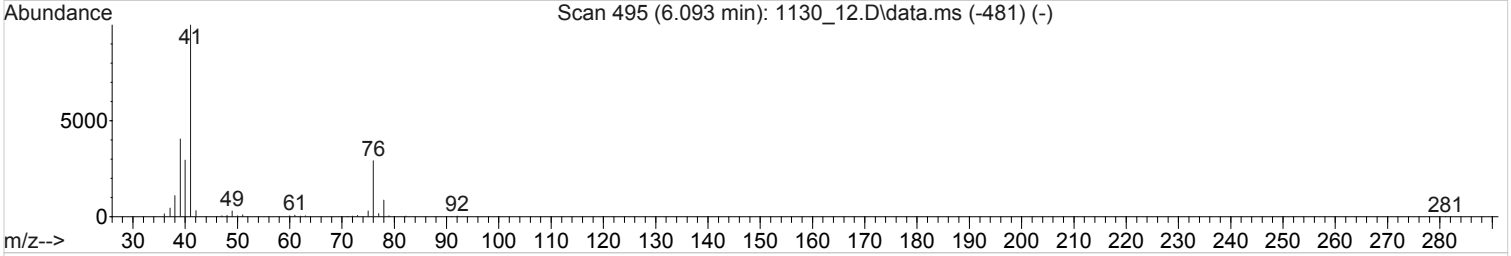
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_15.D
Acq On : 1 Dec 2022 12:21 am
Operator :
Sample : STD AMS 50.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 01 08:15:23 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:15:18 2022
Response via : Initial Calibration







TIC: 1130_15.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 202.7844622 ppbv

Qvalue = 1

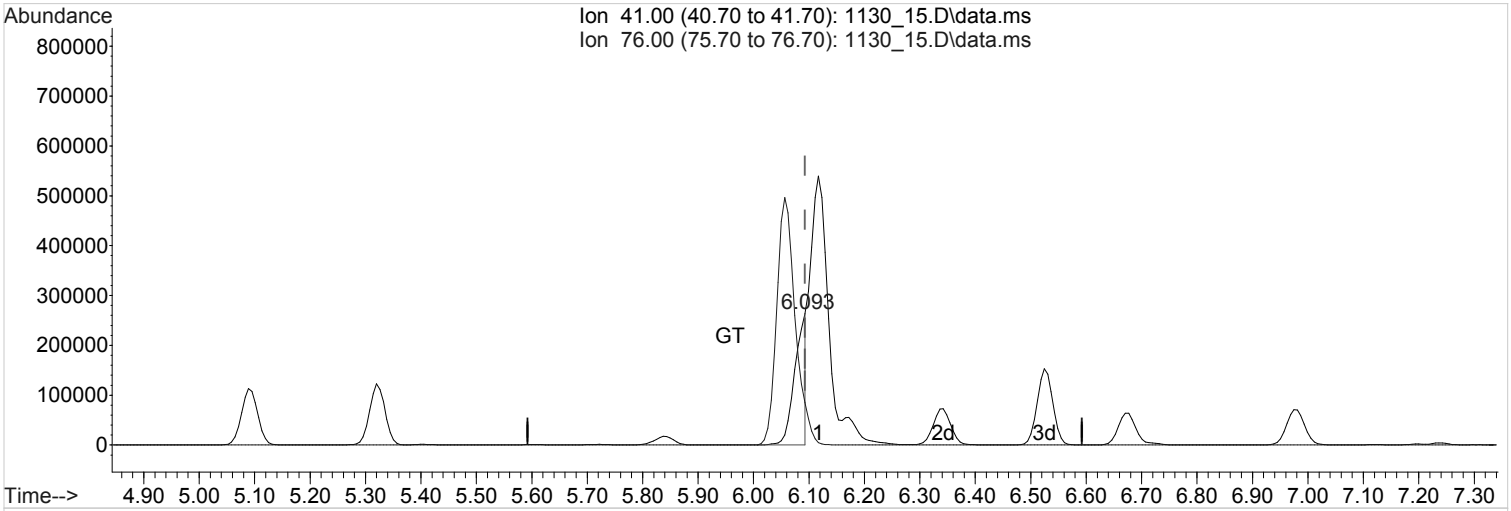
response 1541081

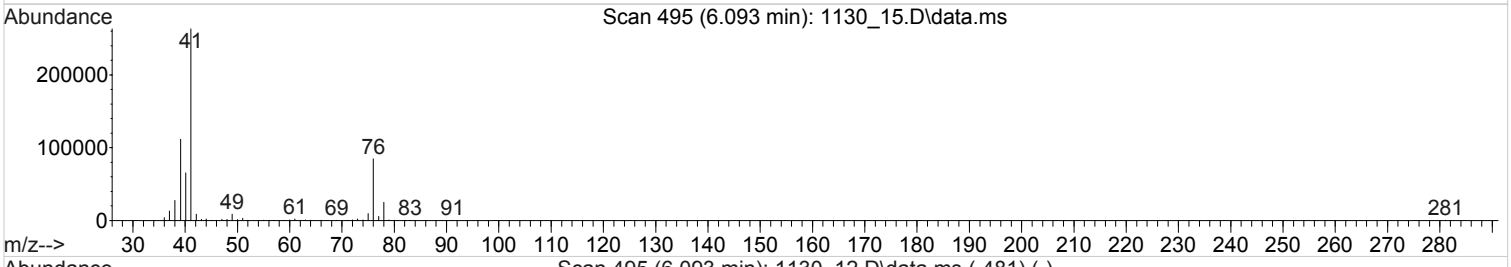
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	75.43#
0.00	0.00	0.00
0.00	0.00	0.00

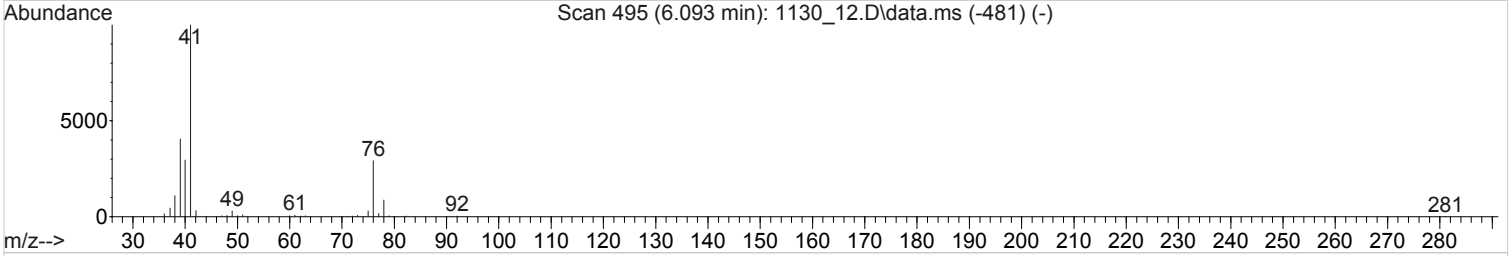
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_15.D
Acq On : 1 Dec 2022 12:21 am
Operator :
Sample : STD AMS 50.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 01 08:15:23 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:15:18 2022
Response via : Initial Calibration







TIC: 1130_15.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 49.3886456 ppbv m

response 375334

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	309.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_16.D
Acq On : 1 Dec 2022 1:11 am
Operator :
Sample : STD AMS 100.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 01 08:17:47 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:16:31 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.510	130	90898	4.0000000	ppbv	# 0.00
47) 1,4-Difluorobenzene	8.313	114	369962	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.349	117	305089	4.0000000	ppbv	# 0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	239903	4.6877963	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 117.19%			
Target Compounds						Qvalue
2) Propene	4.183	41	450843	68.7306451	ppbv	99
3) BUTANE	4.572	43	694278	81.7154226	ppbv	99
4) 1,1-DIFLUOROETHANE	4.183	51	703451	97.9439349	ppbv	99
5) Dichlorodifluoromethane	4.225	85	1258781	79.9868954	ppbv	99
6) CHLORODIFLUOROMETHANE	4.243	51	838767	96.1154180	ppbv	99
7) 1,2-Dichlorotetrafluor...	4.371	85	1614495	94.4109032	ppbv	99
8) Chloromethane	4.481	50	550238	99.1641559	ppbv	99
9) Vinyl Chloride	4.602	62	518139	95.3023315	ppbv	97
10) 1,3-Butadiene	4.633	39	322139	88.6242739	ppbv	97
11) Bromomethane	4.992	94	505360	95.5927387	ppbv	98
12) Chloroethane	5.071	64	203945	88.0467289	ppbv	97
13) ISOPENTANE	5.089	43	491026	83.8526477	ppbv	94
14) Vinyl Bromide	5.259	106	485704	90.4117762	ppbv	99
15) Trichlorofluoromethane	5.284	101	1180632	90.5886775	ppbv	100
16) PENTANE	5.320	43	881347	72.3129914	ppbv	100
17) Ethanol	5.405	45	259756	75.4730341	ppbv	98
18) ACROLEIN	5.710	56	241046	87.9130790	ppbv	99
19) 1,1,2-Trichlorotrifluo...	5.697	101	1290662	91.6324172	ppbv	98
20) 1,1-Dichloroethene	5.783	61	972562	96.9631370	ppbv	99
21) Acetone	5.819	43	852057	84.0612011	ppbv	98
22) BROMOETHANE	5.959	108	605460	102.4644130	ppbv	100
23) 2-Propanol	5.843	45	949268	84.8853929	ppbv	98
24) Carbon Disulfide	6.056	76	2215098	88.7368349	ppbv	98
25) Allyl Chloride	6.093	41	688027m	93.6668132	ppbv	
26) METHYL ACETATE	6.044	43	1065334	95.7219751	ppbv #	100
27) ACETONITRILE	6.123	41	2920055	470.9839625	ppbv #	90
28) Methylene Chloride	6.208	49	649620	93.8978178	ppbv	99
29) TERT-BUTYL ALCOHOL	6.172	59	1125344	96.7367585	ppbv	94
30) Methyl Tert-Butyl Ether	6.342	73	1592745	101.3027009	ppbv	100
31) Trans-1,2-Dichloroethene	6.403	61	990959	99.5924328	ppbv	97
32) ACRYLONITRILE	6.440	53	503375	98.1655551	ppbv	100
33) n-Hexane	6.525	57	900065	96.8475885	ppbv	99
34) 1,1-Dichloroethane	6.792	63	1203928	98.0061342	ppbv	100
35) Vinyl Acetate	6.725	43	1419025	96.7263461	ppbv	100
36) DI-ISOPROPYL ETHER	6.677	45	1854347	98.6557098	ppbv	96
37) ETHYL TERT-BUTYL ETHER	6.981	59	1984167	99.7128406	ppbv	99
38) ETHYL ACETATE	7.200	45	204736	98.7865099	ppbv	91
39) 2-Butanone (MEK)	7.243	72	307873	101.0553605	ppbv	96
40) cis-1,2-Dichloroethene	7.279	61	929832	97.9903855	ppbv	98
41) Tetrahydrofuran	7.510	42	604614	94.5991799	ppbv	98
42) Chloroform	7.510	83	1291646	96.7806167	ppbv	100
43) Cyclohexane	7.723	84	720018	96.7393860	ppbv	96
44) 1,1,1-Trichloroethane	7.705	97	1336896	98.7864655	ppbv	99
45) Carbon Tetrachloride	7.839	117	1457989	101.3165722	ppbv	99
46) 2,2,4-Trimethylpentane	7.942	57	2960056	96.7582388	ppbv	99
48) Benzene	8.040	78	1849927	87.5335988	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_16.D
Acq On : 1 Dec 2022 1:11 am
Operator :
Sample : STD AMS 100.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 16 Sample Multiplier: 1

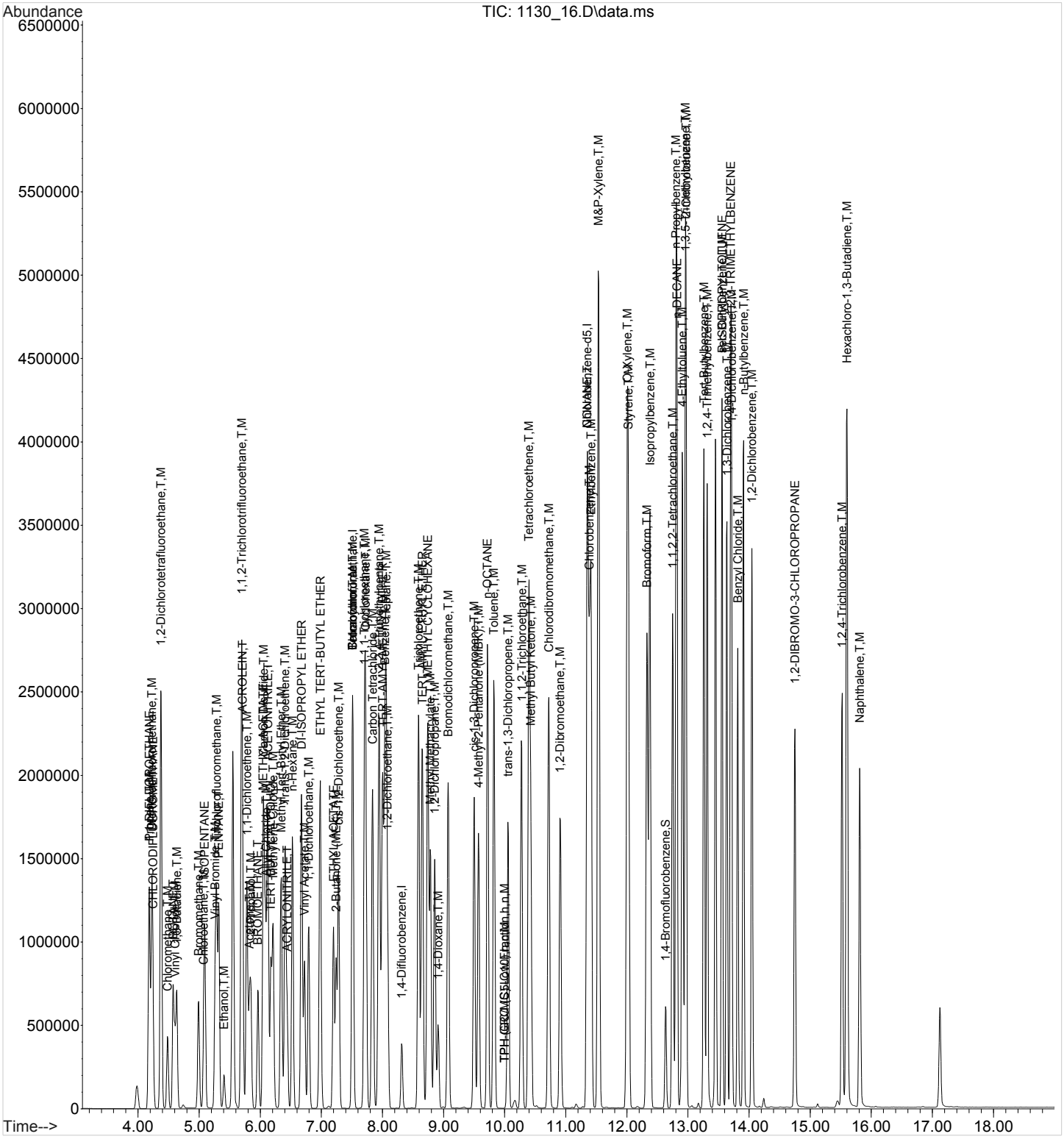
Quant Time: Dec 01 08:17:47 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:16:31 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	TERT-AMYL METHYL ETHER	8.003	73	1870547	90.1701380	ppbv	98
50)	1,2-Dichloroethane	8.082	62	715384	91.7570769	ppbv	100
51)	Heptane	8.058	43	995397	85.6726245	ppbv	99
52)	Trichloroethene	8.587	95	983044	95.9493120	ppbv	99
53)	TERT-AMYL ETHYL ETHER	8.654	73	627149	89.3755316	ppbv	98
54)	METHYL CYCLOHEXANE	8.739	83	1244864	89.2688814	ppbv	99
55)	1,2-Dichloropropane	8.855	63	811246	92.9359128	ppbv	99
56)	Methyl Methacrylate	8.782	41	842920	90.7543910	ppbv	94
57)	1,4-Dioxane	8.909	88	433308	98.8664345	ppbv	99
58)	Bromodichloromethane	9.074	83	1526431	94.9222157	ppbv	99
59)	cis-1,3-Dichloropropene	9.500	75	1376135	100.1273825	ppbv	98
60)	4-Methyl-2-Pentanone (...	9.573	43	1393720	92.9374744	ppbv	99
61)	n-OCTANE	9.719	43	1593616	87.3541378	ppbv	98
62)	Toluene	9.822	91	2411450	89.1848050	ppbv	97
63)	trans-1,3-Dichloropropene	10.053	75	1200654	99.7344285	ppbv	98
64)	1,1,2-Trichloroethane	10.278	97	936375	92.8761772	ppbv	100
65)	Tetrachloroethene	10.394	166	1220256	90.5699614	ppbv	99
66)	Methyl Butyl Ketone	10.424	43	1258674	91.0148856	ppbv	97
67)	Chlorodibromomethane	10.722	129	1817720	96.9112603	ppbv	99
68)	1,2-Dibromoethane	10.905	107	1567553	96.7245468	ppbv	100
69)	Chlorobenzene	11.386	112	1745812	87.1825422	ppbv	97
70)	NONANE	11.349	43	1602848	82.6066445	ppbv	96
72)	Ethylbenzene	11.410	91	2803326	95.5393427	ppbv	98
73)	M&P-Xylene	11.531	91	4104680	177.2629651	ppbv	98
74)	O-Xylene	12.006	91	2357721	97.3900720	ppbv	100
77)	Styrene	12.024	104	1856785	95.6558993	ppbv	98
78)	Bromoform	12.328	173	1888617	112.7145211	ppbv	99
79)	Isopropylbenzene	12.377	105	3112202	94.4752914	ppbv	98
80)	n-DECANE	12.821	43	1102457	69.9197763	ppbv	94
81)	1,1,2,2-Tetrachloroethane	12.748	83	1894958	96.8038609	ppbv	99
82)	n-Propylbenzene	12.803	91	2945821	77.9808972	ppbv	96
83)	4-Ethyltoluene	12.906	105	2846737	93.1956380	ppbv	97
84)	2-Chlorotoluene	12.967	126	644694	81.5583803	ppbv	95
86)	1,3,5-Trimethylbenzene	12.955	105	1989766	77.8396630	ppbv	97
87)	Tert-Butylbenzene	13.259	119	2141140	91.8464024	ppbv	98
88)	1,2,4-Trimethylbenzene	13.314	105	2189541	88.7152189	ppbv	98
89)	sec-Butylbenzene	13.557	134	668261	94.0300418	ppbv	89
90)	1,3-Dichlorobenzene	13.636	146	1605158	107.1962030	ppbv	99
91)	P-ISOPROPYLTOLUENE	13.557	119	2536165	88.3244189	ppbv	96
92)	1,4-Dichlorobenzene	13.716	146	1365535	96.9674756	ppbv	99
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	1914186	78.9463314	ppbv	98
94)	Benzyl Chloride	13.813	91	1967432	119.9003227	ppbv	97
95)	n-Butylbenzene	13.910	91	2417150	89.0714339	ppbv	97
96)	1,2-Dichlorobenzene	14.044	146	1529542	102.9514712	ppbv	99
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	774540	108.2040802	ppbv	99
98)	1,2,4-Trichlorobenzene	15.522	180	995300	150.9785023	ppbv	99
99)	Hexachloro-1,3-Butadiene	15.601	225	1210181	90.1661016	ppbv	98
100)	Naphthalene	15.808	128	1988622	125.6252829	ppbv	99
101)	TPH (GC/MS) Low Fraction	10.000	TIC	230402389m	4576.5604890	ppbv	
102)	TPH-GRO (C5-C10)	10.000	TIC	268052180m	5881.9401608	ppbv	

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

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_16.D
Acq On : 1 Dec 2022 1:11 am
Operator :
Sample : STD AMS 100.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 16 Sample Multiplier: 1

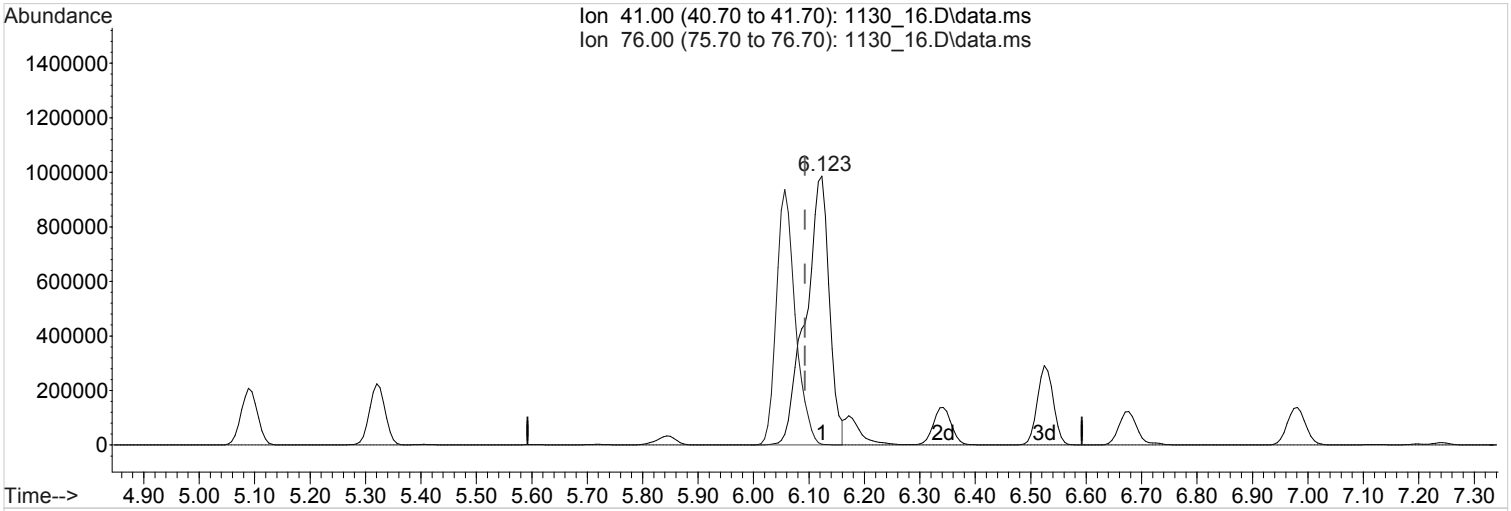
Quant Time: Dec 01 08:17:47 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:16:31 2022
Response via : Initial Calibration

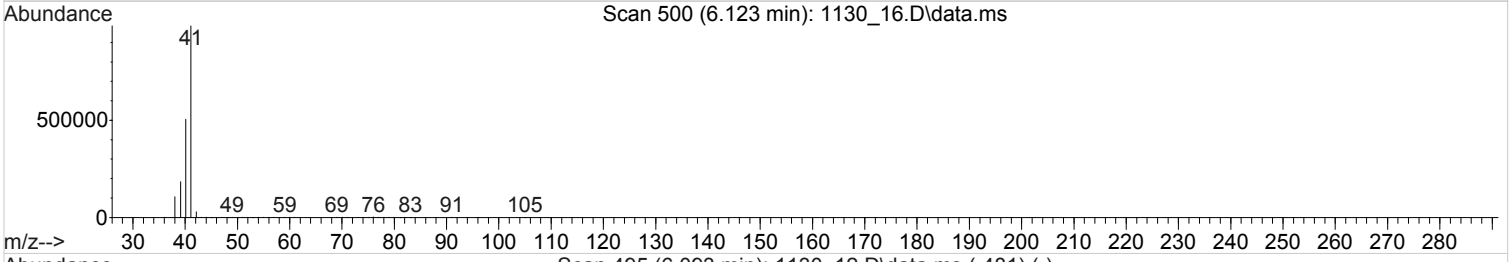


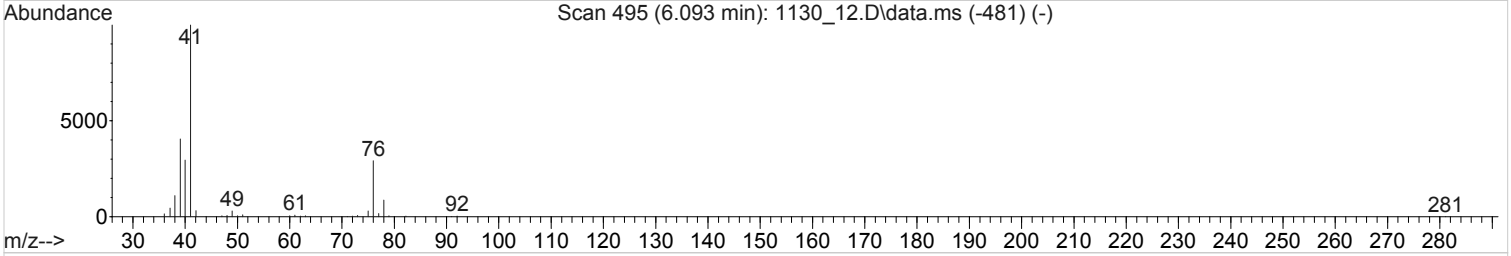
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_16.D
Acq On : 1 Dec 2022 1:11 am
Operator :
Sample : STD AMS 100.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 01 08:16:35 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:16:31 2022
Response via : Initial Calibration







TIC: 1130_16.D\data.ms

(25) Allyl Chloride (T,M)

6.123min (+0.031) 397.5312687 ppbv

Qvalue = 1

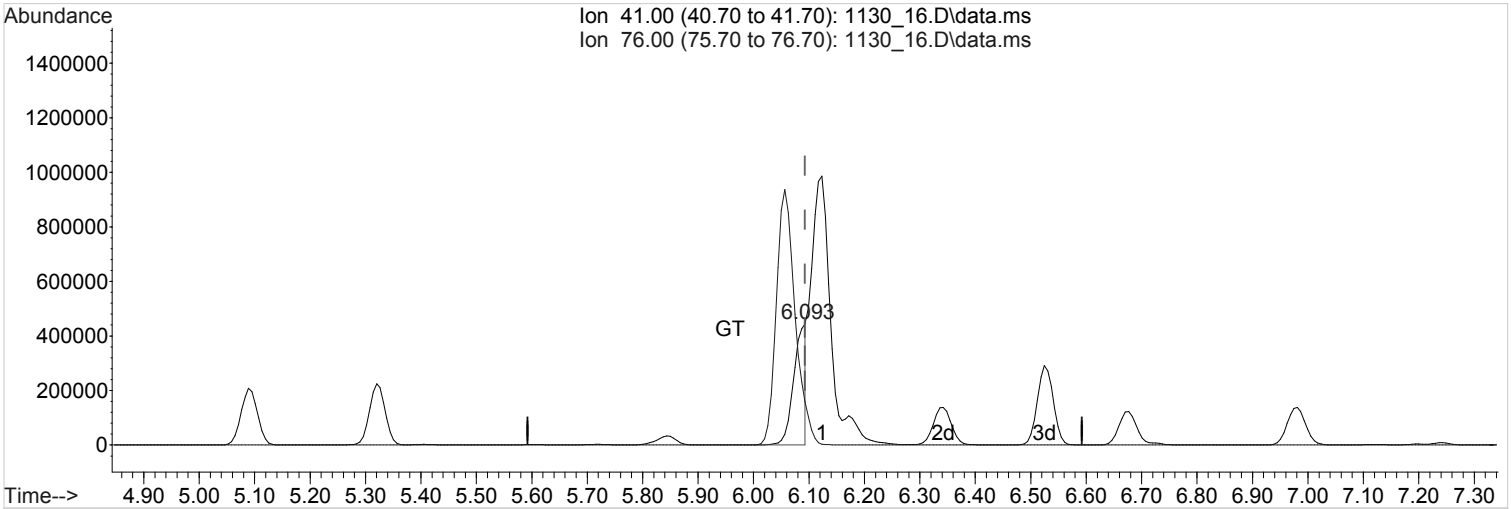
response 2920055

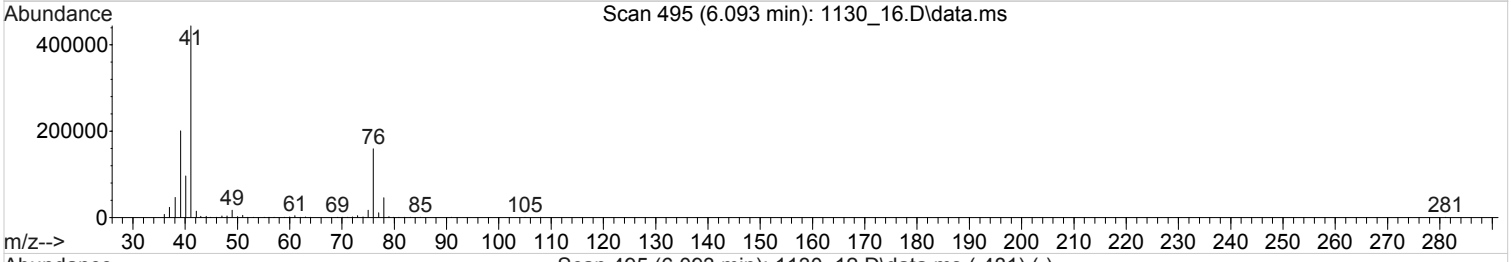
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	75.86#
0.00	0.00	0.00
0.00	0.00	0.00

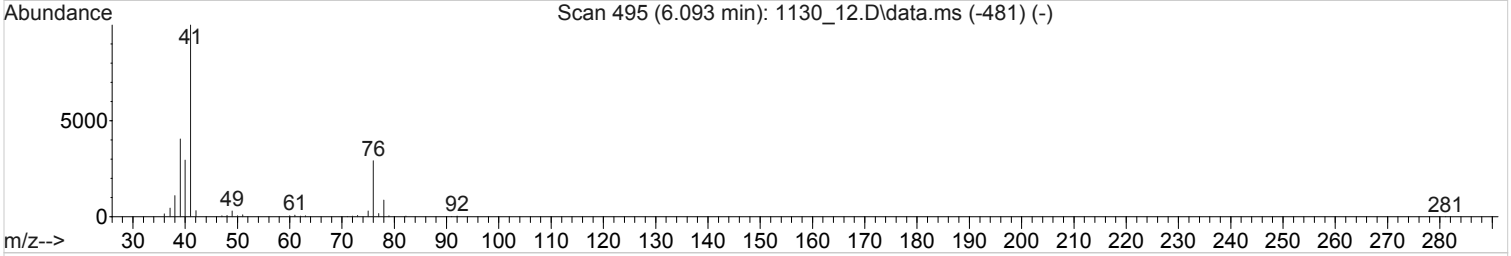
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_16.D
Acq On : 1 Dec 2022 1:11 am
Operator :
Sample : STD AMS 100.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 01 08:16:35 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:16:31 2022
Response via : Initial Calibration







TIC: 1130_16.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 93.6668132 ppbv m

response 688027

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	321.95
0.00	0.00	0.00
0.00	0.00	0.00

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570570	**Calibration (begin) date/time:**	11/30/22 18:49
Instrument ID:	AIRMS4	**Calibration (end) date/time:**	12/01/22 01:11
Lab File ID:	1130_18	**Analysis date/time:**	12/01/22 02:34
Analytical Method:	TO-15	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	0.594810	0.59271170		0.3530		5	4.982	99.60	60 - 140
1,1,2,2-TETRACHLOROETHANE	0.255829	0.28706920		12.20		5	5.611	112	60 - 140
1,1,2-TRICHLOROETHANE	0.108229	0.11613480		7.30		5	5.365	107	60 - 140
1,1,2-TRICHLOROTRIFLUOROETHANE	0.614638	0.62084050		1.01		5	5.050	101	60 - 140
1,1-DICHLOROETHANE	0.539493	0.538871		0.1150		5	4.994	99.90	60 - 140
1,1-DICHLOROETHENE	0.440043	0.45072370		2.43		5	5.121	102	60 - 140
1,2,4-TRICHLOROBENZENE	0.084459	0.10757760		27.40		5	6.369	127	60 - 140
1,2,4-TRIMETHYLBENZENE	0.319933	0.37086870		15.90		5	5.796	116	60 - 140
1,2-DIBROMOETHANE	0.174648	0.18943760		8.47		5	5.423	108	60 - 140
1,2-DICHLOROBENZENE	0.195363	0.24351310		24.60		5	6.232	125	60 - 140
1,2-DICHLOROETHANE	0.0836	0.08848708		5.85		5	5.292	106	60 - 140
1,2-DICHLOROPROPANE	0.093712	0.09928583		5.95		5	5.297	106	60 - 140
1,3,5-TRIMETHYLBENZENE	0.327719	0.38400480		17.20		5	5.859	117	60 - 140
1,3-BUTADIENE	0.158135	0.15339960		2.99		5	4.850	97	60 - 140
1,3-DICHLOROBENZENE	0.197736	0.240284		21.50		5	6.076	122	60 - 140
1,4-DICHLOROBENZENE	0.184073	0.23113840		25.60		5	6.278	126	60 - 140
2-BUTANONE (MEK)	0.134207	0.14381260		7.16		5	5.358	107	60 - 140
4-ETHYLTOLUENE	0.397759	0.45660860		14.80		5	5.740	115	60 - 140
4-METHYL-2-PENTANONE (MIBK)	0.160994	0.19671790		22.20		5	6.109	122	60 - 140
ACETONE	0.438936	0.63993440		45.80		5	7.290	146	60 - 140
BENZENE	0.225650	0.23568160		4.45		5	5.222	104	60 - 140
BENZYL CHLORIDE	0.219417	0.23803580		8.49		5	5.424	108	60 - 140
BROMODICHLOROMETHANE	0.172982	0.18208560		5.26		5	5.263	105	60 - 140
BROMOFORM	0.222477	0.23820290		7.07		5	5.353	107	60 - 140
BROMOMETHANE	0.231613	0.22767860		1.70		5	4.915	98.30	60 - 140
CARBON DISULFIDE	1.086114	1.015259		6.52		5	4.674	93.50	60 - 140
CARBON TETRACHLORIDE	0.634090	0.64200710		1.25		5	5.062	101	60 - 140
CHLOROBENZENE	0.213731	0.22377450		4.70		5	5.235	105	60 - 140
CHLORODIBROMOMETHANE	0.202168	0.21886520		8.26		5	5.413	108	60 - 140
CHLOROETHANE	0.100712	0.09632587		4.36		5	4.782	95.60	60 - 140
CHLOROFORM	0.585410	0.59951390		2.41		5	5.120	102	60 - 140
CHLOROMETHANE	0.243971	0.24232310		0.6750		5	4.966	99.30	60 - 140
CIS-1,2-DICHLOROETHENE	0.416728	0.42756450		2.60		5	5.130	103	60 - 140
CIS-1,3-DICHLOROPROPENE	0.148616	0.15792150		6.26		5	5.313	106	60 - 140
DICHLORODIFLUOROMETHANE	0.678668	0.68466820		0.8840		5	5.044	101	60 - 140
ETHYLBENZENE	0.382986	0.38713840		1.08		5	5.054	101	60 - 140
HEXACHLORO-1,3-BUTADIENE	0.174240	0.21662050		24.30		5	6.216	124	60 - 140
M&P-XYLENE	0.300144	0.30817420		2.68		10	10.27	103	60 - 140
METHYL BUTYL KETONE	0.148178	0.16975470		14.60		5	5.728	115	60 - 140
METHYL TERT-BUTYL ETHER	0.692781	0.71560590		3.29		5	5.165	103	60 - 140
METHYLENE CHLORIDE	0.302588	0.30160550		0.3250		5	4.984	99.70	60 - 140
NAPHTHALENE	0.212862	0.19827920		6.85		5	4.657	93.10	60 - 140
O-XYLENE	0.316575	0.32033890		1.19		5	5.059	101	60 - 140
STYRENE	0.253392	0.27807880		9.74		5	5.487	110	60 - 140
TETRACHLOROETHENE	0.144296	0.15159530		5.06		5	5.253	105	60 - 140
TOLUENE	0.289180	0.30592010		5.79		5	5.289	106	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570570	**Calibration (begin) date/time:**	11/30/22 18:49
Instrument ID:	AIRMS4	**Calibration (end) date/time:**	12/01/22 01:11
Lab File ID:	1130_18	**Analysis date/time:**	12/01/22 02:34
Analytical Method:	TO-15	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*ppbv*	*ppbv*	*% Rec.*	*%*
TRANS-1,2-DICHLOROETHENE	0.437681	0.43783970		0.0363		5	5.002	100	60 - 140
TRANS-1,3-DICHLOROPROPENE	0.130125	0.13965990		7.33		5	5.366	107	60 - 140
TRICHLOROETHENE	0.110324	0.11680420		5.87		5	5.294	106	60 - 140
TRICHLOROFLUOROMETHANE	0.568119	0.58122020		2.31		5	5.115	102	60 - 140
VINYL ACETATE	0.643468	0.61213370		4.87		5	4.757	95.10	60 - 140
VINYL CHLORIDE	0.238124	0.23885810		0.3080		5	5.015	100	60 - 140
1,4-BROMOFLUOROBENZENE	0.682503	0.67504480		1.09		4	3.956	98.90	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_18.D
Acq On : 1 Dec 2022 2:34 am
Operator :
Sample : SSCV AMS 5.0 ppbv 22K29413
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 01 08:28:15 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	99969	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	368117	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.349	117	335200	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	226275	3.9562888	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 98.91%			
Target Compounds						Qvalue
2) Propene	4.182	41	25580	4.4424599	ppbv	99
3) BUTANE	4.578	43	39571	4.3137107	ppbv	99
4) 1,1-DIFLUOROETHANE	4.182	51	38440	4.8765189	ppbv	99
5) Dichlorodifluoromethane	4.225	85	85557	5.0442072	ppbv	99
6) CHLORODIFLUOROMETHANE	4.243	51	46619	4.8763402	ppbv	100
7) 1,2-Dichlorotetrafluor...	4.371	85	93174	4.9819950	ppbv	99
8) Chloromethane	4.481	50	30281	4.9662261	ppbv	97
9) Vinyl Chloride	4.602	62	29848	5.0154100	ppbv	100
10) 1,3-Butadiene	4.633	39	19169	4.8502771	ppbv	95
11) Bromomethane	4.992	94	28451	4.9150601	ppbv	98
12) Chloroethane	5.077	64	12037	4.7822240	ppbv	98
13) ISOPENTANE	5.089	43	29384	4.6374808	ppbv	97
14) Vinyl Bromide	5.259	106	28958	4.9487449	ppbv	99
15) Trichlorofluoromethane	5.284	101	72630	5.1152991	ppbv	100
16) PENTANE	5.320	43	52306	4.0133201	ppbv	100
17) Ethanol	5.399	45	33149	10.3294123	ppbv	98
18) ACROLEIN	5.709	56	15097	5.0677416	ppbv	100
19) 1,1,2-Trichlorotrifluo...	5.697	101	77581	5.0504521	ppbv	99
20) 1,1-Dichloroethene	5.782	61	56323	5.1213566	ppbv	100
21) Acetone	5.819	43	79967	7.2896154	ppbv	92
22) BROMOETHANE	5.965	108	31911	4.8983299	ppbv	100
23) 2-Propanol	5.837	45	154158	12.7266316	ppbv #	58
24) Carbon Disulfide	6.056	76	126868	4.6738132	ppbv	99
25) Allyl Chloride	6.093	41	49947m	6.2221126	ppbv	
26) METHYL ACETATE	6.044	43	65704	5.3909904	ppbv #	100
27) ACETONITRILE	6.117	41	276444	40.7792166	ppbv	95
28) Methylene Chloride	6.208	49	37689	4.9837697	ppbv	99
29) TERT-BUTYL ALCOHOL	6.166	59	80919	6.3454912	ppbv #	61
30) Methyl Tert-Butyl Ether	6.342	73	89423	5.1647298	ppbv	100
31) Trans-1,2-Dichloroethene	6.403	61	54713	5.0018102	ppbv	95
32) ACRYLONITRILE	6.433	53	33859	6.0148945	ppbv	99
33) n-Hexane	6.525	57	50844	4.9901645	ppbv	98
34) 1,1-Dichloroethane	6.786	63	67338	4.9942322	ppbv	100
35) Vinyl Acetate	6.719	43	76493	4.7565216	ppbv	100
36) DI-ISOPROPYL ETHER	6.671	45	109757	5.3166325	ppbv	100
37) ETHYL TERT-BUTYL ETHER	6.975	59	108784	4.9722345	ppbv	99
38) ETHYL ACETATE	7.194	45	11726	5.1507400	ppbv	96
39) 2-Butanone (MEK)	7.236	72	17971	5.3578541	ppbv	95
40) cis-1,2-Dichloroethene	7.279	61	53429	5.1300151	ppbv	99
41) Tetrahydrofuran	7.510	42	47532	6.7988607	ppbv	99
42) Chloroform	7.510	83	74916	5.1204586	ppbv	100
43) Cyclohexane	7.723	84	41367	5.0701564	ppbv	98
44) 1,1,1-Trichloroethane	7.705	97	74066	4.9823593	ppbv	100
45) Carbon Tetrachloride	7.833	117	80226	5.0624291	ppbv	100
46) 2,2,4-Trimethylpentane	7.942	57	172377	5.1400399	ppbv	100
48) Benzene	8.033	78	108448	5.2222914	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_18.D
Acq On : 1 Dec 2022 2:34 am
Operator :
Sample : SSCV AMS 5.0 ppbv 22K29413
Misc :
ALS Vial : 18 Sample Multiplier: 1

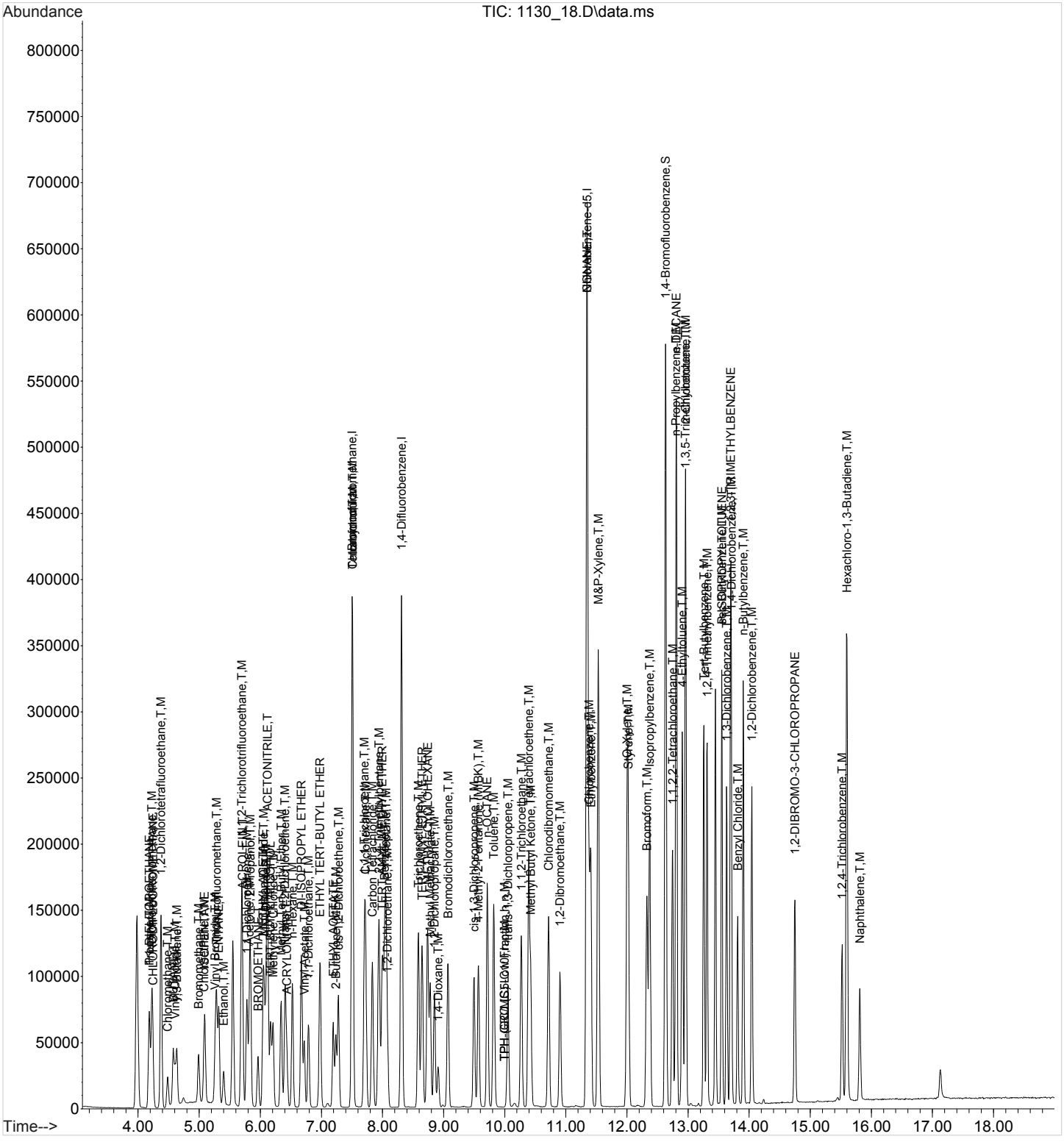
Quant Time: Dec 01 08:28:15 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) TERT-AMYL METHYL ETHER	7.997	73	108282	5.2979981	ppbv	99
50) 1,2-Dichloroethane	8.082	62	40717	5.2922708	ppbv	99
51) Heptane	8.058	43	59859	5.2530768	ppbv	100
52) Trichloroethene	8.587	95	53747	5.2936734	ppbv	99
53) TERT-AMYL ETHYL ETHER	8.648	73	34446	4.9865110	ppbv	98
54) METHYL CYCLOHEXANE	8.739	83	69204	5.0415755	ppbv	99
55) 1,2-Dichloropropane	8.849	63	45686	5.2974170	ppbv	99
56) Methyl Methacrylate	8.782	41	52258	5.7074132	ppbv	100
57) 1,4-Dioxane	8.909	88	26274	6.0317341	ppbv	98
58) Bromodichloromethane	9.074	83	83786	5.2631320	ppbv	99
59) cis-1,3-Dichloropropene	9.499	75	72667	5.3130632	ppbv	99
60) 4-Methyl-2-Pentanone (...	9.566	43	90519	6.1094825	ppbv	99
61) n-OCTANE	9.712	43	95508	5.3289034	ppbv	100
62) Toluene	9.822	91	140768	5.2894480	ppbv	100
63) trans-1,3-Dichloropropene	10.053	75	64264	5.3663820	ppbv	99
64) 1,1,2-Trichloroethane	10.272	97	53439	5.3652381	ppbv	99
65) Tetrachloroethene	10.394	166	69756	5.2529213	ppbv	99
66) Methyl Butyl Ketone	10.424	43	78112	5.7280657	ppbv	100
67) Chlorodibromomethane	10.716	129	100710	5.4129572	ppbv	99
68) 1,2-Dibromoethane	10.905	107	87169	5.4234123	ppbv	100
69) Chlorobenzene	11.379	112	102969	5.2349475	ppbv	98
70) NONANE	11.349	43	103563	5.4590719	ppbv	100
72) Ethylbenzene	11.410	91	162211	5.0542074	ppbv	100
73) M&P-Xylene	11.531	91	258250	10.2675574	ppbv	100
74) O-Xylene	12.000	91	134222	5.0594520	ppbv	100
77) Styrene	12.024	104	116515	5.4871300	ppbv	100
78) Bromoform	12.328	173	99807	5.3534343	ppbv	100
79) Isopropylbenzene	12.371	105	184655	5.1302683	ppbv	100
80) n-DECANE	12.809	43	100716	5.9940942	ppbv	100
81) 1,1,2,2-Tetrachloroethane	12.748	83	120282	5.6105645	ppbv	100
82) n-Propylbenzene	12.803	91	235990	5.8139011	ppbv	100
83) 4-Ethyltoluene	12.906	105	191319	5.7397646	ppbv	100
84) 2-Chlorotoluene	12.961	126	49299	5.7830837	ppbv	99
86) 1,3,5-Trimethylbenzene	12.955	105	160898	5.8587434	ppbv	100
87) Tert-Butylbenzene	13.259	119	145220	5.7163871	ppbv	99
88) 1,2,4-Trimethylbenzene	13.314	105	155394	5.7960298	ppbv	99
89) sec-Butylbenzene	13.551	134	44161	5.6896093	ppbv	100
90) 1,3-Dichlorobenzene	13.630	146	100679	6.0758769	ppbv	100
91) P-ISOPROPYLTOLUENE	13.551	119	181625	5.8250804	ppbv	100
92) 1,4-Dichlorobenzene	13.709	146	96847	6.2784288	ppbv	99
93) 1,2,3-TRIMETHYLBENZENE	13.697	105	154213	5.9133347	ppbv	100
94) Benzyl Chloride	13.813	91	99737	5.4242754	ppbv	100
95) n-Butylbenzene	13.904	91	179402	6.0835489	ppbv	100
96) 1,2-Dichlorobenzene	14.044	146	102032	6.2323261	ppbv	100
97) 1,2-DIBROMO-3-CHLOROPR...	14.750	157	48891	6.1659897	ppbv	98
98) 1,2,4-Trichlorobenzene	15.522	180	45075	6.3686090	ppbv	99
99) Hexachloro-1,3-Butadiene	15.601	225	90764	6.2161441	ppbv	99
100) Naphthalene	15.814	128	83079	4.6574682	ppbv	100
101) TPH (GC/MS) Low Fraction	10.000	TIC	14165789m	284.3502883	ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	16922157m	402.4932665	ppbv	

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

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_18.D
Acq On : 1 Dec 2022 2:34 am
Operator :
Sample : SSCV AMS 5.0 ppbv 22K29413
Misc :
ALS Vial : 18 Sample Multiplier: 1

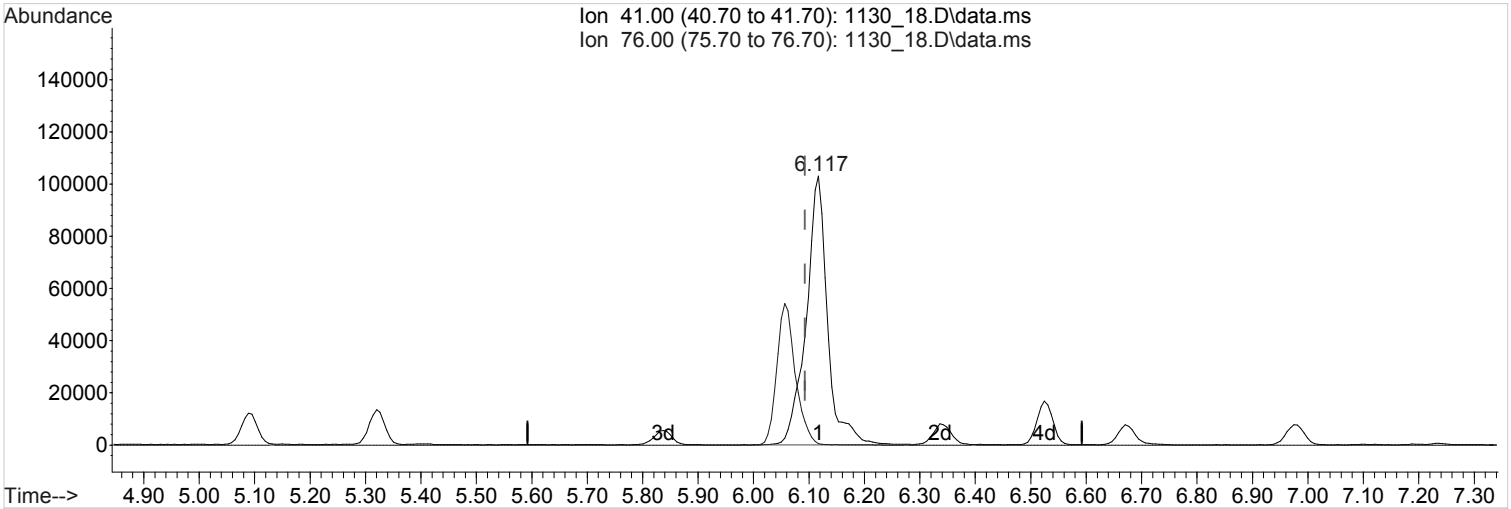
Quant Time: Dec 01 08:28:15 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

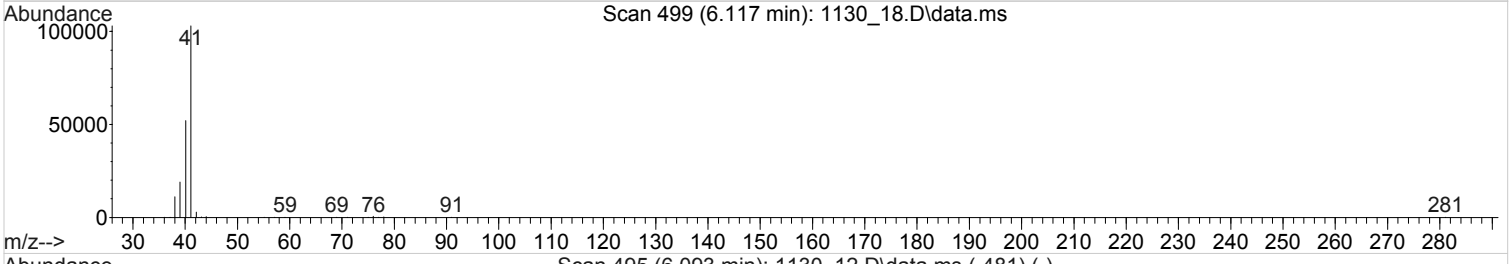


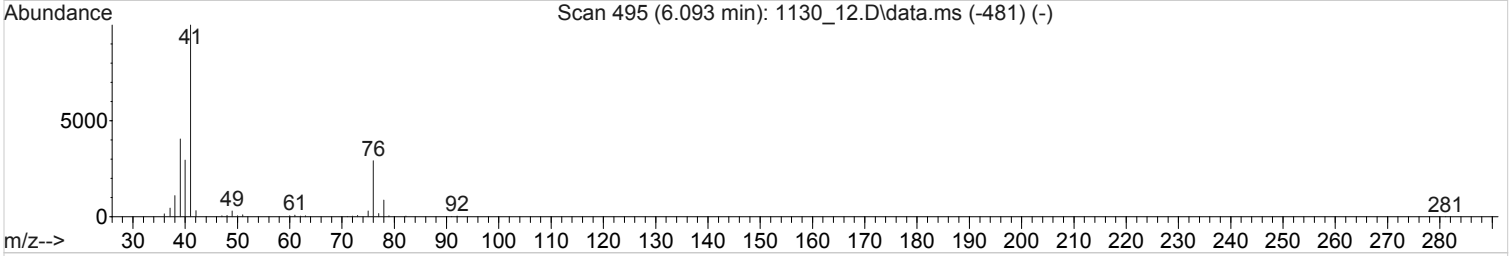
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_18.D
Acq On : 1 Dec 2022 2:34 am
Operator :
Sample : SSCV AMS 5.0 ppbv 22K29413
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 01 08:27:04 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1130_18.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 34.4378180 ppbv

Qvalue = 1

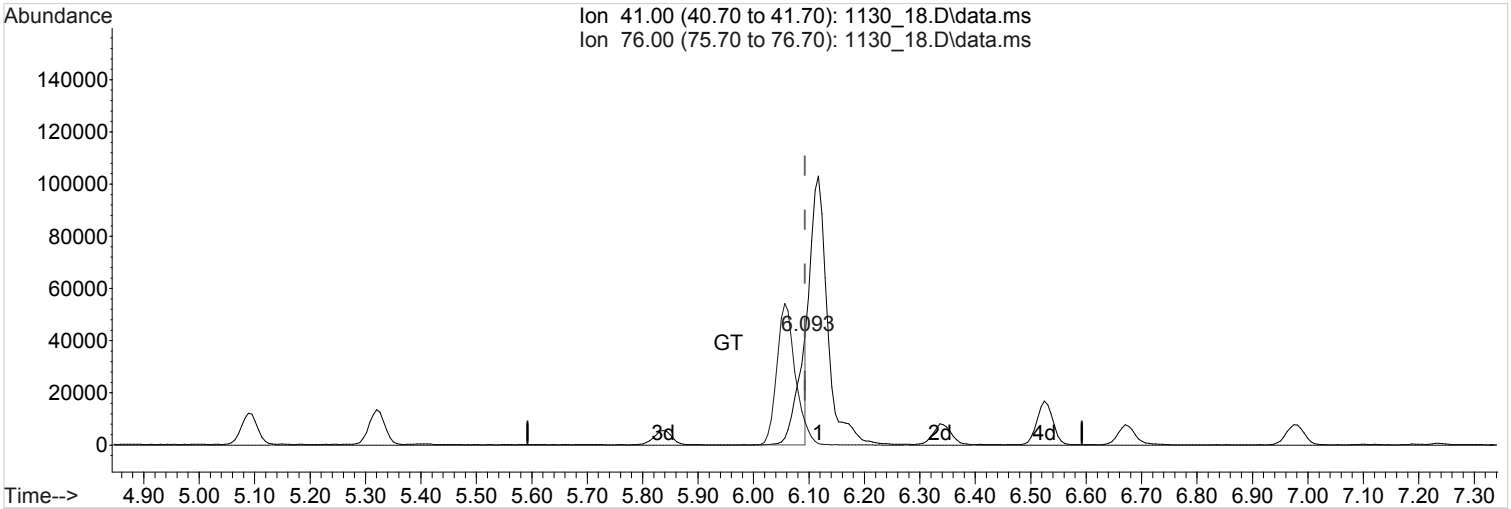
response 276444

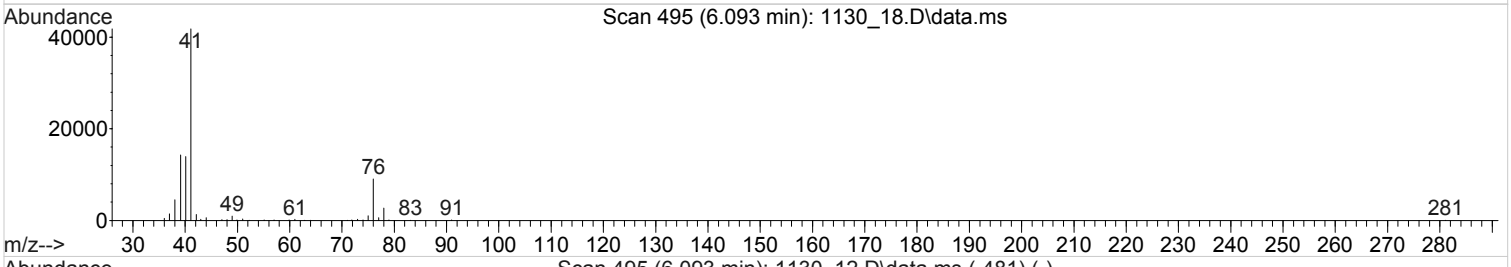
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	45.89#
0.00	0.00	0.00
0.00	0.00	0.00

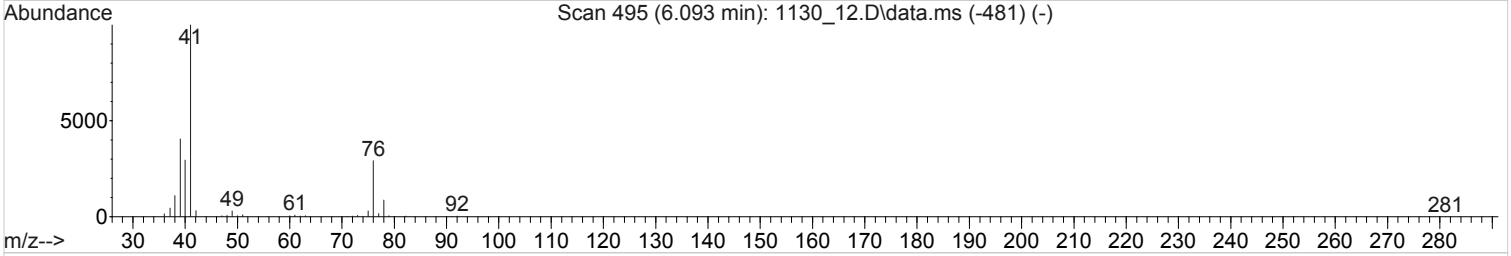
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_18.D
Acq On : 1 Dec 2022 2:34 am
Operator :
Sample : SSCV AMS 5.0 ppbv 22K29413
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 01 08:27:04 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1130_18.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 6.2221126 ppbv m

response 49947

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	254.01
0.00	0.00	0.00
0.00	0.00	0.00

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570570	**Calibration (begin) date/time:**	11/30/22 18:49
Instrument ID:	AIRMS4	**Calibration (end) date/time:**	12/01/22 01:11
Lab File ID:	1229_01	**Analysis date/time:**	12/29/22 10:36
Analytical Method:	TO-15	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	0.594810	0.541766		8.92		3.75	3.416	91.10	70 - 130
1,1,2,2-TETRACHLOROETHANE	0.255829	0.25874620		1.14		3.75	3.793	101	70 - 130
1,1,2-TRICHLOROETHANE	0.108229	0.10782590		0.3720		3.75	3.736	99.60	70 - 130
1,1,2-TRICHLOROTRIFLUOROETHANE	0.614638	0.60824510		1.04		3.75	3.711	99	70 - 130
1,1-DICHLOROETHANE	0.539493	0.482017		10.70		3.75	3.350	89.30	70 - 130
1,1-DICHLOROETHENE	0.440043	0.40280470		8.46		3.75	3.433	91.50	70 - 130
1,2,4-TRICHLOROBENZENE	0.084459	0.10591330		25.40		3.75	4.703	125	70 - 130
1,2,4-TRIMETHYLBENZENE	0.319933	0.31303230		2.16		3.75	3.669	97.80	70 - 130
1,2-DIBROMOETHANE	0.174648	0.177891		1.86		3.75	3.820	102	70 - 130
1,2-DICHLOROBENZENE	0.195363	0.22509880		15.20		3.75	4.321	115	70 - 130
1,2-DICHLOROETHANE	0.0836	0.08116592		2.91		3.75	3.641	97.10	70 - 130
1,2-DICHLOROPROPANE	0.093712	0.08826624		5.81		3.75	3.532	94.20	70 - 130
1,3,5-TRIMETHYLBENZENE	0.327719	0.32780490		0.0262		3.75	3.751	100	70 - 130
1,3-BUTADIENE	0.158135	0.12932390		18.20		3.75	3.067	81.80	70 - 130
1,3-DICHLOROBENZENE	0.197736	0.23165360		17.20		3.75	4.393	117	70 - 130
1,4-DICHLOROBENZENE	0.184073	0.22516020		22.30		3.75	4.587	122	70 - 130
2-BUTANONE (MEK)	0.134207	0.11893280		11.40		3.75	3.323	88.60	70 - 130
4-ETHYLTOLUENE	0.397759	0.40161080		0.9680		3.75	3.786	101	70 - 130
4-METHYL-2-PENTANONE (MIBK)	0.160994	0.16101460		0.0128		3.75	3.750	100	70 - 130
ACETONE	0.438936	0.36066140		17.80		3.75	3.081	82.20	70 - 130
BENZENE	0.225650	0.21764080		3.55		3.75	3.617	96.50	70 - 130
BENZYL CHLORIDE	0.219417	0.22535760		2.71		3.75	3.852	103	70 - 130
BROMODICHLOROMETHANE	0.172982	0.16457970		4.86		3.75	3.568	95.10	70 - 130
BROMOFORM	0.222477	0.25514410		14.70		3.75	4.301	115	70 - 130
BROMOMETHANE	0.231613	0.21436440		7.45		3.75	3.471	92.60	70 - 130
CARBON DISULFIDE	1.086114	0.97704990		10		3.75	3.373	89.90	70 - 130
CARBON TETRACHLORIDE	0.634090	0.59109710		6.78		3.75	3.496	93.20	70 - 130
CHLOROBENZENE	0.213731	0.22341260		4.53		3.75	3.920	105	70 - 130
CHLORODIBROMOMETHANE	0.202168	0.21374160		5.72		3.75	3.965	106	70 - 130
CHLOROETHANE	0.100712	0.08150046		19.10		3.75	3.035	80.90	70 - 130
CHLOROFORM	0.585410	0.535386		8.55		3.75	3.430	91.50	70 - 130
CHLOROMETHANE	0.243971	0.219883		9.87		3.75	3.380	90.10	70 - 130
CIS-1,2-DICHLOROETHENE	0.416728	0.36522440		12.40		3.75	3.287	87.70	70 - 130
CIS-1,3-DICHLOROPROPENE	0.148616	0.13485750		9.26		3.75	3.403	90.70	70 - 130
DICHLORODIFLUOROMETHANE	0.678668	0.65567830		3.39		3.75	3.623	96.60	70 - 130
ETHYLBENZENE	0.382986	0.39178290		2.30		3.75	3.836	102	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.174240	0.20928630		20.10		3.75	4.504	120	70 - 130
M&P-XYLENE	0.300144	0.30411480		1.32		7.50	7.599	101	70 - 130
METHYL BUTYL KETONE	0.148178	0.15447340		4.25		3.75	3.909	104	70 - 130
METHYL TERT-BUTYL ETHER	0.692781	0.61835360		10.70		3.75	3.347	89.30	70 - 130
METHYLENE CHLORIDE	0.302588	0.26116490		13.70		3.75	3.237	86.30	70 - 130
NAPHTHALENE	0.212862	0.22716090		6.72		3.75	4.002	107	70 - 130
O-XYLENE	0.316575	0.31054460		1.90		3.75	3.679	98.10	70 - 130
STYRENE	0.253392	0.26306350		3.82		3.75	3.893	104	70 - 130
TETRACHLOROETHENE	0.144296	0.15951720		10.50		3.75	4.146	111	70 - 130
TOLUENE	0.289180	0.27502140		4.90		3.75	3.566	95.10	70 - 130

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570570	**Calibration (begin) date/time:**	11/30/22 18:49
Instrument ID:	AIRMS4	**Calibration (end) date/time:**	12/01/22 01:11
Lab File ID:	1229_01	**Analysis date/time:**	12/29/22 10:36
Analytical Method:	TO-15	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*ppbv*	*ppbv*	*% Rec.*	*%*
TRANS-1,2-DICHLOROETHENE	0.437681	0.38772950		11.40		3.75	3.322	88.60	70 - 130
TRANS-1,3-DICHLOROPROPENE	0.130125	0.12240560		5.93		3.75	3.528	94.10	70 - 130
TRICHLOROETHENE	0.110324	0.10891050		1.28		3.75	3.702	98.70	70 - 130
TRICHLOROFLUOROMETHANE	0.568119	0.58478430		2.93		3.75	3.860	103	70 - 130
VINYL ACETATE	0.643468	0.53012310		17.60		3.75	3.089	82.40	70 - 130
VINYL CHLORIDE	0.238124	0.20997640		11.80		3.75	3.307	88.20	70 - 130
1,4-BROMOFLUOROBENZENE	0.682503	0.606930		11.10		4	3.557	88.90	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 11:13:26 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	79247	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	284231	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	243117	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	147555	3.5570832	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 88.93%				
Target Compounds							Qvalue
2) Propene	4.176	41	13422	2.9405105	ppbv		98
3) BUTANE	4.572	43	20005	2.7510284	ppbv		98
4) 1,1-DIFLUOROETHANE	4.183	51	20761	3.3224413	ppbv		96
5) Dichlorodifluoromethane	4.219	85	48713	3.6229702	ppbv		99
6) CHLORODIFLUOROMETHANE	4.237	51	26078	3.4410251	ppbv		100
7) 1,2-Dichlorotetrafluor...	4.371	85	52791	3.5608277	ppbv		95
8) Chloromethane	4.481	50	16336	3.3797495	ppbv		100
9) Vinyl Chloride	4.602	62	15600	3.3067268	ppbv		97
10) 1,3-Butadiene	4.627	39	9608	3.0667799	ppbv		98
11) Bromomethane	4.986	94	15926	3.4707276	ppbv		98
12) Chloroethane	5.071	64	6055	3.0346480	ppbv		100
13) ISOPENTANE	5.083	43	13182	2.6244303	ppbv		91
14) Vinyl Bromide	5.253	106	16533	3.5641887	ppbv		98
15) Trichlorofluoromethane	5.278	101	43446	3.8600000	ppbv		100
16) PENTANE	5.314	43	25336	2.4522958	ppbv		99
17) Ethanol	5.399	45	7590	2.9835236	ppbv		98
18) ACROLEIN	5.710	56	7885	3.3389354	ppbv		97
19) 1,1,2-Trichlorotrifluo...	5.691	101	45189	3.7109930	ppbv		94
20) 1,1-Dichloroethene	5.776	61	29926	3.4326572	ppbv		95
21) Acetone	5.819	43	26795	3.0812724	ppbv		99
22) BROMOETHANE	5.959	108	18453	3.5731983	ppbv		99
23) 2-Propanol	5.837	45	29950	3.1190817	ppbv		97
24) Carbon Disulfide	6.050	76	72589	3.3734369	ppbv		98
25) Allyl Chloride	6.093	41	24410m	3.8360014	ppbv		
26) METHYL ACETATE	6.044	43	31346	3.2444523	ppbv	#	98
27) ACETONITRILE	6.111	41	85767	15.9600573	ppbv	#	90
28) Methylene Chloride	6.202	49	19403	3.2366427	ppbv		95
29) TERT-BUTYL ALCOHOL	6.172	59	36411	3.6018851	ppbv	#	1
30) Methyl Tert-Butyl Ether	6.336	73	45940	3.3471246	ppbv		99
31) Trans-1,2-Dichloroethene	6.403	61	28806	3.3220193	ppbv		96
32) ACRYLONITRILE	6.433	53	14674	3.2884021	ppbv		99
33) n-Hexane	6.525	57	25591	3.1684359	ppbv		99
34) 1,1-Dichloroethane	6.786	63	35811	3.3504835	ppbv		99
35) Vinyl Acetate	6.719	43	39385	3.0894498	ppbv		99
36) DI-ISOPROPYL ETHER	6.671	45	52016	3.1785122	ppbv		96
37) ETHYL TERT-BUTYL ETHER	6.975	59	57241	3.3004739	ppbv		98
38) ETHYL ACETATE	7.194	45	5719	3.1690008	ppbv		99
39) 2-Butanone (MEK)	7.236	72	8836	3.3232029	ppbv		94
40) cis-1,2-Dichloroethene	7.279	61	27134	3.2865326	ppbv		94
41) Tetrahydrofuran	7.510	42	17067	3.0795677	ppbv		97
42) Chloroform	7.504	83	39776	3.4295560	ppbv		100
43) Cyclohexane	7.723	84	21109	3.2637547	ppbv		92
44) 1,1,1-Trichloroethane	7.705	97	40250	3.4155807	ppbv		98
45) Carbon Tetrachloride	7.833	117	43915	3.4957408	ppbv		100
46) 2,2,4-Trimethylpentane	7.942	57	83327	3.1344073	ppbv		99
48) Benzene	8.033	78	57994	3.6169046	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 11:13:26 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

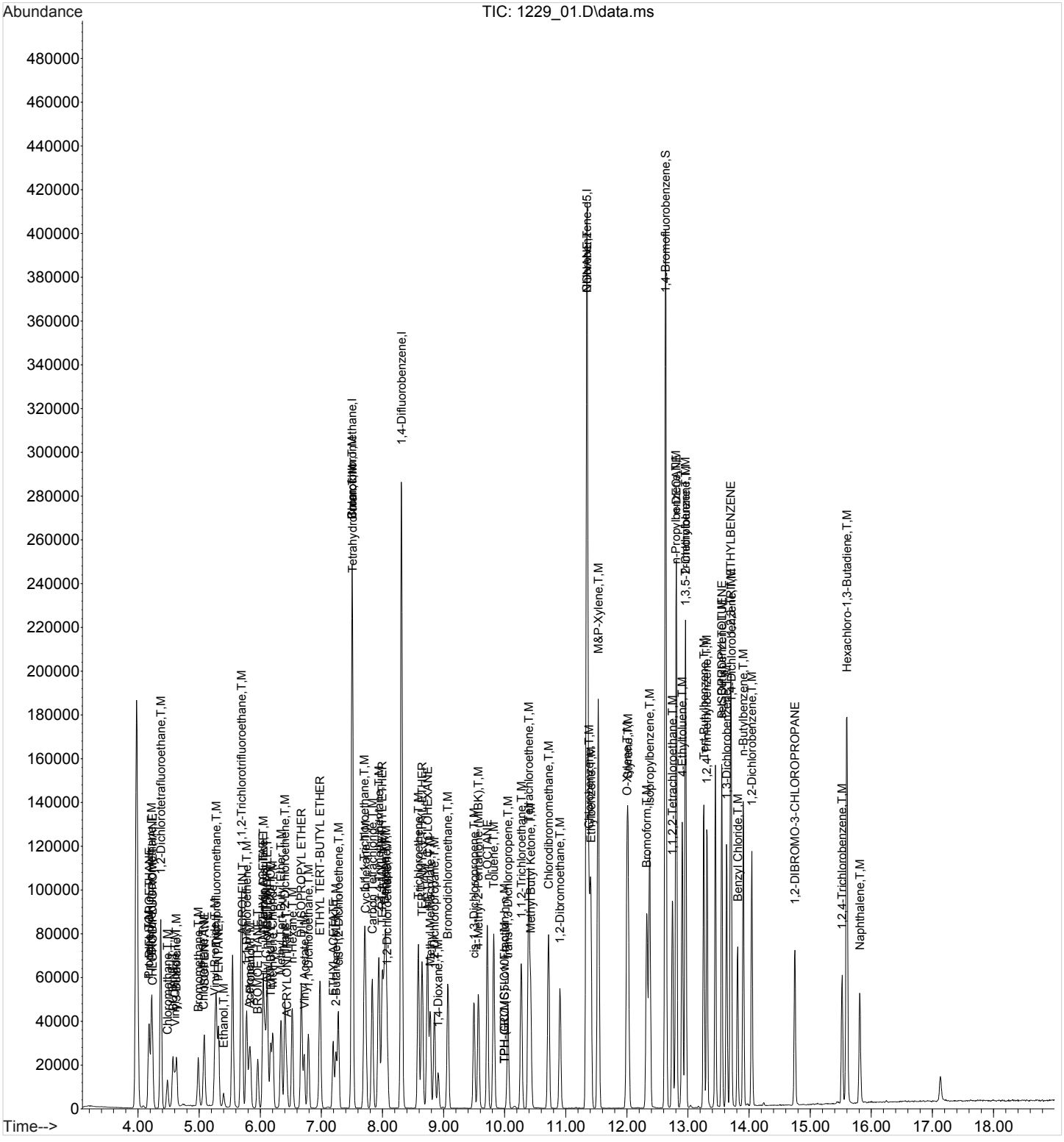
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) TERT-AMYL METHYL ETHER	7.997	73	58616	3.7143783 ppbv	98
50) 1,2-Dichloroethane	8.076	62	21628	3.6408021 ppbv	97
51) Heptane	8.058	43	28615	3.2523140 ppbv	98
52) Trichloroethene	8.587	95	29021	3.7019429 ppbv	94
53) TERT-AMYL ETHYL ETHER	8.648	73	18474	3.4636448 ppbv	97
54) METHYL CYCLOHEXANE	8.739	83	36936	3.4849726 ppbv	95
55) 1,2-Dichloropropane	8.849	63	23520	3.5320982 ppbv	96
56) Methyl Methacrylate	8.782	41	24096	3.4083636 ppbv	93
57) 1,4-Dioxane	8.909	88	14279	4.2454938 ppbv	96
58) Bromodichloromethane	9.068	83	43855	3.5678481 ppbv	99
59) cis-1,3-Dichloropropene	9.500	75	35935	3.4028267 ppbv	95
60) 4-Methyl-2-Pentanone (...	9.566	43	42905	3.7504814 ppbv	99
61) n-OCTANE	9.719	43	44948	3.2480514 ppbv	97
62) Toluene	9.822	91	73284	3.5663997 ppbv	99
63) trans-1,3-Dichloropropene	10.053	75	32617	3.5275426 ppbv	96
64) 1,1,2-Trichloroethane	10.272	97	28732	3.7360352 ppbv	96
65) Tetrachloroethene	10.394	166	42506	4.1455675 ppbv	94
66) Methyl Butyl Ketone	10.424	43	41162	3.9093192 ppbv	99
67) Chlorodibromomethane	10.716	129	56955	3.9646813 ppbv	99
68) 1,2-Dibromoethane	10.905	107	47402	3.8196332 ppbv	100
69) Chlorobenzene	11.379	112	59532	3.9198616 ppbv	92
70) NONANE	11.349	43	46685	3.1871755 ppbv	99
72) Ethylbenzene	11.410	91	89296	3.8361311 ppbv	99
73) M&P-Xylene	11.531	91	138629	7.5992298 ppbv	97
74) O-Xylene	12.000	91	70780	3.6785699 ppbv	97
77) Styrene	12.018	104	59958	3.8931329 ppbv	95
78) Bromoform	12.322	173	58153	4.3006320 ppbv	99
79) Isopropylbenzene	12.371	105	100853	3.8632829 ppbv	99
80) n-DECANE	12.809	43	42475	3.4853562 ppbv	96
81) 1,1,2,2-Tetrachloroethane	12.742	83	58974	3.7927585 ppbv	99
82) n-Propylbenzene	12.803	91	115748	3.9316624 ppbv	98
83) 4-Ethyltoluene	12.906	105	91536	3.7863137 ppbv	99
84) 2-Chlorotoluene	12.961	126	24777	4.0073638 ppbv	87
86) 1,3,5-Trimethylbenzene	12.955	105	74714	3.7509779 ppbv	97
87) Tert-Butylbenzene	13.259	119	71309	3.8701539 ppbv	96
88) 1,2,4-Trimethylbenzene	13.308	105	71347	3.6691103 ppbv	97
89) sec-Butylbenzene	13.551	134	21675	3.8502713 ppbv	96
90) 1,3-Dichlorobenzene	13.630	146	52799	4.3932352 ppbv	94
91) P-ISOPROPYLTOLUENE	13.551	119	87178	3.8549778 ppbv	99
92) 1,4-Dichlorobenzene	13.709	146	51319	4.5870309 ppbv	95
93) 1,2,3-TRIMETHYLBENZENE	13.697	105	72494	3.8326770 ppbv	98
94) Benzyl Chloride	13.813	91	51364	3.8515270 ppbv	96
95) n-Butylbenzene	13.904	91	80851	3.7801044 ppbv	98
96) 1,2-Dichlorobenzene	14.044	146	51305	4.3207799 ppbv	99
97) 1,2-DIBROMO-3-CHLOROPR...	14.750	157	24586	4.2751409 ppbv	93
98) 1,2,4-Trichlorobenzene	15.522	180	24140	4.7025649 ppbv	97
99) Hexachloro-1,3-Butadiene	15.601	225	47701	4.5042617 ppbv	97
100) Naphthalene	15.814	128	51775	4.0019110 ppbv	98
101) TPH (GC/MS) Low Fraction	10.000	TIC	7189213m	198.9678640 ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	8399101m	275.4383356 ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

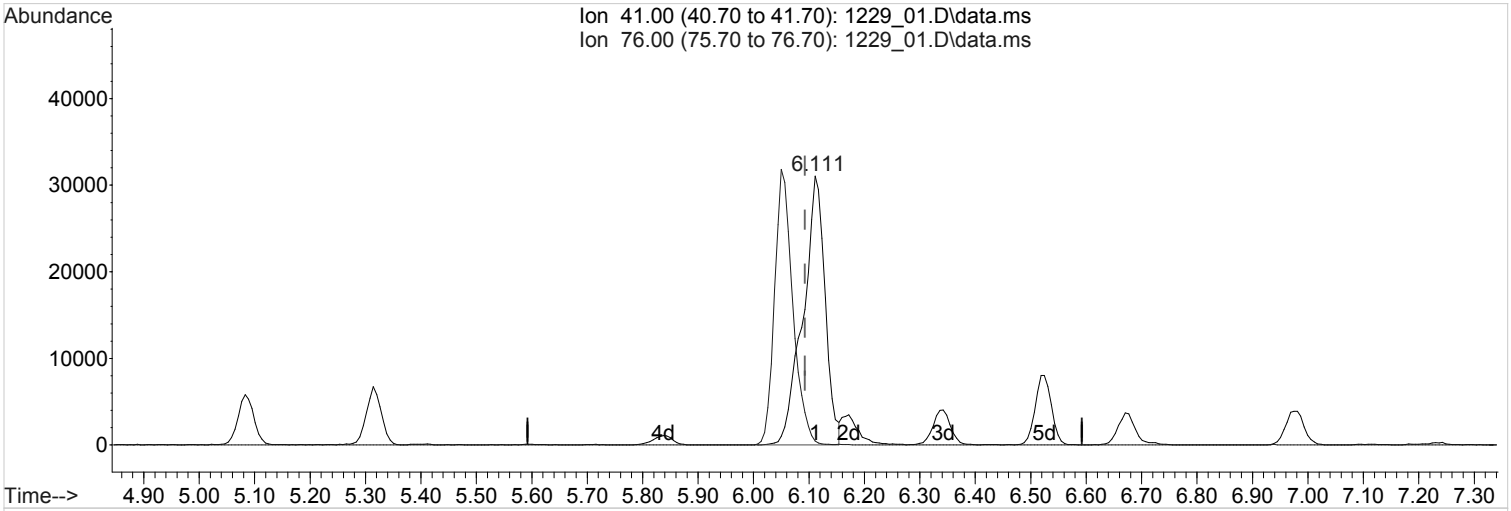
Quant Time: Dec 29 11:13:26 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

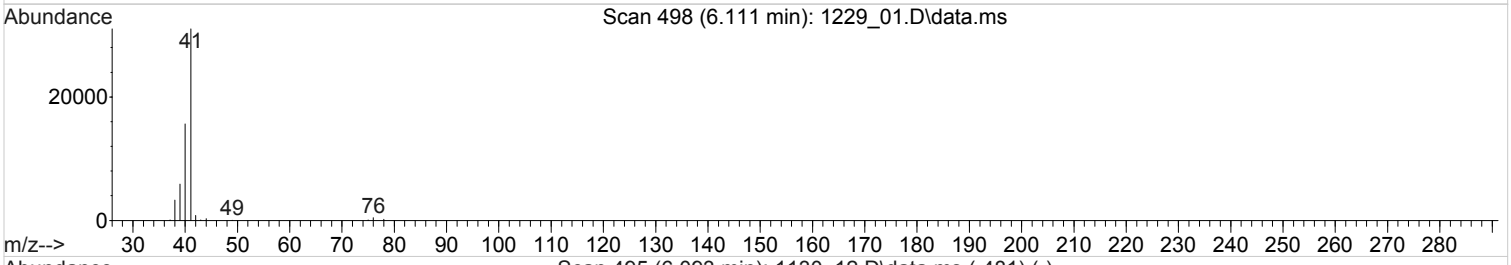


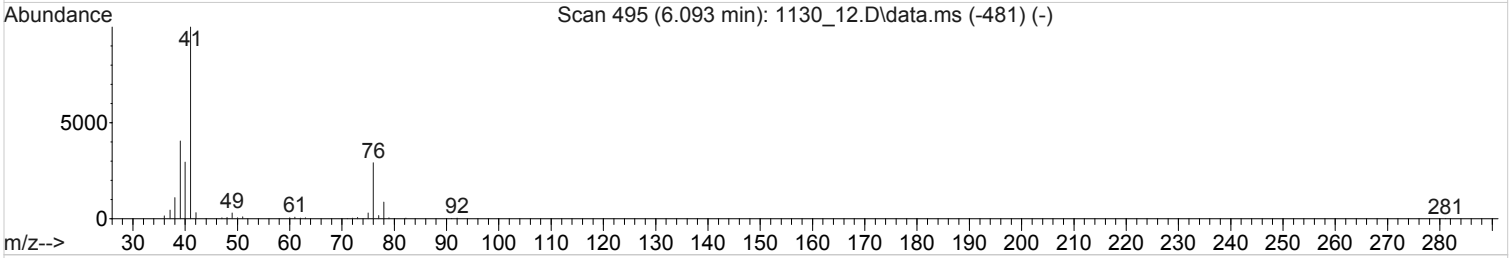
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 11:12:51 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_01.D\data.ms

(25) Allyl Chloride (T,M)

6.111min (+0.018) 13.4781782 ppbv

Qvalue = 1

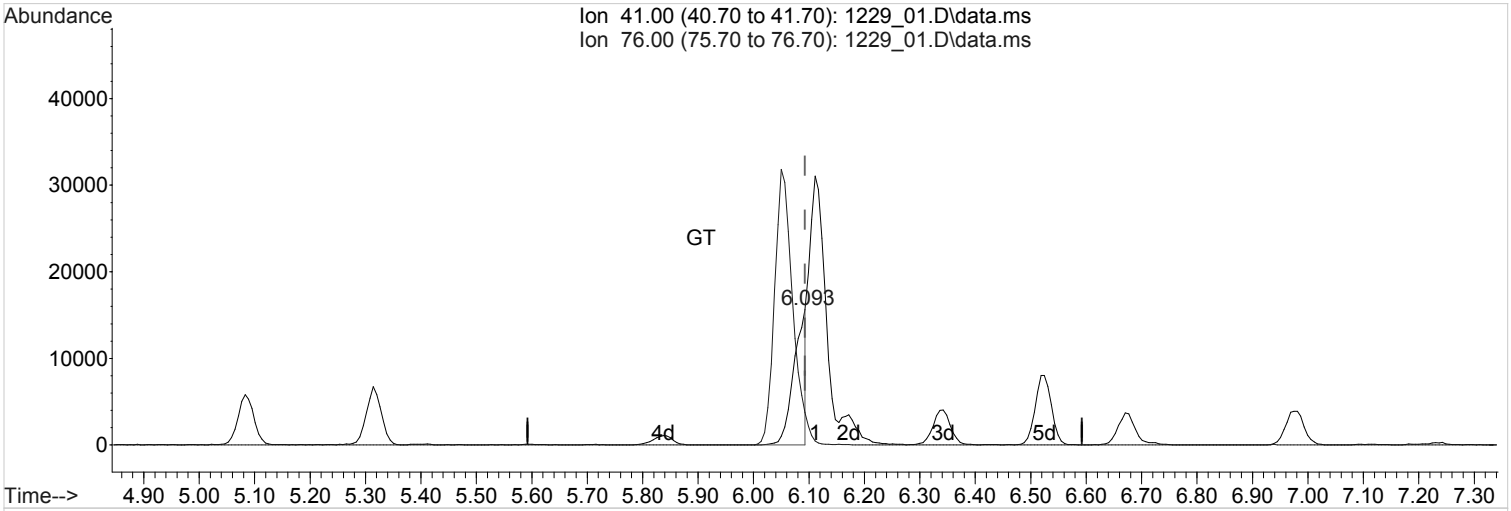
response 85767

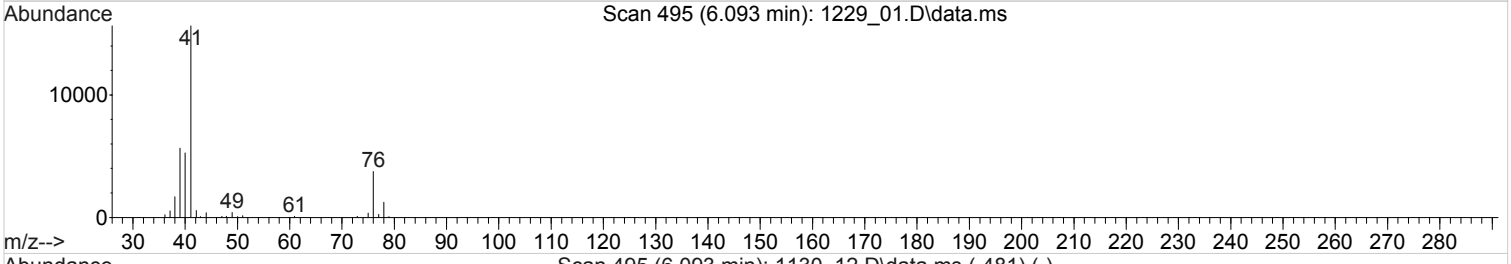
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	84.64#
0.00	0.00	0.00
0.00	0.00	0.00

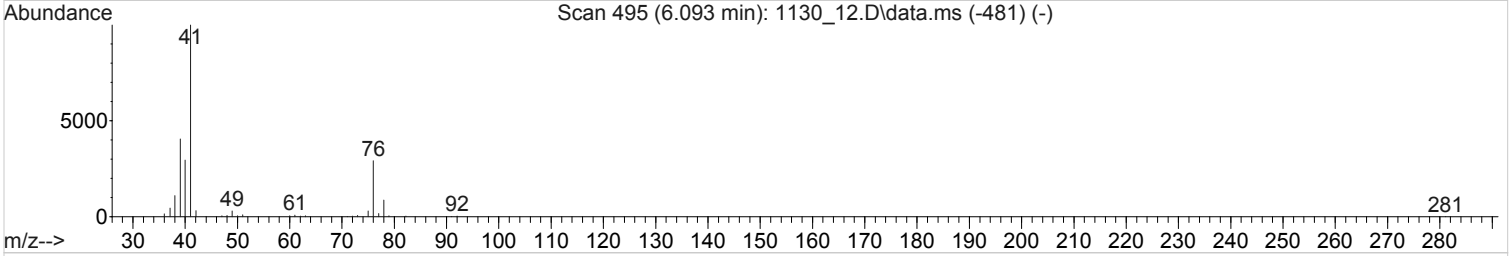
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 11:12:51 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_01.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 3.8360014 ppbv m

response 24410

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	297.37
0.00	0.00	0.00
0.00	0.00	0.00

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570570	**Calibration (begin) date/time:**	11/30/22 18:49
Instrument ID:	AIRMS4	**Calibration (end) date/time:**	12/01/22 01:11
Lab File ID:	1229_24	**Analysis date/time:**	12/30/22 03:22
Analytical Method:	TO-15	**Sample ID:**	CCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	0.594810	0.56746180		4.60		3.75	3.578	95.40	70 - 130
1,1,2,2-TETRACHLOROETHANE	0.255829	0.25518260		0.2530		3.75	3.741	99.80	70 - 130
1,1,2-TRICHLOROETHANE	0.108229	0.11105210		2.61		3.75	3.848	103	70 - 130
1,1,2-TRICHLOROTRIFLUOROETHANE	0.614638	0.63024160		2.54		3.75	3.845	103	70 - 130
1,1-DICHLOROETHANE	0.539493	0.50182130		6.98		3.75	3.488	93	70 - 130
1,1-DICHLOROETHENE	0.440043	0.410764		6.65		3.75	3.500	93.30	70 - 130
1,2,4-TRICHLOROBENZENE	0.084459	0.09022067		6.82		3.75	4.006	107	70 - 130
1,2,4-TRIMETHYLBENZENE	0.319933	0.31669420		1.01		3.75	3.712	99	70 - 130
1,2-DIBROMOETHANE	0.174648	0.18751590		7.37		3.75	4.026	107	70 - 130
1,2-DICHLOROBENZENE	0.195363	0.22427850		14.80		3.75	4.305	115	70 - 130
1,2-DICHLOROETHANE	0.0836	0.08515089		1.86		3.75	3.820	102	70 - 130
1,2-DICHLOROPROPANE	0.093712	0.09483973		1.20		3.75	3.795	101	70 - 130
1,3,5-TRIMETHYLBENZENE	0.327719	0.32166840		1.85		3.75	3.681	98.20	70 - 130
1,3-BUTADIENE	0.158135	0.134027		15.20		3.75	3.178	84.70	70 - 130
1,3-DICHLOROBENZENE	0.197736	0.22238460		12.50		3.75	4.217	112	70 - 130
1,4-DICHLOROBENZENE	0.184073	0.20706950		12.50		3.75	4.218	112	70 - 130
2-BUTANONE (MEK)	0.134207	0.12226750		8.90		3.75	3.416	91.10	70 - 130
4-ETHYLTOLUENE	0.397759	0.40011070		0.5910		3.75	3.772	101	70 - 130
4-METHYL-2-PENTANONE (MIBK)	0.160994	0.17253510		7.17		3.75	4.019	107	70 - 130
ACETONE	0.438936	0.37324280		15		3.75	3.189	85	70 - 130
BENZENE	0.225650	0.23232670		2.96		3.75	3.861	103	70 - 130
BENZYL CHLORIDE	0.219417	0.22042690		0.46		3.75	3.767	100	70 - 130
BROMODICHLOROMETHANE	0.172982	0.178020		2.91		3.75	3.859	103	70 - 130
BROMOFORM	0.222477	0.24982960		12.30		3.75	4.211	112	70 - 130
BROMOMETHANE	0.231613	0.24360050		5.18		3.75	3.944	105	70 - 130
CARBON DISULFIDE	1.086114	0.98089980		9.69		3.75	3.387	90.30	70 - 130
CARBON TETRACHLORIDE	0.634090	0.61760510		2.60		3.75	3.653	97.40	70 - 130
CHLOROBENZENE	0.213731	0.23183410		8.47		3.75	4.068	108	70 - 130
CHLORODIBROMOMETHANE	0.202168	0.22395980		10.80		3.75	4.154	111	70 - 130
CHLOROETHANE	0.100712	0.08858460		12		3.75	3.298	87.90	70 - 130
CHLOROFORM	0.585410	0.56622550		3.28		3.75	3.627	96.70	70 - 130
CHLOROMETHANE	0.243971	0.223316		8.47		3.75	3.433	91.50	70 - 130
CIS-1,2-DICHLOROETHENE	0.416728	0.38064640		8.66		3.75	3.425	91.30	70 - 130
CIS-1,3-DICHLOROPROPENE	0.148616	0.14423220		2.95		3.75	3.639	97	70 - 130
DICHLORODIFLUOROMETHANE	0.678668	0.67270820		0.8780		3.75	3.717	99.10	70 - 130
ETHYLBENZENE	0.382986	0.39299160		2.61		3.75	3.848	103	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.174240	0.20120990		15.50		3.75	4.330	115	70 - 130
M&P-XYLENE	0.300144	0.30399620		1.28		7.50	7.596	101	70 - 130
METHYL BUTYL KETONE	0.148178	0.16541220		11.60		3.75	4.186	112	70 - 130
METHYL TERT-BUTYL ETHER	0.692781	0.63259930		8.69		3.75	3.424	91.30	70 - 130
METHYLENE CHLORIDE	0.302588	0.27923850		7.72		3.75	3.461	92.30	70 - 130
NAPHTHALENE	0.212862	0.20760340		2.47		3.75	3.657	97.50	70 - 130
O-XYLENE	0.316575	0.30174410		4.68		3.75	3.574	95.30	70 - 130
STYRENE	0.253392	0.260960		2.99		3.75	3.862	103	70 - 130
TETRACHLOROETHENE	0.144296	0.16090030		11.50		3.75	4.182	112	70 - 130
TOLUENE	0.289180	0.29173240		0.8830		3.75	3.783	101	70 - 130

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570570	**Calibration (begin) date/time:**	11/30/22 18:49
Instrument ID:	AIRMS4	**Calibration (end) date/time:**	12/01/22 01:11
Lab File ID:	1229_24	**Analysis date/time:**	12/30/22 03:22
Analytical Method:	TO-15	**Sample ID:**	CCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*ppbv*	*ppbv*	*% Rec.*	*%*
TRANS-1,2-DICHLOROETHENE	0.437681	0.40696880		7.02		3.75	3.487	93	70 - 130
TRANS-1,3-DICHLOROPROPENE	0.130125	0.12726040		2.20		3.75	3.667	97.80	70 - 130
TRICHLOROETHENE	0.110324	0.11310070		2.52		3.75	3.844	103	70 - 130
TRICHLOROFLUOROMETHANE	0.568119	0.62073920		9.26		3.75	4.097	109	70 - 130
VINYL ACETATE	0.643468	0.57456360		10.70		3.75	3.348	89.30	70 - 130
VINYL CHLORIDE	0.238124	0.21973640		7.72		3.75	3.460	92.30	70 - 130
1,4-BROMOFLUOROBENZENE	0.682503	0.59369040		13		4	3.479	87	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 07:42:09 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	74198	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.307	114	259818	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	233738	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.632	95	138768	3.4794887	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 86.99%			
Target Compounds						Qvalue
2) Propene	4.182	41	12608	2.9501380	ppbv	99
3) BUTANE	4.572	43	19857	2.9164919	ppbv	99
4) 1,1-DIFLUOROETHANE	4.182	51	20019	3.4217010	ppbv	96
5) Dichlorodifluoromethane	4.225	85	46794	3.7170696	ppbv	99
6) CHLORODIFLUOROMETHANE	4.237	51	25644	3.6140151	ppbv	99
7) 1,2-Dichlorotetrafluor...	4.371	85	50873	3.6649584	ppbv	95
8) Chloromethane	4.480	50	15534	3.4325172	ppbv	100
9) Vinyl Chloride	4.602	62	15285	3.4604278	ppbv	100
10) 1,3-Butadiene	4.633	39	9323	3.1783076	ppbv	97
11) Bromomethane	4.985	94	16945	3.9440828	ppbv	96
12) Chloroethane	5.071	64	6162	3.2984241	ppbv	99
13) ISOPENTANE	5.089	43	13417	2.8529869	ppbv #	92
14) Vinyl Bromide	5.259	106	16864	3.8829361	ppbv	99
15) Trichlorofluoromethane	5.283	101	43179	4.0973279	ppbv	100
16) PENTANE	5.320	43	24853	2.5692375	ppbv	100
17) Ethanol	5.399	45	7811	3.2793288	ppbv	98
18) ACROLEIN	5.709	56	7302	3.3024693	ppbv	98
19) 1,1,2-Trichlorotrifluo...	5.697	101	43840	3.8451969	ppbv	96
20) 1,1-Dichloroethene	5.776	61	28573	3.5004851	ppbv	96
21) Acetone	5.819	43	25963	3.1887600	ppbv	99
22) BROMOETHANE	5.959	108	18076	3.7383770	ppbv	100
23) 2-Propanol	5.837	45	28716	3.1940705	ppbv	98
24) Carbon Disulfide	6.056	76	68232	3.3867295	ppbv	97
25) Allyl Chloride	6.093	41	23255m	3.9031743	ppbv	
26) METHYL ACETATE	6.044	43	30991	3.4259853	ppbv #	99
27) ACETONITRILE	6.111	41	61083m	12.1401825	ppbv	
28) Methylene Chloride	6.202	49	19424	3.4606300	ppbv	97
29) TERT-BUTYL ALCOHOL	6.166	59	36035	3.8072589	ppbv	93
30) Methyl Tert-Butyl Ether	6.342	73	44004	3.4242359	ppbv	98
31) Trans-1,2-Dichloroethene	6.403	61	28309	3.4868587	ppbv	98
32) ACRYLONITRILE	6.433	53	14759	3.5325146	ppbv	98
33) n-Hexane	6.525	57	25011	3.3073439	ppbv	99
34) 1,1-Dichloroethane	6.786	63	34907	3.4881423	ppbv	100
35) Vinyl Acetate	6.719	43	39967	3.3484397	ppbv	100
36) DI-ISOPROPYL ETHER	6.671	45	51285	3.3470941	ppbv	95
37) ETHYL TERT-BUTYL ETHER	6.975	59	55662	3.4278241	ppbv	99
38) ETHYL ACETATE	7.194	45	5614	3.3225024	ppbv	88
39) 2-Butanone (MEK)	7.236	72	8505	3.4163795	ppbv	96
40) cis-1,2-Dichloroethene	7.279	61	26478	3.4253104	ppbv	94
41) Tetrahydrofuran	7.510	42	16851	3.2474979	ppbv	97
42) Chloroform	7.504	83	39387	3.6271067	ppbv	100
43) Cyclohexane	7.723	84	20313	3.3543977	ppbv	95
44) 1,1,1-Trichloroethane	7.705	97	39473	3.5775807	ppbv	99
45) Carbon Tetrachloride	7.832	117	42961	3.6525094	ppbv	99
46) 2,2,4-Trimethylpentane	7.942	57	80536	3.2355669	ppbv	99
48) Benzene	8.033	78	56590	3.8609652	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 07:42:09 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

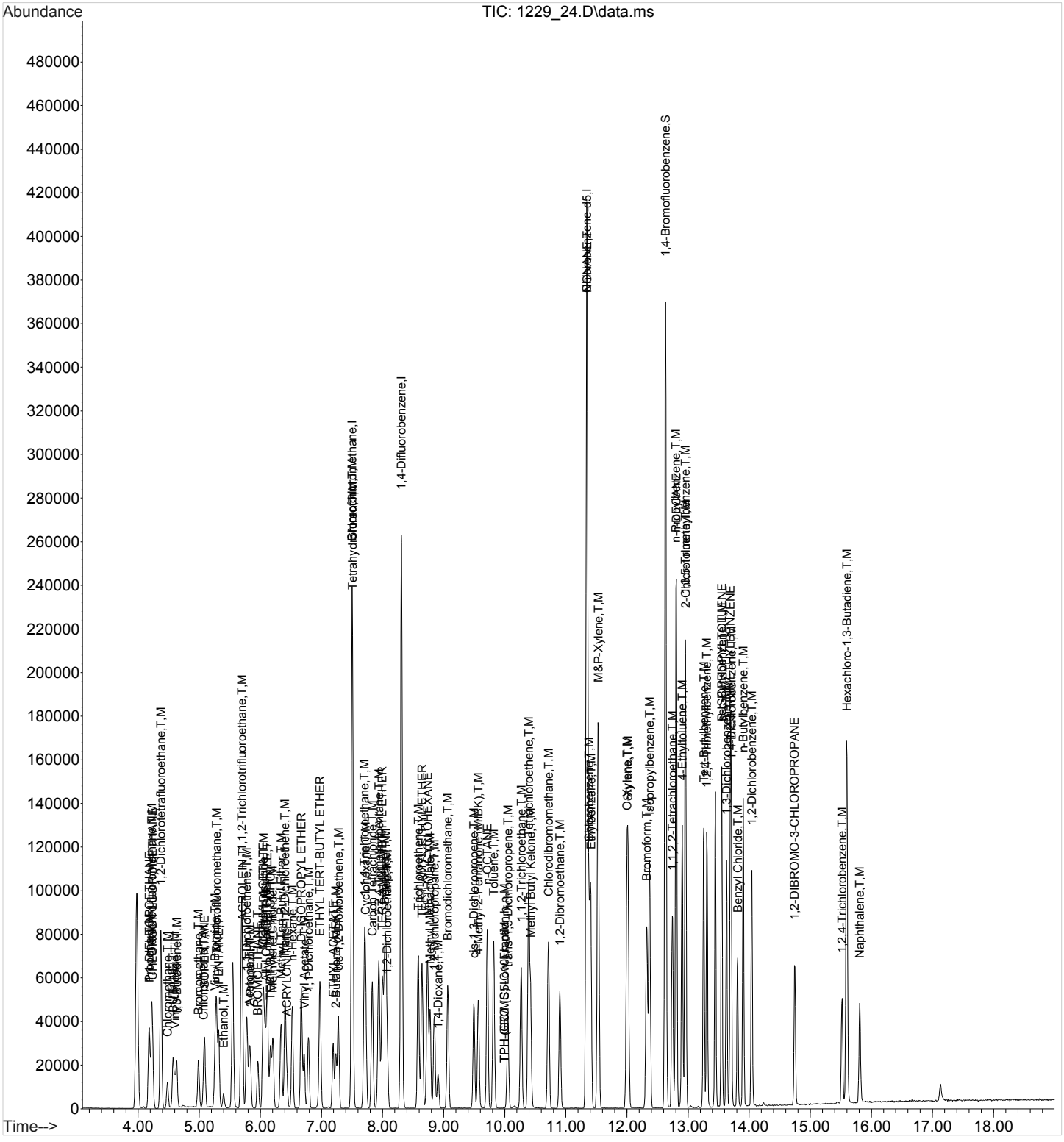
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) TERT-AMYL METHYL ETHER	7.997	73	55526	3.8491830 ppbv	98
50) 1,2-Dichloroethane	8.076	62	20741	3.8195536 ppbv	95
51) Heptane	8.058	43	28757	3.5755636 ppbv	100
52) Trichloroethene	8.587	95	27549	3.8443719 ppbv	93
53) TERT-AMYL ETHYL ETHER	8.648	73	18036	3.6992599 ppbv	97
54) METHYL CYCLOHEXANE	8.739	83	35303	3.6438738 ppbv	97
55) 1,2-Dichloropropane	8.848	63	23101	3.7951456 ppbv	96
56) Methyl Methacrylate	8.775	41	23319	3.6083868 ppbv	89
57) 1,4-Dioxane	8.909	88	14026	4.5621175 ppbv	95
58) Bromodichloromethane	9.067	83	43362	3.8592130 ppbv	98
59) cis-1,3-Dichloropropene	9.493	75	35132	3.6393788 ppbv	96
60) 4-Methyl-2-Pentanone (...	9.566	43	42026	4.0188276 ppbv	98
61) n-OCTANE	9.718	43	44051	3.4823347 ppbv	97
62) Toluene	9.822	91	71060	3.7831038 ppbv	100
63) trans-1,3-Dichloropropene	10.053	75	30998	3.6674495 ppbv	97
64) 1,1,2-Trichloroethane	10.272	97	27050	3.8478185 ppbv	98
65) Tetrachloroethene	10.394	166	39192	4.1815124 ppbv	96
66) Methyl Butyl Ketone	10.424	43	40291	4.1861513 ppbv	99
67) Chlorodibromomethane	10.716	129	54552	4.1542183 ppbv	99
68) 1,2-Dibromoethane	10.905	107	45675	4.0262965 ppbv	99
69) Chlorobenzene	11.379	112	56470	4.0676189 ppbv	95
70) NONANE	11.349	43	46901	3.5027806 ppbv	99
72) Ethylbenzene	11.410	91	86116	3.8479666 ppbv	100
73) M&P-Xylene	11.531	91	133229	7.5962677 ppbv	99
74) O-Xylene	12.000	91	66121	3.5743236 ppbv	98
77) Styrene	12.018	104	57184	3.8620032 ppbv	96
78) Bromoform	12.322	173	54745	4.2110522 ppbv	99
79) Isopropylbenzene	12.371	105	94262	3.7556952 ppbv	99
80) n-DECANE	12.809	43	42322	3.6121516 ppbv	97
81) 1,1,2,2-Tetrachloroethane	12.742	83	55918	3.7405222 ppbv	99
82) n-Propylbenzene	12.803	91	112422	3.9719158 ppbv	98
83) 4-Ethyltoluene	12.906	105	87676	3.7721712 ppbv	98
84) 2-Chlorotoluene	12.961	126	23388	3.9344963 ppbv	89
86) 1,3,5-Trimethylbenzene	12.955	105	70487	3.6807604 ppbv	97
87) Tert-Butylbenzene	13.259	119	65529	3.6991627 ppbv	98
88) 1,2,4-Trimethylbenzene	13.308	105	69397	3.7120323 ppbv	98
89) sec-Butylbenzene	13.551	134	20724	3.8290568 ppbv	98
90) 1,3-Dichlorobenzene	13.630	146	48731	4.2174514 ppbv	95
91) P-ISOPROPYLTOLUENE	13.551	119	84632	3.8925624 ppbv	99
92) 1,4-Dichlorobenzene	13.709	146	45375	4.2184813 ppbv	95
93) 1,2,3-TRIMETHYLBENZENE	13.691	105	67186	3.6945789 ppbv	97
94) Benzyl Chloride	13.813	91	48302	3.7672568 ppbv	97
95) n-Butylbenzene	13.904	91	78597	3.8221733 ppbv	99
96) 1,2-Dichlorobenzene	14.044	146	49146	4.3050345 ppbv	98
97) 1,2-DIBROMO-3-CHLOROPR...	14.743	157	22652	4.0968977 ppbv	93
98) 1,2,4-Trichlorobenzene	15.522	180	19770	4.0058087 ppbv	98
99) Hexachloro-1,3-Butadiene	15.601	225	44091	4.3304406 ppbv	97
100) Naphthalene	15.808	128	45492	3.6573654 ppbv	98
101) TPH (GC/MS) Low Fraction	10.000	TIC	6955949m	200.2368287 ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	8205291m	279.8798004 ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 07:42:09 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

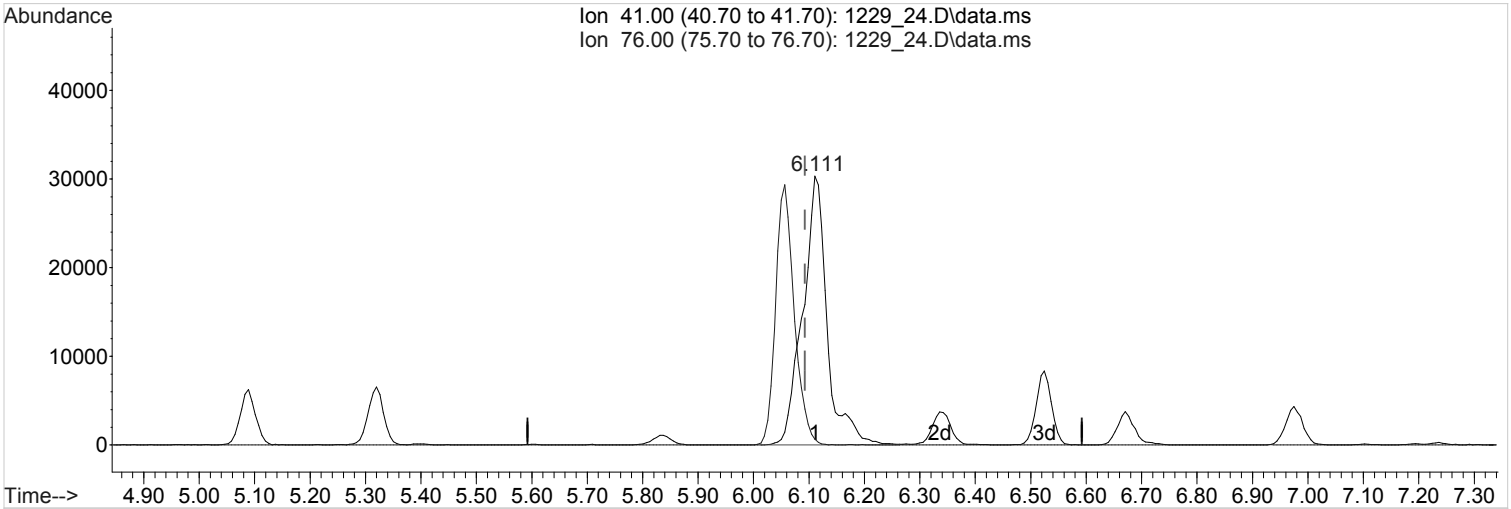


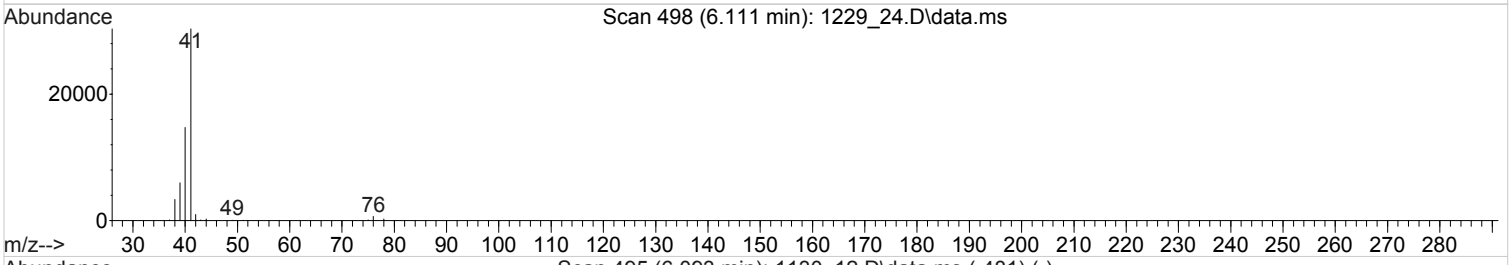
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	283 of 471

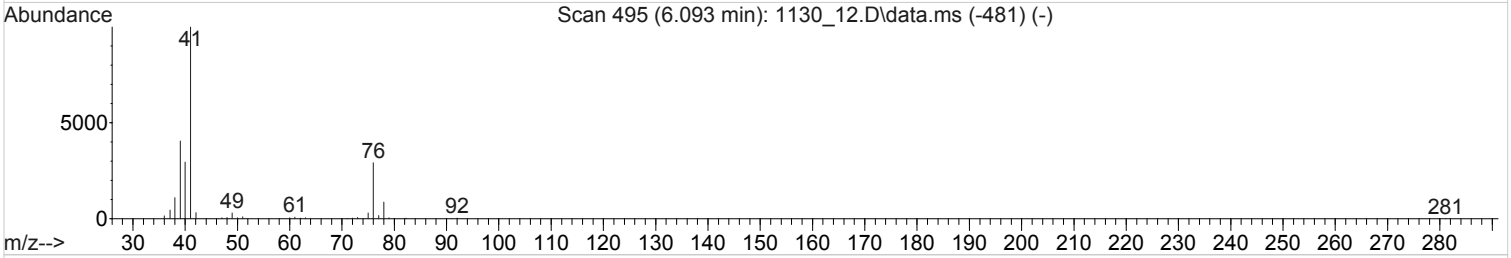
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 07:41:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_24.D\data.ms

(25) Allyl Chloride (T,M)

6.111min (+0.018) 15.5893673 ppbv

Qvalue = 1

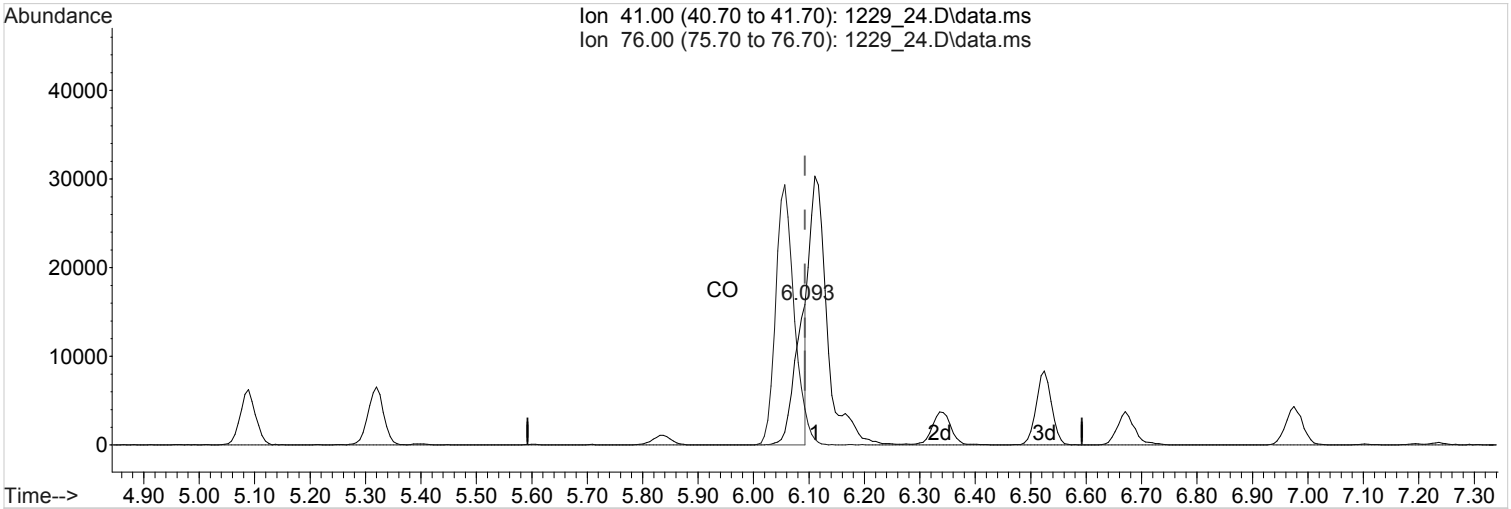
response 92881

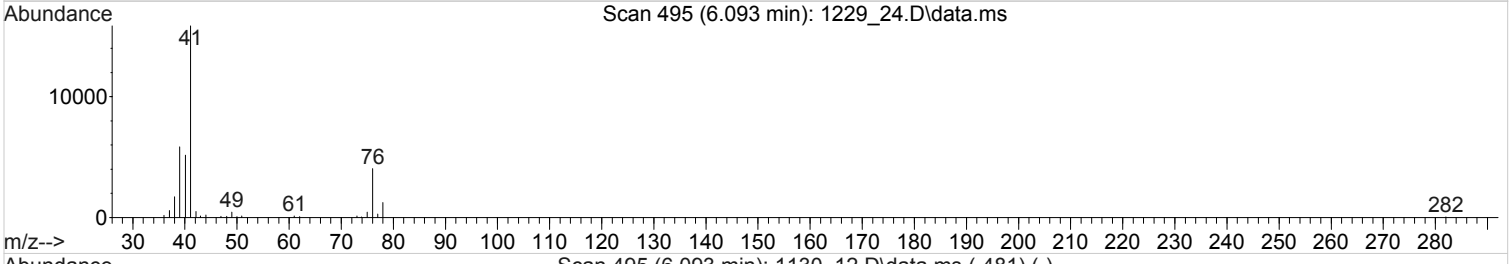
Ion	Exp%	Act%
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76.00	292.30	73.46#
0.00	0.00	0.00
0.00	0.00	0.00

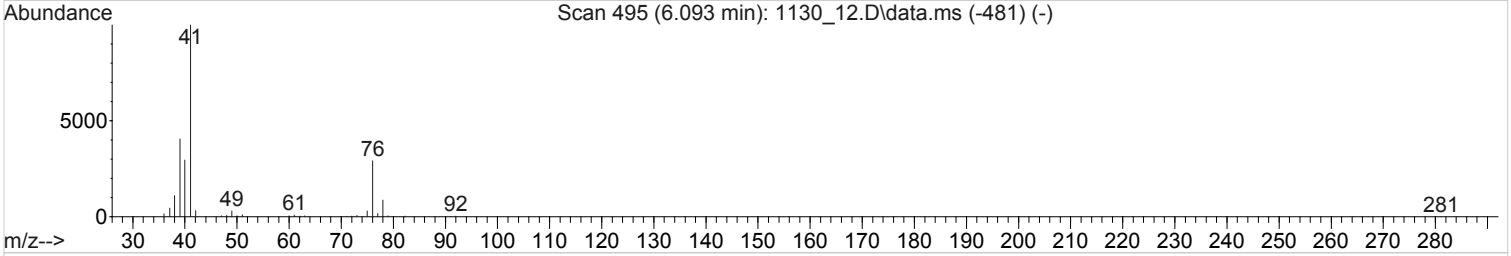
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 07:41:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_24.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (-0.000) 3.9031743 ppbv m

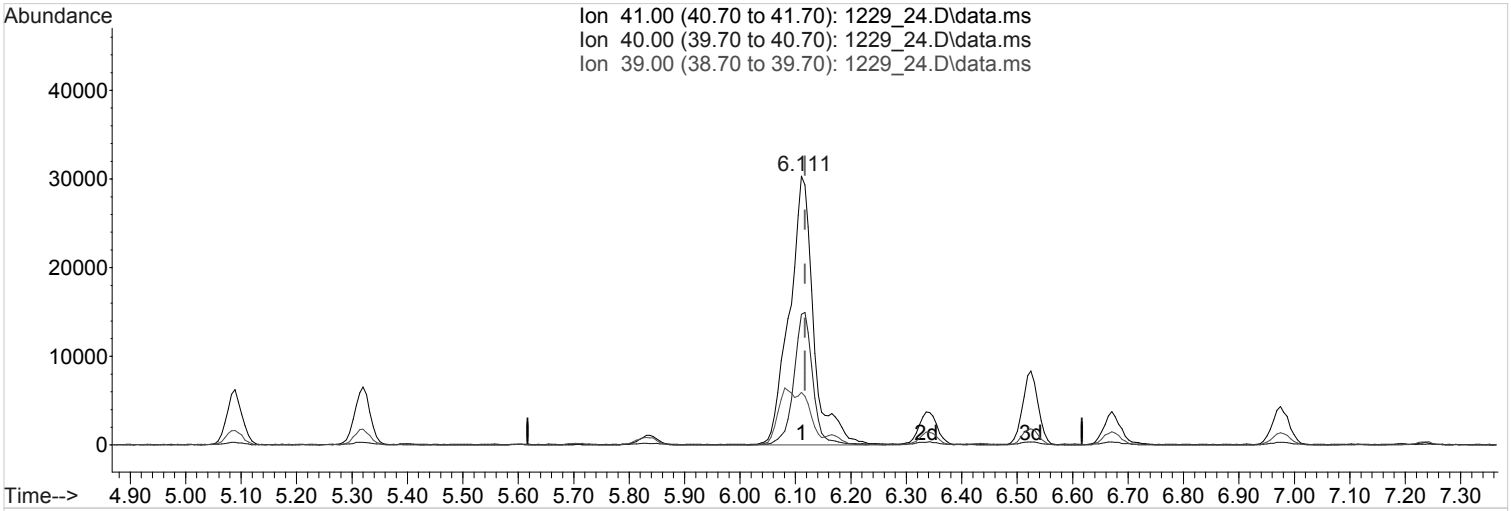
response 23255

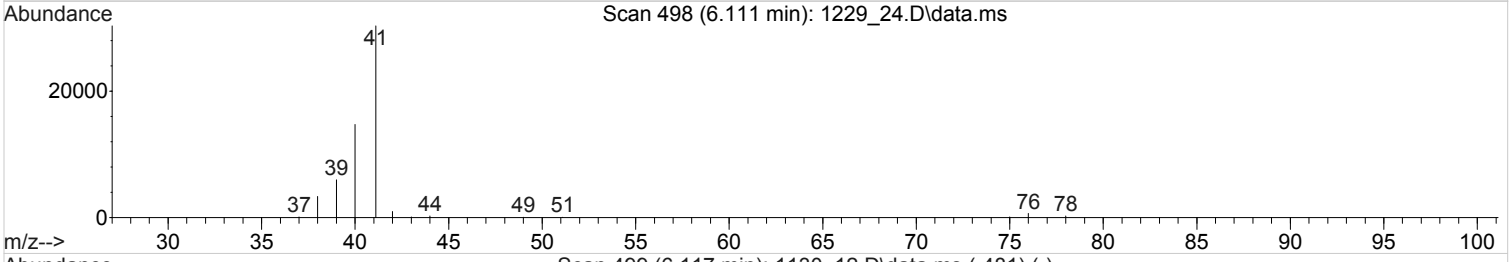
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	293.41
0.00	0.00	0.00
0.00	0.00	0.00

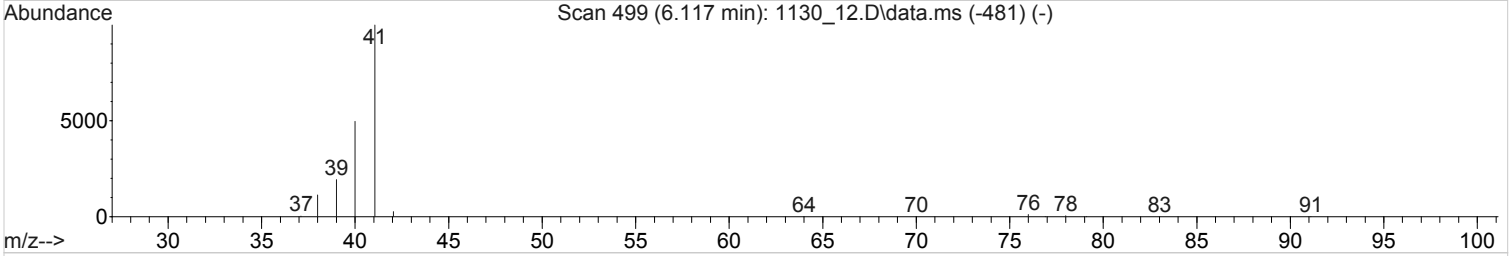
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 07:41:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_24.D\data.ms

(27) ACETONITRILE (T)

6.111min (-0.006) 18.4600019 ppbv

Qvalue = 86

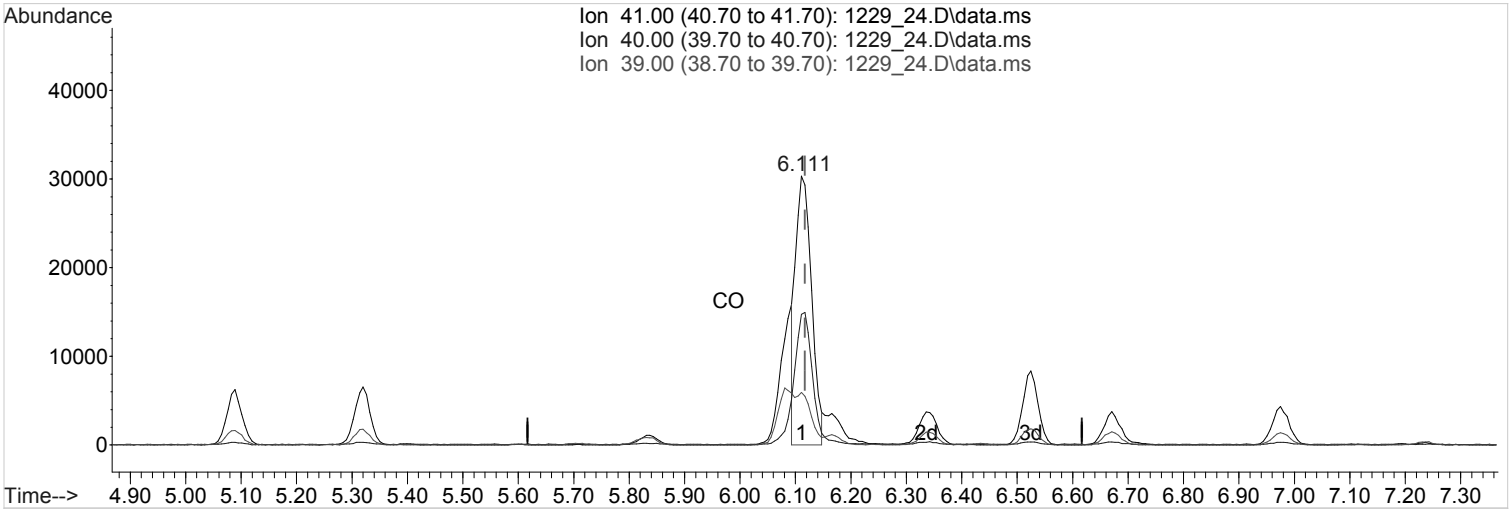
response 92881

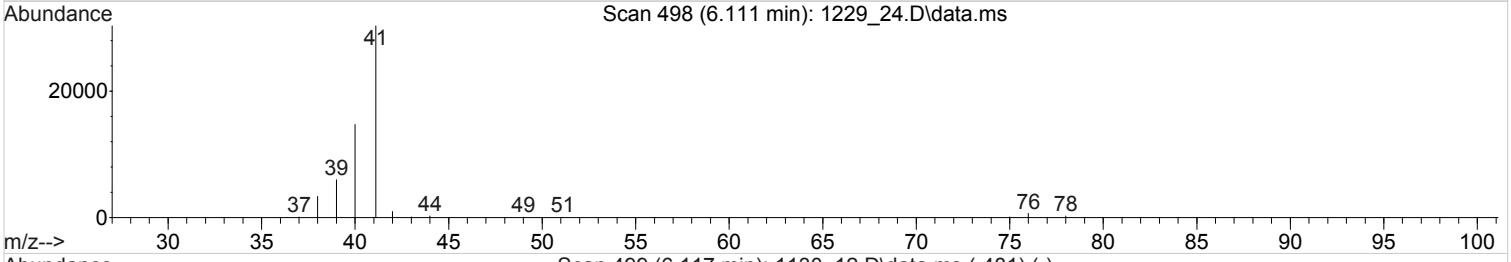
Ion	Exp%	Act%
41.00	100	100
40.00	40.90	37.66
39.00	28.40	14.23#
0.00	0.00	0.00

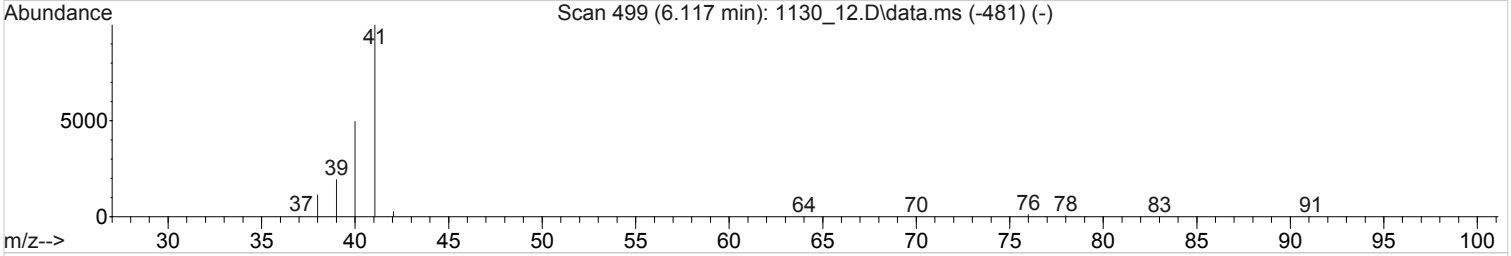
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 07:41:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_24.D\data.ms

(27) ACETONITRILE (T)

6.111min (-0.006) 12.1401825 ppbv m

response 61083

Ion	Exp%	Act%
41.00	100	100
40.00	40.90	57.27#
39.00	28.40	21.63#
0.00	0.00	0.00

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1570570	**Analytical Method:**	TO-15
Instrument ID:	AIRMS4	**Calibration Start Date:**	11/30/22 18:49
		Calibration End Date:	12/01/22 01:11

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	AIRMS41130221130_01606182	1130_01	11/30/22 14:37		
TUNE	AIRMS41130221130_02606182	1130_02	11/30/22 15:19		
CAL	0.19	1130_07	11/30/22 18:49		
CAL	0.31	1130_08	11/30/22 19:29		
CAL	0.63	1130_09	11/30/22 20:09		
CAL	1.25	1130_10	11/30/22 20:50		
CAL	2.5	1130_11	11/30/22 21:31		
CAL	3.75	1130_12	11/30/22 22:14		
CAL	10	1130_13	11/30/22 22:55		
CAL	25	1130_14	11/30/22 23:36		
CAL	50	1130_15	12/01/22 00:21		
CAL	100	1130_16	12/01/22 01:11		
SSCV	AIRMS41130221130_18606182	1130_18	12/01/22 02:34		
ICV	AIRMS41229221229_01606182	1229_01	12/29/22 10:36		
TUNE	AIRMS41229221229_01T606182	1229_01T	12/29/22 10:36		
LCS	R3876561-1	1229_02	12/29/22 11:19	1	WG1980894
LCSD	R3876561-2	1229_03	12/29/22 12:04	1	WG1980894
BLANK	R3876561-3	1229_04	12/29/22 12:46	1	WG1980894
774776-INF_1222	L1570570-01	1229_05	12/29/22 13:39	1	WG1980894
774-VMP-1_1222	L1570570-02	1229_06	12/29/22 14:24	1	WG1980894
774-VMP-2_1222	L1570570-03	1229_07	12/29/22 15:08	1	WG1980894
774-VMP-3_1222	L1570570-04	1229_08	12/29/22 15:52	1	WG1980894
776-VMP-1_1222	L1570570-05	1229_09	12/29/22 16:35	1	WG1980894
776-VMP-2_1222	L1570570-06	1229_10	12/29/22 17:19	1	WG1980894
776-VMP-2_1222-A	L1570570-07	1229_11	12/29/22 18:02	1	WG1980894
776-VMP-3_1222	L1570570-08	1229_12	12/29/22 18:45	1	WG1980894
776-OA-1_1222	L1570570-09	1229_13	12/29/22 19:31	1	WG1980894
L1570581-01	L1570581-01	1229_14	12/29/22 20:13	1	WG1980894
L1570581-02	L1570581-02	1229_15	12/29/22 20:56	1	WG1980894
L1570581-03	L1570581-03	1229_16	12/29/22 21:38	1	WG1980894
L1570581-04	L1570581-04	1229_17	12/29/22 22:21	1	WG1980894
L1570581-05	L1570581-05	1229_18	12/29/22 23:03	1	WG1980894
L1570581-06	L1570581-06	1229_19	12/29/22 23:46	1	WG1980894
L1570581-07	L1570581-07	1229_20	12/30/22 00:30	1	WG1980894
L1570581-08	L1570581-08	1229_21	12/30/22 01:14	1	WG1980894
L1570581-09	L1570581-09	1229_22	12/30/22 01:56	1	WG1980894
CCV	AIRMS41229221229_24606182	1229_24	12/30/22 03:22		

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1570570-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** TO-15

Matrix: Air **Prep Method:** TO-15

Analyte	CAS	MDL	RDL
		ppbv	*ppbv*
Carbon disulfide	75-15-0	0.1020	0.50
Carbon tetrachloride	56-23-5	0.0732	0.30
Chlorobenzene	108-90-7	0.0832	0.40
Chloroethane	75-00-3	0.0996	0.40
Chloroform	67-66-3	0.0717	0.30
Chloromethane	74-87-3	0.1030	0.50
Dibromochloromethane	124-48-1	0.0727	0.30
1,2-Dibromoethane	106-93-4	0.0721	0.30
Acetone	67-64-1	0.5840	2.40
1,2-Dichlorobenzene	95-50-1	0.1280	0.60
1,3-Dichlorobenzene	541-73-1	0.1820	0.80
1,4-Dichlorobenzene	106-46-7	0.0557	0.30
1,2-Dichloroethane	107-06-2	0.07	0.30
1,1-Dichloroethane	75-34-3	0.0723	0.30
1,1-Dichloroethene	75-35-4	0.0762	0.40
cis-1,2-Dichloroethene	156-59-2	0.0784	0.40
trans-1,2-Dichloroethene	156-60-5	0.0673	0.30
1,2-Dichloropropane	78-87-5	0.0760	0.40
cis-1,3-Dichloropropene	10061-01-5	0.0689	0.30
trans-1,3-Dichloropropene	10061-02-6	0.0728	0.30
Ethylbenzene	100-41-4	0.0835	0.40
4-Ethyltoluene	622-96-8	0.0783	0.40
Trichlorofluoromethane	75-69-4	0.0819	0.35
Dichlorodifluoromethane	75-71-8	0.1370	0.60
1,1,2-Trichlorotrifluoroethane	76-13-1	0.0793	0.40
Hexachloro-1,3-butadiene	87-68-3	0.1050	0.63
Benzene	71-43-2	0.0715	0.30
Methylene Chloride	75-09-2	0.0979	0.40
Methyl Butyl Ketone	591-78-6	0.1330	1.25
2-Butanone (MEK)	78-93-3	0.0814	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	0.0765	1.25
MTBE	1634-04-4	0.0647	0.30
Naphthalene	91-20-3	0.35	1.40
Benzyl Chloride	100-44-7	0.0598	0.30
Styrene	100-42-5	0.0788	0.40
1,1,2,2-Tetrachloroethane	79-34-5	0.0743	0.30
Tetrachloroethylene	127-18-4	0.0814	0.40
Toluene	108-88-3	0.0870	0.50
1,2,4-Trichlorobenzene	120-82-1	0.1480	0.63
1,1,1-Trichloroethane	71-55-6	0.0736	0.30
1,1,2-Trichloroethane	79-00-5	0.0775	0.40
Trichloroethylene	79-01-6	0.0680	0.30
Bromodichloromethane	75-27-4	0.0702	0.30
1,2,4-Trimethylbenzene	95-63-6	0.0764	0.40
1,3,5-Trimethylbenzene	108-67-8	0.0779	0.40
Vinyl chloride	75-01-4	0.0949	0.40
Vinyl acetate	108-05-4	0.1160	0.50
m&p-Xylene	1330-20-7	0.1350	0.60
o-Xylene	95-47-6	0.0828	0.35
Bromoform	75-25-2	0.0732	0.60
Bromomethane	74-83-9	0.0982	0.40

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1570570-01,02,03,04,05,06,07,08,09,10,11
Matrix: Air
Analytical Method: TO-15
Prep Method: TO-15

Analyte	CAS	MDL	RDL
		ppbv	*ppbv*
1,3-Butadiene	106-99-0	0.1040	2

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876561-3	**SDG:**	L1570570
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	1229_04	**Received Date/Time:**	
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 12:46
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 12:46
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
Acetone	67-64-1	0	1.20	U	0.584	1.20	2.40
Benzene	71-43-2	0	0.150	U	0.0715	0.150	0.300
Benzyl Chloride	100-44-7	0	0.130	U	0.0598	0.130	0.300
Bromodichloromethane	75-27-4	0	0.150	U	0.0702	0.150	0.300
Bromoform	75-25-2	0	0.310	U	0.0732	0.310	0.600
Bromomethane	74-83-9	0	0.200	U	0.0982	0.200	0.400
1,3-Butadiene	106-99-0	0	0.630	U	0.104	0.630	2.00
Carbon disulfide	75-15-0	6.06	0.250	U	0.102	0.250	0.500
Carbon tetrachloride	56-23-5	0	0.150	U	0.0732	0.150	0.300
Chlorobenzene	108-90-7	0	0.200	U	0.0832	0.200	0.400
Chloroethane	75-00-3	0	0.200	U	0.0996	0.200	0.400
Chloroform	67-66-3	0	0.150	U	0.0717	0.150	0.300
Chloromethane	74-87-3	0	0.250	U	0.103	0.250	0.500
Dibromochloromethane	124-48-1	0	0.150	U	0.0727	0.150	0.300
1,2-Dibromoethane	106-93-4	0	0.150	U	0.0721	0.150	0.300
1,2-Dichlorobenzene	95-50-1	0	0.300	U	0.128	0.300	0.600
1,3-Dichlorobenzene	541-73-1	0	0.400	U	0.182	0.400	0.800
1,4-Dichlorobenzene	106-46-7	0	0.130	U	0.0557	0.130	0.300
1,2-Dichloroethane	107-06-2	0	0.150	U	0.0700	0.150	0.300
1,1-Dichloroethane	75-34-3	0	0.150	U	0.0723	0.150	0.300
1,1-Dichloroethene	75-35-4	0	0.200	U	0.0762	0.200	0.400
cis-1,2-Dichloroethene	156-59-2	0	0.200	U	0.0784	0.200	0.400
trans-1,2-Dichloroethene	156-60-5	0	0.150	U	0.0673	0.150	0.300
1,2-Dichloropropane	78-87-5	0	0.200	U	0.0760	0.200	0.400
cis-1,3-Dichloropropene	10061-01-5	0	0.150	U	0.0689	0.150	0.300
trans-1,3-Dichloropropene	10061-02-6	0	0.150	U	0.0728	0.150	0.300
Ethylbenzene	100-41-4	0	0.200	U	0.0835	0.200	0.400
4-Ethyltoluene	622-96-8	0	0.200	U	0.0783	0.200	0.400
Trichlorofluoromethane	75-69-4	0	0.175	U	0.0819	0.175	0.350
Dichlorodifluoromethane	75-71-8	0	0.300	U	0.137	0.300	0.600
1,1,2-Trichlorotrifluoroethane	76-13-1	0	0.200	U	0.0793	0.200	0.400
Hexachloro-1,3-butadiene	87-68-3	15.60	0.250	U	0.105	0.250	0.630
Methylene Chloride	75-09-2	0	0.200	U	0.0979	0.200	0.400
Methyl Butyl Ketone	591-78-6	0	0.300	U	0.133	0.300	1.25
2-Butanone (MEK)	78-93-3	0	0.190	U	0.0814	0.190	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.190	U	0.0765	0.190	1.25
MTBE	1634-04-4	0	0.130	U	0.0647	0.130	0.300
Naphthalene	91-20-3	15.83	0.700	U	0.350	0.700	1.40
Styrene	100-42-5	0	0.200	U	0.0788	0.200	0.400
1,1,2,2-Tetrachloroethane	79-34-5	0	0.150	U	0.0743	0.150	0.300
Tetrachloroethylene	127-18-4	0	0.200	U	0.0814	0.200	0.400
Toluene	108-88-3	0	0.250	U	0.0870	0.250	0.500
1,2,4-Trichlorobenzene	120-82-1	15.53	0.310	U	0.148	0.310	0.630

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876561-3	**SDG:**	L1570570
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	1229_04	**Received Date/Time:**	
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 12:46
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 12:46
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
1,1,1-Trichloroethane	71-55-6	0	0.150	U	0.0736	0.150	0.300
1,1,2-Trichloroethane	79-00-5	0	0.200	U	0.0775	0.200	0.400
Trichloroethylene	79-01-6	0	0.150	U	0.0680	0.150	0.300
1,2,4-Trimethylbenzene	95-63-6	0	0.200	U	0.0764	0.200	0.400
1,3,5-Trimethylbenzene	108-67-8	0	0.200	U	0.0779	0.200	0.400
Vinyl chloride	75-01-4	0	0.200	U	0.0949	0.200	0.400
Vinyl acetate	108-05-4	0	0.250	U	0.116	0.250	0.500
m&p-Xylene	1330-20-7	0	0.300	U	0.135	0.300	0.600
o-Xylene	95-47-6	0	0.175	U	0.0828	0.175	0.350

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_04.D
Acq On : 29 Dec 2022 12:46 pm
Operator :
Sample : BLANK 1x WG1980894
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 13:07:15 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

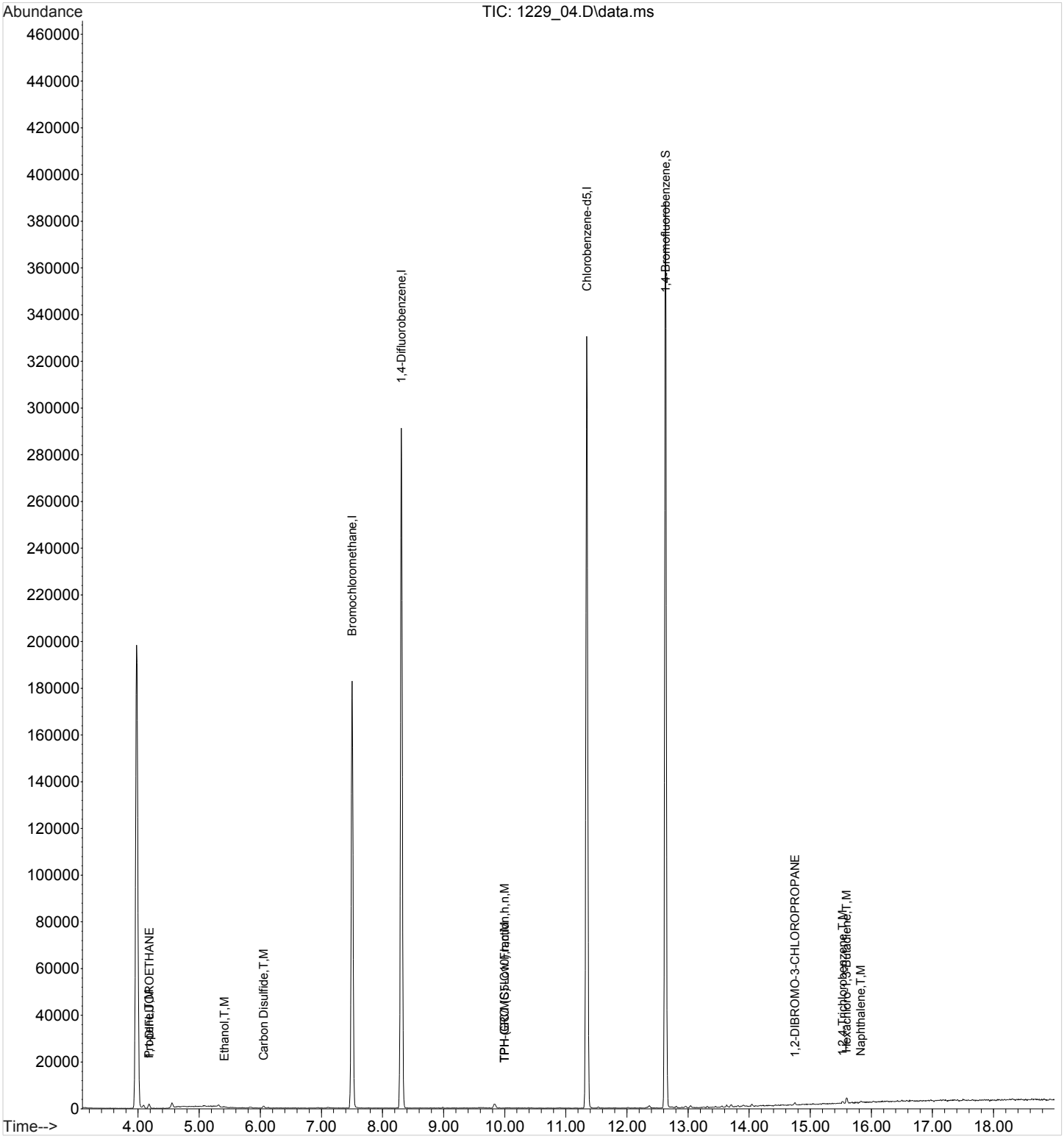
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	80248	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.307	114	287423	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	249011	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	147002	3.4598728	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 86.50%			
Target Compounds						Qvalue
2) Propene	4.176	41	665	0.1438718	ppbv	95
4) 1,1-DIFLUOROETHANE	4.183	51	769	0.1215301	ppbv	89
17) Ethanol	5.411	45	465	0.1805050	ppbv #	79
24) Carbon Disulfide	6.056	76	1380	0.0633329	ppbv #	84
97) 1,2-DIBROMO-3-CHLOROPR...	14.750	157	395	0.0670589	ppbv	98
98) 1,2,4-Trichlorobenzene	15.528	180	360	0.0684694	ppbv #	82
99) Hexachloro-1,3-Butadiene	15.595	225	690	0.0636124	ppbv #	92
100) Naphthalene	15.826	128	968	0.0730499	ppbv #	79
101) TPH (GC/MS) Low Fraction	10.000	TIC	94731m	2.5597032	ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	156480m	5.0101032	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_04.D
Acq On : 29 Dec 2022 12:46 pm
Operator :
Sample : BLANK 1x WG1980894
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 13:07:15 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876561-1	**SDG:**	L1570570
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	1229_02	**Received Date/Time:**	
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 11:19
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 11:19
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
Acetone	67-64-1	5.82	3.11		0.584	1.20	2.40
Benzene	71-43-2	8.03	3.82		0.0715	0.150	0.300
Benzyl Chloride	100-44-7	13.81	3.85		0.0598	0.130	0.300
Bromodichloromethane	75-27-4	9.07	3.78		0.0702	0.150	0.300
Bromoform	75-25-2	12.32	4.23		0.0732	0.310	0.600
Bromomethane	74-83-9	4.99	3.73		0.0982	0.200	0.400
1,3-Butadiene	106-99-0	4.63	3.13		0.104	0.630	2.00
Carbon disulfide	75-15-0	6.06	3.41		0.102	0.250	0.500
Carbon tetrachloride	56-23-5	7.83	3.68		0.0732	0.150	0.300
Chlorobenzene	108-90-7	11.38	4.08		0.0832	0.200	0.400
Chloroethane	75-00-3	5.07	3.29		0.0996	0.200	0.400
Chloroform	67-66-3	7.50	3.57		0.0717	0.150	0.300
Chloromethane	74-87-3	4.48	3.39		0.103	0.250	0.500
Dibromochloromethane	124-48-1	10.72	4.16		0.0727	0.150	0.300
1,2-Dibromoethane	106-93-4	10.90	3.97		0.0721	0.150	0.300
1,2-Dichlorobenzene	95-50-1	14.04	4.38		0.128	0.300	0.600
1,3-Dichlorobenzene	541-73-1	13.63	4.41		0.182	0.400	0.800
1,4-Dichlorobenzene	106-46-7	13.71	4.52		0.0557	0.130	0.300
1,2-Dichloroethane	107-06-2	8.08	3.74		0.0700	0.150	0.300
1,1-Dichloroethane	75-34-3	6.79	3.46		0.0723	0.150	0.300
1,1-Dichloroethene	75-35-4	5.78	3.49		0.0762	0.200	0.400
cis-1,2-Dichloroethene	156-59-2	7.27	3.39		0.0784	0.200	0.400
trans-1,2-Dichloroethene	156-60-5	6.40	3.39		0.0673	0.150	0.300
1,2-Dichloropropane	78-87-5	8.85	3.66		0.0760	0.200	0.400
cis-1,3-Dichloropropene	10061-01-5	9.50	3.69		0.0689	0.150	0.300
trans-1,3-Dichloropropene	10061-02-6	10.05	3.75		0.0728	0.150	0.300
Ethylbenzene	100-41-4	11.41	3.87		0.0835	0.200	0.400
4-Ethyltoluene	622-96-8	12.91	3.93		0.0783	0.200	0.400
Trichlorofluoromethane	75-69-4	5.28	4.05		0.0819	0.175	0.350
Dichlorodifluoromethane	75-71-8	4.23	3.64		0.137	0.300	0.600
1,1,2-Trichlorotrifluoroethane	76-13-1	5.69	3.75		0.0793	0.200	0.400
Hexachloro-1,3-butadiene	87-68-3	15.60	4.48		0.105	0.250	0.630
Methylene Chloride	75-09-2	6.20	3.35		0.0979	0.200	0.400
Methyl Butyl Ketone	591-78-6	10.42	4.13		0.133	0.300	1.25
2-Butanone (MEK)	78-93-3	7.24	3.56		0.0814	0.190	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	9.57	3.92		0.0765	0.190	1.25
MTBE	1634-04-4	6.34	3.50		0.0647	0.130	0.300
Naphthalene	91-20-3	15.81	3.83		0.350	0.700	1.40
Styrene	100-42-5	12.02	3.98		0.0788	0.200	0.400
1,1,2,2-Tetrachloroethane	79-34-5	12.74	3.80		0.0743	0.150	0.300
Tetrachloroethylene	127-18-4	10.39	4.30		0.0814	0.200	0.400
Toluene	108-88-3	9.82	3.82		0.0870	0.250	0.500
1,2,4-Trichlorobenzene	120-82-1	15.52	4.49		0.148	0.310	0.630

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876561-1	**SDG:**	L1570570
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	1229_02	**Received Date/Time:**	
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 11:19
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 11:19
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
1,1,1-Trichloroethane	71-55-6	7.70	3.55		0.0736	0.150	0.300
1,1,2-Trichloroethane	79-00-5	10.27	3.89		0.0775	0.200	0.400
Trichloroethylene	79-01-6	8.59	3.83		0.0680	0.150	0.300
1,2,4-Trimethylbenzene	95-63-6	13.31	3.80		0.0764	0.200	0.400
1,3,5-Trimethylbenzene	108-67-8	12.96	3.92		0.0779	0.200	0.400
Vinyl chloride	75-01-4	4.60	3.49		0.0949	0.200	0.400
Vinyl acetate	108-05-4	6.72	3.02		0.116	0.250	0.500
m&p-Xylene	1330-20-7	11.53	7.82		0.135	0.300	0.600
o-Xylene	95-47-6	12	3.71		0.0828	0.175	0.350

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 11:19 am
Operator :
Sample : LCS 1x WG1980894
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 11:41:49 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	77535	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	272809	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	242736	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	148507	3.5856522	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 89.64%			
Target Compounds						Qvalue
2) Propene	4.176	41	12656	2.8339162	ppbv	98
3) BUTANE	4.572	43	20009	2.8123342	ppbv	100
4) 1,1-DIFLUOROETHANE	4.176	51	20410	3.3383902	ppbv	98
5) Dichlorodifluoromethane	4.225	85	47878	3.6394933	ppbv	100
6) CHLORODIFLUOROMETHANE	4.237	51	26100	3.5199712	ppbv	100
7) 1,2-Dichlorotetrafluor...	4.371	85	52749	3.6365565	ppbv	94
8) Chloromethane	4.481	50	16039	3.3915726	ppbv	99
9) Vinyl Chloride	4.602	62	16090	3.4858990	ppbv	98
10) 1,3-Butadiene	4.633	39	9603	3.1328643	ppbv	99
11) Bromomethane	4.986	94	16755	3.7320142	ppbv	99
12) Chloroethane	5.071	64	6414	3.2855507	ppbv	100
13) ISOPENTANE	5.089	43	13669	2.7814773	ppbv	91
14) Vinyl Bromide	5.259	106	17269	3.8050577	ppbv	100
15) Trichlorofluoromethane	5.284	101	44594	4.0494774	ppbv	100
16) PENTANE	5.320	43	26083	2.5803427	ppbv	99
17) Ethanol	5.399	45	7614	3.0590432	ppbv	100
18) ACROLEIN	5.703	56	7275	3.1486498	ppbv	99
19) 1,1,2-Trichlorotrifluo...	5.691	101	44729	3.7543230	ppbv	94
20) 1,1-Dichloroethene	5.776	61	29735	3.4860591	ppbv	96
21) Acetone	5.819	43	26469	3.1109921	ppbv	98
22) BROMOETHANE	5.959	108	19059	3.7720312	ppbv	100
23) 2-Propanol	5.837	45	29138	3.1015208	ppbv	99
24) Carbon Disulfide	6.056	76	71833	3.4120141	ppbv	97
25) Allyl Chloride	6.093	41	23914m	3.8410348	ppbv	
26) METHYL ACETATE	6.044	43	31440	3.3260352	ppbv #	97
27) ACETONITRILE	6.117	41	63159m	12.0125307	ppbv	
28) Methylene Chloride	6.202	49	19657	3.3514145	ppbv	95
29) TERT-BUTYL ALCOHOL	6.166	59	37611	3.8027447	ppbv	80
30) Methyl Tert-Butyl Ether	6.342	73	47045	3.5033167	ppbv	98
31) Trans-1,2-Dichloroethene	6.403	61	28715	3.3846444	ppbv	93
32) ACRYLONITRILE	6.433	53	14484	3.3174926	ppbv	99
33) n-Hexane	6.525	57	25732	3.2562389	ppbv	99
34) 1,1-Dichloroethane	6.786	63	36128	3.4547768	ppbv	99
35) Vinyl Acetate	6.719	43	37610	3.0153565	ppbv	99
36) DI-ISOPROPYL ETHER	6.671	45	53211	3.3233294	ppbv	99
37) ETHYL TERT-BUTYL ETHER	6.975	59	57211	3.3715816	ppbv	99
38) ETHYL ACETATE	7.194	45	5697	3.2265137	ppbv	91
39) 2-Butanone (MEK)	7.236	72	9256	3.5580295	ppbv	94
40) cis-1,2-Dichloroethene	7.273	61	27371	3.3884402	ppbv	93
41) Tetrahydrofuran	7.510	42	17273	3.1855570	ppbv	98
42) Chloroform	7.504	83	40488	3.5680272	ppbv	99
43) Cyclohexane	7.723	84	21344	3.3729562	ppbv	94
44) 1,1,1-Trichloroethane	7.705	97	40965	3.5530120	ppbv	98
45) Carbon Tetrachloride	7.833	117	45218	3.6789402	ppbv	100
46) 2,2,4-Trimethylpentane	7.942	57	84680	3.2556340	ppbv	99
48) Benzene	8.033	78	58788	3.8199302	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 11:19 am
Operator :
Sample : LCS 1x WG1980894
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 11:41:49 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

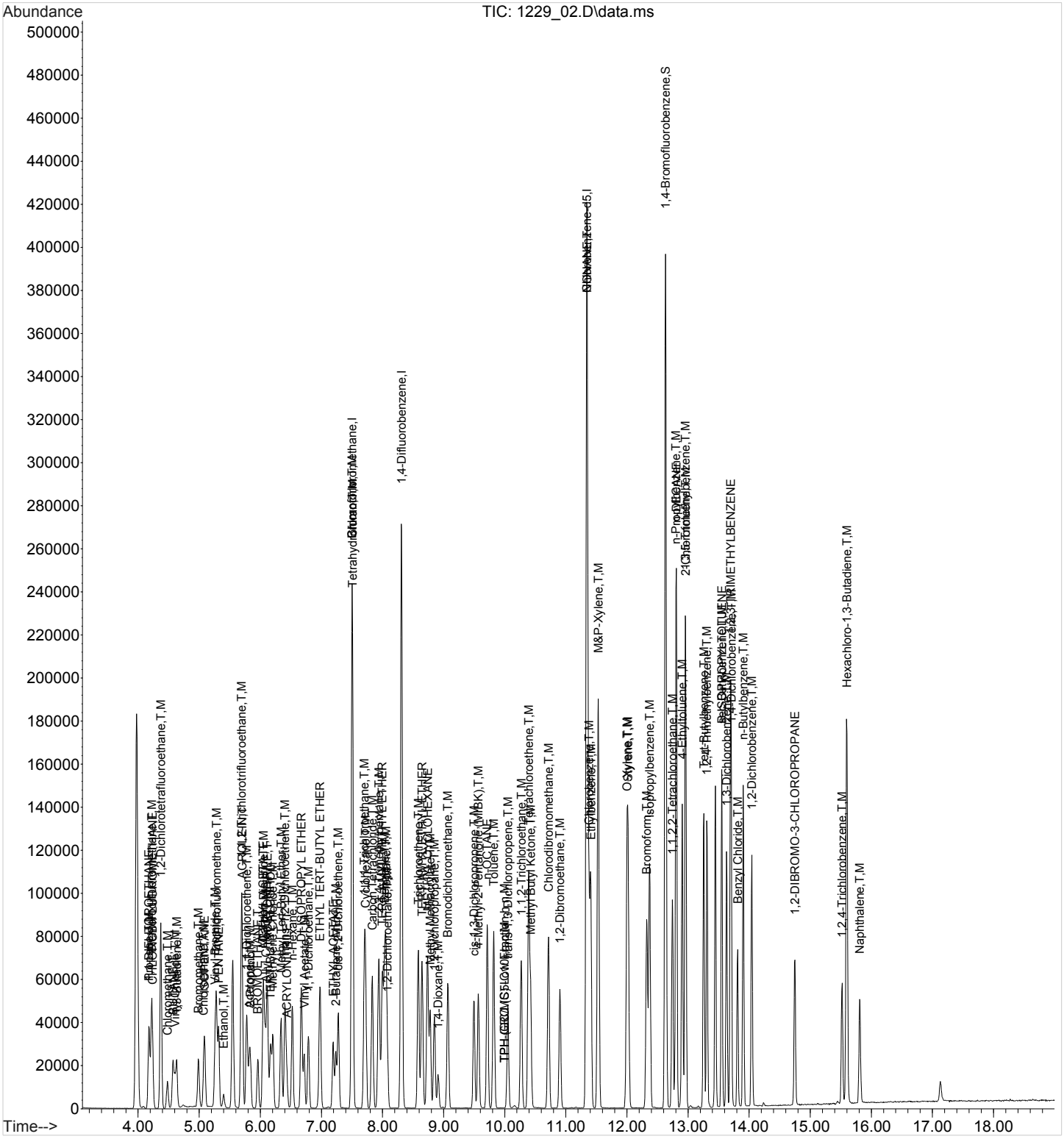
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) TERT-AMYL METHYL ETHER	7.997	73	59184	3.9073924	ppbv	97
50) 1,2-Dichloroethane	8.082	62	21323	3.7397431	ppbv	99
51) Heptane	8.058	43	29697	3.5166088	ppbv	98
52) Trichloroethene	8.587	95	28778	3.8246413	ppbv	92
53) TERT-AMYL ETHYL ETHER	8.648	73	19213	3.7530154	ppbv	98
54) METHYL CYCLOHEXANE	8.739	83	36780	3.6155468	ppbv	95
55) 1,2-Dichloropropane	8.849	63	23365	3.6557290	ppbv	97
56) Methyl Methacrylate	8.782	41	24088	3.5498864	ppbv	89
57) 1,4-Dioxane	8.909	88	14203	4.3997020	ppbv	96
58) Bromodichloromethane	9.068	83	44544	3.7756280	ppbv	98
59) cis-1,3-Dichloropropene	9.500	75	37361	3.6859838	ppbv	96
60) 4-Methyl-2-Pentanone (...	9.566	43	43034	3.9192555	ppbv	100
61) n-OCTANE	9.712	43	46536	3.5035984	ppbv	97
62) Toluene	9.822	91	75368	3.8213832	ppbv	100
63) trans-1,3-Dichloropropene	10.053	75	33264	3.7481372	ppbv	95
64) 1,1,2-Trichloroethane	10.272	97	28746	3.8943527	ppbv	98
65) Tetrachloroethene	10.394	166	42335	4.3017589	ppbv	95
66) Methyl Butyl Ketone	10.424	43	41763	4.1324642	ppbv	98
67) Chlorodibromomethane	10.716	129	57376	4.1612082	ppbv	99
68) 1,2-Dibromoethane	10.905	107	47299	3.9709069	ppbv	99
69) Chlorobenzene	11.379	112	59408	4.0754723	ppbv	94
70) NONANE	11.349	43	48810	3.4717639	ppbv	98
72) Ethylbenzene	11.410	91	89979	3.8715399	ppbv	99
73) M&P-Xylene	11.531	91	142344	7.8151225	ppbv	98
74) O-Xylene	12.000	91	71201	3.7062583	ppbv	98
77) Styrene	12.018	104	61212	3.9807949	ppbv	96
78) Bromoform	12.322	173	57123	4.2310904	ppbv	100
79) Isopropylbenzene	12.371	105	97399	3.7368298	ppbv	99
80) n-DECANE	12.809	43	43180	3.5487675	ppbv	97
81) 1,1,2,2-Tetrachloroethane	12.742	83	59006	3.8007728	ppbv	99
82) n-Propylbenzene	12.803	91	116791	3.9733172	ppbv	98
83) 4-Ethyltoluene	12.906	105	94877	3.9306714	ppbv	99
84) 2-Chlorotoluene	12.961	126	25617	4.1497263	ppbv	88
86) 1,3,5-Trimethylbenzene	12.955	105	77890	3.9165651	ppbv	97
87) Tert-Butylbenzene	13.259	119	70276	3.8200765	ppbv	97
88) 1,2,4-Trimethylbenzene	13.308	105	73746	3.7984346	ppbv	97
89) sec-Butylbenzene	13.551	134	22242	3.9571927	ppbv	94
90) 1,3-Dichlorobenzene	13.630	146	52894	4.4080479	ppbv	94
91) P-ISOPROPYLTOLUENE	13.551	119	88560	3.9222360	ppbv	99
92) 1,4-Dichlorobenzene	13.709	146	50536	4.5241343	ppbv	95
93) 1,2,3-TRIMETHYLBENZENE	13.697	105	74593	3.9498388	ppbv	98
94) Benzyl Chloride	13.813	91	51291	3.8520899	ppbv	97
95) n-Butylbenzene	13.904	91	83080	3.8904159	ppbv	99
96) 1,2-Dichlorobenzene	14.044	146	51977	4.3842448	ppbv	98
97) 1,2-DIBROMO-3-CHLOROPR...	14.750	157	24417	4.2524185	ppbv	93
98) 1,2,4-Trichlorobenzene	15.522	180	22993	4.4861554	ppbv	98
99) Hexachloro-1,3-Butadiene	15.601	225	47401	4.4829590	ppbv	97
100) Naphthalene	15.808	128	49420	3.8258787	ppbv	98
101) TPH (GC/MS) Low Fraction	10.000	TIC	7256956m	201.1579654	ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	8526993m	280.0713229	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 11:19 am
Operator :
Sample : LCS 1x WG1980894
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 11:41:49 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

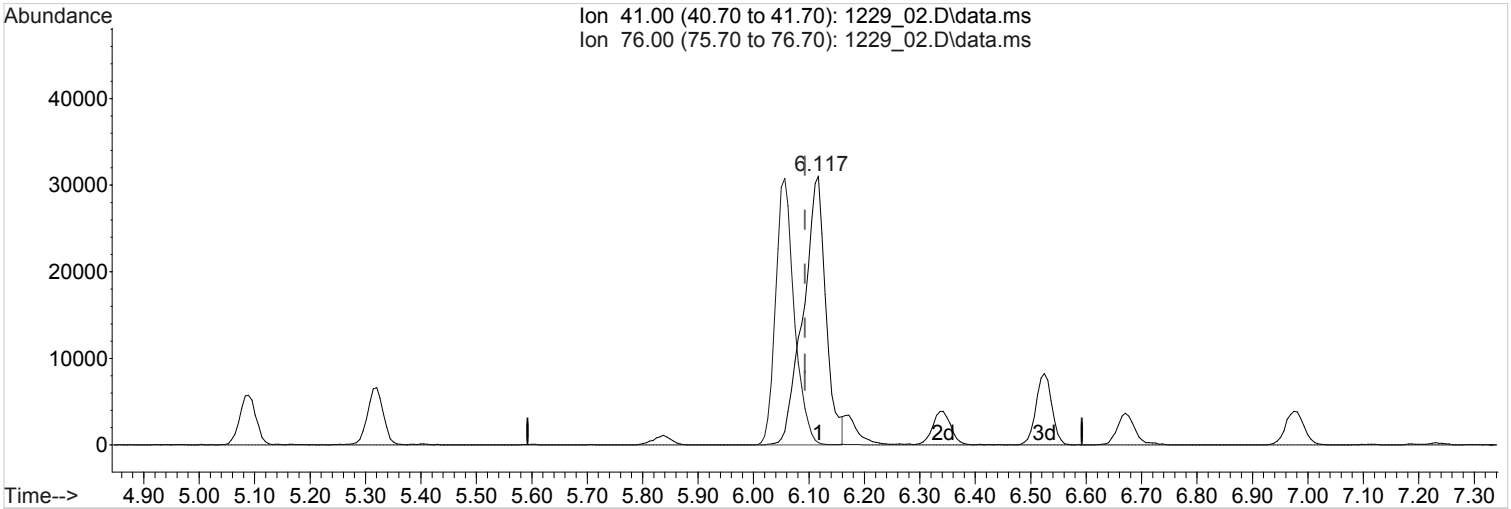


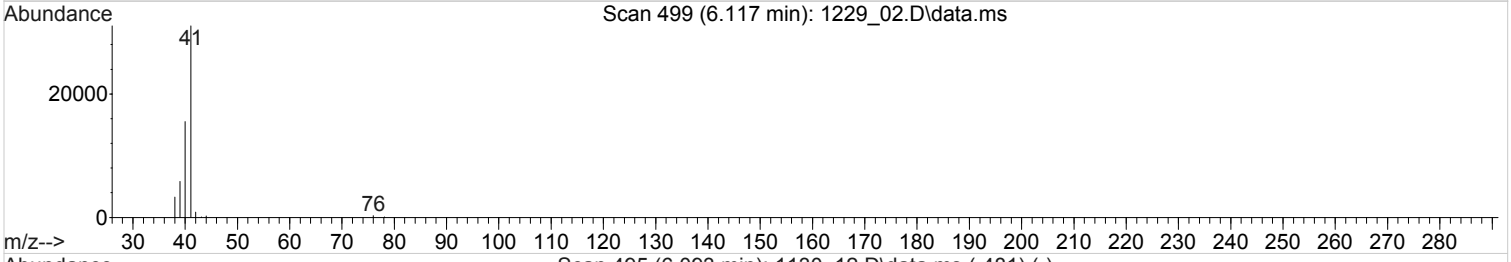
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	299 of 471

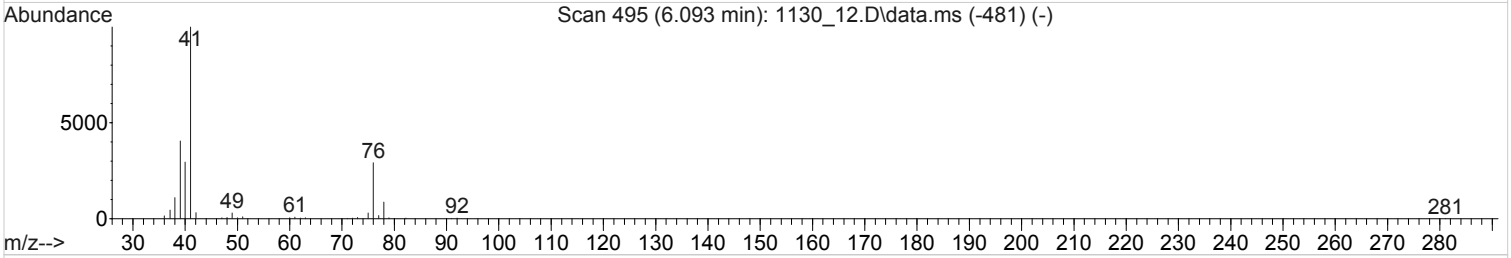
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 11:19 am
Operator :
Sample : LCS 1x WG1980247
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 11:40:47 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_02.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 14.1776490 ppbv

Qvalue = 1

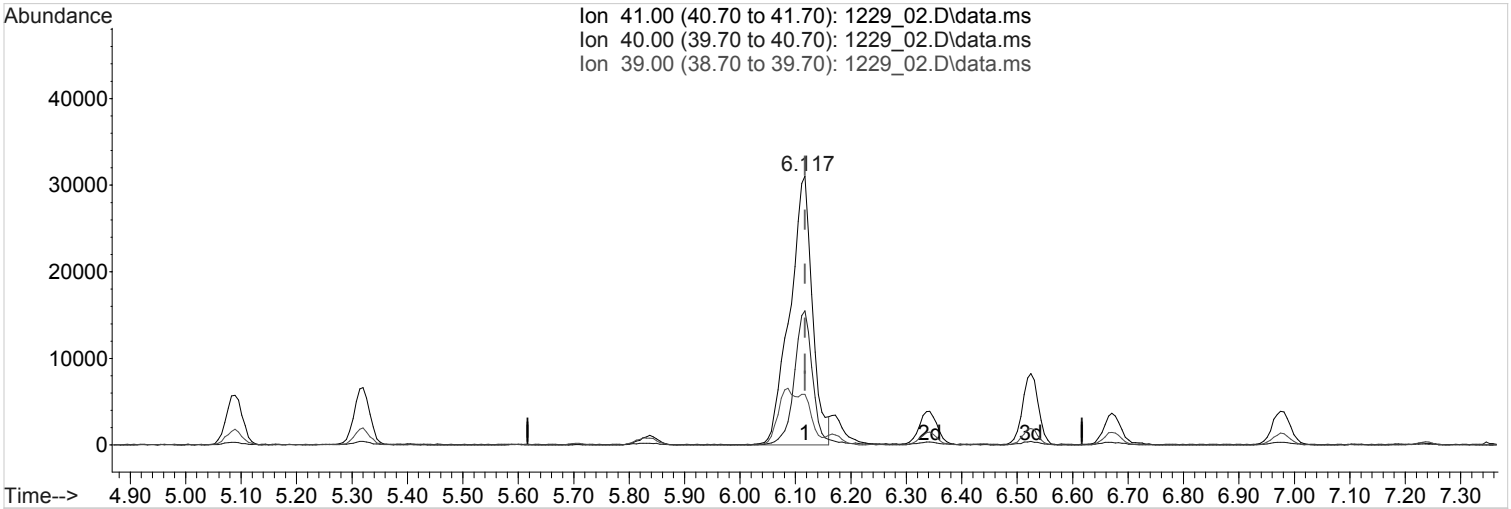
response 88269

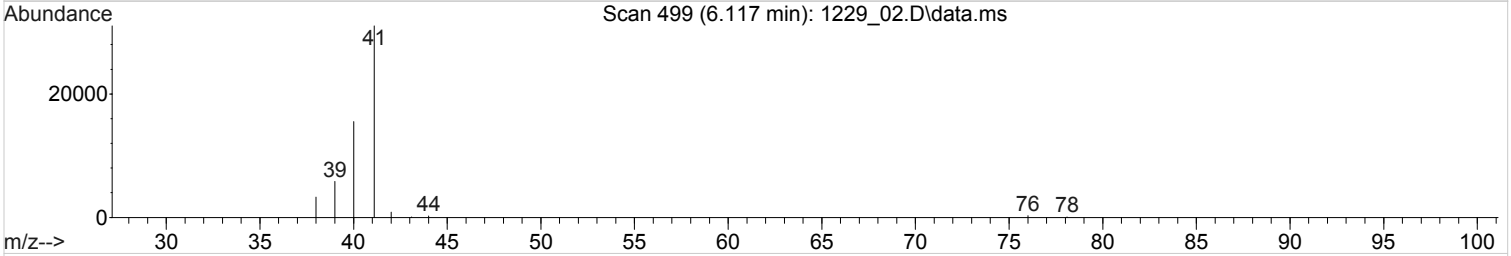
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	81.38#
0.00	0.00	0.00
0.00	0.00	0.00

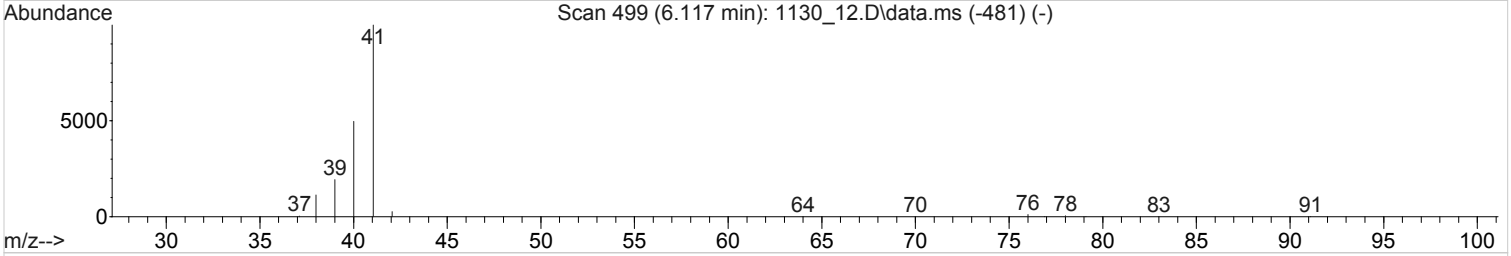
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 11:19 am
Operator :
Sample : LCS 1x WG1980247
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 11:40:47 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_02.D\data.ms

(27) ACETONITRILE (T)

6.117min (+0.000) 16.7883291 ppbv

Qvalue = 91

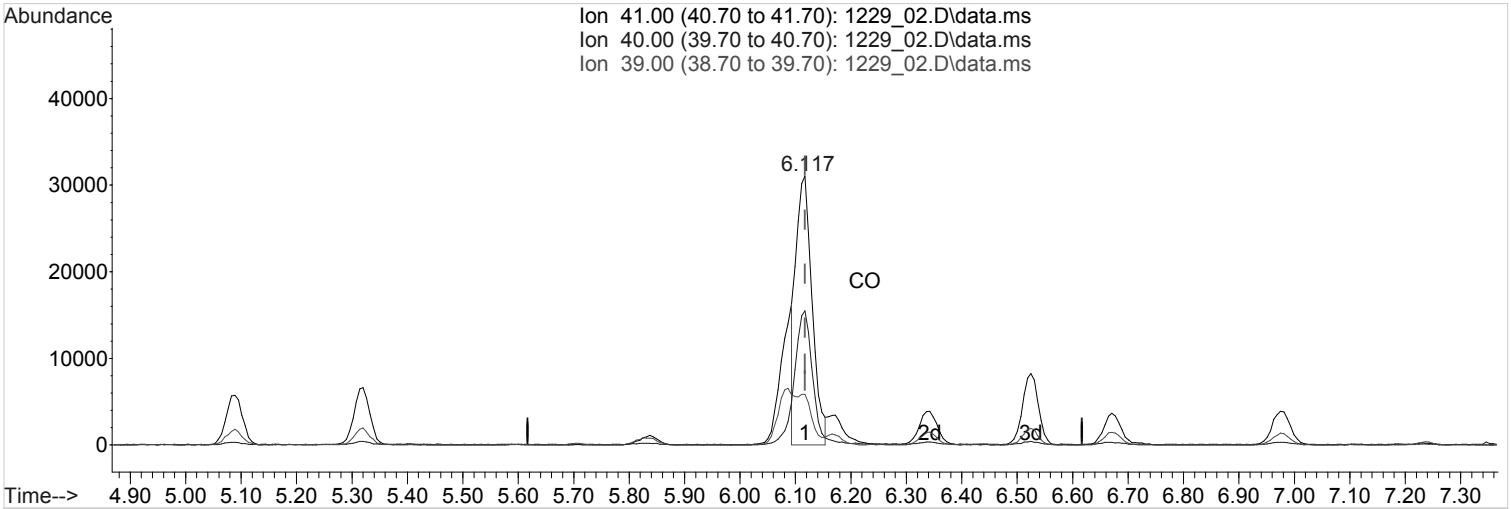
response 88269

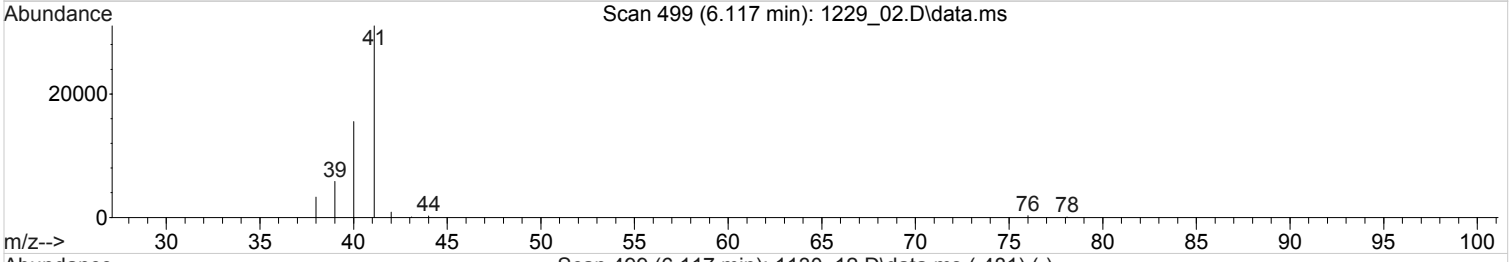
Ion	Exp%	Act%
41.00	100	100
40.00	40.90	39.99
39.00	28.40	17.69#
0.00	0.00	0.00

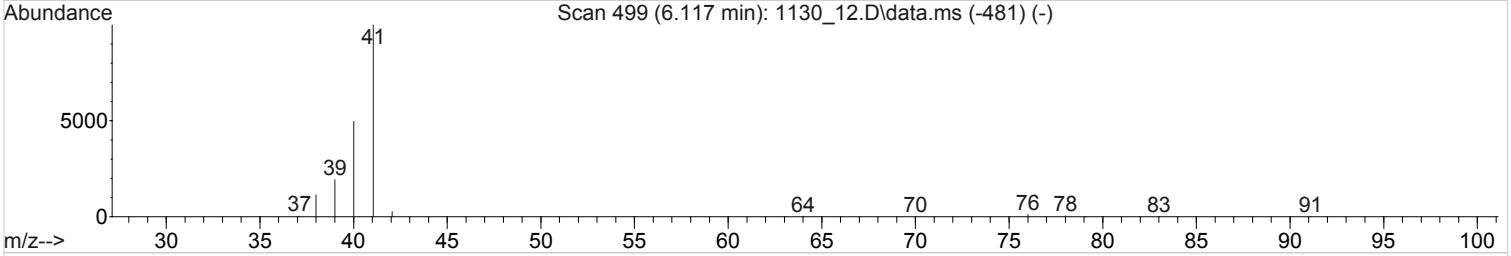
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 11:19 am
Operator :
Sample : LCS 1x WG1980247
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 11:40:47 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_02.D\data.ms

(27) ACETONITRILE (T)

6.117min (+0.000) 12.0125307 ppbv m

response 63159

Ion	Exp%	Act%
41.00	100	100
40.00	40.90	55.89#
39.00	28.40	24.72
0.00	0.00	0.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876561-2	**SDG:**	L1570570
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	1229_03	**Received Date/Time:**	
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 12:04
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 12:04
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
Acetone	67-64-1	5.82	3.06		0.584	1.20	2.40
Benzene	71-43-2	8.03	3.69		0.0715	0.150	0.300
Benzyl Chloride	100-44-7	13.81	3.80		0.0598	0.130	0.300
Bromodichloromethane	75-27-4	9.07	3.74		0.0702	0.150	0.300
Bromoform	75-25-2	12.32	4.18		0.0732	0.310	0.600
Bromomethane	74-83-9	4.99	3.81		0.0982	0.200	0.400
1,3-Butadiene	106-99-0	4.63	3.08		0.104	0.630	2.00
Carbon disulfide	75-15-0	6.06	3.33		0.102	0.250	0.500
Carbon tetrachloride	56-23-5	7.83	3.61		0.0732	0.150	0.300
Chlorobenzene	108-90-7	11.38	3.89		0.0832	0.200	0.400
Chloroethane	75-00-3	5.07	3.22		0.0996	0.200	0.400
Chloroform	67-66-3	7.50	3.45		0.0717	0.150	0.300
Chloromethane	74-87-3	4.48	3.22		0.103	0.250	0.500
Dibromochloromethane	124-48-1	10.72	3.98		0.0727	0.150	0.300
1,2-Dibromoethane	106-93-4	10.90	3.88		0.0721	0.150	0.300
1,2-Dichlorobenzene	95-50-1	14.04	4.25		0.128	0.300	0.600
1,3-Dichlorobenzene	541-73-1	13.63	4.29		0.182	0.400	0.800
1,4-Dichlorobenzene	106-46-7	13.71	4.45		0.0557	0.130	0.300
1,2-Dichloroethane	107-06-2	8.08	3.58		0.0700	0.150	0.300
1,1-Dichloroethane	75-34-3	6.79	3.41		0.0723	0.150	0.300
1,1-Dichloroethene	75-35-4	5.78	3.37		0.0762	0.200	0.400
cis-1,2-Dichloroethene	156-59-2	7.27	3.39		0.0784	0.200	0.400
trans-1,2-Dichloroethene	156-60-5	6.40	3.32		0.0673	0.150	0.300
1,2-Dichloropropane	78-87-5	8.85	3.53		0.0760	0.200	0.400
cis-1,3-Dichloropropene	10061-01-5	9.49	3.57		0.0689	0.150	0.300
trans-1,3-Dichloropropene	10061-02-6	10.05	3.53		0.0728	0.150	0.300
Ethylbenzene	100-41-4	11.40	3.84		0.0835	0.200	0.400
4-Ethyltoluene	622-96-8	12.91	3.74		0.0783	0.200	0.400
Trichlorofluoromethane	75-69-4	5.28	4.01		0.0819	0.175	0.350
Dichlorodifluoromethane	75-71-8	4.22	3.56		0.137	0.300	0.600
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	3.76		0.0793	0.200	0.400
Hexachloro-1,3-butadiene	87-68-3	15.60	4.36		0.105	0.250	0.630
Methylene Chloride	75-09-2	6.21	3.24		0.0979	0.200	0.400
Methyl Butyl Ketone	591-78-6	10.42	3.90		0.133	0.300	1.25
2-Butanone (MEK)	78-93-3	7.24	3.42		0.0814	0.190	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	9.57	3.78		0.0765	0.190	1.25
MTBE	1634-04-4	6.34	3.40		0.0647	0.130	0.300
Naphthalene	91-20-3	15.81	3.71		0.350	0.700	1.40
Styrene	100-42-5	12.02	3.85		0.0788	0.200	0.400
1,1,2,2-Tetrachloroethane	79-34-5	12.74	3.75		0.0743	0.150	0.300
Tetrachloroethylene	127-18-4	10.39	4.13		0.0814	0.200	0.400
Toluene	108-88-3	9.82	3.62		0.0870	0.250	0.500
1,2,4-Trichlorobenzene	120-82-1	15.52	4.25		0.148	0.310	0.630

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876561-2	**SDG:**	L1570570
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	1229_03	**Received Date/Time:**	
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 12:04
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 12:04
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
1,1,1-Trichloroethane	71-55-6	7.70	3.55		0.0736	0.150	0.300
1,1,2-Trichloroethane	79-00-5	10.27	3.75		0.0775	0.200	0.400
Trichloroethylene	79-01-6	8.59	3.72		0.0680	0.150	0.300
1,2,4-Trimethylbenzene	95-63-6	13.31	3.76		0.0764	0.200	0.400
1,3,5-Trimethylbenzene	108-67-8	12.95	3.78		0.0779	0.200	0.400
Vinyl chloride	75-01-4	4.60	3.46		0.0949	0.200	0.400
Vinyl acetate	108-05-4	6.72	3.15		0.116	0.250	0.500
m&p-Xylene	1330-20-7	11.53	7.51		0.135	0.300	0.600
o-Xylene	95-47-6	12	3.60		0.0828	0.175	0.350

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 12:04 pm
Operator :
Sample : LCSD 1x WG1980894
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 12:25:50 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	78775	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.307	114	284263	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	249283	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	150449	3.5371385	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 88.43%				
Target Compounds							Qvalue
2) Propene	4.182	41	12684	2.7954784	ppbv		98
3) BUTANE	4.572	43	20044	2.7729071	ppbv		98
4) 1,1-DIFLUOROETHANE	4.176	51	20168	3.2468805	ppbv		96
5) Dichlorodifluoromethane	4.219	85	47598	3.5612545	ppbv		98
6) CHLORODIFLUOROMETHANE	4.237	51	25911	3.4394750	ppbv		99
7) 1,2-Dichlorotetrafluor...	4.371	85	52062	3.5326965	ppbv		95
8) Chloromethane	4.481	50	15489	3.2237146	ppbv		99
9) Vinyl Chloride	4.602	62	16210	3.4566161	ppbv		98
10) 1,3-Butadiene	4.627	39	9601	3.0829075	ppbv		100
11) Bromomethane	4.985	94	17360	3.8059051	ppbv		98
12) Chloroethane	5.071	64	6377	3.2151779	ppbv		99
13) ISOPENTANE	5.089	43	13943	2.7925720	ppbv	#	94
14) Vinyl Bromide	5.259	106	17240	3.7388729	ppbv		99
15) Trichlorofluoromethane	5.277	101	44858	4.0093303	ppbv		98
16) PENTANE	5.320	43	25922	2.5240487	ppbv		100
17) Ethanol	5.399	45	7572	2.9942822	ppbv		98
18) ACROLEIN	5.709	56	7446	3.1719313	ppbv		96
19) 1,1,2-Trichlorotrifluo...	5.697	101	45559	3.7637954	ppbv		94
20) 1,1-Dichloroethene	5.776	61	29212	3.3708348	ppbv		95
21) Acetone	5.819	43	26434	3.0579729	ppbv		97
22) BROMOETHANE	5.959	108	19053	3.7114868	ppbv		98
23) 2-Propanol	5.837	45	29441	3.0844441	ppbv		98
24) Carbon Disulfide	6.056	76	71208	3.3290857	ppbv		97
25) Allyl Chloride	6.093	41	23999m	3.7940106	ppbv		
26) METHYL ACETATE	6.044	43	31205	3.2492107	ppbv	#	97
27) ACETONITRILE	6.111	41	87346	16.3512767	ppbv	#	90
28) Methylene Chloride	6.208	49	19324	3.2427788	ppbv		95
29) TERT-BUTYL ALCOHOL	6.166	59	37179	3.6998948	ppbv		81
30) Methyl Tert-Butyl Ether	6.342	73	46388	3.4000159	ppbv		98
31) Trans-1,2-Dichloroethene	6.403	61	28604	3.3184890	ppbv		94
32) ACRYLONITRILE	6.433	53	14477	3.2636937	ppbv		99
33) n-Hexane	6.525	57	25422	3.1663710	ppbv		98
34) 1,1-Dichloroethane	6.786	63	36183	3.4055716	ppbv		98
35) Vinyl Acetate	6.719	43	39963	3.1535723	ppbv		99
36) DI-ISOPROPYL ETHER	6.671	45	53281	3.2753198	ppbv		94
37) ETHYL TERT-BUTYL ETHER	6.975	59	58947	3.4192056	ppbv		99
38) ETHYL ACETATE	7.188	45	5651	3.1500829	ppbv		92
39) 2-Butanone (MEK)	7.236	72	9039	3.4199201	ppbv		96
40) cis-1,2-Dichloroethene	7.273	61	27814	3.3890813	ppbv		95
41) Tetrahydrofuran	7.510	42	17321	3.1441261	ppbv		97
42) Chloroform	7.504	83	39768	3.4494112	ppbv		99
43) Cyclohexane	7.723	84	21694	3.3743017	ppbv		93
44) 1,1,1-Trichloroethane	7.699	97	41559	3.5477922	ppbv		98
45) Carbon Tetrachloride	7.833	117	45107	3.6121410	ppbv		99
46) 2,2,4-Trimethylpentane	7.942	57	84853	3.2109335	ppbv		99
48) Benzene	8.033	78	59162	3.6893337	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 12:04 pm
Operator :
Sample : LCSD 1x WG1980894
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 12:25:50 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

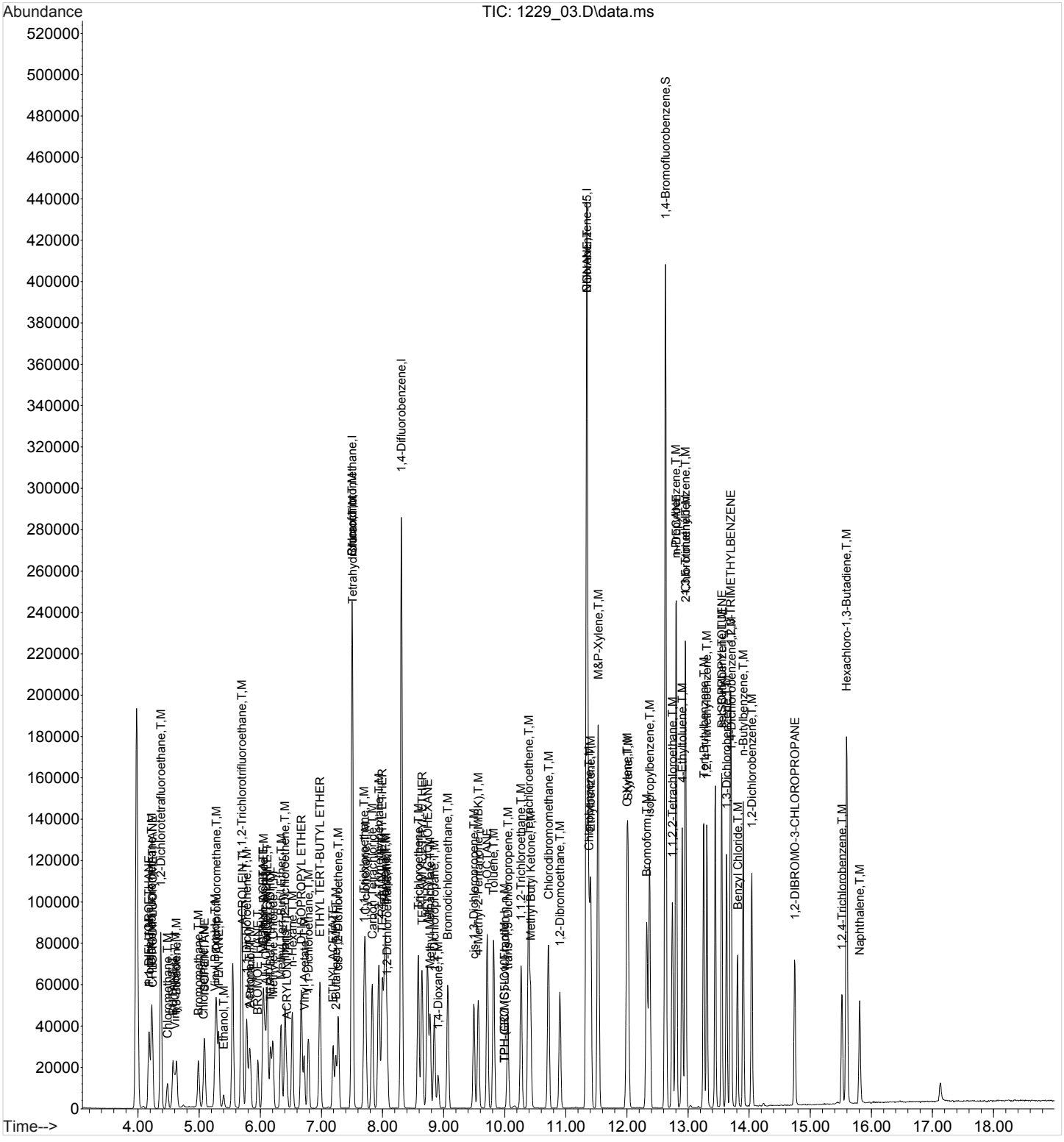
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	TERT-AMYL METHYL ETHER	7.997	73	59321	3.7586296	ppbv		97
50)	1,2-Dichloroethane	8.076	62	21243	3.5755897	ppbv		96
51)	Heptane	8.058	43	30423	3.4574178	ppbv		99
52)	Trichloroethene	8.587	95	29186	3.7225714	ppbv		93
53)	TERT-AMYL ETHYL ETHER	8.648	73	18995	3.5609249	ppbv		97
54)	METHYL CYCLOHEXANE	8.739	83	36977	3.4884483	ppbv		96
55)	1,2-Dichloropropane	8.849	63	23500	3.5286975	ppbv		98
56)	Methyl Methacrylate	8.775	41	23799	3.3659741	ppbv	#	65
57)	1,4-Dioxane	8.909	88	14319	4.2569075	ppbv		98
58)	Bromodichloromethane	9.068	83	45948	3.7377044	ppbv		99
59)	cis-1,3-Dichloropropene	9.493	75	37685	3.5681394	ppbv		95
60)	4-Methyl-2-Pentanone (...	9.566	43	43285	3.7832726	ppbv		98
61)	n-OCTANE	9.712	43	45277	3.2714575	ppbv		96
62)	Toluene	9.816	91	74424	3.6214706	ppbv		98
63)	trans-1,3-Dichloropropene	10.053	75	32624	3.5279025	ppbv		95
64)	1,1,2-Trichloroethane	10.266	97	28863	3.7526467	ppbv		98
65)	Tetrachloroethene	10.394	166	42378	4.1326185	ppbv		94
66)	Methyl Butyl Ketone	10.424	43	41066	3.8997626	ppbv		98
67)	Chlorodibromomethane	10.716	129	57224	3.9829582	ppbv		99
68)	1,2-Dibromoethane	10.905	107	48175	3.8814842	ppbv		100
69)	Chlorobenzene	11.379	112	59150	3.8942706	ppbv		94
70)	NONANE	11.349	43	48772	3.3292798	ppbv		98
72)	Ethylbenzene	11.404	91	91588	3.8372728	ppbv		99
73)	M&P-Xylene	11.531	91	140406	7.5062638	ppbv		97
74)	O-Xylene	12.000	91	71078	3.6026852	ppbv		98
77)	Styrene	12.018	104	60768	3.8481297	ppbv		96
78)	Bromoform	12.322	173	57976	4.1814901	ppbv		99
79)	Isopropylbenzene	12.371	105	99804	3.7285357	ppbv		98
80)	n-DECANE	12.809	43	42773	3.4229941	ppbv		96
81)	1,1,2,2-Tetrachloroethane	12.742	83	59733	3.7465505	ppbv		99
82)	n-Propylbenzene	12.803	91	118234	3.9167673	ppbv		97
83)	4-Ethyltoluene	12.906	105	92814	3.7442153	ppbv		99
84)	2-Chlorotoluene	12.961	126	25151	3.9672354	ppbv		90
86)	1,3,5-Trimethylbenzene	12.955	105	77136	3.7767853	ppbv		97
87)	Tert-Butylbenzene	13.259	119	72942	3.8608614	ppbv		96
88)	1,2,4-Trimethylbenzene	13.308	105	74886	3.7558509	ppbv		98
89)	sec-Butylbenzene	13.551	134	22643	3.9227340	ppbv		92
90)	1,3-Dichlorobenzene	13.630	146	52845	4.2883016	ppbv		94
91)	P-ISOPROPYLTOLUENE	13.551	119	88730	3.8265565	ppbv		98
92)	1,4-Dichlorobenzene	13.709	146	50990	4.4448915	ppbv		94
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	73497	3.7895918	ppbv		98
94)	Benzyl Chloride	13.813	91	51912	3.7963351	ppbv		97
95)	n-Butylbenzene	13.904	91	81785	3.7291919	ppbv		99
96)	1,2-Dichlorobenzene	14.044	146	51747	4.2502091	ppbv		97
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	24861	4.2160312	ppbv		94
98)	1,2,4-Trichlorobenzene	15.522	180	22356	4.2473133	ppbv		98
99)	Hexachloro-1,3-Butadiene	15.595	225	47316	4.3573939	ppbv		97
100)	Naphthalene	15.808	128	49163	3.7060251	ppbv		98
101)	TPH (GC/MS) Low Fraction	10.000	TIC	7261363m	195.9938238	ppbv		
102)	TPH-GRO (C5-C10)	10.000	TIC	8508688m	272.1302585	ppbv		

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 12:04 pm
Operator :
Sample : LCSD 1x WG1980894
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 12:25:50 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

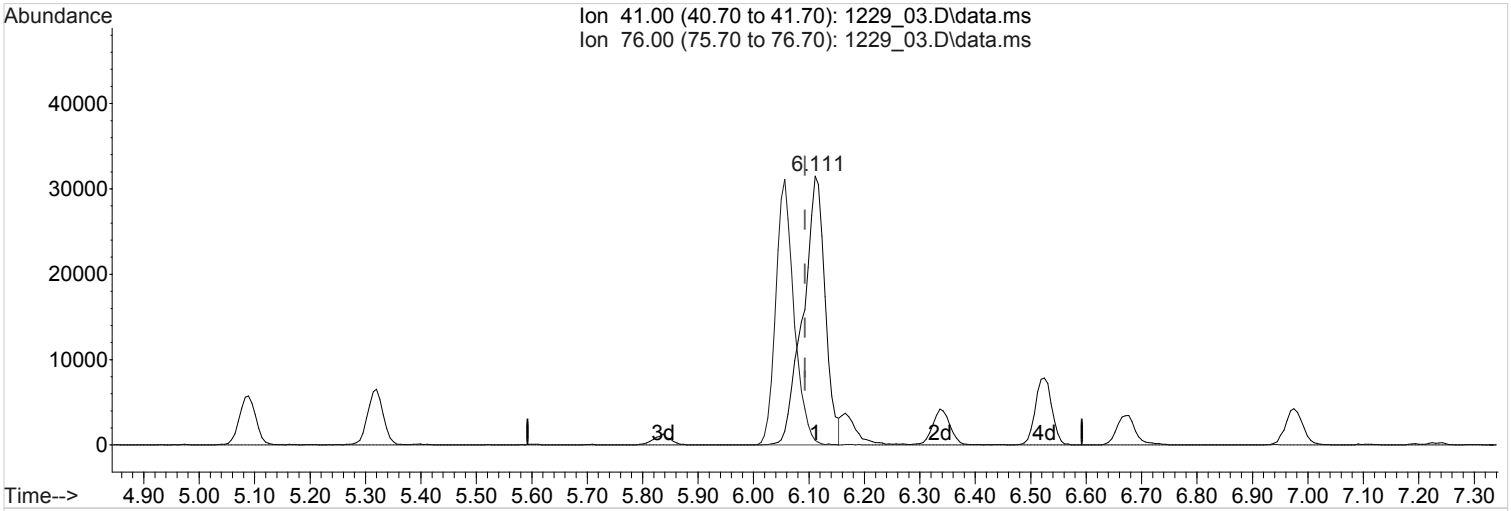


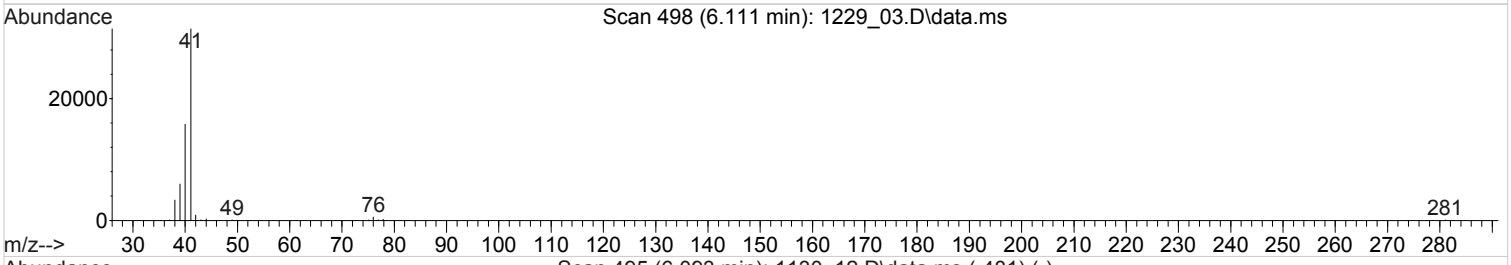
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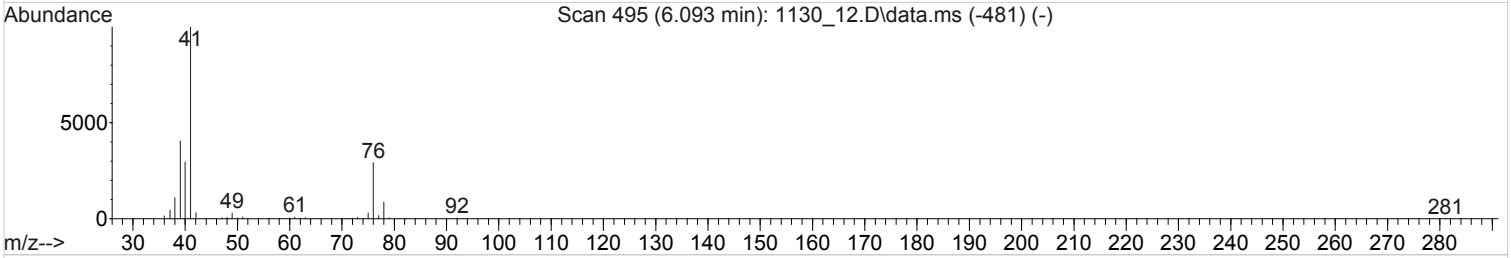
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 12:04 pm
Operator :
Sample : LCSD 1x WG1980247
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 12:25:20 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_03.D\data.ms

(25) Allyl Chloride (T,M)

6.111min (+0.018) 13.8085607 ppbv

Qvalue = 1

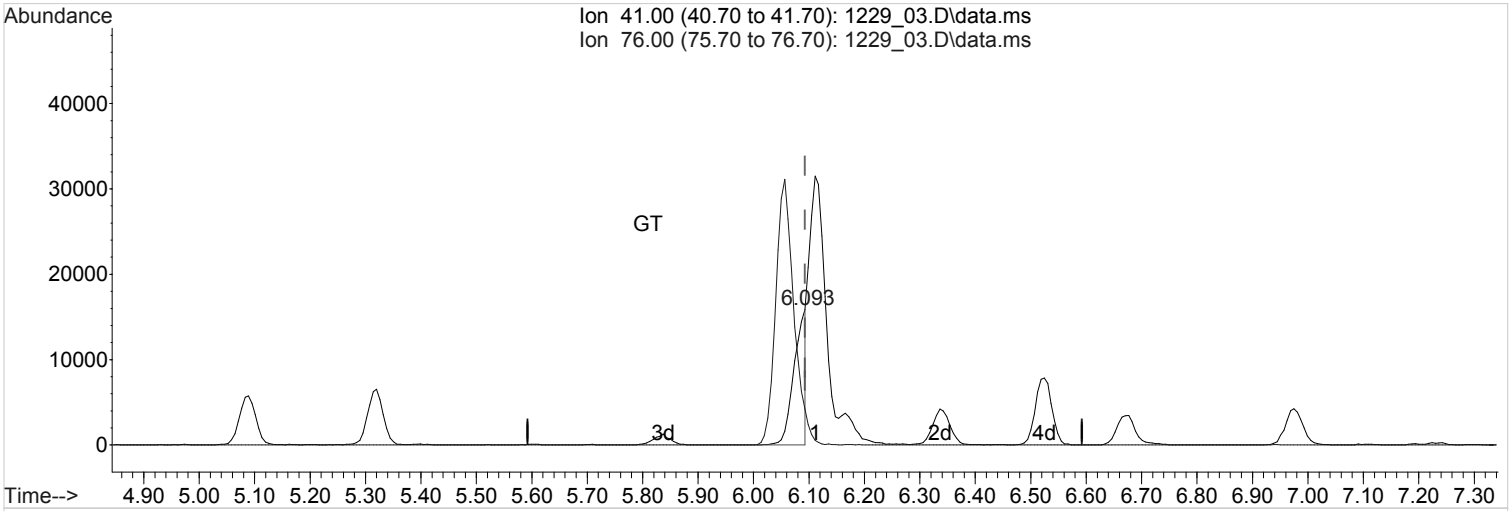
response 87346

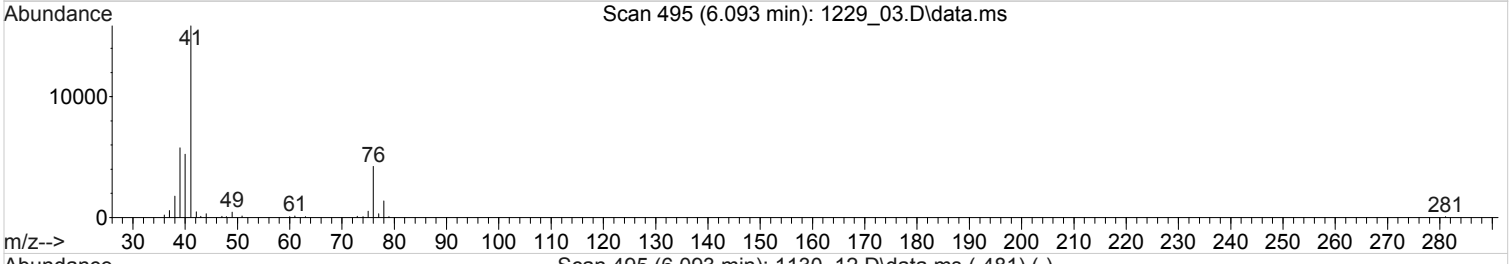
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	81.52#
0.00	0.00	0.00
0.00	0.00	0.00

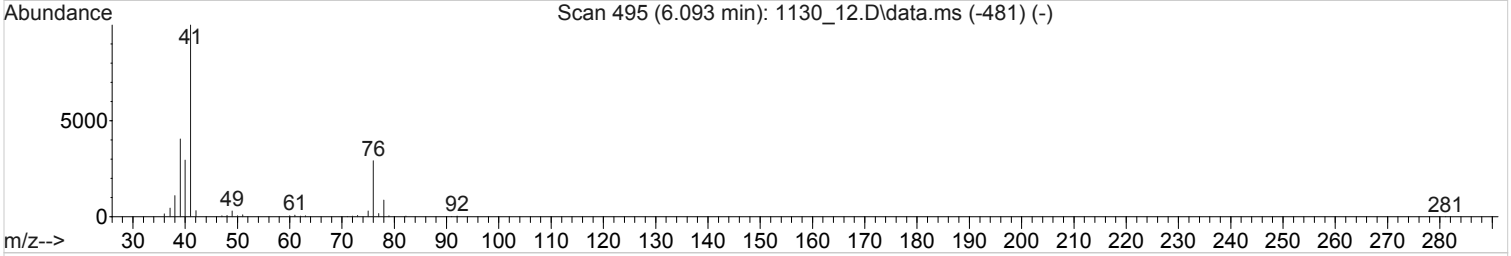
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 12:04 pm
Operator :
Sample : LCSD 1x WG1980247
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 12:25:20 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_03.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 3.7940106 ppbv m

response 23999

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	296.71
0.00	0.00	0.00
0.00	0.00	0.00

TO-15 Air VOCs Benchsheet

Batch: WG1980894

Analyst: CEP3540 **SOP:** ENV-SOP-MTJL-0104 **Method:** EPA TO-15

ICV, LCS/D Std: 22L20089 Amt. Used: 300 cc Exp. Date:05/05/23 **Internal Standard/Surrogate:** 22L20093 Amt. Used: 50 cc Exp. Date:06/12/23
High Standard: 22J25945 Amt. Used: 800 cc Exp. Date:04/25/23

Sample Number	Reference Volume (mL)	Analytical Dilution	Sample Vol Used (mL)	Prep Factor	Prep Ratio	Collection Date	Spike Factor	Surrogate Factor	Review Analyst	Review Date
BLANK	200	1	200	1	1		1	1	CEP3540	12/29/22 12:56:37
LCS	300	1	300	1	1		1	1	CEP3540	12/29/22 12:56:37
LCSD	300	1	300	1	1		1	1	CEP3540	12/29/22 12:56:37
1. L1570570-01	200	1	200	1	1	12/21/22 10:30	1	1	CEP3540	12/29/22 12:56:37
2. L1570570-02	200	1	200	1	1	12/21/22 08:15	1	1	CEP3540	12/29/22 12:56:37
3. L1570570-03	200	1	200	1	1	12/21/22 08:22	1	1	CEP3540	12/29/22 12:56:37
4. L1570570-04	200	1	200	1	1	12/21/22 08:30	1	1	CEP3540	12/29/22 12:56:37
5. L1570570-05	200	1	200	1	1	12/22/22 09:00	1	1	CEP3540	12/29/22 12:56:37
6. L1570570-06	200	1	200	1	1	12/22/22 08:45	1	1	CEP3540	12/29/22 12:56:37
7. L1570570-07	200	1	200	1	1	12/22/22 08:45	1	1	CEP3540	12/29/22 12:56:37
8. L1570570-08	200	1	200	1	1	12/22/22 08:50	1	1	CEP3540	12/29/22 12:56:37
9. L1570570-09	200	1	200	1	1	12/22/22 08:35	1	1	CEP3540	12/29/22 12:56:37
10. L1570581-01	200	1	200	1	1	12/21/22 15:05	1	1	CEP3540	12/29/22 12:56:37
11. L1570581-02	200	1	200	1	1	12/21/22 15:45	1	1	CEP3540	12/29/22 12:56:37
12. L1570581-03	200	1	200	1	1	12/21/22 15:45	1	1	CEP3540	12/29/22 12:56:37
13. L1570581-04	200	1	200	1	1	12/21/22 15:35	1	1	CEP3540	12/29/22 12:56:37
14. L1570581-05	200	1	200	1	1	12/21/22 16:00	1	1	CEP3540	12/29/22 12:56:37
15. L1570581-06	200	1	200	1	1	12/21/22 16:15	1	1	CEP3540	12/29/22 12:56:37
16. L1570581-07	200	1	200	1	1	12/21/22 16:20	1	1	CEP3540	12/29/22 12:56:37
17. L1570581-08	200	1	200	1	1	12/21/22 16:25	1	1	CEP3540	12/29/22 12:56:37
18. L1570581-09	200	1	200	1	1	12/21/22 14:55	1	1	CEP3540	12/29/22 12:56:37

Comments:

Reviewed By:CEP3540 on 12/29/22 12:56:37

TO-15-SIM Volatile Organic Compounds (MS)

SURROGATE RECOVERY

Analytical Method: TO-15-SIM **SDG:** L1570570
Matrix: Air

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1	TOT Out
				% Rec.	
774-IA-1_1222	L1570570-10	AIRMS7	1229_14	98.2	0
776-IA-1_1222	L1570570-11	AIRMS7	1229_15	114	0
BLANK	R3876557-3	AIRMS7	1229_05	93.0	0
LCS	R3876557-1	AIRMS7	1229_03	100	0
LCSD	R3876557-2	AIRMS7	1229_04	100	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	1,4-Bromofluorobenzene	60.0 - 140

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1570570-10,11

SAMPLE NO.:
R3876557-1
R3876557-2

LCS Sample / File ID:	R3876557-1 / 1229_03	**SDG:**	L1570570
LCSD Sample / File ID:	R3876557-2 / 1229_04	**Analytical Batch:**	WG1980882
Instrument ID:	AIRMS7	**Dilution Factor:**	1
Analytical Method:	TO-15-SIM	**Matrix:**	Air

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ppbv	*ppbv*	*ppbv*	*%*	*%*	*%*	*%*	*%*
Benzene	0.500	0.561	0.564	112	113	69.0 - 119	0.533	20
Carbon tetrachloride	0.500	0.489	0.472	97.8	94.4	68.0 - 132	3.54	20
1,1-Dichloroethene	0.500	0.457	0.466	91.4	93.2	61.0 - 133	1.95	20
cis-1,2-Dichloroethene	0.500	0.476	0.488	95.2	97.6	70.0 - 121	2.49	20
Tetrachloroethylene	0.500	0.481	0.480	96.2	96.0	66.0 - 124	0.208	20
1,1,1-Trichloroethane	0.500	0.474	0.476	94.8	95.2	68.0 - 125	0.421	20
Trichloroethylene	0.500	0.453	0.453	90.6	90.6	71.0 - 123	0.000	20
Vinyl chloride	0.500	0.440	0.451	88.0	90.2	64.0 - 127	2.47	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Lab Sample ID:	R3876557-3	**SDG:**	L1570570
Lab File ID:	1229_05	**Preparation Date/Time:**	12/29/22 11:49
Instrument ID:	AIRMS7	**Analysis Date/Time:**	12/29/22 11:49
Analytical Batch:	WG1980882	**Dilution Factor:**	1
Analytical Method:	TO-15-SIM	**Matrix:**	Air

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3876557-1	AIRMS7	1229_03	12/29/22 10:24
LCSD	R3876557-2	AIRMS7	1229_04	12/29/22 11:10
774-IA-1_1222	L1570570-10	AIRMS7	1229_14	12/29/22 17:57
776-IA-1_1222	L1570570-11	AIRMS7	1229_15	12/29/22 18:36

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	1222A_01	**SDG:**	L1570570
Instrument ID:	AIRMS7	**Analytical Method:**	TO-15-SIM
Analysis Date/Time:	12/22/22 16:43		

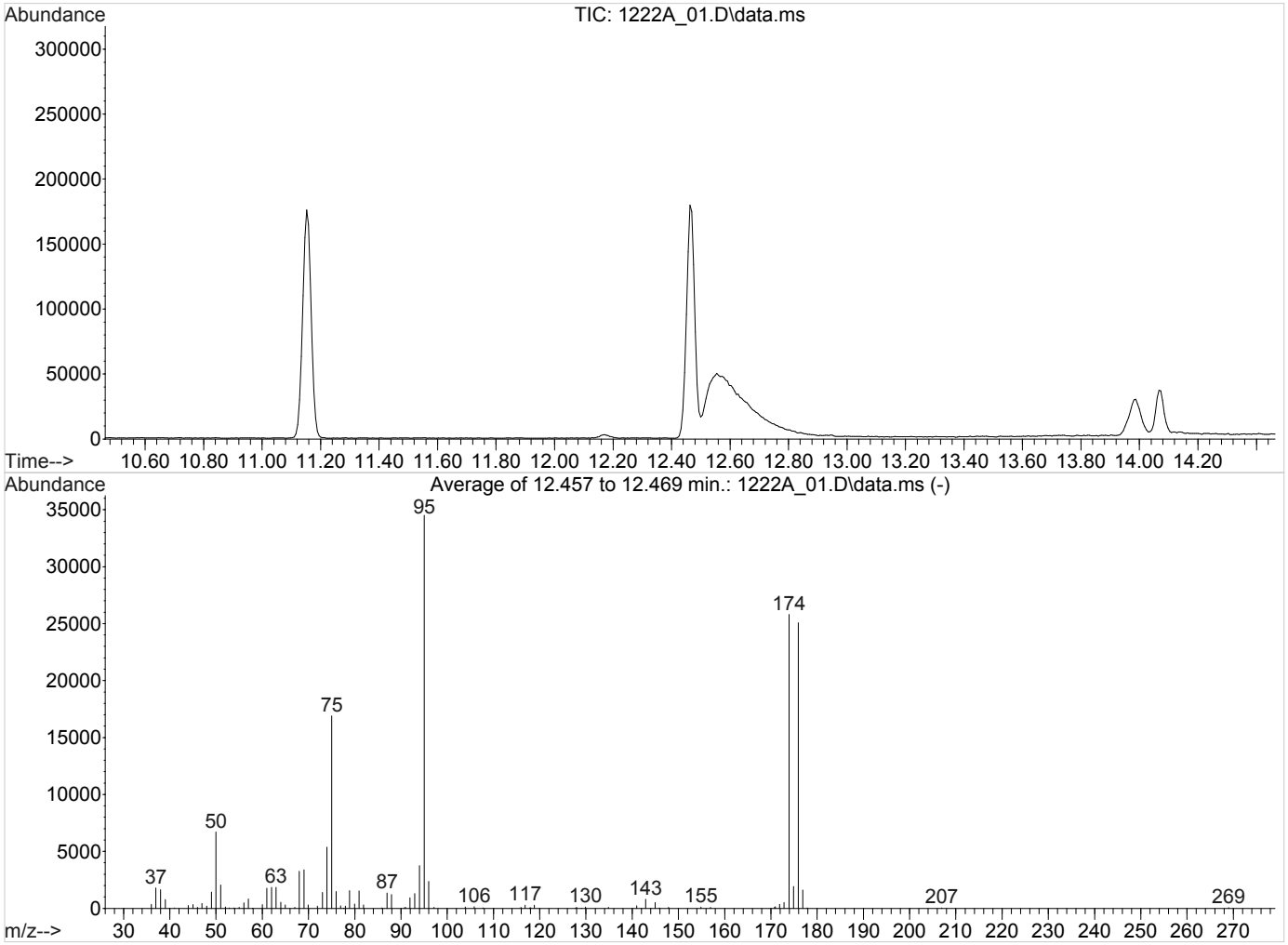
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	20
75	95	30	66	49
95	95	100	100	100
96	95	5	9	7
173	174	0	2	2
174	95	50	120	75
175	174	4	9	7
176	174	93	101	97
177	176	5	9	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-0.02	0.02	1222A_04	12/22/22 18:41
STD-0.03	0.03	1222A_05	12/22/22 19:20
STD-0.06	0.06	1222A_06	12/22/22 19:58
STD-0.13	0.13	1222A_07	12/22/22 20:35
STD-0.25	0.25	1222A_08	12/22/22 21:15
STD-0.38	0.38	1222A_09	12/22/22 21:55
STD-0.5	0.5	1222A_10	12/22/22 22:37
STD-1.0	1.0	1222A_11	12/22/22 23:14
STD-5.0	5.0	1222A_12	12/22/22 23:56
STD-10.0	10.0	1222A_13	12/23/22 00:43
SSCV	AIRMS7122222A1222A_15609226	1222A_15	12/23/22 01:59

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_01.D
Acq On : 22 Dec 2022 4:43 pm
Operator :
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\TOSIMMS7L14AV.M
Title : AIRMS5
Last Update : Thu Dec 15 08:32:34 2022



Spectrum Information: Average of 12.457 to 12.469 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.5	6717	PASS
75	95	30	66	49.0	16902	PASS
95	95	100	100	100.0	34523	PASS
96	95	5	9	6.8	2354	PASS
173	174	0.00	2	2.0	511	PASS
174	95	50	120	74.7	25803	PASS
175	174	4	9	7.4	1912	PASS
176	174	93	101	97.2	25077	PASS
177	176	5	9	6.4	1606	PASS

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	1229_02T	**SDG:**	L1570570
Instrument ID:	AIRMS7	**Analytical Method:**	TO-15-SIM
Analysis Date/Time:	12/29/22 09:38		

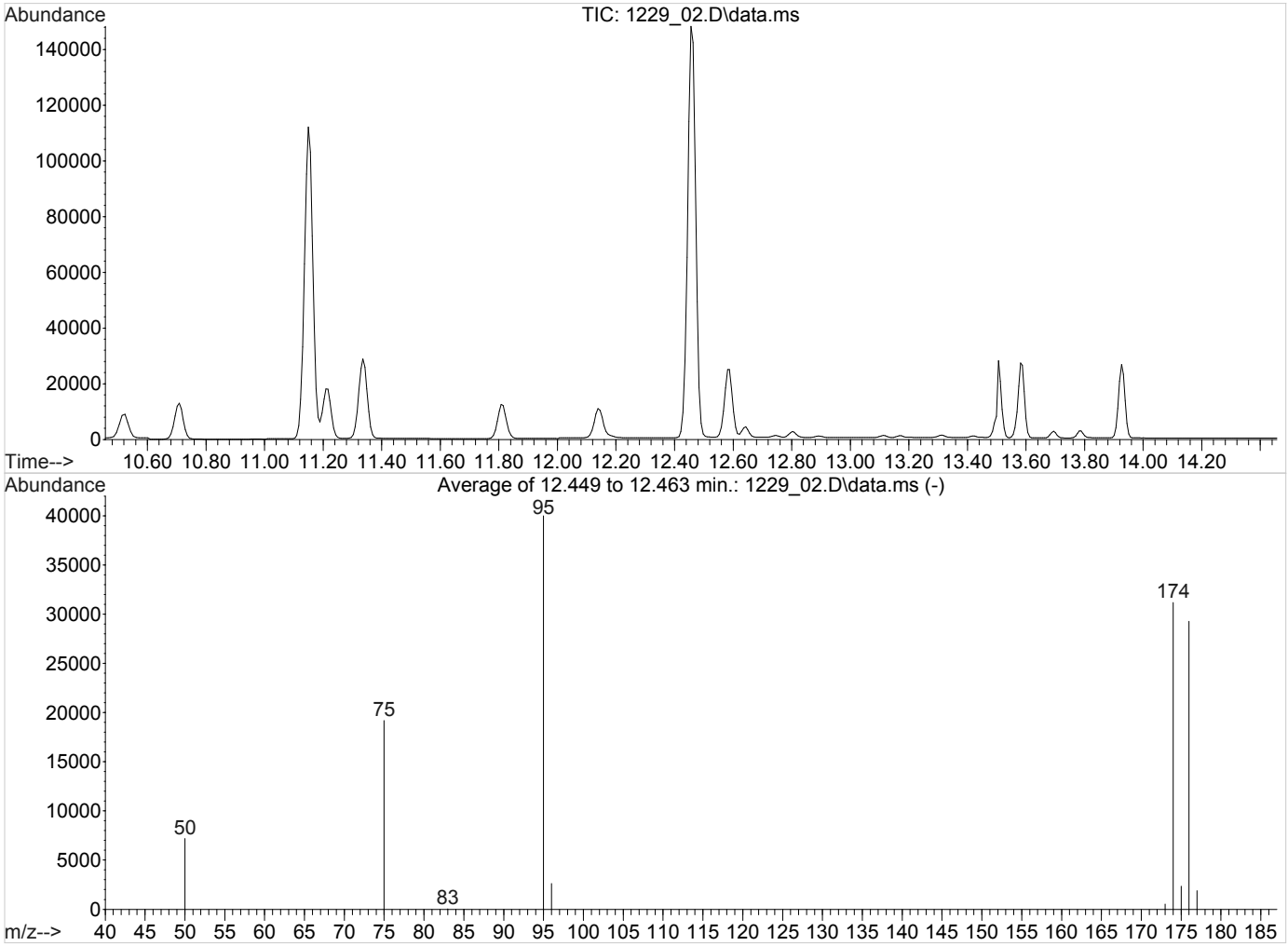
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	18
75	95	30	66	48
95	95	100	100	100
96	95	5	9	7
173	174	0	2	2
174	95	50	120	78
175	174	4	9	8
176	174	93	101	94
177	176	5	9	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	AIRMS71229221229_02609226	1229_02	12/29/22 09:38
LCS	R3876557-1	1229_03	12/29/22 10:24
LCSD	R3876557-2	1229_04	12/29/22 11:10
BLANK	R3876557-3	1229_05	12/29/22 11:49
774-IA-1_1222	L1570570-10	1229_14	12/29/22 17:57
776-IA-1_1222	L1570570-11	1229_15	12/29/22 18:36
CCV	AIRMS71229221229_26609226	1229_26	12/30/22 01:58

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 9:38 am
Operator :
Sample : ICV AMS 0.5 ppbv
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
Title : AIRMS5
Last Update : Fri Dec 23 09:26:44 2022



Spectrum Information: Average of 12.449 to 12.463 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.0	7206	PASS
75	95	30	66	48.0	19197	PASS
95	95	100	100	100.0	40010	PASS
96	95	5	9	6.6	2636	PASS
173	174	0.00	2	1.7	542	PASS
174	95	50	120	78.0	31196	PASS
175	174	4	9	7.5	2336	PASS
176	174	93	101	93.8	29263	PASS
177	176	5	9	6.5	1906	PASS

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1570570	**Analytical Method:**	TO-15-SIM
Instrument ID:	AIRMS7	**Calibration Start Date:**	12/22/22 18:41
Std File:	1229_02	**Calibration End Date:**	12/23/22 00:43
		Std Analysis Date:	12/29/22 09:38

Sample ID	File ID	DFB		BCM		CB	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		135009	8.09	38192	7.28	126424	11.15
UPPER LIMIT		192014		53869		181996	
LOWER LIMIT		82292		23087		77998	
LCS R3876557-1 WG1980882 1x	1229_03	137863	8.09	38329	7.28	127508	11.15
LCSD R3876557-2 WG1980882 1x	1229_04	137133	8.09	38176	7.28	128561	11.15
BLANK R3876557-3 WG1980882 1x	1229_05	108902	8.09	33241	7.28	98225	11.16
L1570570-10 WG1980882 1x	1229_14	113083	8.09	33645	7.27	104040	11.15
L1570570-11 WG1980882 1x	1229_15	115214	8.09	33812	7.27	105348	11.15

DFB - 1,4-DIFLUOROBENZENE BCM - BROMOCHLOROMETHANE
CB - CHLOROBENZENE-D5

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570570-10	**SDG:**	L1570570
Client Sample ID:	774-IA-1_1222	**Collected Date/Time:**	12/02/22 08:20
Lab File ID:	1229_14	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS7	**Preparation Date/Time:**	12/29/22 17:57
Analytical Batch:	WG1980882	**Analysis Date/Time:**	12/29/22 17:57
Dilution Factor:	1	**Prep Method:**	TO-15-SIM
Analytical Method:	TO-15-SIM	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Benzene	71-43-2	7.80	0.434		0.0358	0.0799	0.160
Carbon tetrachloride	56-23-5	7.59	0.503		0.0627	0.126	0.252
1,1-Dichloroethene	75-35-4	0	0.0753	U	0.0365	0.0753	0.159
cis-1,2-Dichloroethene	156-59-2	0	0.119	U	0.0563	0.119	0.238
Tetrachloroethylene	127-18-4	10.19	1.20		0.0862	0.204	0.407
1,1,1-Trichloroethane	71-55-6	0	0.103	U	0.0353	0.103	0.218
Trichloroethylene	79-01-6	8.36	0.225		0.0400	0.102	0.214
Vinyl chloride	75-01-4	0	0.0486	U	0.0196	0.0486	0.102

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_14.D
Acq On : 29 Dec 2022 5:57 pm
Operator :
Sample : L1570570-10 1x WG1980882
Misc :
ALS Vial : 14 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:26:40 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

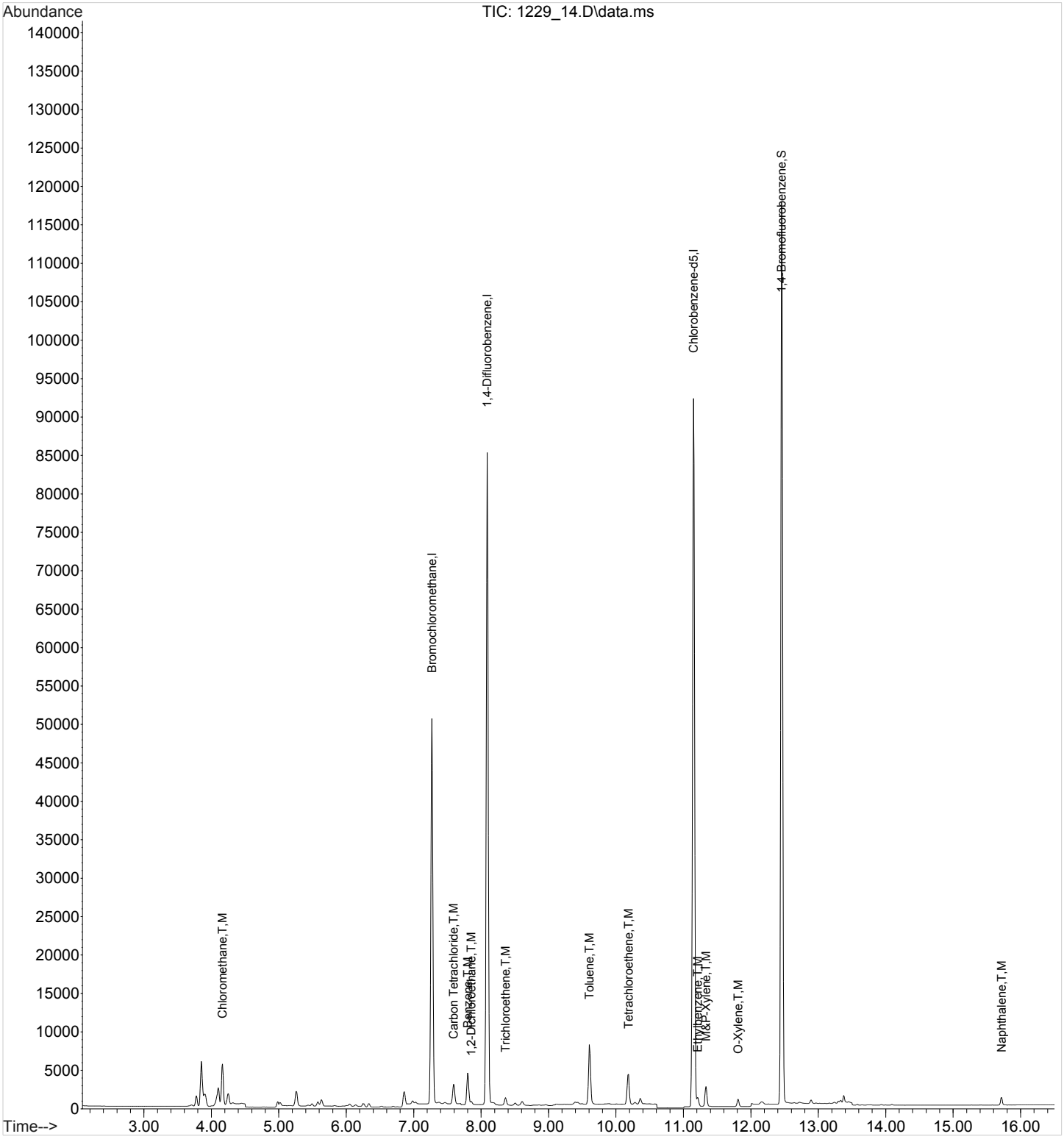
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.269	130	33645	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	113083	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	104040	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	66442	1.2272661	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 98.18%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	7926	0.5179518	ppbv	98
3) Vinyl Chloride	0.000		0	N.D.		
4) 1,3-Butadiene	0.000		0	N.D. d		
5) Chloroethane	0.000		0	N.D.		
6) 1,1-Dichloroethene	0.000		0	N.D. d		
7) Methyl Tert-Butyl Ether	0.000		0	N.D.		
8) Trans-1,2-Dichloroethene	0.000		0	N.D.		
9) 1,1-Dichloroethane	0.000		0	N.D.		
10) Vinyl Acetate	0.000		0	N.D. d		
11) cis-1,2-Dichloroethene	0.000		0	N.D.		
12) Chloroform	0.000		0	N.D. d		
13) 1,1,1-Trichloroethane	0.000		0	N.D.		
14) Carbon Tetrachloride	7.592	117	2433	0.0797488	ppbv #	82
15) 1,2-Dichloroethane	7.853	62	424	0.0191294	ppbv #	47
17) Benzene	7.801	78	6454	0.1356874	ppbv	94
18) Trichloroethene	8.362	95	767m	0.0419721	ppbv	
19) 1,2-Dichloropropane	0.000		0	N.D.		
20) Bromodichloromethane	0.000		0	N.D.		
21) cis-1,3-Dichloropropene	0.000		0	N.D.		
22) Toluene	9.606	91	9487	0.2284965	ppbv	100
23) trans-1,3-Dichloropropene	0.000		0	N.D.		
24) 1,1,2-Trichloroethane	0.000		0	N.D.		
25) Tetrachloroethene	10.185	166	3621	0.1769387	ppbv	99
26) 1,2-Dibromoethane	0.000		0	N.D.		
28) Ethylbenzene	11.209	91	1556	0.0335940	ppbv	99
29) M&P-Xylene	11.336	91	3465	0.1032815	ppbv	99
30) O-Xylene	11.808	91	1327	0.0433770	ppbv	97
31) 1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
33) 1,4-Dichlorobenzene	0.000		0	N.D.		
34) Naphthalene	15.718	128	1480	0.0371269	ppbv #	76

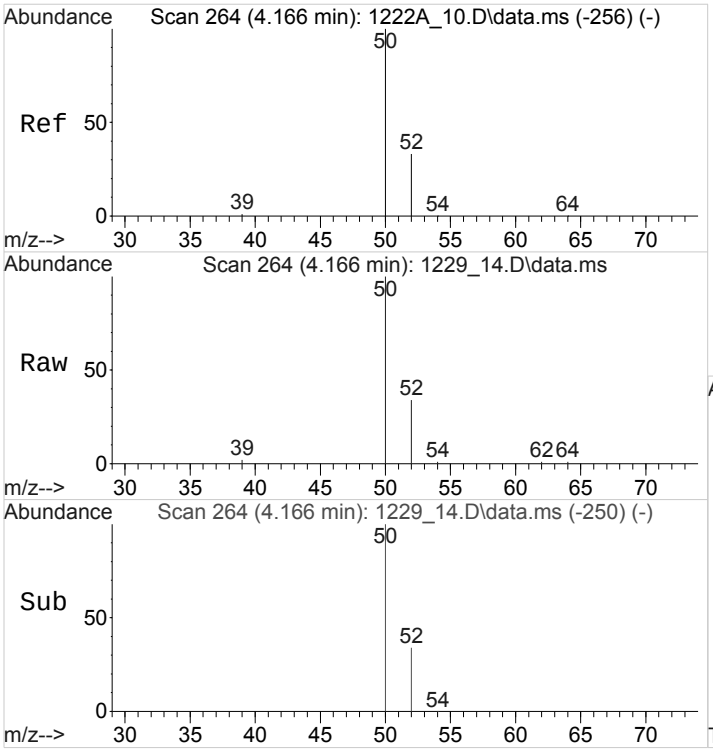
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_14.D
Acq On : 29 Dec 2022 5:57 pm
Operator :
Sample : L1570570-10 1x WG1980882
Misc :
ALS Vial : 14 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:26:40 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

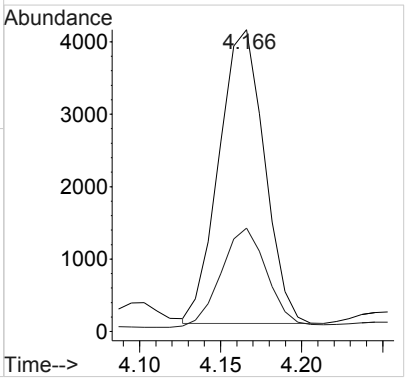


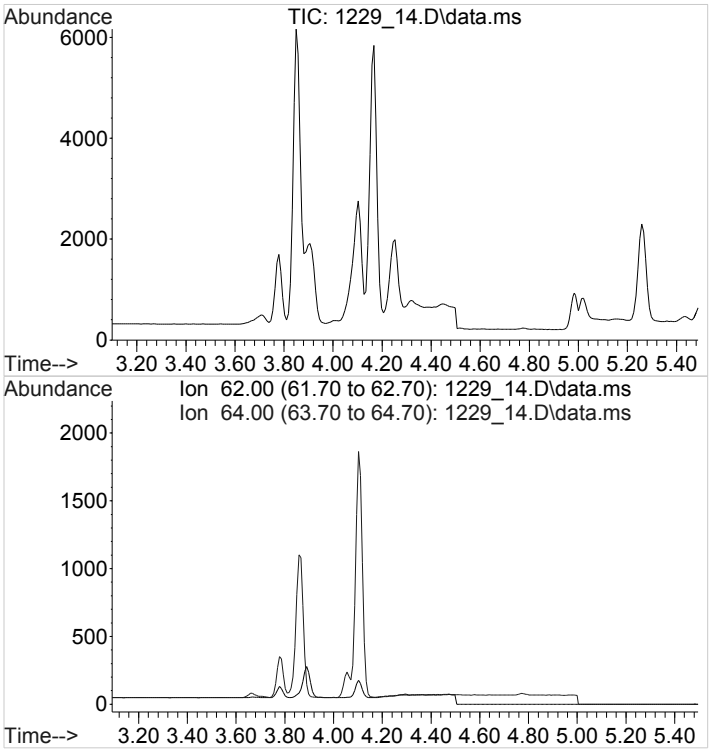


#2
Chloromethane
Concen: 0.5179518 ppbv
RT: 4.166 min Scan# 264
Delta R.T. -0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 50 Resp: 7926

Ion	Ratio	Lower	Upper
50	100		
52	34.4	26.6	40.0



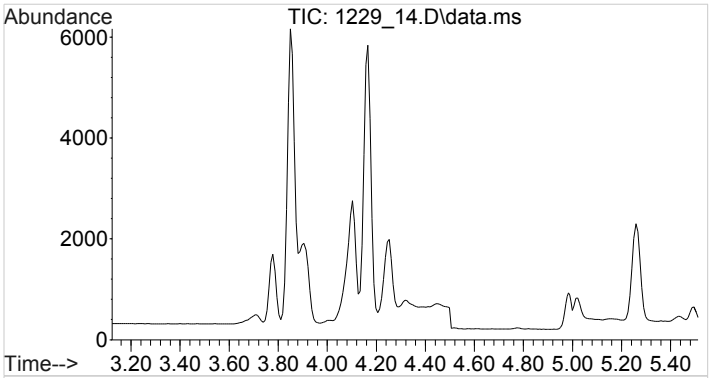


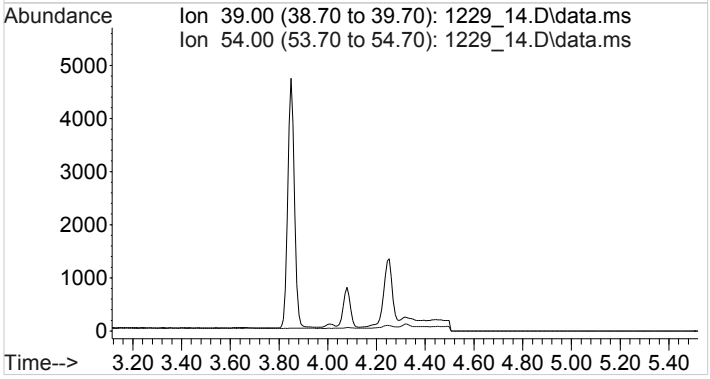
#3
Vinyl Chloride
Concen: N.D.
Expected RT: 4.29 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 62

Sig	Exp Ratio
62	100
64	33.3



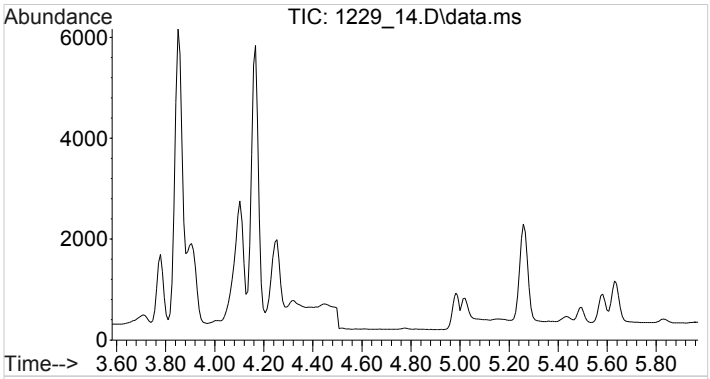


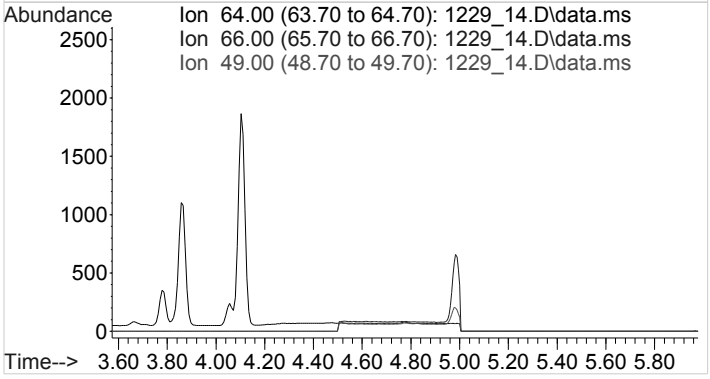
#4
1,3-Butadiene
Concen: N.D.
Expected RT: 4.32 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 39

Sig	Exp Ratio
39	100
54	90.3



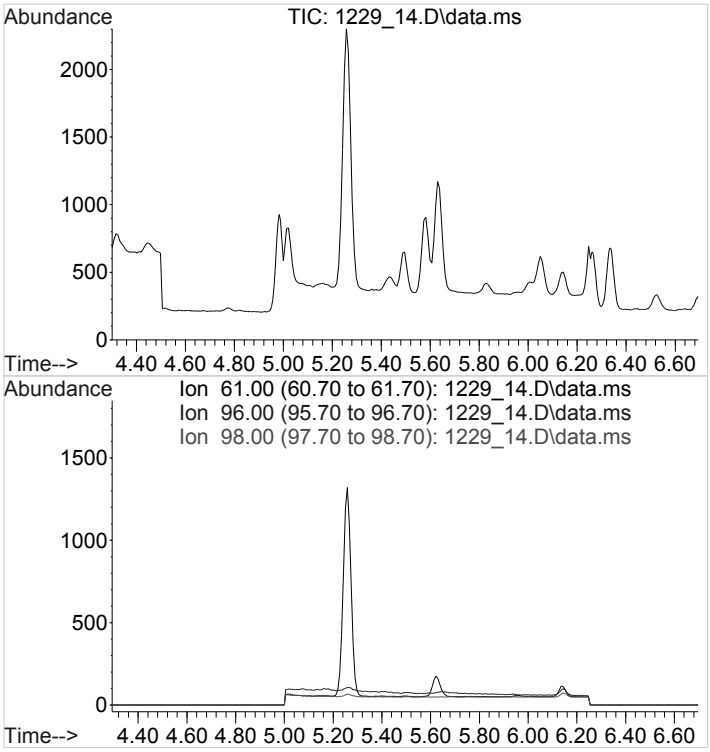


#5
Chloroethane
Concen: N.D.
Expected RT: 4.77 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 64

Sig	Exp Ratio
64	100
66	32.2
49	33.8

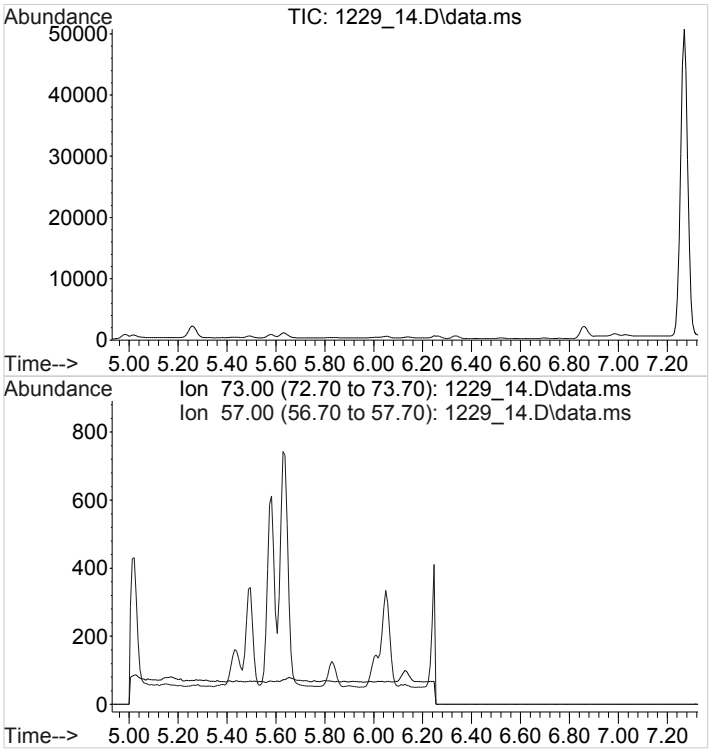


#6
1,1-Dichloroethene
Concen: N.D.
Expected RT: 5.50 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 61

Sig	Exp Ratio
61	100
96	54.0
98	34.4



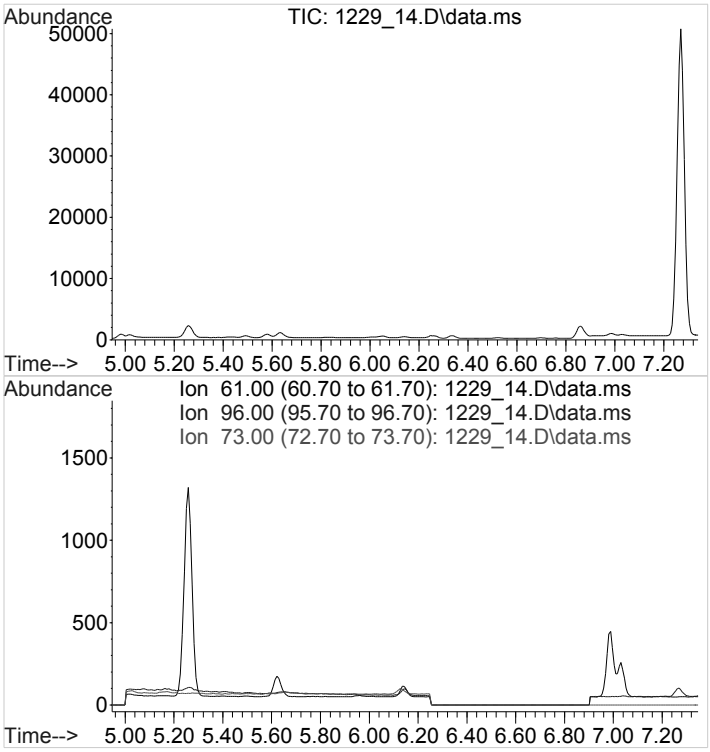
#7
Methyl Tert-Butyl Ether
Concen: N.D.
Expected RT: 6.13 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 73

Sig	Exp Ratio
73	100
57	27.3

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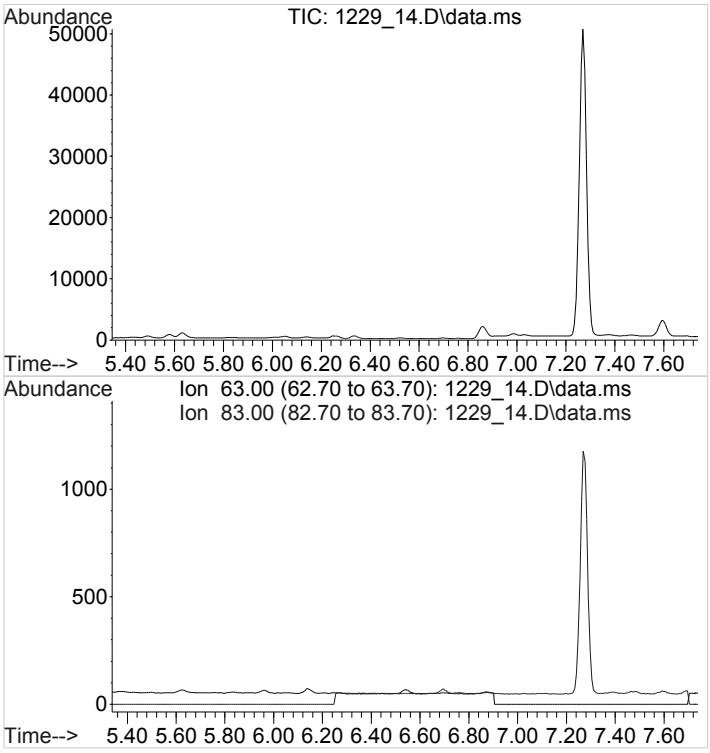


#8
Trans-1,2-Dichloroethene
Concen: N.D.
Expected RT: 6.14 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 61

Sig	Exp Ratio
61	100
96	60.7
73	124.3

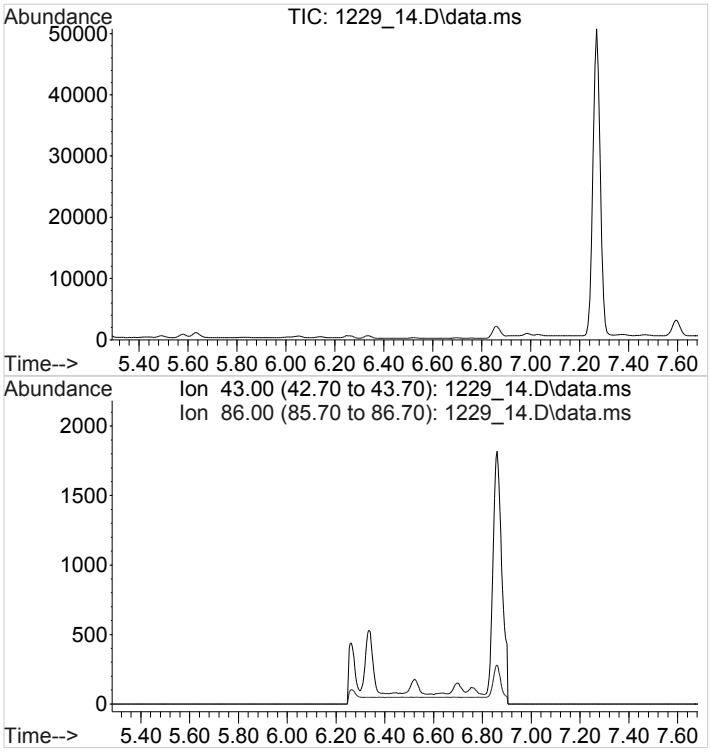


#9
1,1-Dichloroethane
Concen: N.D.
Expected RT: 6.54 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
83	11.9

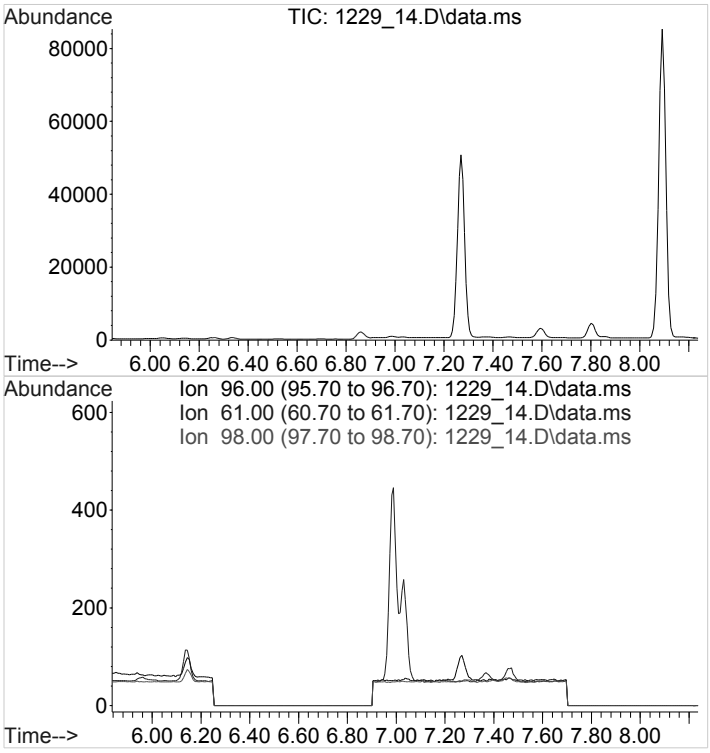


#10
Vinyl Acetate
Concen: N.D.
Expected RT: 6.48 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 43

Sig	Exp Ratio
43	100
86	4.0

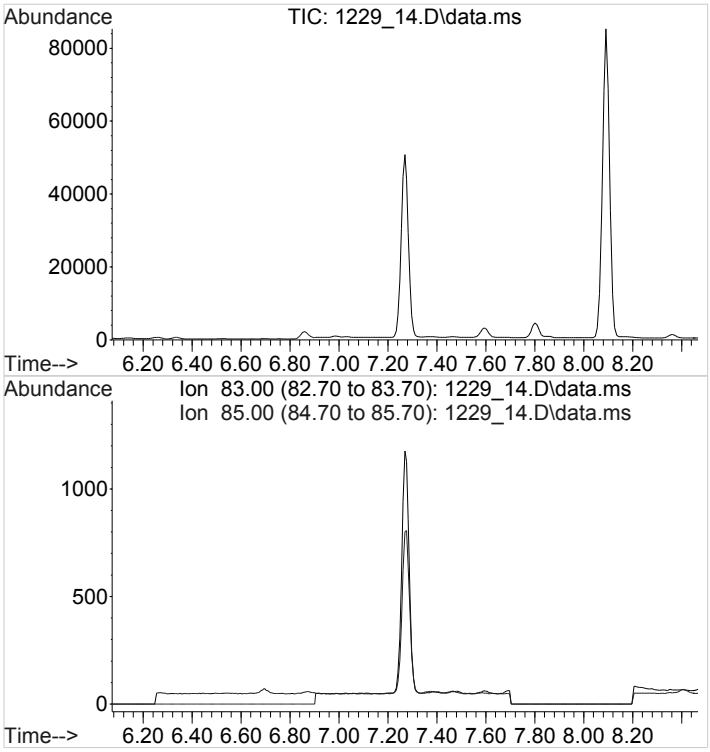


#11
cis-1,2-Dichloroethene
Concen: N.D.
Expected RT: 7.04 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 96

Sig	Exp Ratio
96	100
61	153.8
98	64.1

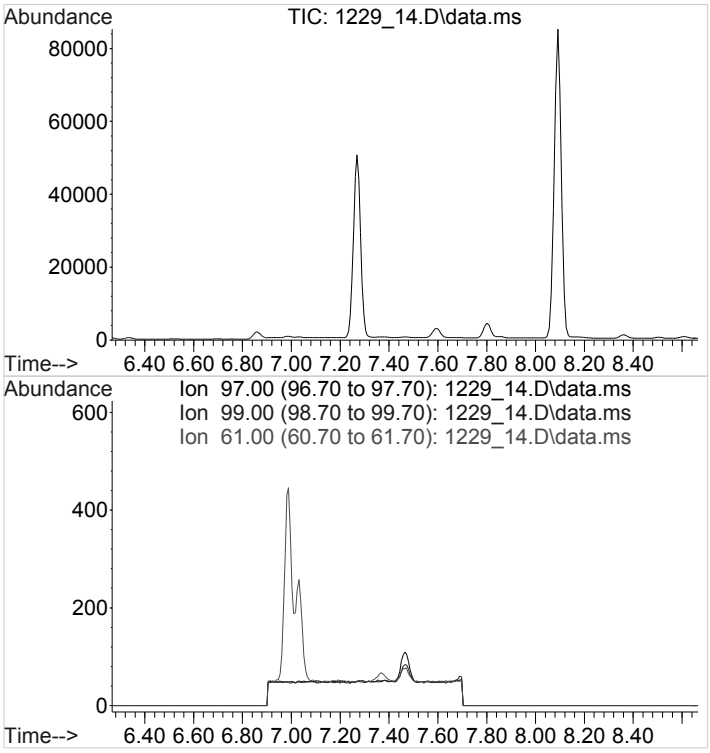


#12
Chloroform
Concen: N.D.
Expected RT: 7.27 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	64.1

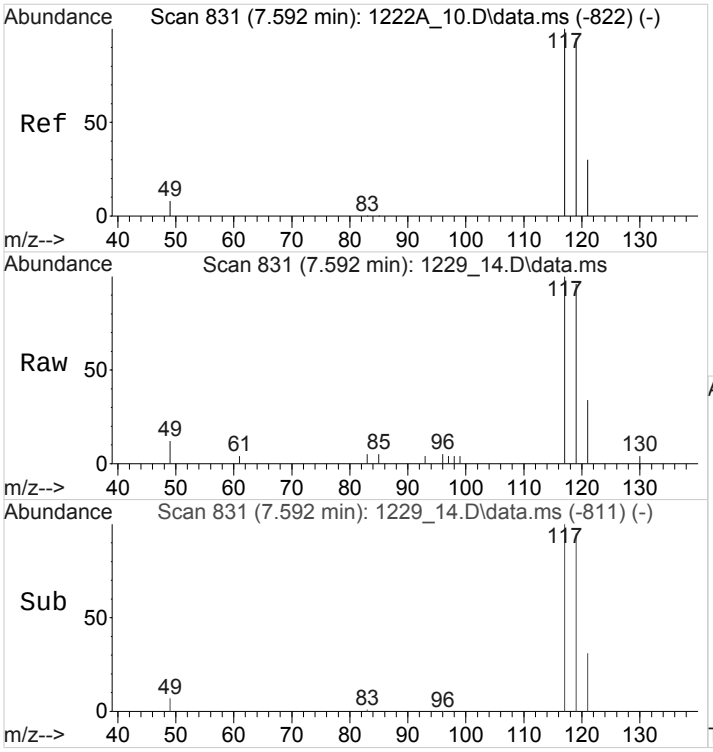


#13
1,1,1-Trichloroethane
Concen: N.D.
Expected RT: 7.47 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 97

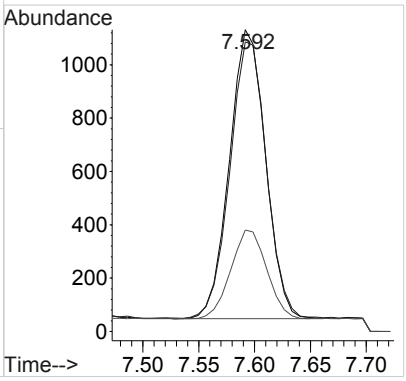
Sig	Exp Ratio
97	100
99	63.8
61	50.4

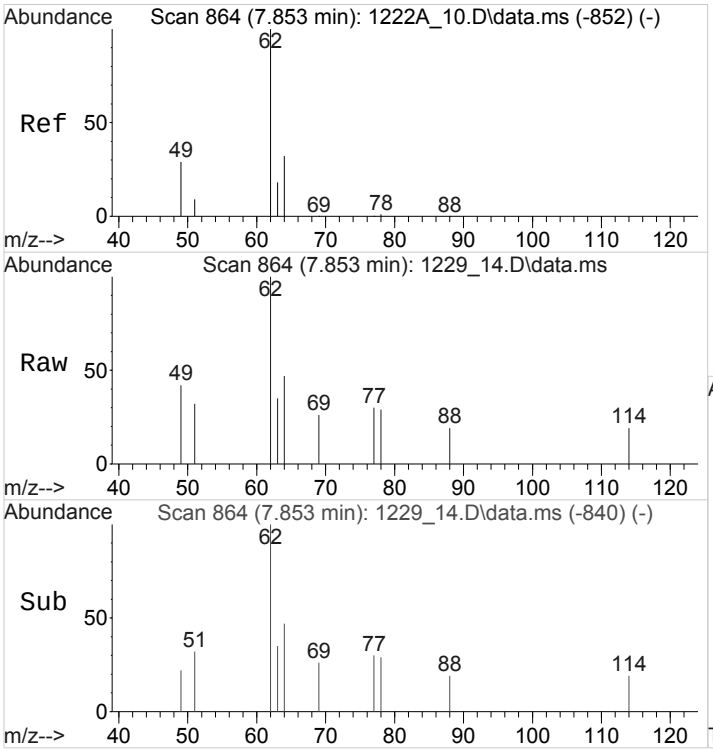


#14
Carbon Tetrachloride
Concen: 0.0797488 ppbv
RT: 7.592 min Scan# 831
Delta R.T. -0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion:117 Resp: 2433

Ion	Ratio	Lower	Upper
117	100		
119	118.2	76.7	115.1#
121	30.6	27.0	40.4

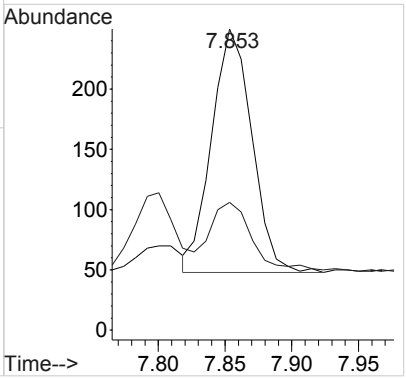


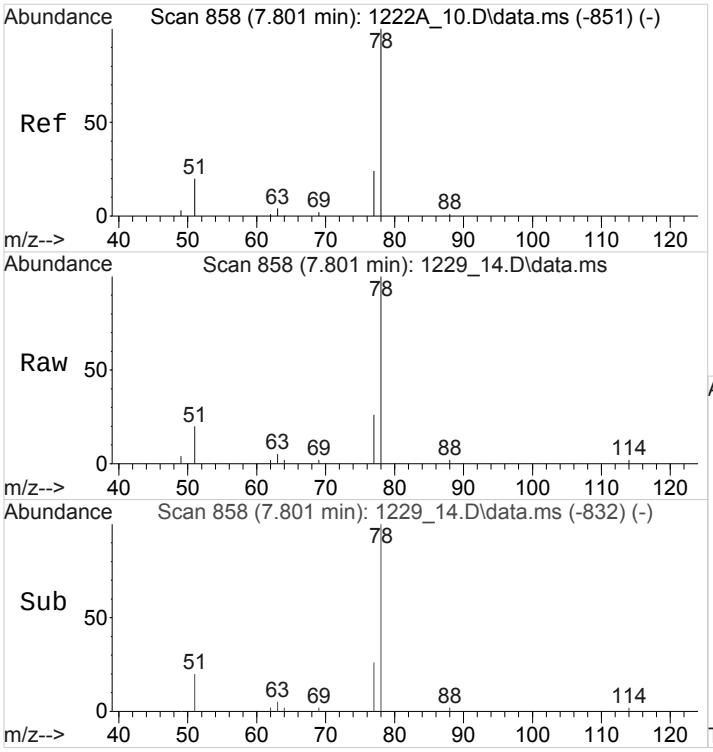


#15
1,2-Dichloroethane
Concen: 0.0191294 ppbv
RT: 7.853 min Scan# 864
Delta R.T. -0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 62 Resp: 424

Ion	Ratio	Lower	Upper
62	100		
49	0.0	22.4	33.6#

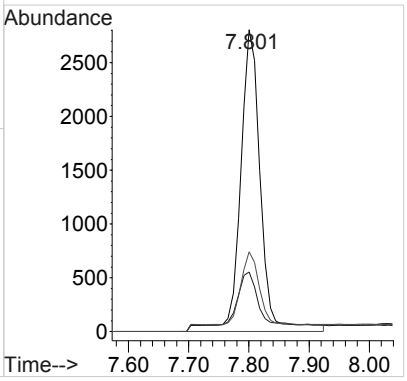


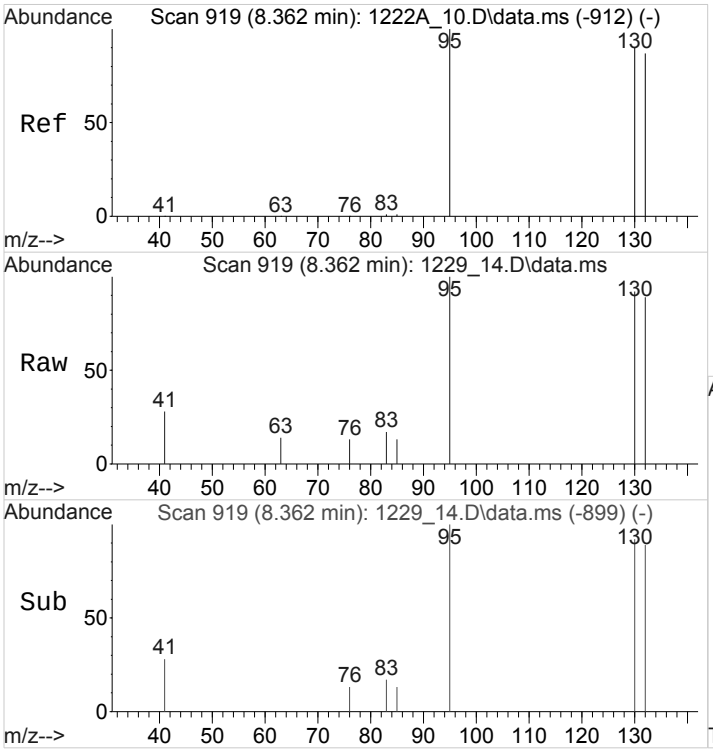


#17
Benzene
Concen: 0.1356874 ppbv
RT: 7.801 min Scan# 858
Delta R.T. -0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 78 Resp: 6454

Ion	Ratio	Lower	Upper
78	100		
51	19.1	17.5	26.3
77	21.8	20.2	30.4

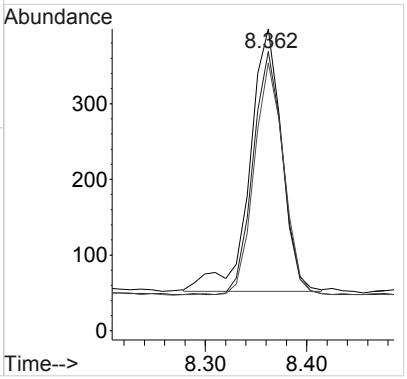




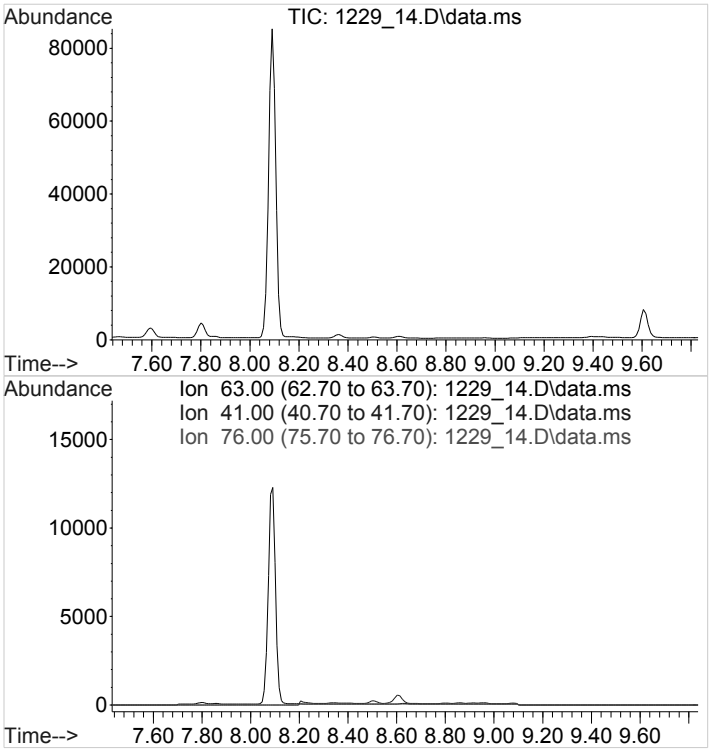
#18
Trichloroethene
Concen: 0.0419721 ppbv m
RT: 8.362 min Scan# 919
Delta R.T. -0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 95 Resp: 767

Ion	Ratio	Lower	Upper
95	100		
130	96.6	73.0	109.4
132	95.6	69.8	104.8



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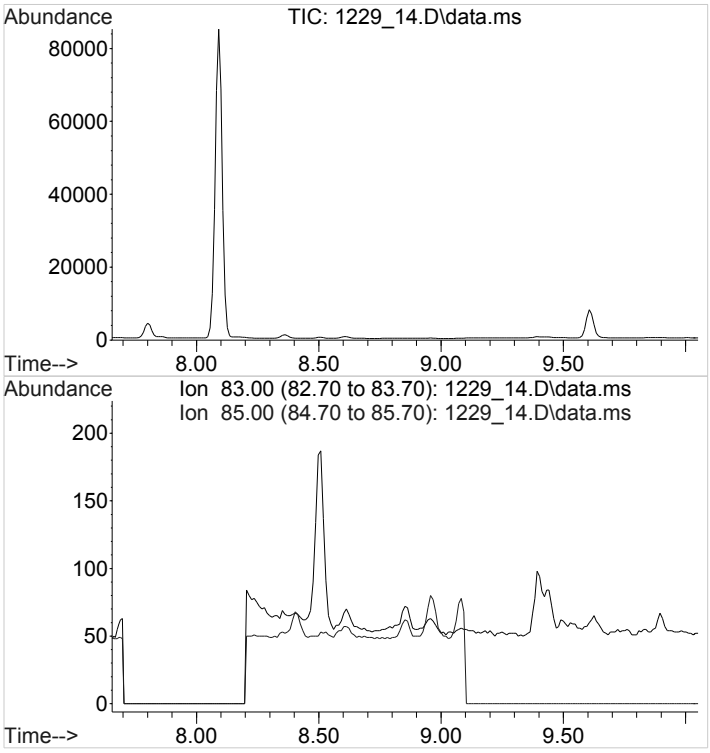


#19
1,2-Dichloropropane
Concen: N.D.
Expected RT: 8.63 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
41	52.4
76	34.1



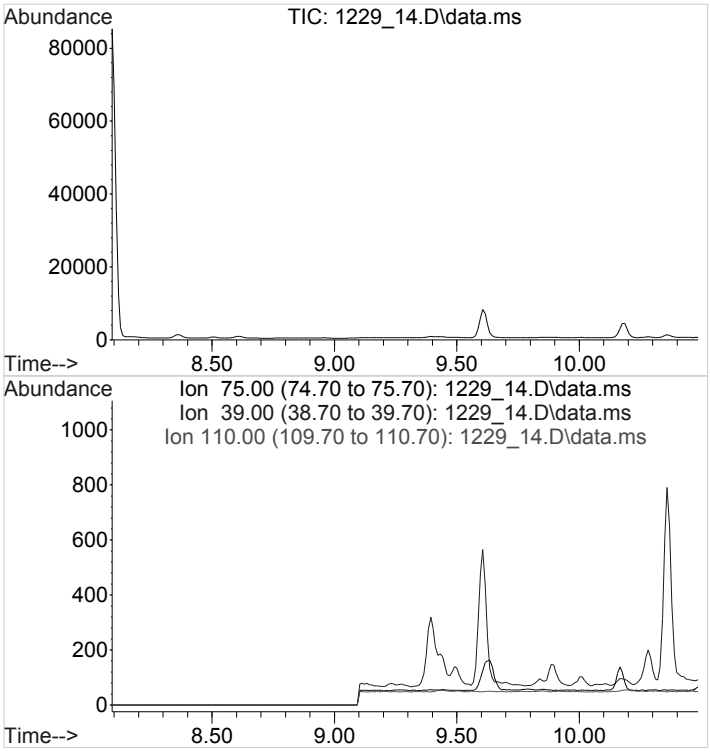
#20
Bromodichloromethane
Concen: N.D.
Expected RT: 8.85 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	63.4

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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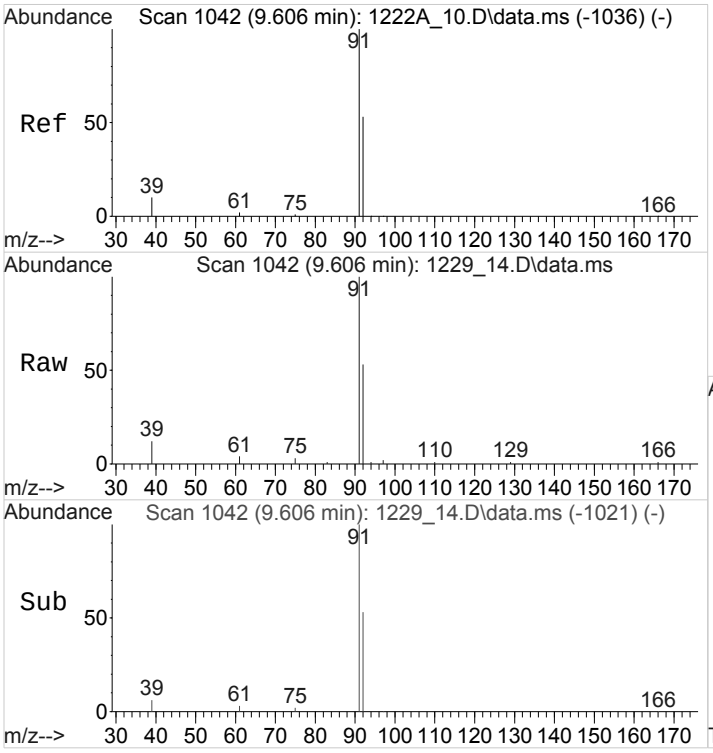


#21
cis-1,3-Dichloropropene
Concen: N.D.
Expected RT: 9.29 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 75

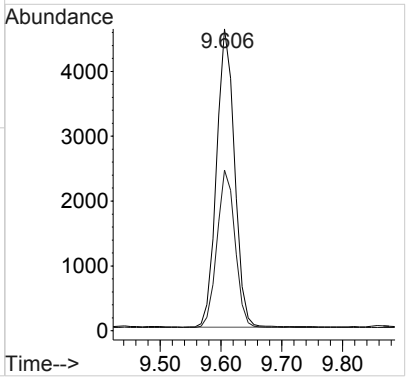
Sig	Exp Ratio
75	100
39	51.5
110	20.7

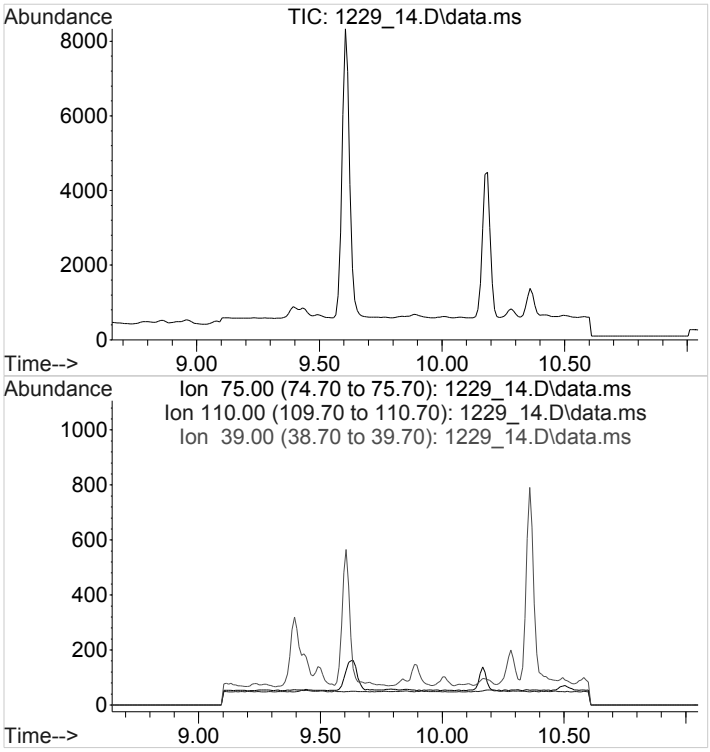


#22
Toluene
Concen: 0.2284965 ppbv
RT: 9.606 min Scan# 1042
Delta R.T. -0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 91 Resp: 9487

Ion	Ratio	Lower	Upper
91	100		
92	52.7	42.1	63.1



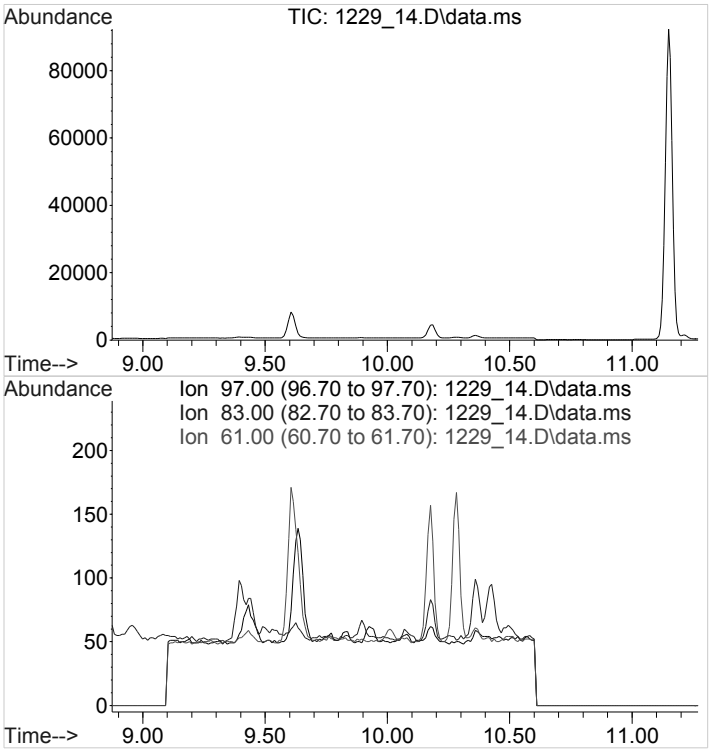


#23
trans-1,3-Dichloropropene
Concen: N.D.
Expected RT: 9.85 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 75

Sig	Exp Ratio
75	100
110	22.6
39	50.4



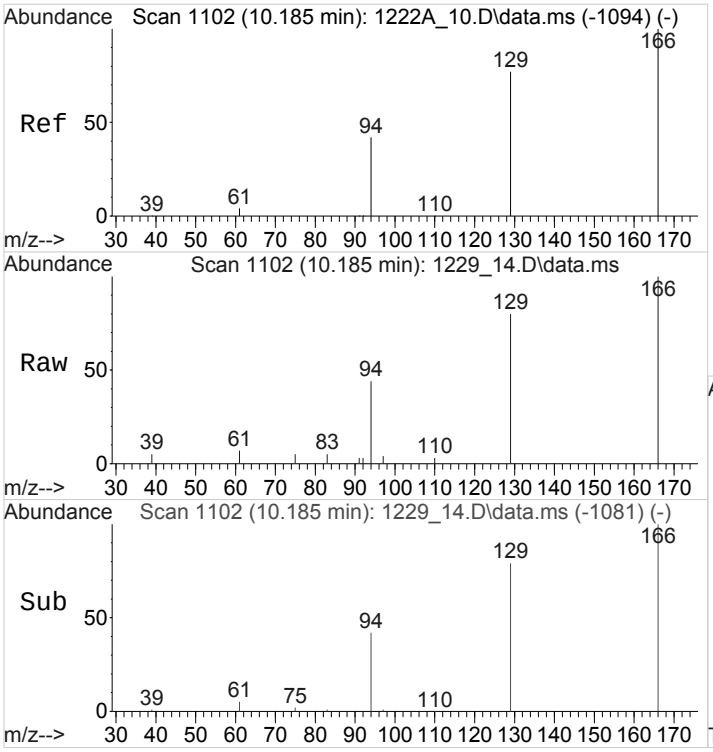
#24
1,1,2-Trichloroethane
Concen: N.D.
Expected RT: 10.07 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 97

Sig	Exp Ratio
97	100
83	91.9
61	68.5

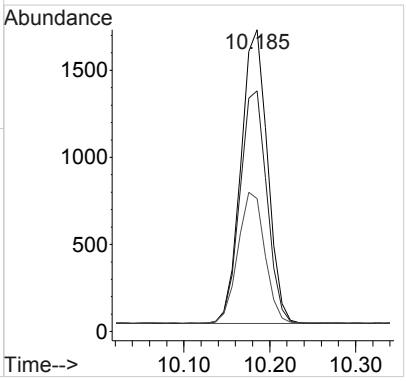
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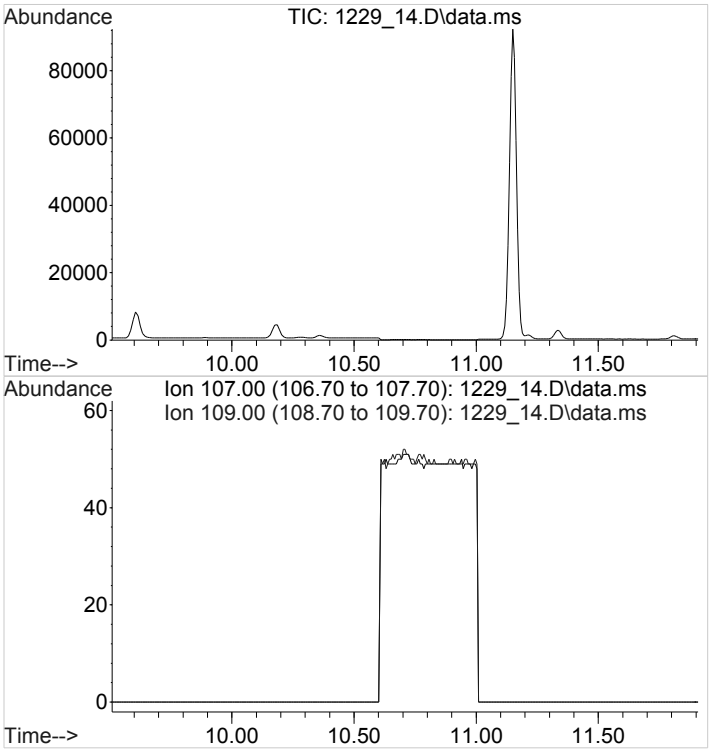


#25
Tetrachloroethene
Concen: 0.1769387 ppbv
RT: 10.185 min Scan# 1102
Delta R.T. -0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion:166 Resp: 3621

Ion	Ratio	Lower	Upper
166	100		
129	80.2	63.9	95.9
94	45.0	37.4	56.2



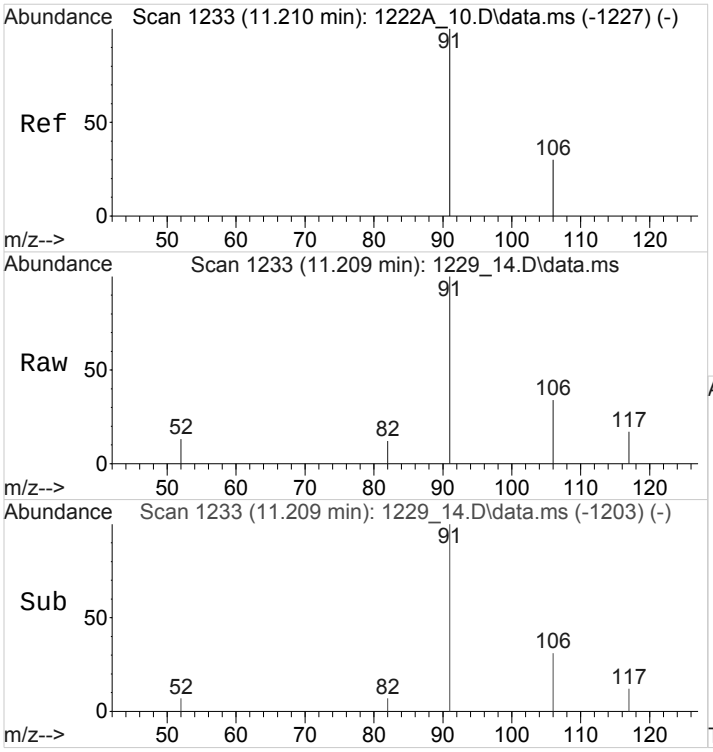


#26
1,2-Dibromoethane
Concen: N.D.
Expected RT: 10.71 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 107

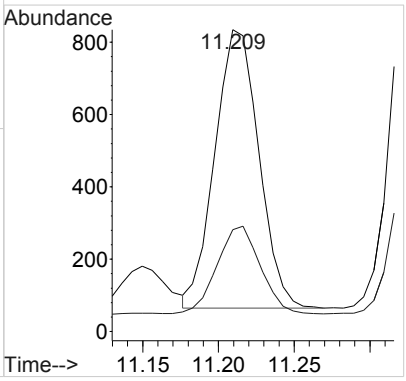
Sig	Exp Ratio
107	100
109	93.8

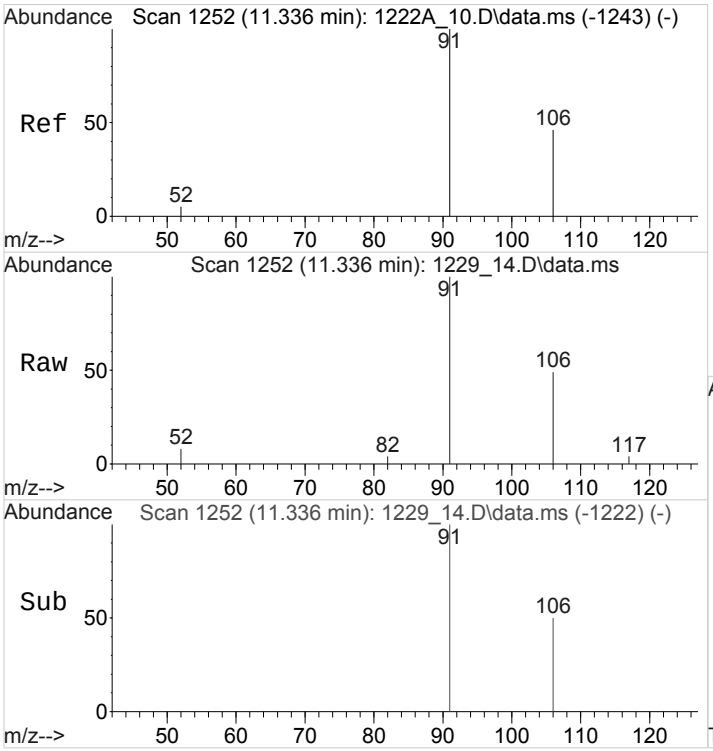


#28
Ethylbenzene
Concen: 0.0335940 ppbv
RT: 11.209 min Scan# 1233
Delta R.T. -0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 91 Resp: 1556

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.2	36.4

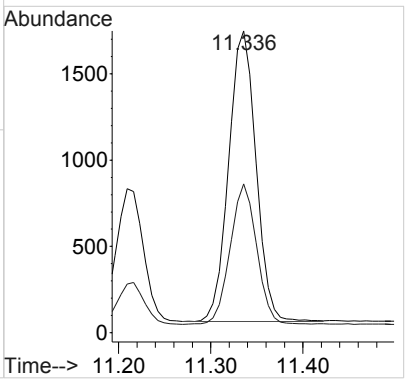


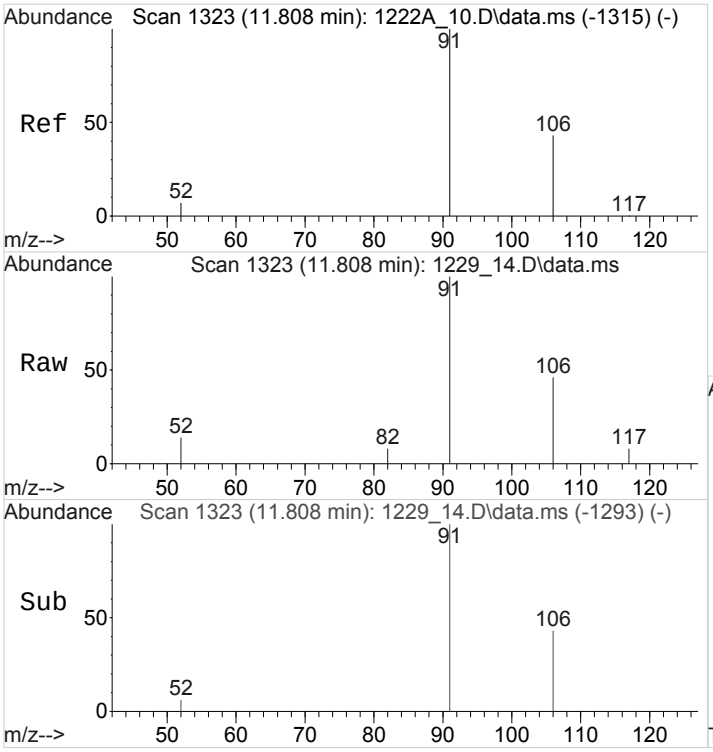


#29
M&P-Xylene
Concen: 0.1032815 ppbv
RT: 11.336 min Scan# 1252
Delta R.T. -0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 91 Resp: 3465

Ion	Ratio	Lower	Upper
91	100		
106	46.7	36.9	55.3

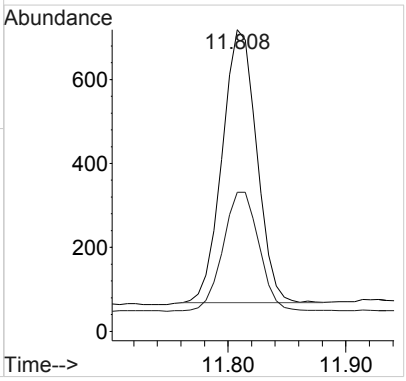


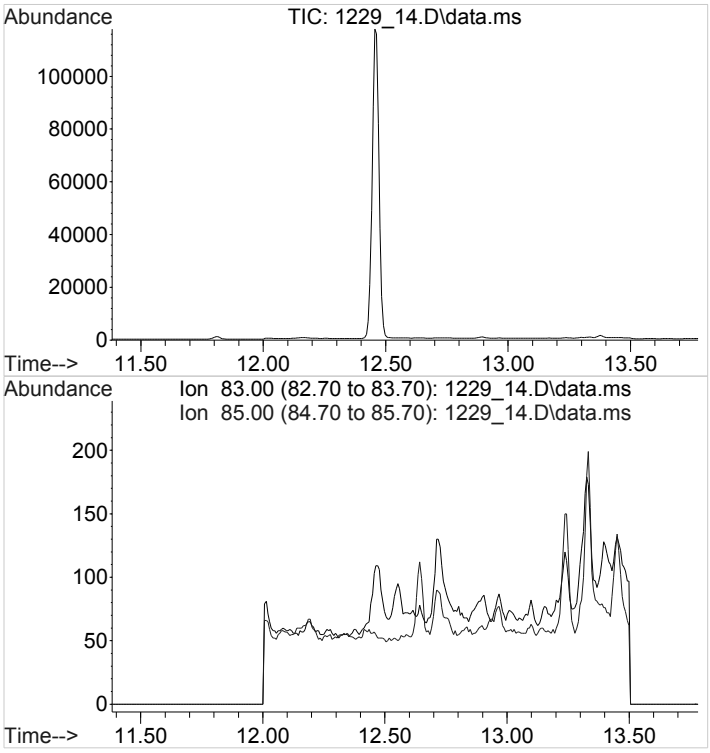


#30
O-Xylene
Concen: 0.0433770 ppbv
RT: 11.808 min Scan# 1323
Delta R.T. -0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 91 Resp: 1327

Ion	Ratio	Lower	Upper
91	100		
106	45.0	34.6	52.0



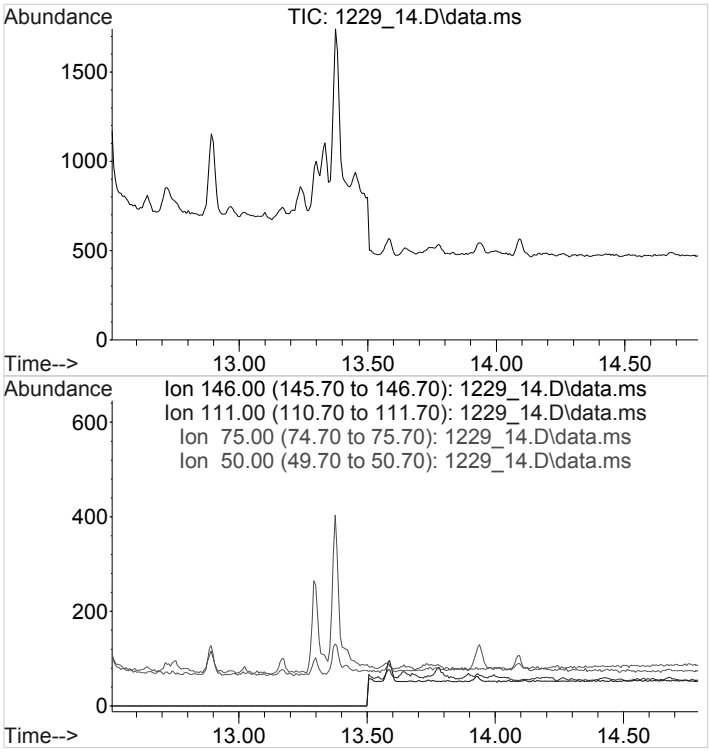


#31
1,1,2,2-Tetrachloroethane
Concen: N.D.
Expected RT: 12.58 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	63.8

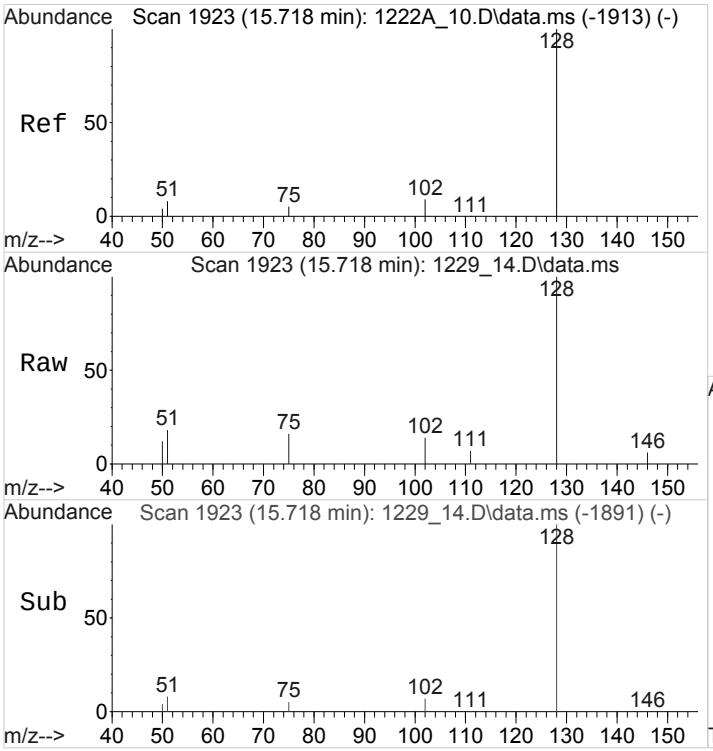


#33
1,4-Dichlorobenzene
Concen: N.D.
Expected RT: 13.59 min

Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion: 146

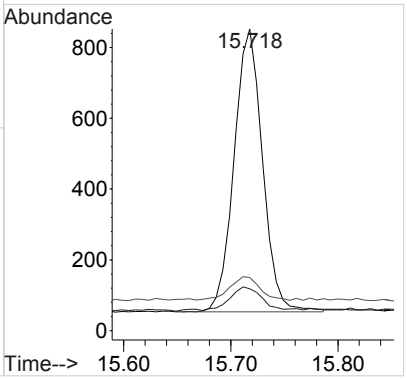
Sig	Exp Ratio
146	100
111	40.8
75	34.4
50	23.2



#34
Naphthalene
Concen: 0.0371269 ppbv
RT: 15.718 min Scan# 1923
Delta R.T. -0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 5:57 pm

Tgt Ion:128 Resp: 1480

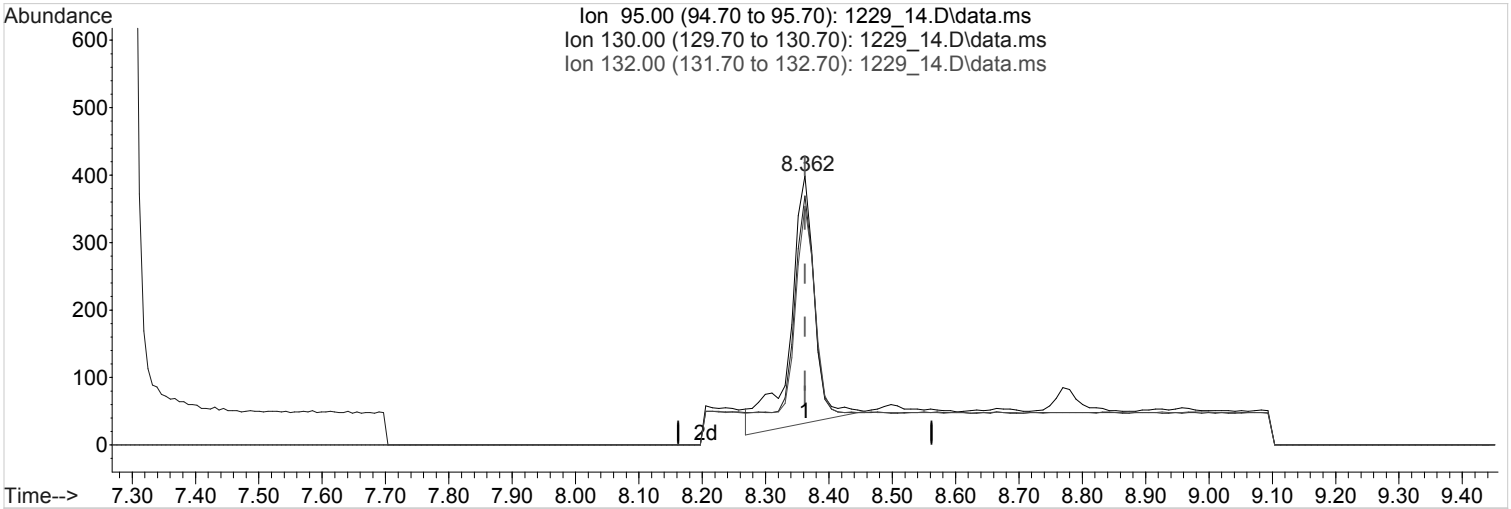
Ion	Ratio	Lower	Upper
128	100		
102	0.0	7.0	10.4#
51	0.0	6.9	10.3#

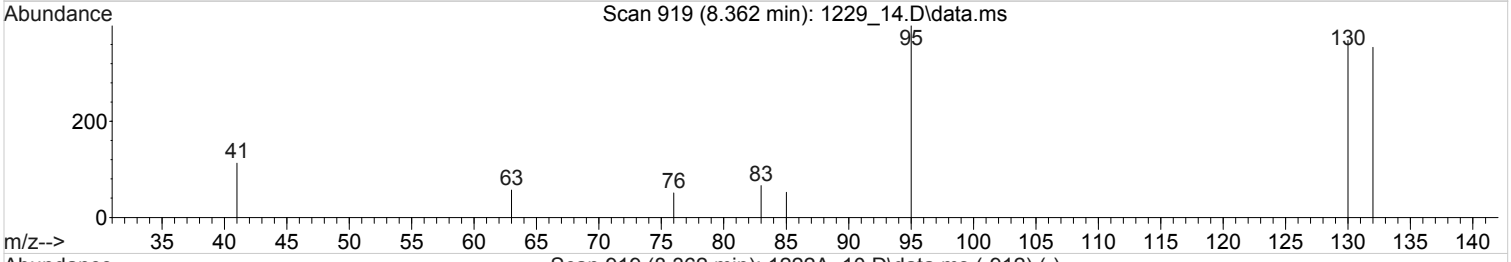


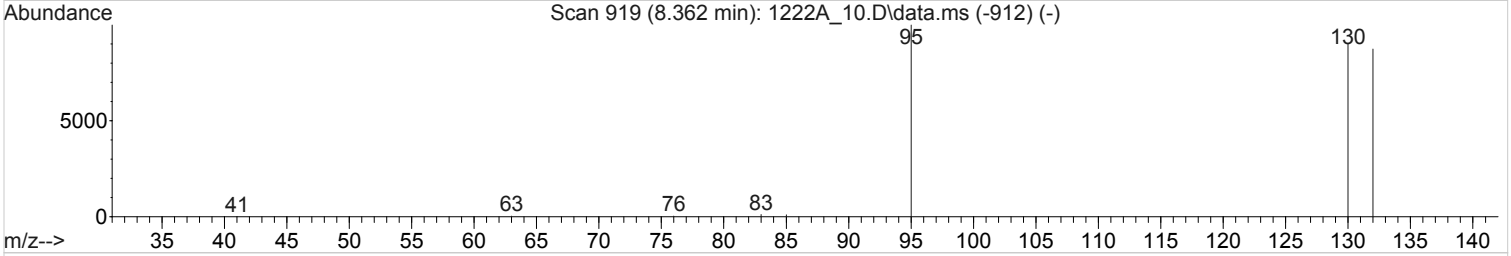
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_14.D
Acq On : 29 Dec 2022 5:57 pm
Operator :
Sample : L1570570-10 1x WG1980882
Misc :
ALS Vial : 14 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:19:22 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration







TIC: 1229_14.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.0541752 ppbv

Qvalue = 84

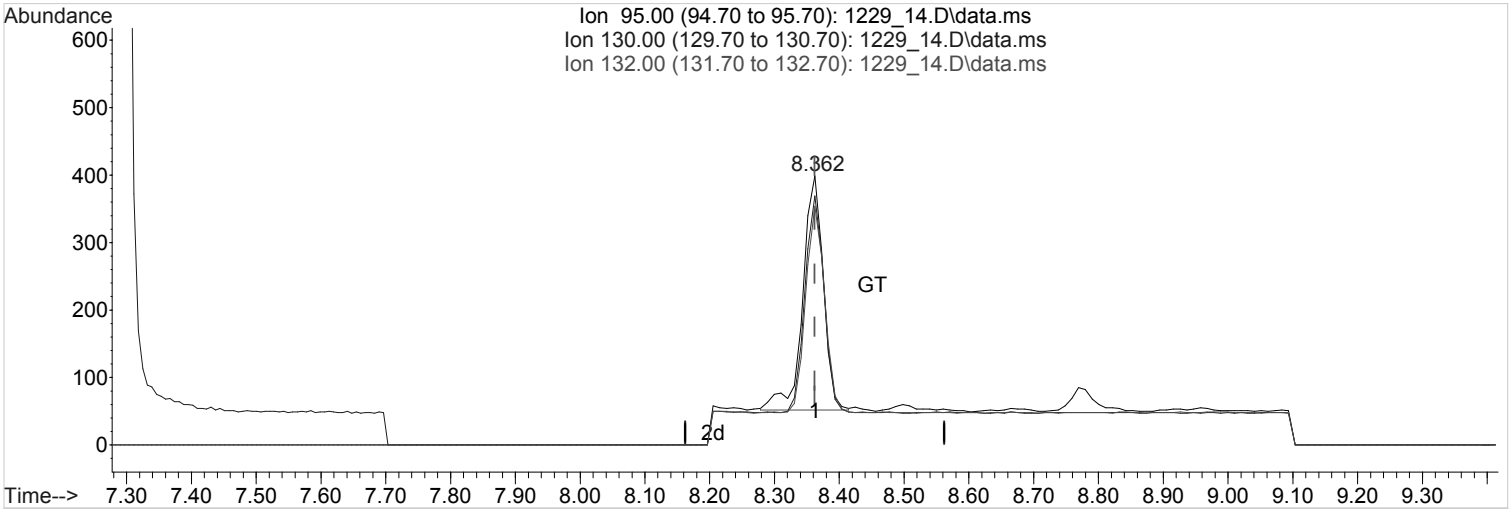
response 990 Limit = 0.0074600

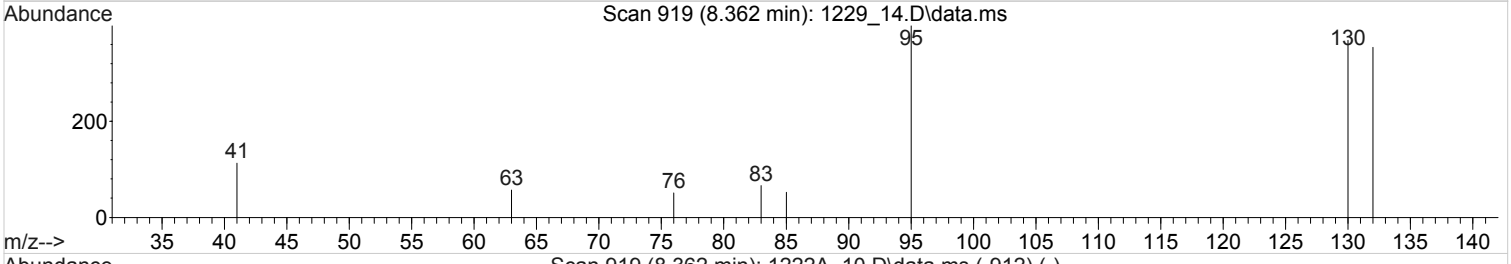
Ion	Exp%	Act%
95.00	100	100
130.00	91.20	74.85
132.00	87.30	74.04
0.00	0.00	0.00

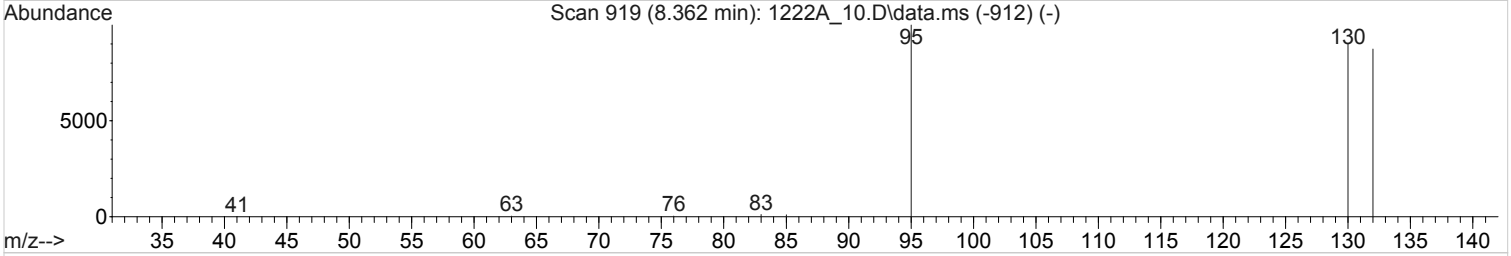
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_14.D
Acq On : 29 Dec 2022 5:57 pm
Operator :
Sample : L1570570-10 1x WG1980882
Misc :
ALS Vial : 14 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:19:22 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration







TIC: 1229_14.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.0419721 ppbv m

response 767 Limit = 0.0074600

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	96.61
132.00	87.30	95.57
0.00	0.00	0.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570570-11	**SDG:**	L1570570
Client Sample ID:	776-IA-1_1222	**Collected Date/Time:**	12/22/22 09:00
Lab File ID:	1229_15	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS7	**Preparation Date/Time:**	12/29/22 18:36
Analytical Batch:	WG1980882	**Analysis Date/Time:**	12/29/22 18:36
Dilution Factor:	1	**Prep Method:**	TO-15-SIM
Analytical Method:	TO-15-SIM	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Benzene	71-43-2	7.80	0.540		0.0358	0.0799	0.160
Carbon tetrachloride	56-23-5	7.59	0.513		0.0627	0.126	0.252
1,1-Dichloroethene	75-35-4	0	0.0753	U	0.0365	0.0753	0.159
cis-1,2-Dichloroethene	156-59-2	0	0.119	U	0.0563	0.119	0.238
Tetrachloroethylene	127-18-4	10.19	0.204	U	0.0862	0.204	0.407
1,1,1-Trichloroethane	71-55-6	0	0.103	U	0.0353	0.103	0.218
Trichloroethylene	79-01-6	8.36	0.149	J	0.0400	0.102	0.214
Vinyl chloride	75-01-4	0	0.0486	U	0.0196	0.0486	0.102

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_15.D
Acq On : 29 Dec 2022 6:36 pm
Operator :
Sample : L1570570-11 1x WG1980882
Misc :
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:27:27 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

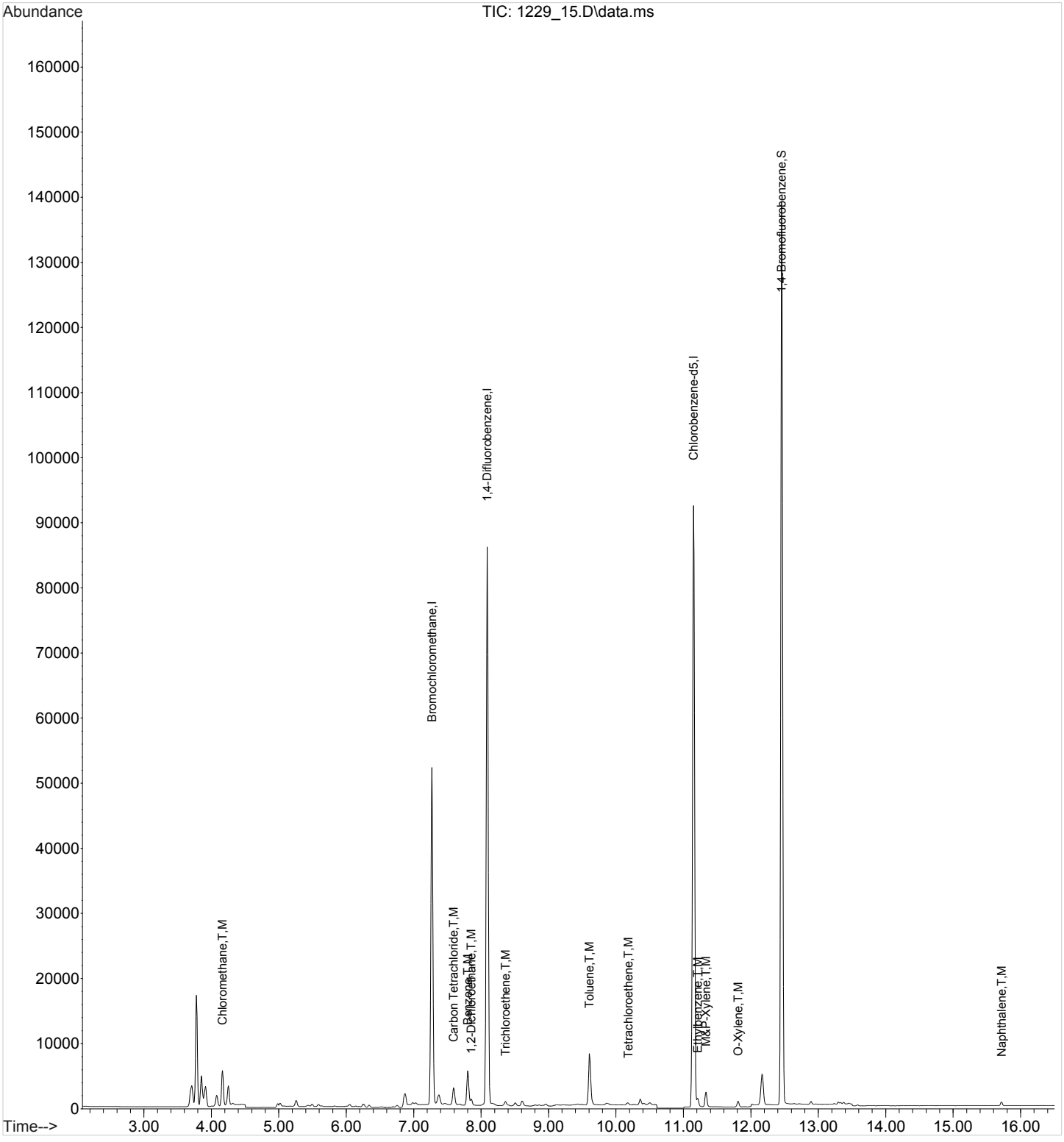
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.269	130	33812	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	115214	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	105348	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	77786	1.4189645	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 113.52%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	8096	0.5264480	ppbv	100
3) Vinyl Chloride	0.000		0	N.D. d		
4) 1,3-Butadiene	0.000		0	N.D. d		
5) Chloroethane	0.000		0	N.D.		
6) 1,1-Dichloroethene	0.000		0	N.D.		
7) Methyl Tert-Butyl Ether	0.000		0	N.D.		
8) Trans-1,2-Dichloroethene	0.000		0	N.D.		
9) 1,1-Dichloroethane	0.000		0	N.D.		
10) Vinyl Acetate	0.000		0	N.D. d		
11) cis-1,2-Dichloroethene	0.000		0	N.D. d		
12) Chloroform	0.000		0	N.D. d		
13) 1,1,1-Trichloroethane	0.000		0	N.D.		
14) Carbon Tetrachloride	7.592	117	2495	0.0813771	ppbv	99
15) 1,2-Dichloroethane	7.853	62	1037	0.0465548	ppbv	97
17) Benzene	7.801	78	8184	0.1688762	ppbv	99
18) Trichloroethene	8.362	95	517m	0.0277682	ppbv	
19) 1,2-Dichloropropane	0.000		0	N.D.		
20) Bromodichloromethane	0.000		0	N.D.		
21) cis-1,3-Dichloropropene	0.000		0	N.D.		
22) Toluene	9.606	91	9488	0.2242939	ppbv	100
23) trans-1,3-Dichloropropene	0.000		0	N.D.		
24) 1,1,2-Trichloroethane	0.000		0	N.D.		
25) Tetrachloroethene	10.185	166	183	0.0087768	ppbv #	72
26) 1,2-Dibromoethane	0.000		0	N.D.		
28) Ethylbenzene	11.210	91	1759	0.0375053	ppbv	97
29) M&P-Xylene	11.336	91	3043	0.0895767	ppbv	99
30) O-Xylene	11.808	91	1205	0.0389000	ppbv	97
31) 1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
33) 1,4-Dichlorobenzene	0.000		0	N.D.		
34) Naphthalene	15.718	128	873	0.0216280	ppbv #	76

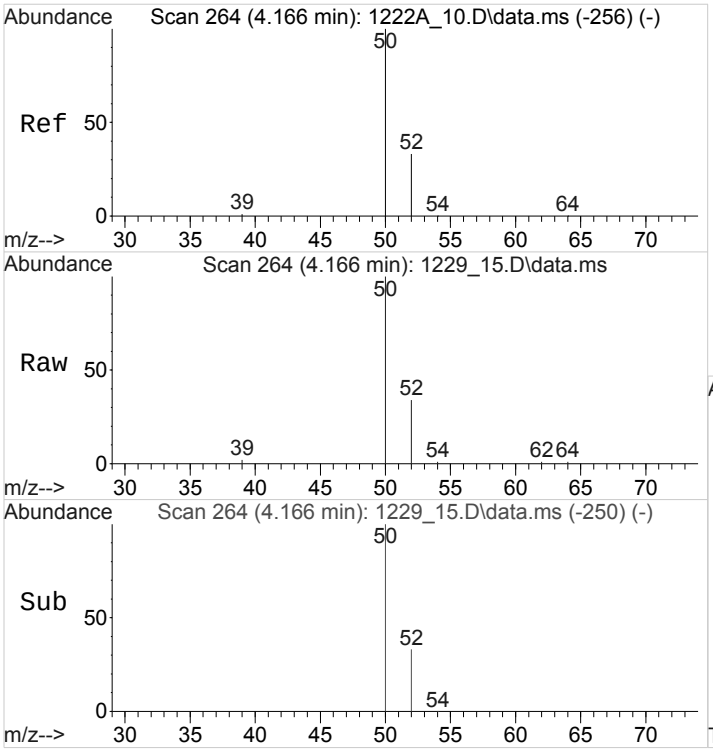
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_15.D
Acq On : 29 Dec 2022 6:36 pm
Operator :
Sample : L1570570-11 1x WG1980882
Misc :
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:27:27 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

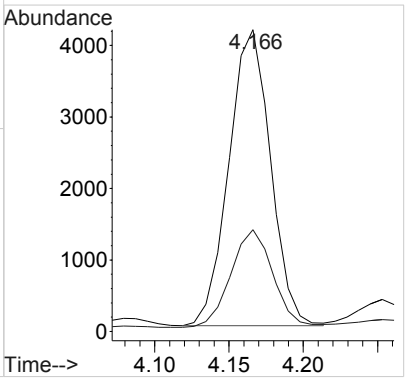


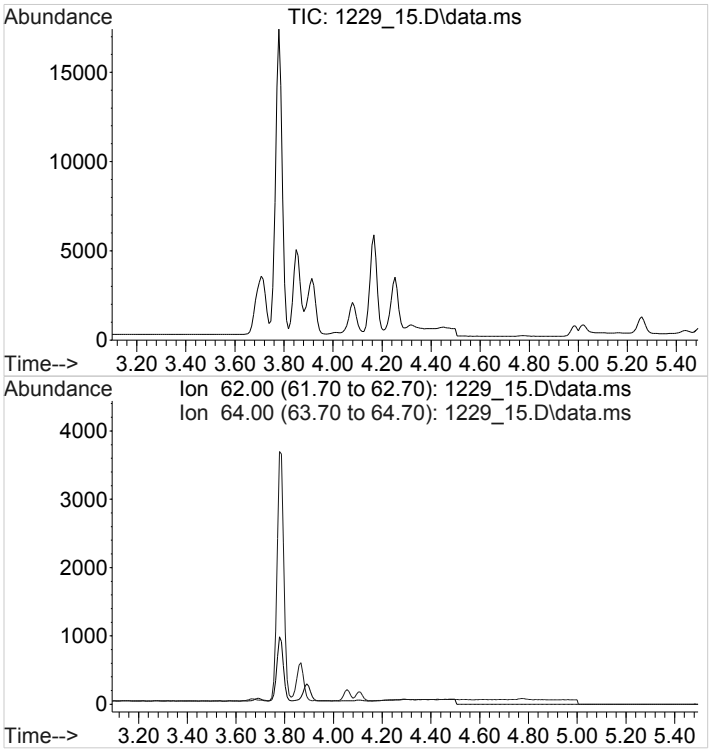


#2
Chloromethane
Concen: 0.5264480 ppbv
RT: 4.166 min Scan# 264
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 50 Resp: 8096

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.6	40.0





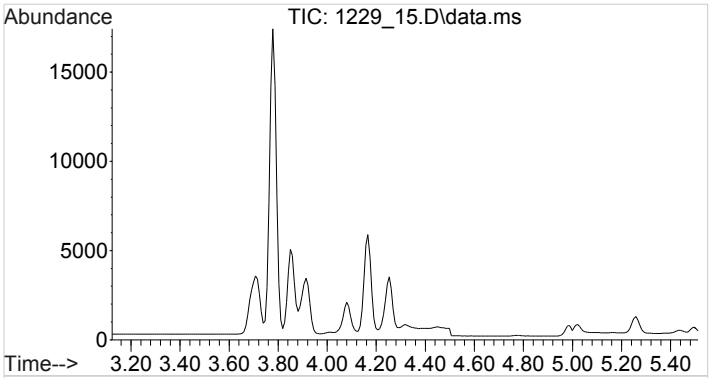
#3
Vinyl Chloride
Concen: N.D.
Expected RT: 4.29 min

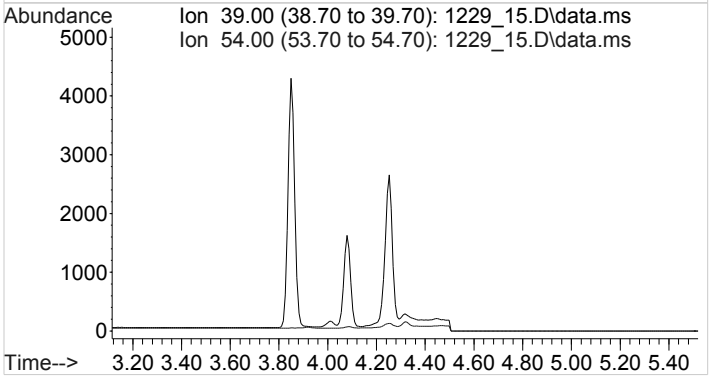
Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 62

Sig	Exp Ratio
62	100
64	33.3

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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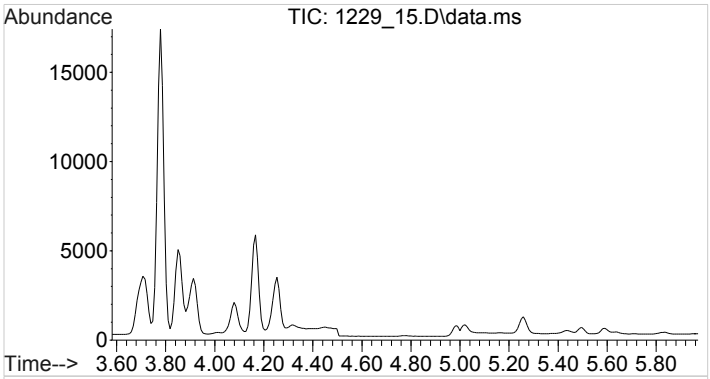


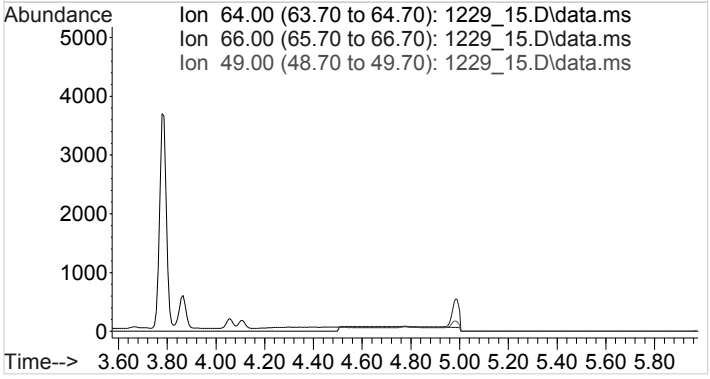
#4
1,3-Butadiene
Concen: N.D.
Expected RT: 4.32 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 39

Sig	Exp Ratio
39	100
54	90.3



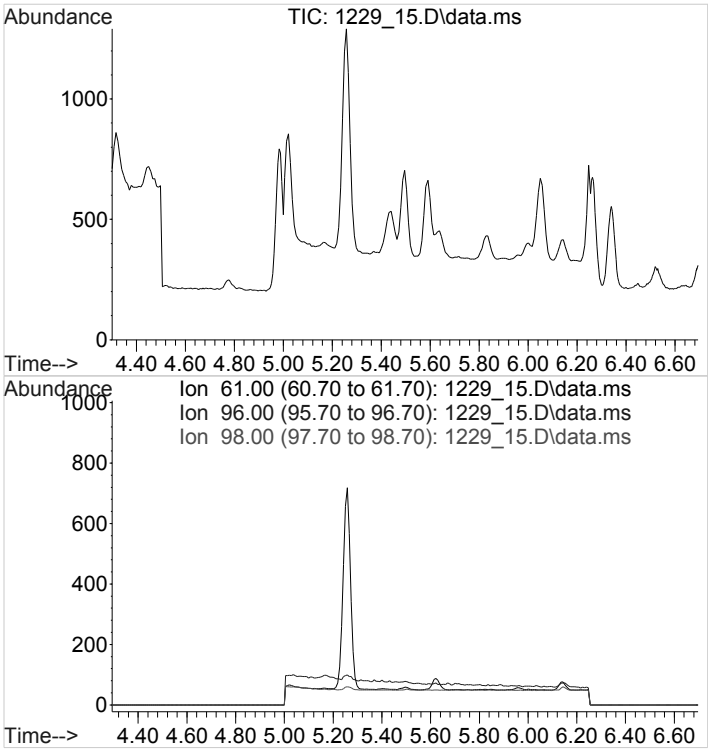


#5
Chloroethane
Concen: N.D.
Expected RT: 4.77 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 64

Sig	Exp Ratio
64	100
66	32.2
49	33.8

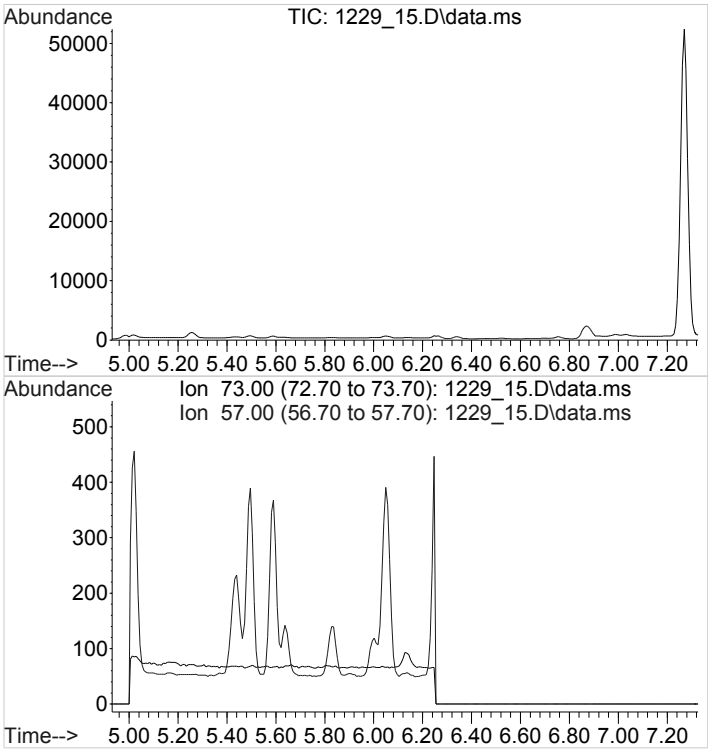


#6
1,1-Dichloroethene
Concen: N.D.
Expected RT: 5.50 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 61

Sig	Exp Ratio
61	100
96	54.0
98	34.4



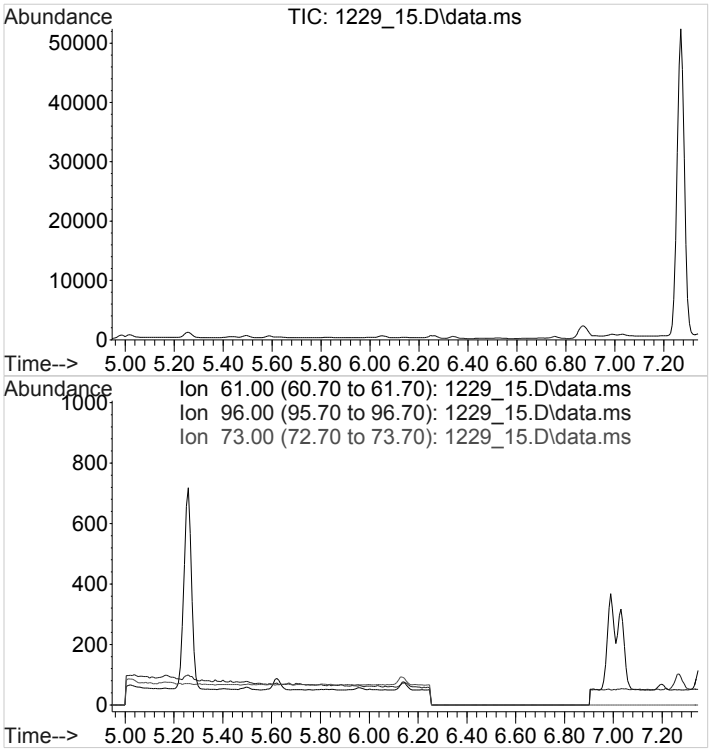
#7
Methyl Tert-Butyl Ether
Concen: N.D.
Expected RT: 6.13 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 73

Sig	Exp Ratio
73	100
57	27.3

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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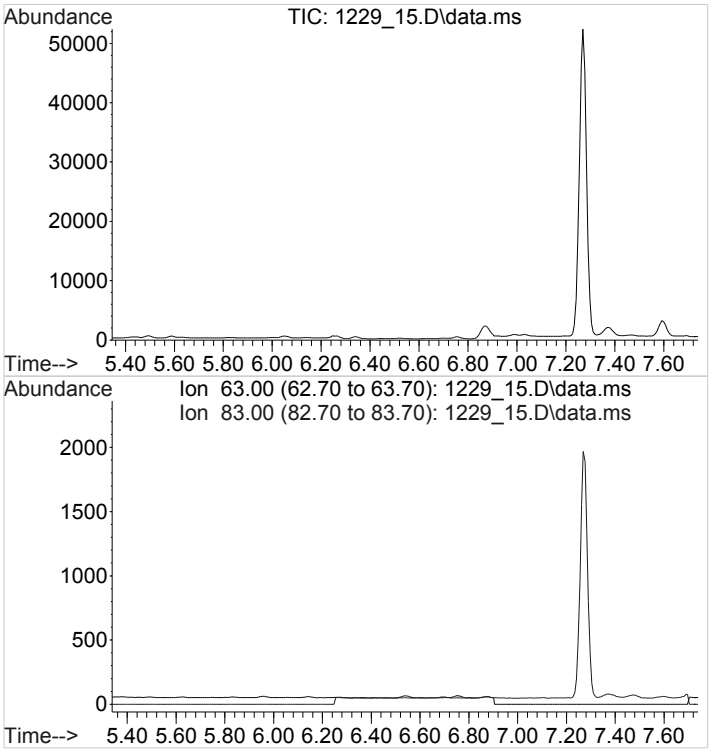


#8
Trans-1,2-Dichloroethene
Concen: N.D.
Expected RT: 6.14 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 61

Sig	Exp Ratio
61	100
96	60.7
73	124.3

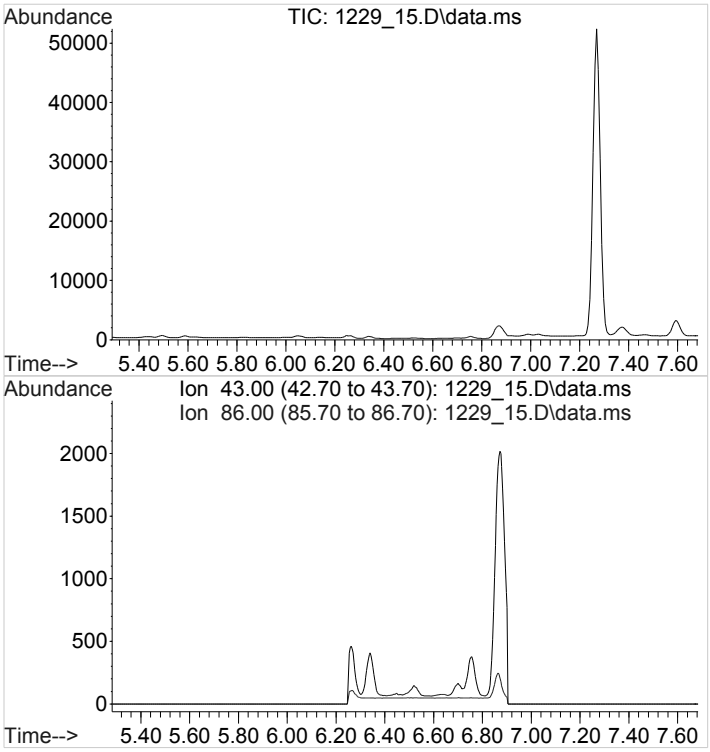


#9
1,1-Dichloroethane
Concen: N.D.
Expected RT: 6.54 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
83	11.9

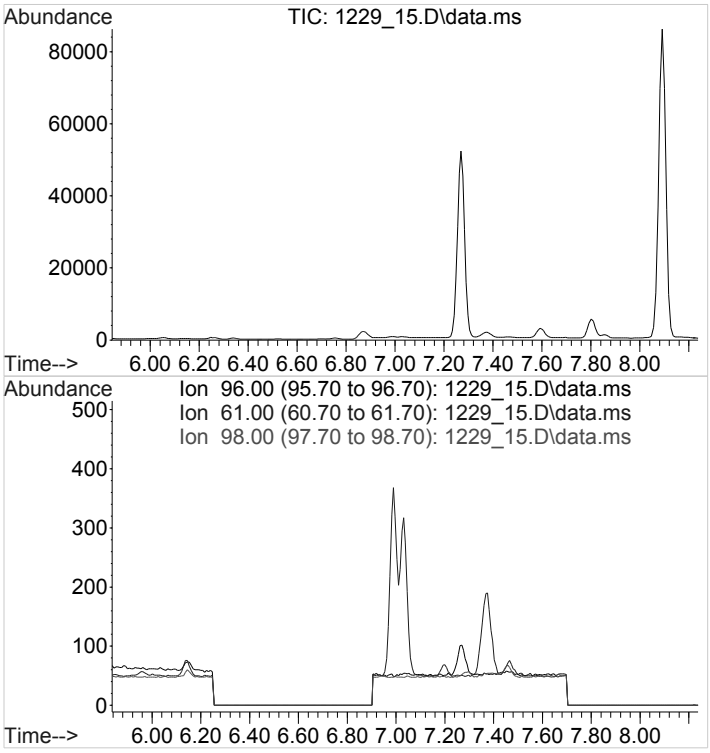


#10
Vinyl Acetate
Concen: N.D.
Expected RT: 6.48 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 43

Sig	Exp Ratio
43	100
86	4.0

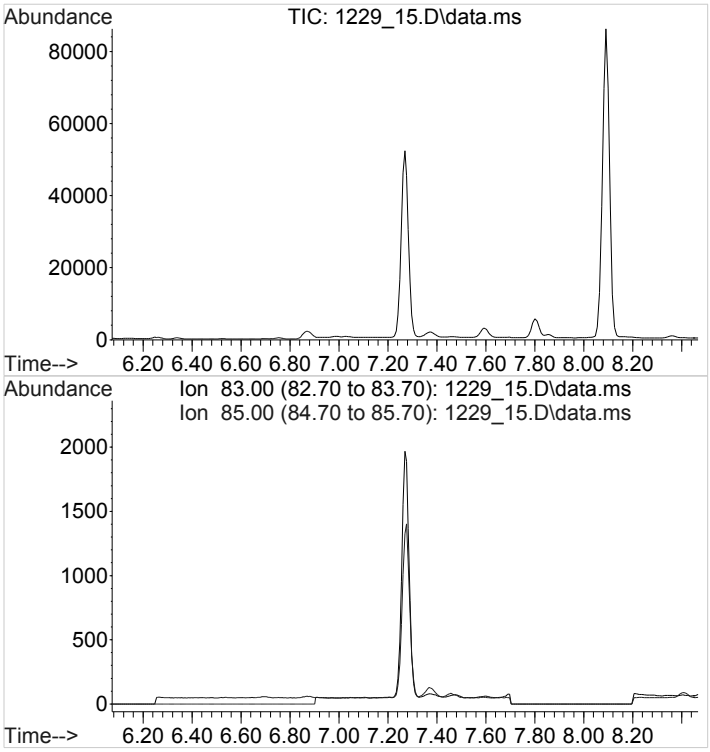


#11
cis-1,2-Dichloroethene
Concen: N.D.
Expected RT: 7.04 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 96

Sig	Exp Ratio
96	100
61	153.8
98	64.1

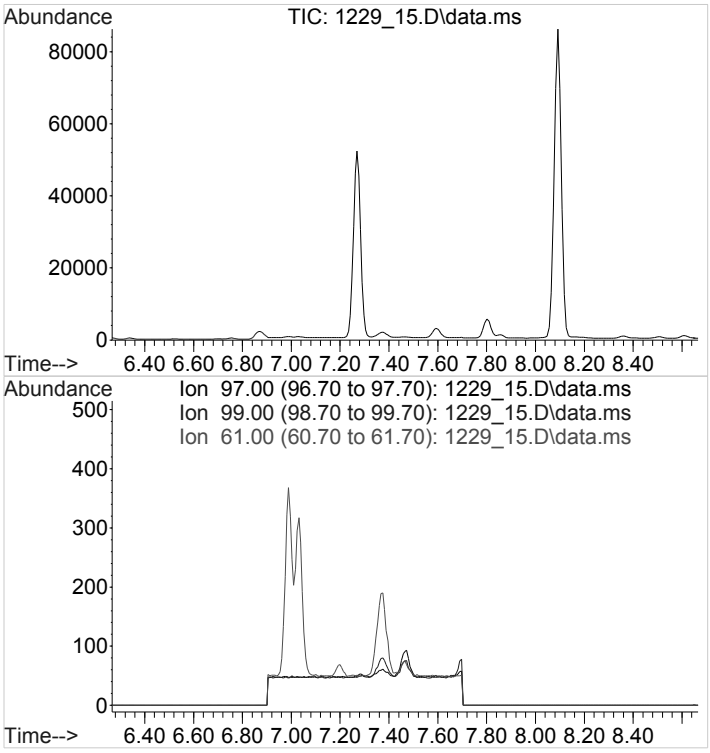


#12
Chloroform
Concen: N.D.
Expected RT: 7.27 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	64.1

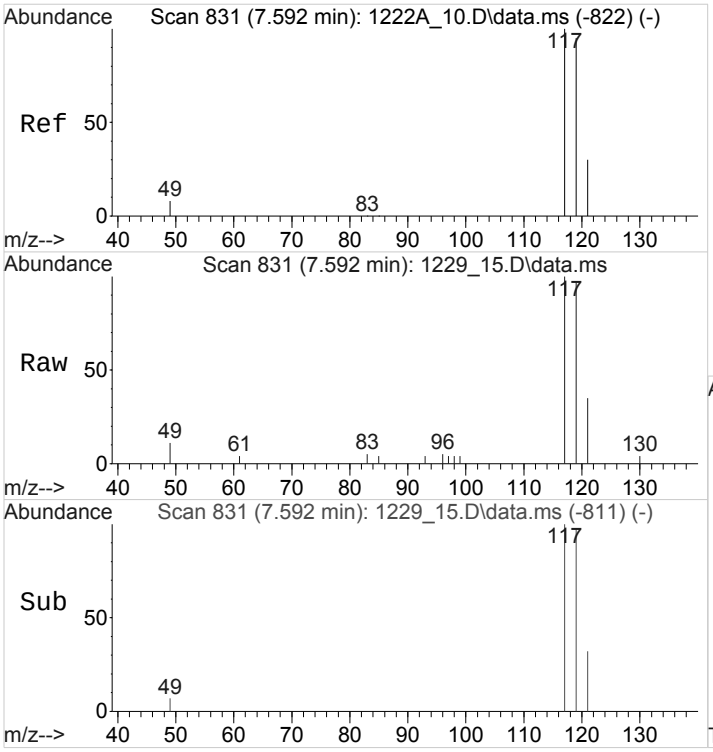


#13
1,1,1-Trichloroethane
Concen: N.D.
Expected RT: 7.47 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 97

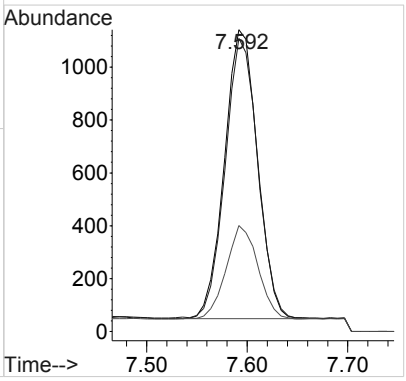
Sig	Exp Ratio
97	100
99	63.8
61	50.4

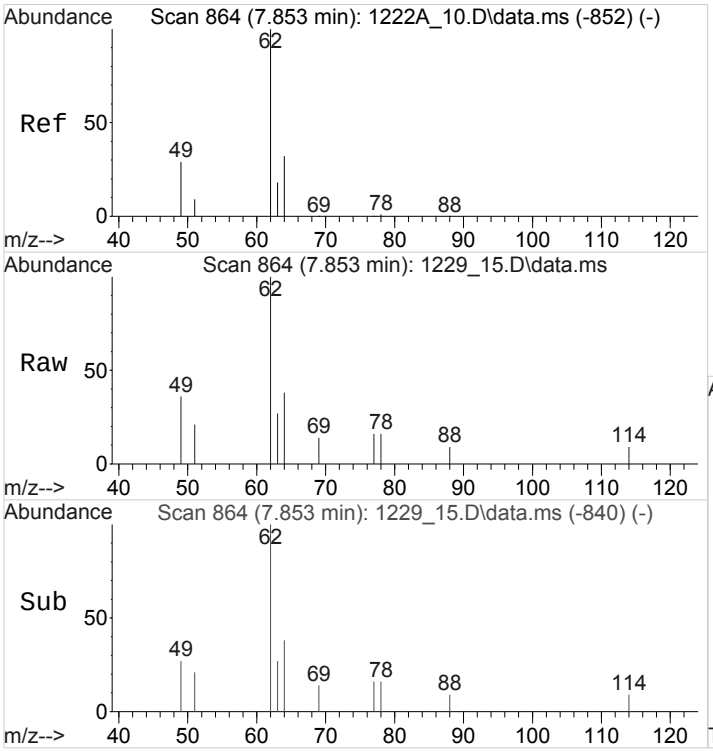


#14
Carbon Tetrachloride
Concen: 0.0813771 ppbv
RT: 7.592 min Scan# 831
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion:117 Resp: 2495

Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.7	115.1
121	31.0	27.0	40.4

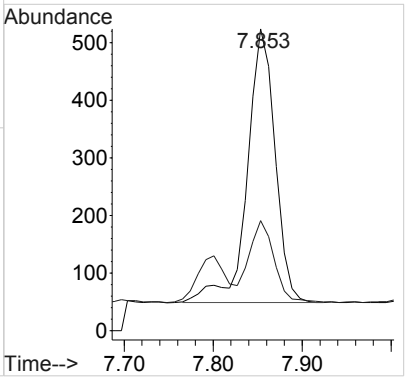




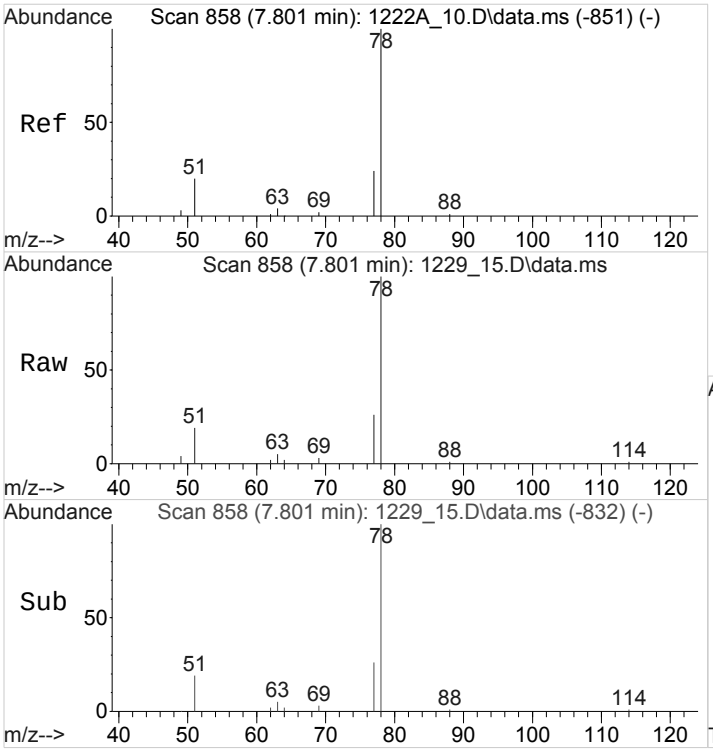
#15
1,2-Dichloroethane
Concen: 0.0465548 ppbv
RT: 7.853 min Scan# 864
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 62 Resp: 1037

Ion	Ratio	Lower	Upper
62	100		
49	26.5	22.4	33.6



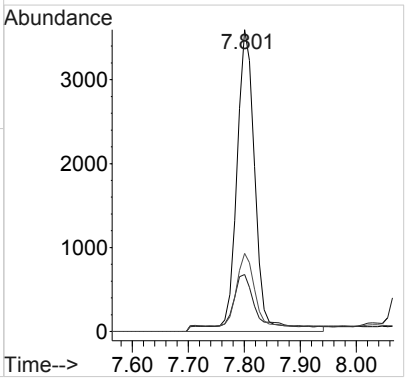
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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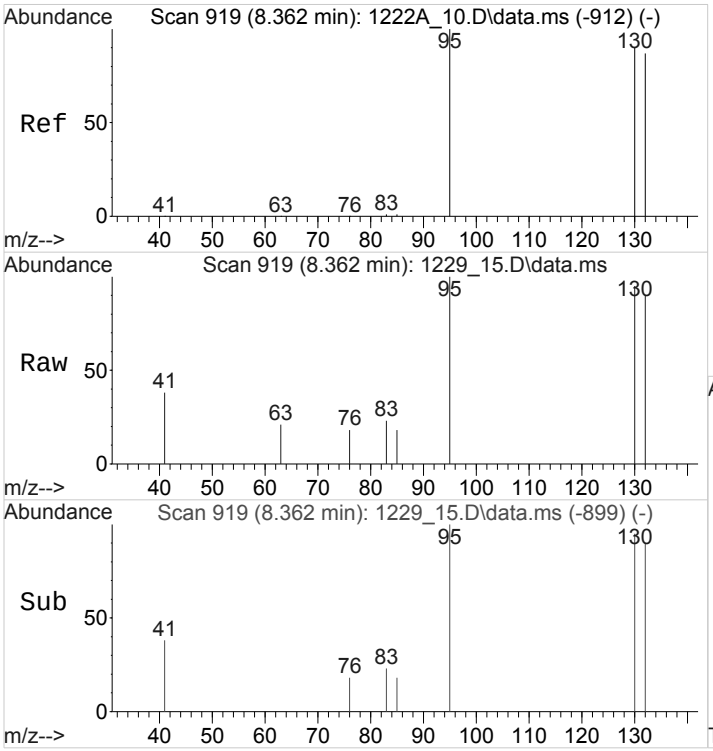


#17
Benzene
Concen: 0.1688762 ppbv
RT: 7.801 min Scan# 858
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 78 Resp: 8184

Ion	Ratio	Lower	Upper
78	100		
51	21.0	17.5	26.3
77	25.1	20.2	30.4

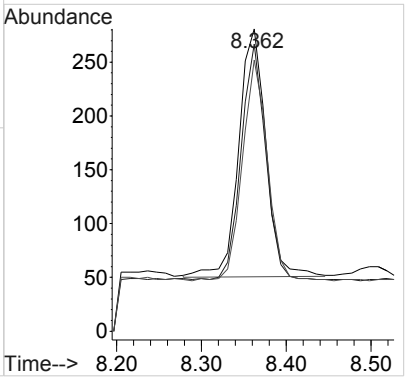


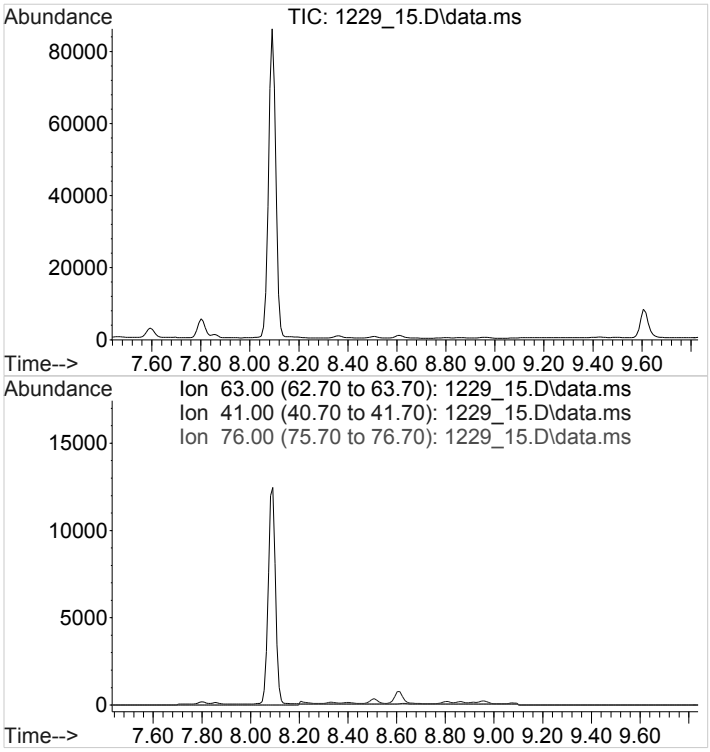


#18
Trichloroethene
Concen: 0.0277682 ppbv m
RT: 8.362 min Scan# 919
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 95 Resp: 517

Ion	Ratio	Lower	Upper
95	100		
130	84.5	73.0	109.4
132	102.5	69.8	104.8



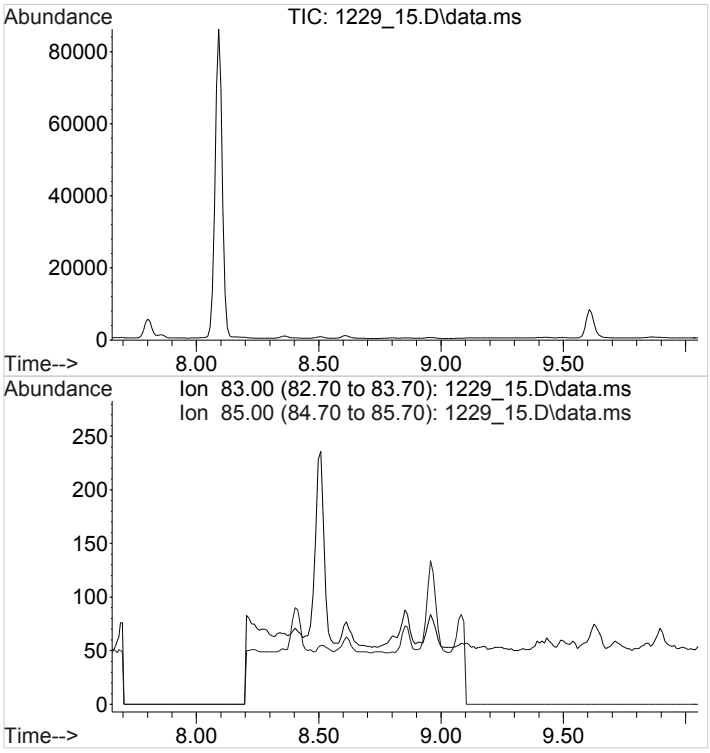


#19
1,2-Dichloropropane
Concen: N.D.
Expected RT: 8.63 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
41	52.4
76	34.1



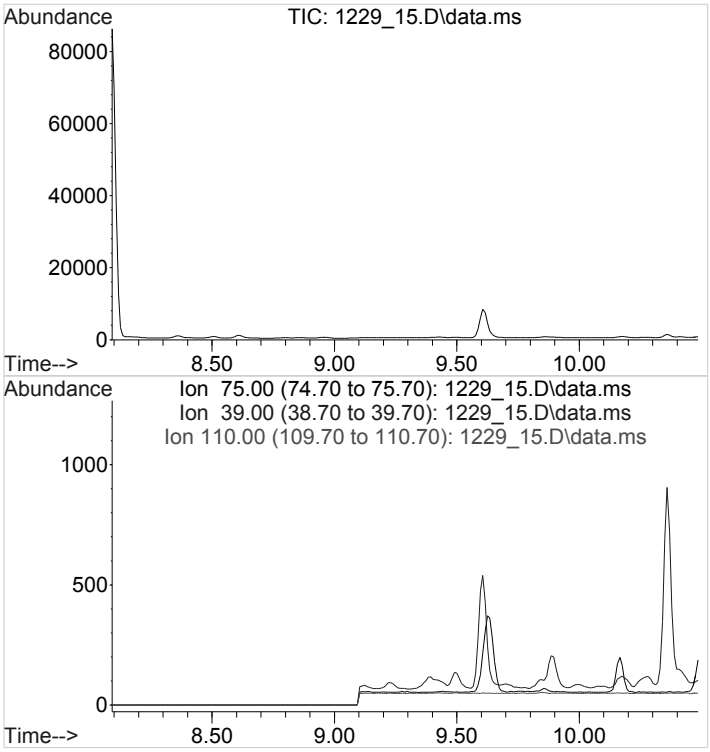
#20
Bromodichloromethane
Concen: N.D.
Expected RT: 8.85 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	63.4

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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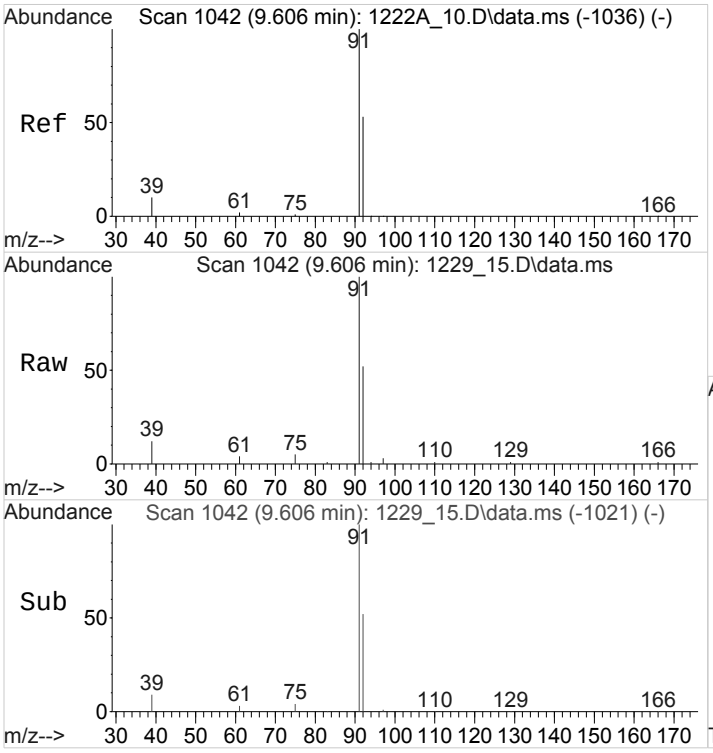


#21
cis-1,3-Dichloropropene
Concen: N.D.
Expected RT: 9.29 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 75

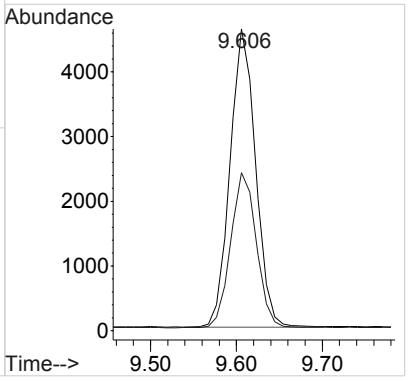
Sig	Exp Ratio
75	100
39	51.5
110	20.7



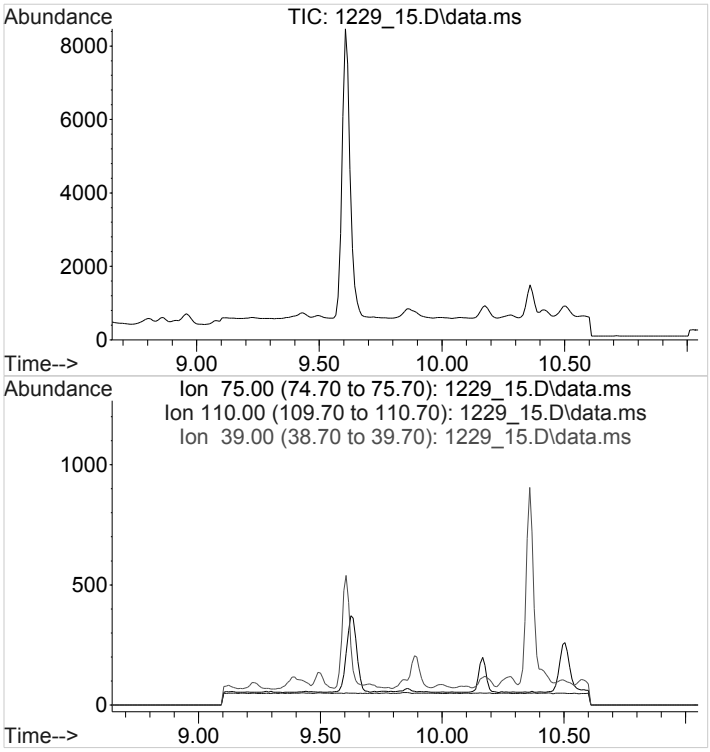
#22
Toluene
Concen: 0.2242939 ppbv
RT: 9.606 min Scan# 1042
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 91 Resp: 9488

Ion	Ratio	Lower	Upper
91	100		
92	52.4	42.1	63.1



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	352 of 471

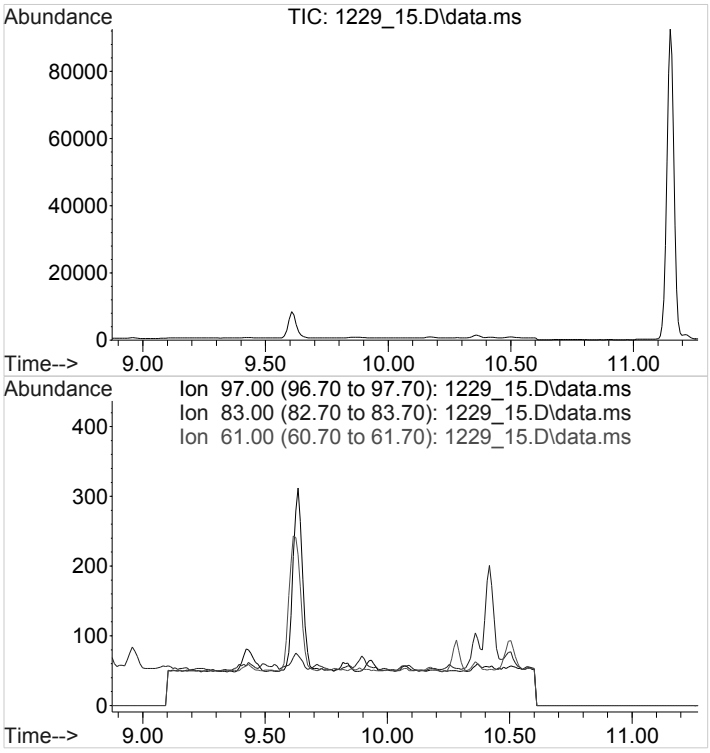


#23
trans-1,3-Dichloropropene
Concen: N.D.
Expected RT: 9.85 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 75

Sig	Exp Ratio
75	100
110	22.6
39	50.4



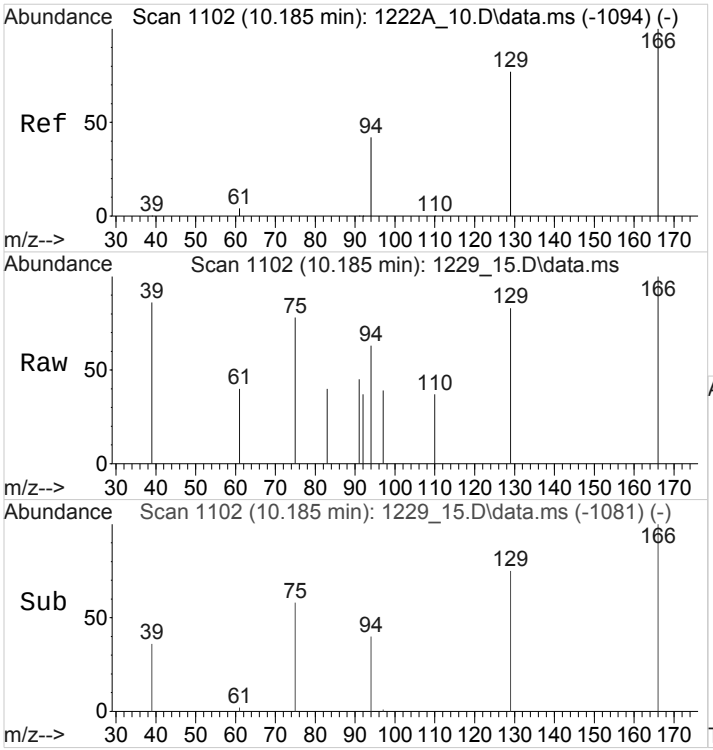
#24
1,1,2-Trichloroethane
Concen: N.D.
Expected RT: 10.07 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 97

Sig	Exp Ratio
97	100
83	91.9
61	68.5

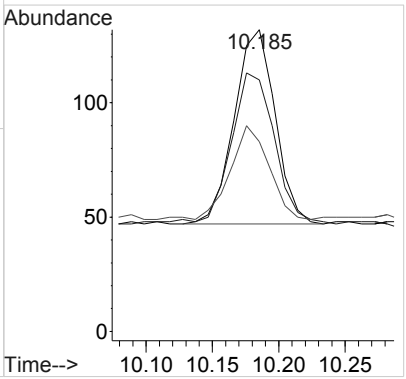
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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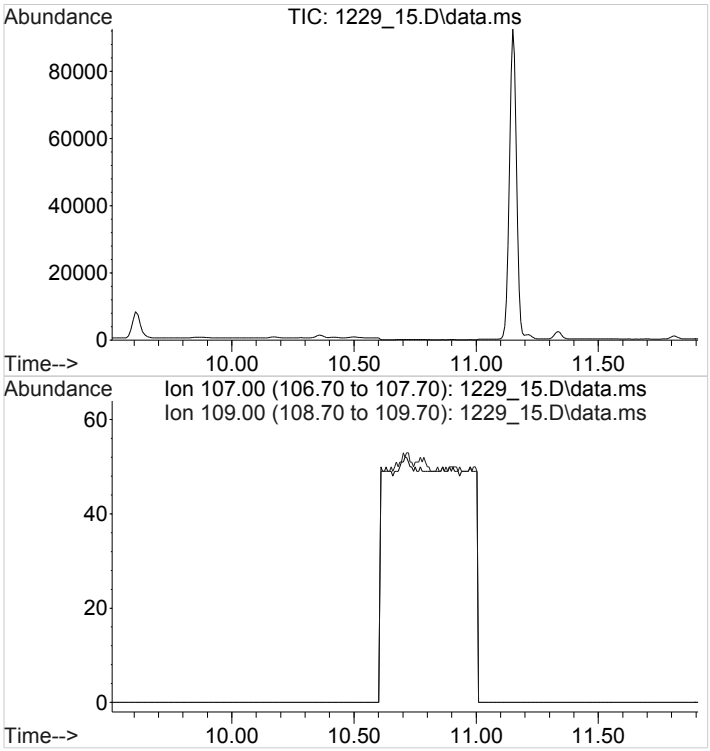


#25
Tetrachloroethene
Concen: 0.0087768 ppbv
RT: 10.185 min Scan# 1102
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion:166 Resp: 183

Ion	Ratio	Lower	Upper
166	100		
129	83.1	63.9	95.9
94	0.0	37.4	56.2#



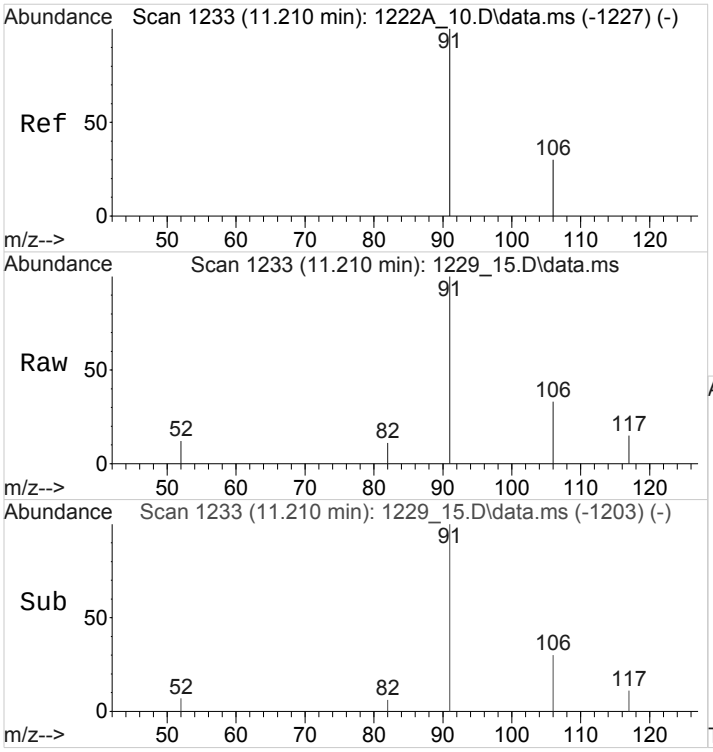


#26
1,2-Dibromoethane
Concen: N.D.
Expected RT: 10.71 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 107

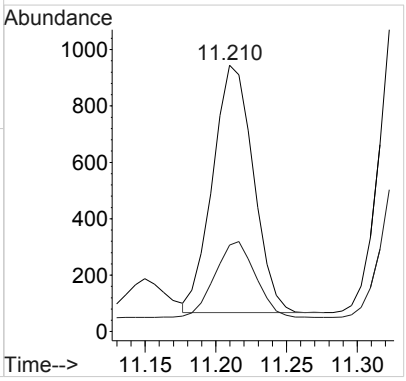
Sig	Exp Ratio
107	100
109	93.8

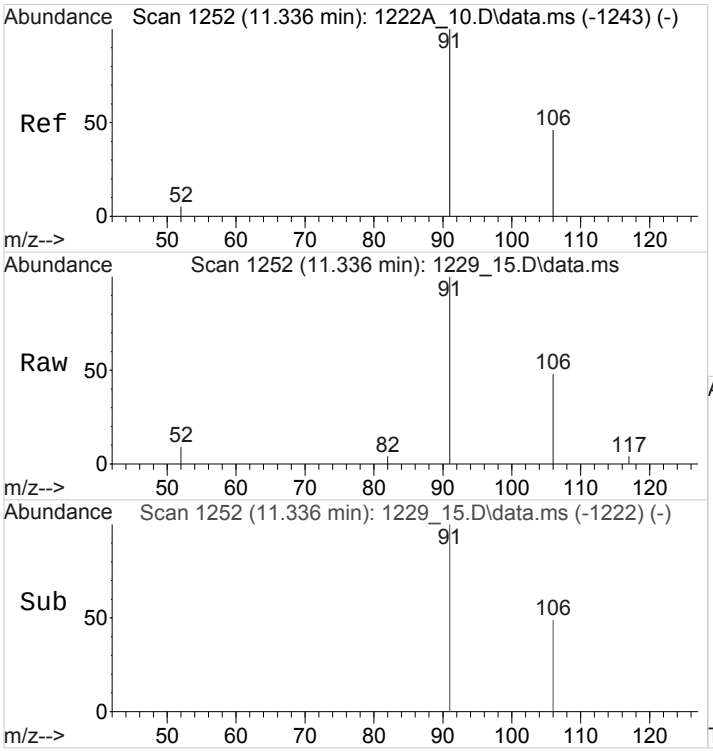


#28
Ethylbenzene
Concen: 0.0375053 ppbv
RT: 11.210 min Scan# 1233
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 91 Resp: 1759

Ion	Ratio	Lower	Upper
91	100		
106	31.7	24.2	36.4

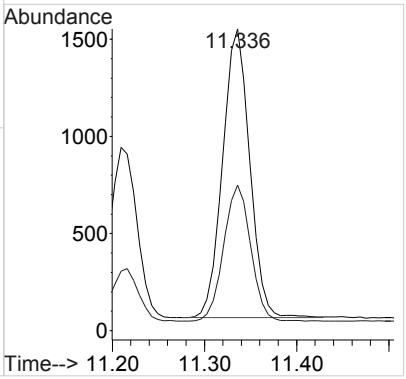




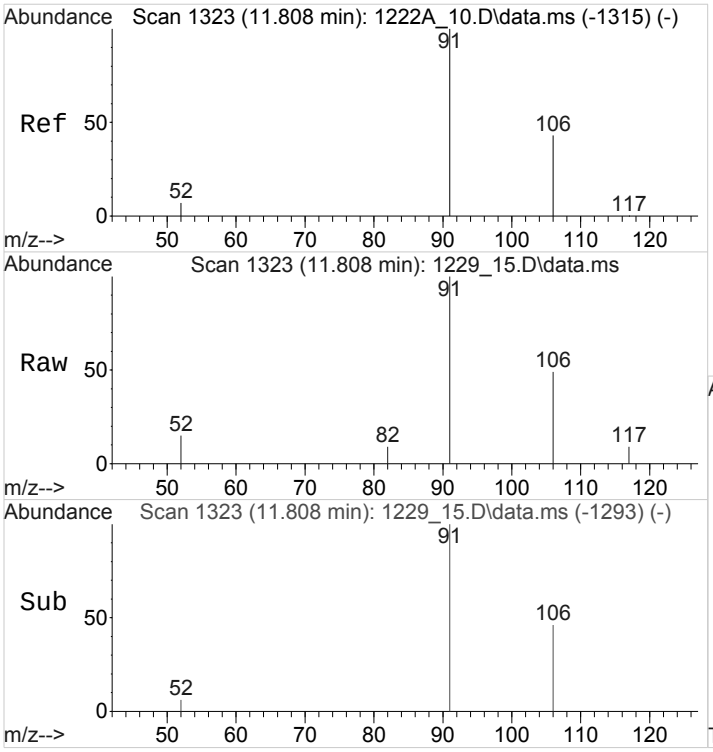
#29
M&P-Xylene
Concen: 0.0895767 ppbv
RT: 11.336 min Scan# 1252
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 91 Resp: 3043

Ion	Ratio	Lower	Upper
91	100		
106	46.6	36.9	55.3



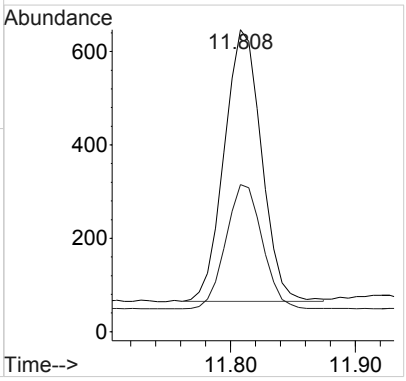
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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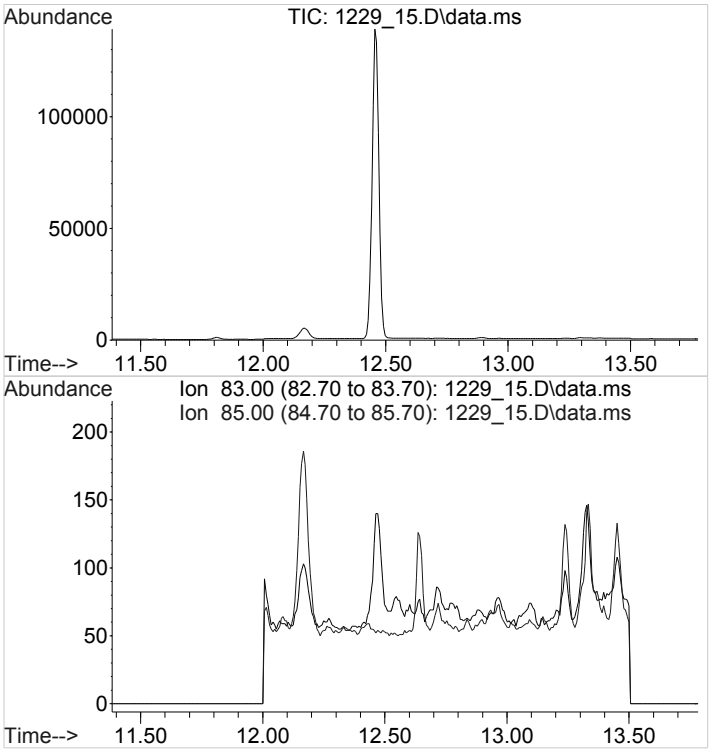


#30
O-Xylene
Concen: 0.0389000 ppbv
RT: 11.808 min Scan# 1323
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 91 Resp: 1205

Ion	Ratio	Lower	Upper
91	100		
106	45.0	34.6	52.0





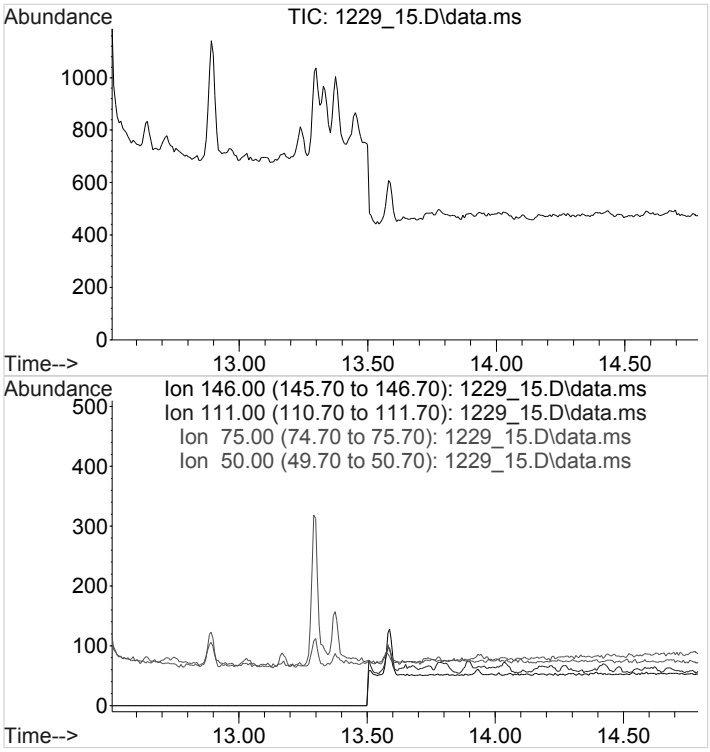
#31
1,1,2,2-Tetrachloroethane
Concen: N.D.
Expected RT: 12.58 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	63.8

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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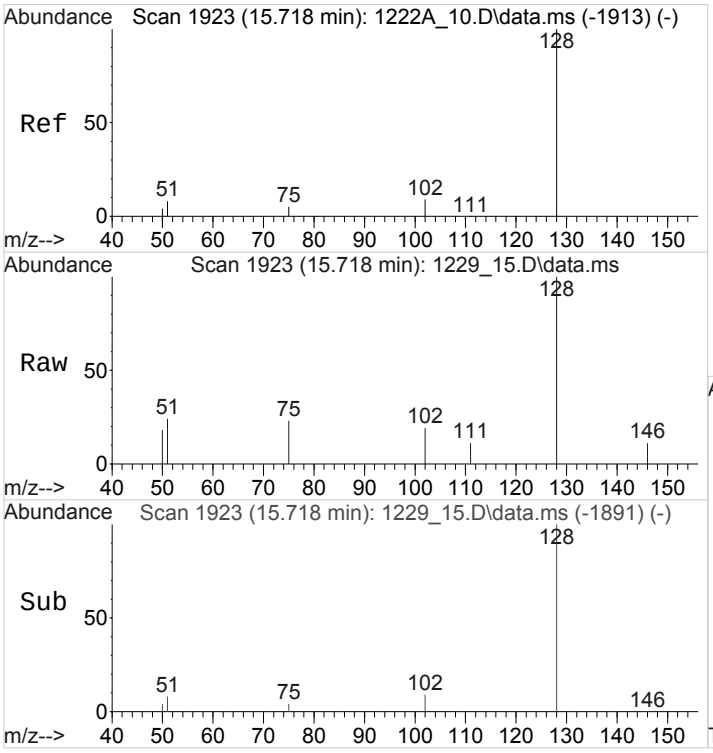


#33
1,4-Dichlorobenzene
Concen: N.D.
Expected RT: 13.59 min

Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion: 146

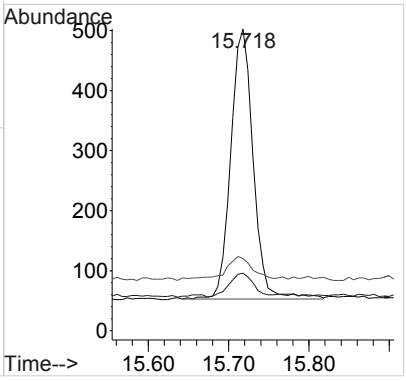
Sig	Exp Ratio
146	100
111	40.8
75	34.4
50	23.2



#34
Naphthalene
Concen: 0.0216280 ppbv
RT: 15.718 min Scan# 1923
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 6:36 pm

Tgt Ion:128 Resp: 873

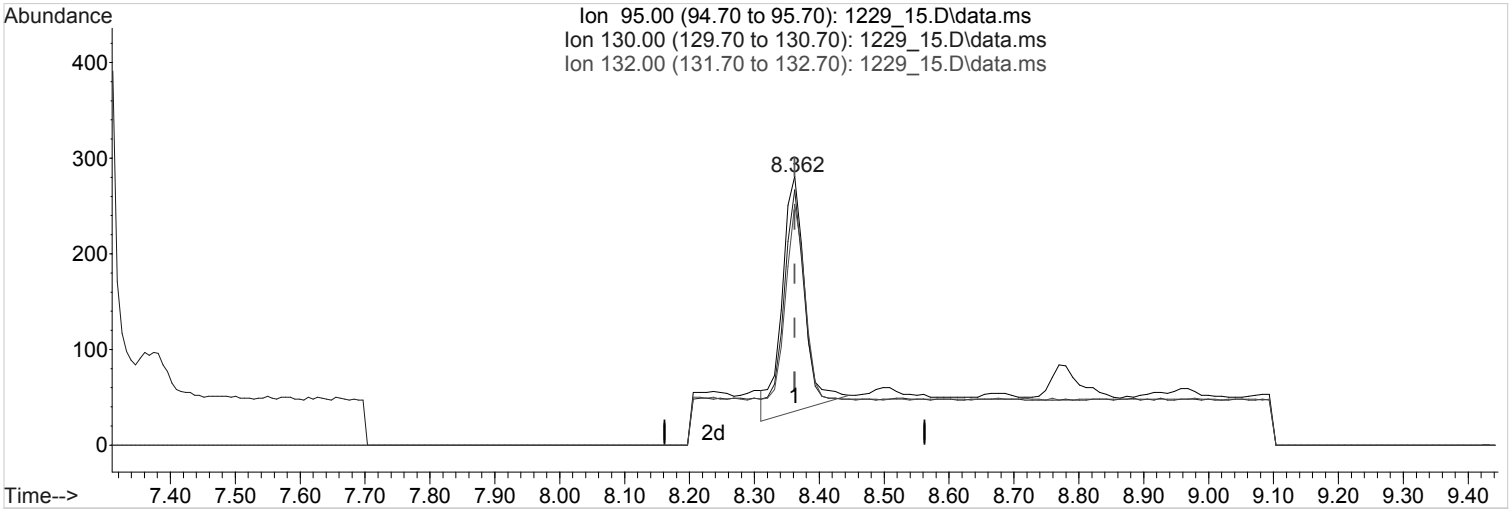
Ion	Ratio	Lower	Upper
128	100		
102	0.0	7.0	10.4#
51	0.0	6.9	10.3#

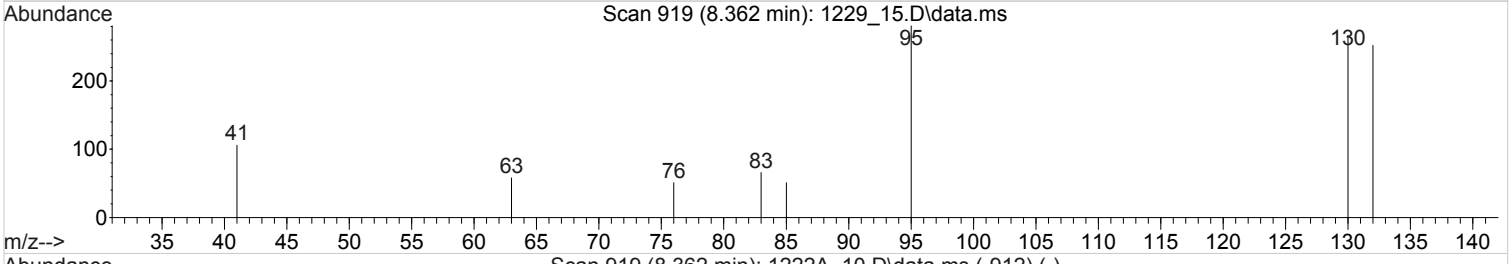


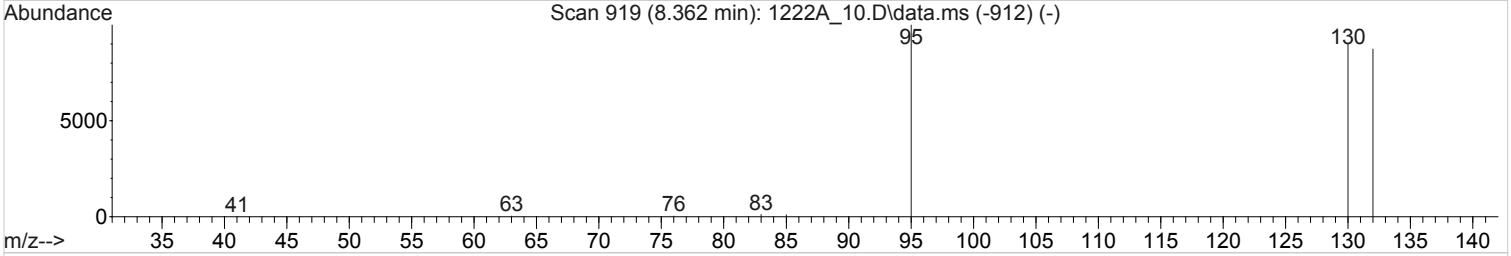
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_15.D
Acq On : 29 Dec 2022 6:36 pm
Operator :
Sample : L1570570-11 1x WG1980882
Misc :
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:19:26 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration







TIC: 1229_15.D\data.ms

(18) Trichloroethene (T,M)

8.362min (+0.000) 0.0324410 ppbv

Qvalue = 90

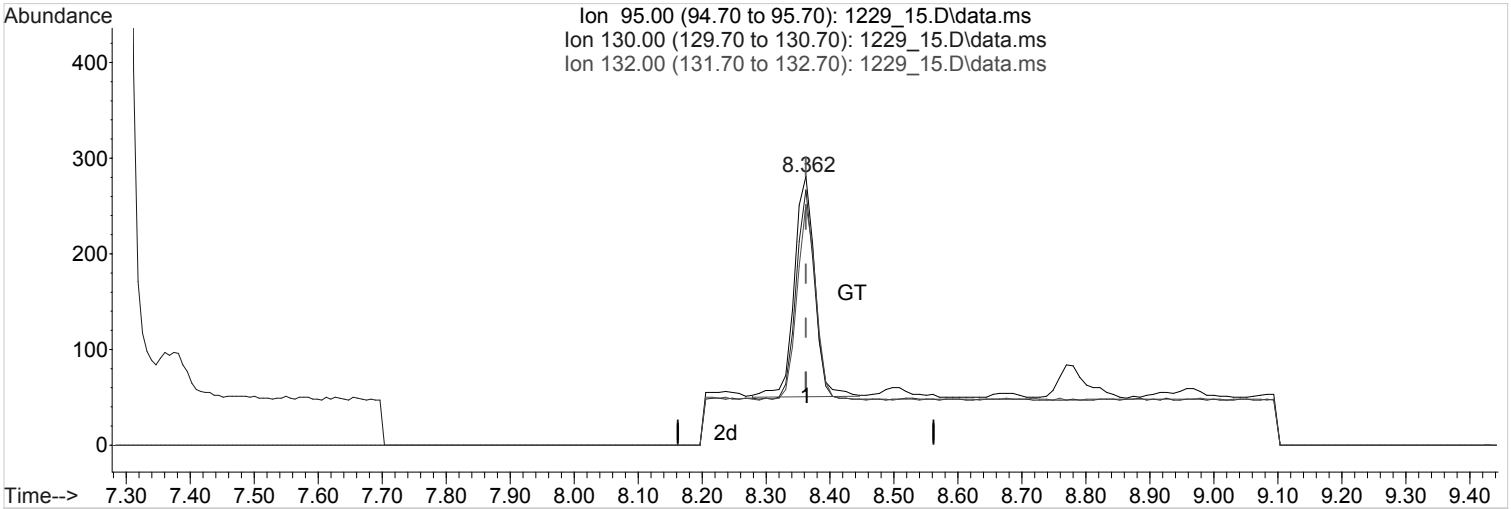
response 604 Limit = 0.0074600

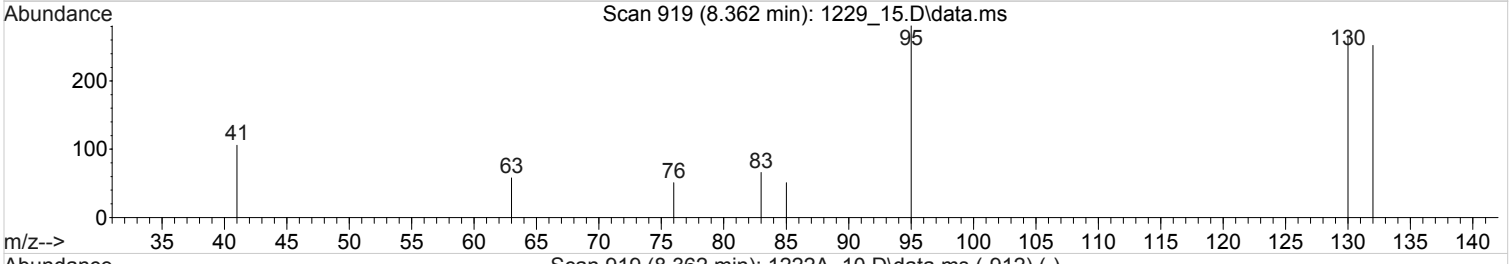
Ion	Exp%	Act%
95.00	100	100
130.00	91.20	72.35#
132.00	87.30	87.75
0.00	0.00	0.00

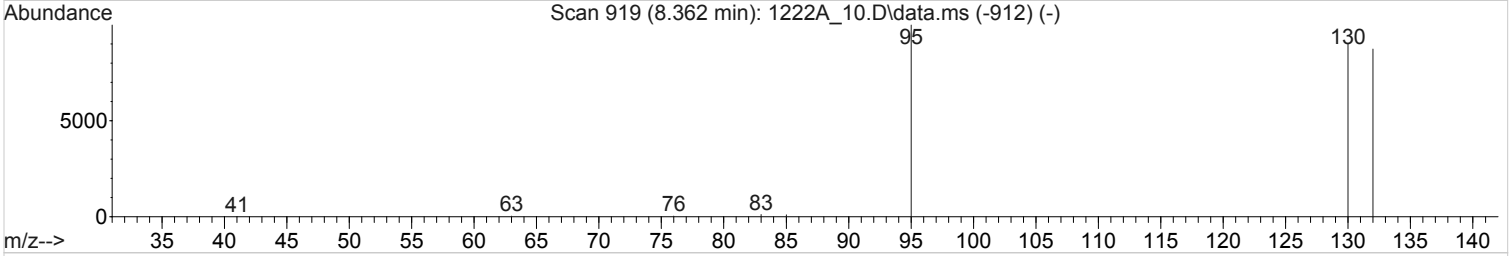
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_15.D
Acq On : 29 Dec 2022 6:36 pm
Operator :
Sample : L1570570-11 1x WG1980882
Misc :
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:19:26 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration







TIC: 1229_15.D\data.ms

(18) Trichloroethene (T,M)

8.362min (+0.000) 0.0277682 ppbv m

response 517 Limit = 0.0074600

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	84.53
132.00	87.30	102.51
0.00	0.00	0.00

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1570570 **Analytical Method:** TO-15-SIM

Instrument ID: AIRMS7

Analyte	**RRF: 0.02**	**RRF: 0.03**	**RRF: 0.06**	**RRF: 0.13**	**RRF: 0.25**	**RRF: 0.38**	**RRF: 0.5**	**RRF: 1.0**	**RRF: 5.0**	**RRF: 10.0**
Analysis date/time	12/22/22 18:41	12/22/22 19:20	12/22/22 19:58	12/22/22 20:35	12/22/22 21:15	12/22/22 21:55	12/22/22 22:37	12/22/22 23:14	12/22/22 23:56	12/23/22 00:43
VINYL CHLORIDE	0.5020	0.5390	0.5410	0.4930	0.4940	0.4830	0.4830	0.4860	0.4550	0.4430
1,1-DICHLOROETHENE	0.8980	0.9470	0.9620	0.8590	0.8920	0.8720	0.8970	0.9360	0.9610	0.9760
CIS-1,2-DICHLOROETHENE	0.4550	0.4990	0.5070	0.4460	0.4730	0.4690	0.4870	0.53	0.5710	0.5830
1,1,1-TRICHLOROETHANE	1.1380	1.25	1.2570	1.1080	1.15	1.12	1.1460	1.1970	1.1850	1.1850
CARBON TETRACHLORIDE	1.0330	1.1660	1.1990	1.0710	1.1810	1.0830	1.1040	1.16	1.1690	1.1680
BENZENE	0.6030	0.6070	0.5760	0.5140	0.5130	0.51	0.5230	0.4820	0.4850	0.4460
TRICHLOROETHENE	0.2230	0.2310	0.2310	0.20	0.1940	0.1850	0.1870	0.1920	0.1910	0.1870
TETRACHLOROETHENE	0.2290	0.2410	0.2460	0.2180	0.2220	0.2130	0.2170	0.2270	0.2310	0.2180
1,4-BROMOFLUOROBENZENE	0.62	0.6230	0.6270	0.6410	0.6530	0.66	0.6680	0.6770	0.6580	0.6770
File ID:	1222A_04	1222A_05	1222A_06	1222A_07	1222A_08	1222A_09	1222A_10	1222A_11	1222A_12	1222A_13

GC/MS INITIAL CALIBRATION DATA

SDG: L1570570 **Analytical Method:** TO-15-SIM

Instrument ID: AIRMS7

Analyte Analysis date/time	RRF. Avg	%RSD	COD
VINYL CHLORIDE	0.492002	6.33	
1,1-DICHLOROETHENE	0.920009	4.49	
CIS-1,2-DICHLOROETHENE	0.502157	9.31	
1,1,1-TRICHLOROETHANE	1.173654	4.34	
CARBON TETRACHLORIDE	1.133463	4.94	
BENZENE	0.525778	10.13	
TRICHLOROETHENE	0.201998	9.27	
TETRACHLOROETHENE	0.226213	4.76	
1,4-BROMOFLUOROBENZENE	0.65045	3.3	

Response Factor Report AIRMS7

Method Path : C:\msdchem\1\methods\
Method File : TOSIMMS7L22AV.M
Title : AIRMS5
Last Update : Fri Dec 23 09:26:44 2022
Response Via : Initial Calibration

Calibration Files
0.02=1222A_04.D 0.03=1222A_05.D 0.06=1222A_06.D 0.13=1222A_07.D 0.25=1222A_08.D 0.38=1222A_09.D 0.5 =1222A_10.D
1.0 =1222A_11.D 5.0 =1222A_12.D 10.0=1222A_13.D

		Compound	0.02	0.03	0.06	0.13	0.25	0.38	0.5	1.0	5.0	10.0	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------											
2)	T,M	Chloromethane	0.667	0.672	0.636	0.539	0.542	0.523	0.528	0.544	0.521	0.513	0.569	11.13
3)	T,M	Vinyl Chloride	0.502	0.539	0.541	0.493	0.494	0.483	0.483	0.486	0.455	0.443	0.492	6.33
4)	T,M	1,3-Butadiene	0.375	0.400	0.391	0.344	0.357	0.345	0.343	0.365	0.349	0.340	0.361	5.93
5)	T,M	Chloroethane	0.192	0.199	0.208	0.182	0.197	0.189	0.192	0.195	0.186	0.181	0.192	4.21
6)	T,M	1,1-Dichloroet...	0.898	0.947	0.962	0.859	0.892	0.872	0.897	0.936	0.961	0.976	0.920	4.49
7)	T,M	Methyl Tert-Bu...	1.022	1.082	1.095	0.970	1.020	1.055	1.064	1.111	1.275	1.352	1.105	10.76
8)	T,M	Trans-1,2-Dich...	0.788	0.873	0.935	0.823	0.873	0.840	0.856	0.903	0.929	0.947	0.877	5.93
9)	T,M	1,1-Dichloroet...	1.108	1.199	1.205	1.080	1.119	1.094	1.118	1.179	1.167	1.154	1.142	3.90
10)	T,M	Vinyl Acetate	1.765	1.956	1.966	1.777	1.867	1.813	1.903	2.149	2.373	2.450	2.002	12.17
11)	T,M	cis-1,2-Dichlo...	0.455	0.499	0.507	0.446	0.473	0.469	0.487	0.530	0.571	0.583	0.502	9.31
12)	T,M	Chloroform	1.166	1.219	1.234	1.104	1.134	1.097	1.125	1.175	1.147	1.141	1.154	3.92
13)	T,M	1,1,1-Trichlor...	1.138	1.250	1.257	1.108	1.150	1.120	1.146	1.197	1.185	1.185	1.174	4.34
14)	T,M	Carbon Tetrach...	1.033	1.166	1.199	1.071	1.181	1.083	1.104	1.160	1.169	1.168	1.133	4.94
15)	T,M	1,2-Dichloroet...	0.751	0.833	0.928	0.782	0.810	0.792	0.816	0.863	0.837	0.822	0.823	5.86
16)	I	1,4-Difluorobenzene	----------ISTD----------											
17)	T,M	Benzene	0.603	0.607	0.576	0.514	0.513	0.510	0.523	0.482	0.485	0.446	0.526	10.13
18)	T,M	Trichloroethene	0.223	0.231	0.231	0.200	0.194	0.185	0.187	0.192	0.191	0.187	0.202	9.27
19)	T,M	1,2-Dichloropr...	0.189	0.207	0.209	0.188	0.190	0.184	0.188	0.199	0.197	0.184	0.193	4.66
20)	T,M	Bromodichlorom...	0.348	0.379	0.393	0.345	0.349	0.333	0.335	0.347	0.341	0.318	0.349	6.31
21)	T,M	cis-1,3-Dichlo...	0.203	0.228	0.234	0.206	0.209	0.203	0.207	0.223	0.247	0.252	0.221	8.36
22)	T,M	Toluene	0.426	0.444	0.442	0.399	0.424	0.430	0.453	0.502	0.549	0.521	0.459	10.52
23)	T,M	trans-1,3-Dich...	0.193	0.203	0.213	0.187	0.193	0.190	0.195	0.218	0.240	0.239	0.207	9.54
24)	T,M	1,1,2-Trichlor...	0.203	0.222	0.223	0.202	0.201	0.192	0.195	0.202	0.198	0.183	0.202	6.20
25)	T,M	Tetrachloroethene	0.229	0.241	0.246	0.218	0.222	0.213	0.217	0.227	0.231	0.218	0.226	4.76
26)	T,M	1,2-Dibromoethane	0.258	0.279	0.300	0.259	0.263	0.255	0.260	0.280	0.292	0.283	0.273	5.83
27)	I	Chlorobenzene-d5	----------ISTD----------											
28)	T,M	Ethylbenzene	0.464	0.509	0.520	0.478	0.518	0.524	0.560	0.640	0.673	0.679	0.556	14.19
29)	T,M	M&P-Xylene	0.320	0.350	0.360	0.332	0.364	0.374	0.402	0.472	0.525	0.533	0.403	19.46
30)	T,M	O-Xylene	0.304	0.336	0.343	0.312	0.334	0.333	0.349	0.385	0.469	0.511	0.368	18.71
31)	T,M	1,1,2,2-Tetrac...	0.508	0.549	0.574	0.521	0.516	0.491	0.496	0.489	0.442	0.440	0.503	8.35
32)	S	1,4-Bromofluor...	0.620	0.623	0.627	0.641	0.653	0.660	0.668	0.677	0.658	0.677	0.650	3.30
33)	T,M	1,4-Dichlorobe...	0.281	0.299	0.343	0.329	0.360	0.382	0.403	0.442	0.437	0.433	0.371	15.64
34)	T,M	Naphthalene	0.321	0.337	0.371	0.362	0.391	0.413	0.437	0.535	0.773	0.850	0.479	38.84

(#) = Out of Range

BHATE Environmental - Birmingham
MSC2021.0012
L1570570
02/27/23 16:10
PA
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:09:14 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration

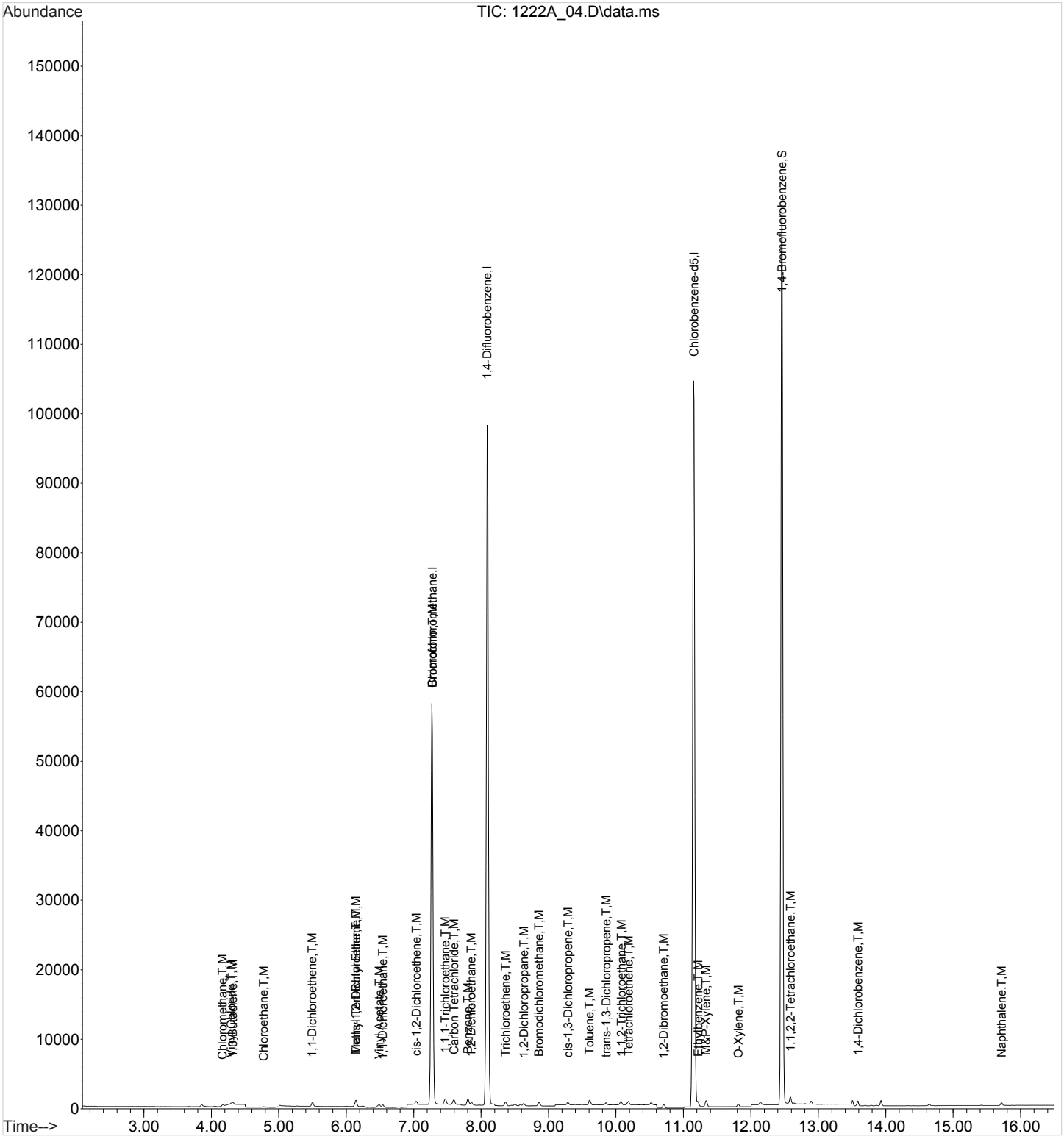
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	38711	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	130279	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.156	117	117699	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.463	95	72954	1.1604987	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 92.84%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	413	0.0252367	ppbv #	84
3) Vinyl Chloride	4.293	62	311m	0.0207772	ppbv	
4) 1,3-Butadiene	4.316	39	232m	0.0210145	ppbv	
5) Chloroethane	4.774	64	119m	0.0200397	ppbv	
6) 1,1-Dichloroethene	5.495	61	556	0.0199760	ppbv	98
7) Methyl Tert-Butyl Ether	6.144	73	633	0.0192124	ppbv #	48
8) Trans-1,2-Dichloroethene	6.144	61	488	0.0184140	ppbv	96
9) 1,1-Dichloroethane	6.541	63	686	0.0198150	ppbv #	69
10) Vinyl Acetate	6.489	43	1093	0.0185470	ppbv #	88
11) cis-1,2-Dichloroethene	7.038	96	282	0.0187129	ppbv	97
12) Chloroform	7.276	83	722	0.0207272	ppbv	96
13) 1,1,1-Trichloroethane	7.465	97	705	0.0198664	ppbv	99
14) Carbon Tetrachloride	7.599	117	640	0.0187135	ppbv	97
15) 1,2-Dichloroethane	7.853	62	465	0.0183929	ppbv #	47
17) Benzene	7.801	78	1256	0.0230485	ppbv	94
18) Trichloroethene	8.362	95	465m	0.0238932	ppbv	
19) 1,2-Dichloropropane	8.634	63	395	0.0201667	ppbv	97
20) Bromodichloromethane	8.853	83	726	0.0207790	ppbv	98
21) cis-1,3-Dichloropropene	9.287	75	424	0.0196576	ppbv #	87
22) Toluene	9.606	91	889	0.0188187	ppbv	100
23) trans-1,3-Dichloropropene	9.857	75	403	0.0198029	ppbv #	84
24) 1,1,2-Trichloroethane	10.079	97	424	0.0208679	ppbv	99
25) Tetrachloroethene	10.185	166	477	0.0211006	ppbv	99
26) 1,2-Dibromoethane	10.708	107	538	0.0198705	ppbv	98
28) Ethylbenzene	11.216	91	874	0.0165803	ppbv	100
29) M&P-Xylene	11.336	91	1206	0.0318049	ppbv	100
30) O-Xylene	11.815	91	573	0.0174500	ppbv	99
31) 1,1,2,2-Tetrachloroethane	12.588	83	956	0.0204669	ppbv	98
33) 1,4-Dichlorobenzene	13.588	146	529	0.0139428	ppbv #	87
34) Naphthalene	15.718	128	604	0.0146885	ppbv #	76

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

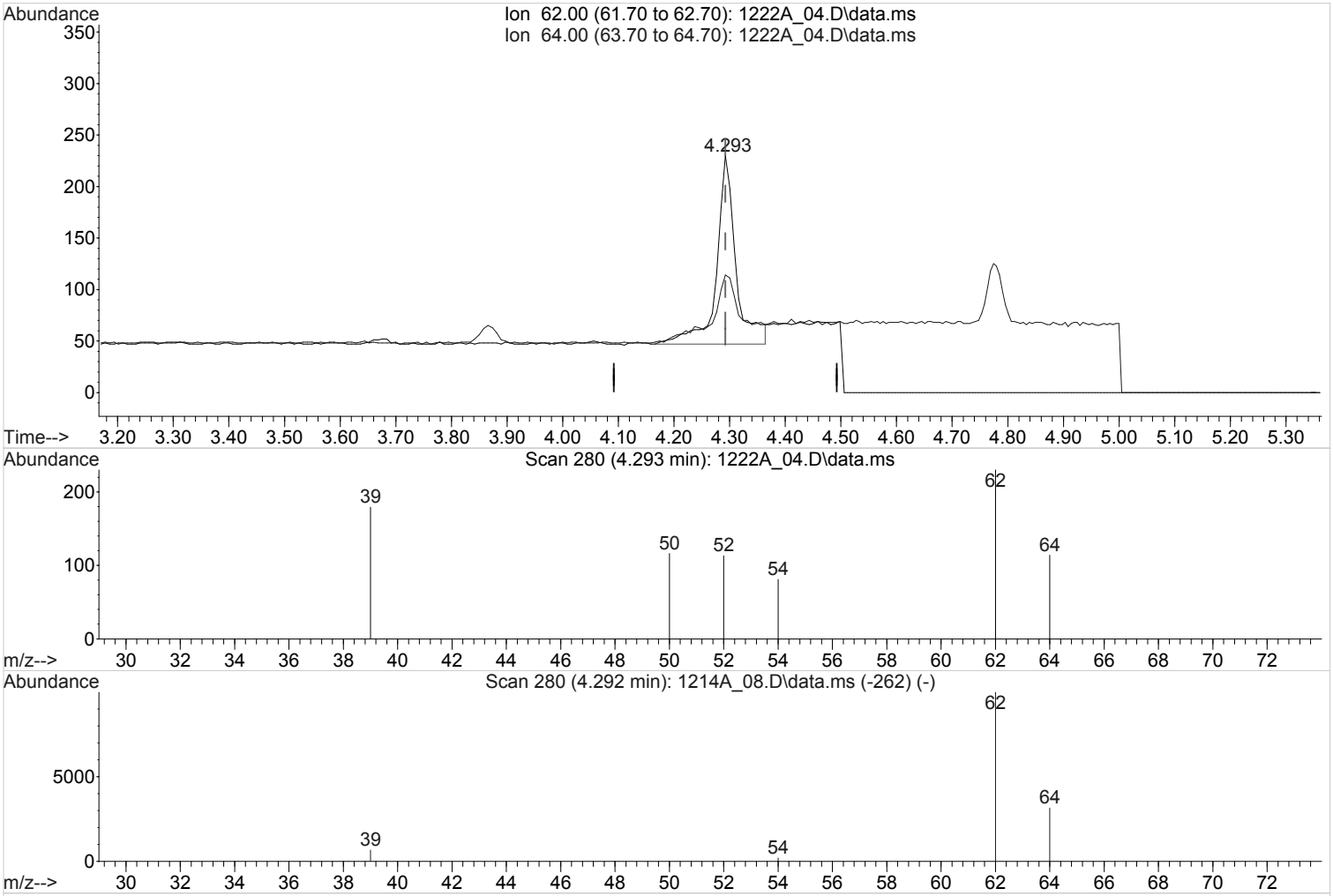
Quant Time: Dec 23 09:09:14 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration



TIC: 1222A_04.D\data.ms

(3) Vinyl Chloride (T,M)

4.293min (+0.000) 0.0297294 ppbv

Qvalue = 66

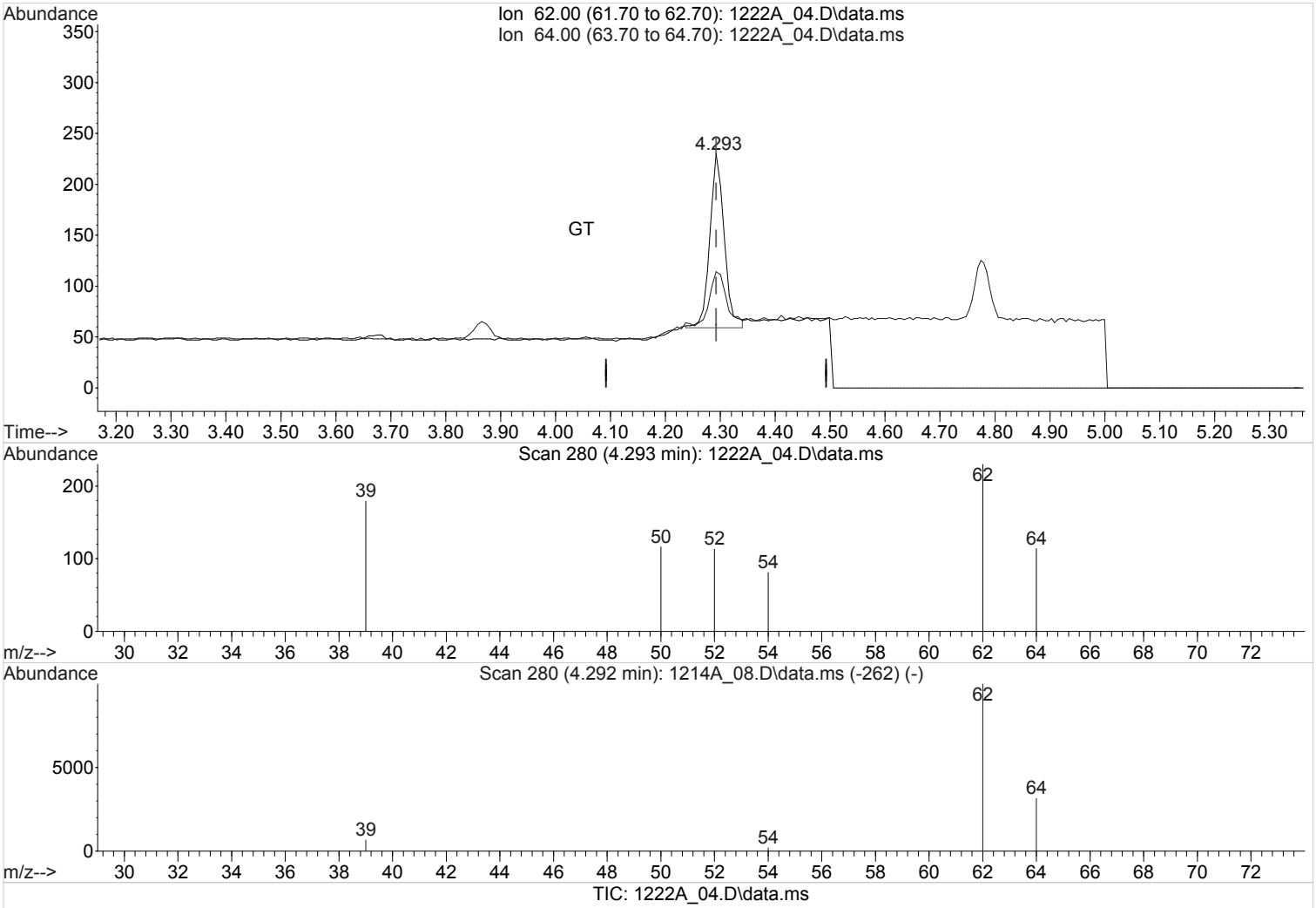
response 445

Ion	Exp%	Act%
62.00	100	100
64.00	33.30	52.81#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration



TIC: 1222A_04.D\data.ms

(3) Vinyl Chloride (T,M)

4.293min (+0.000) 0.0207772 ppbv m

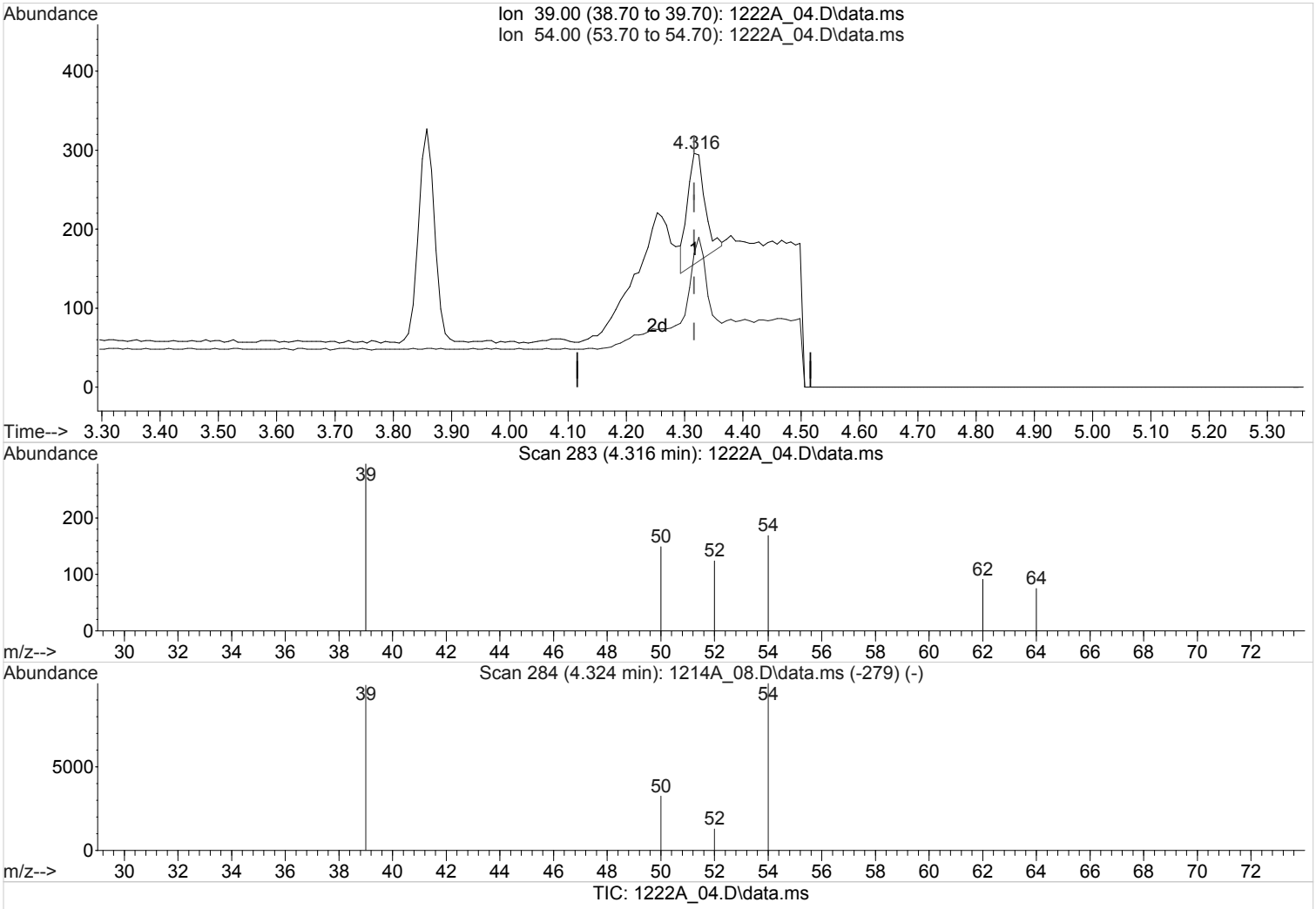
response 311

Ion	Exp%	Act%
62.00	100	100
64.00	33.30	75.56#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration



TIC: 1222A_04.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.0263587 ppbv

Qvalue = 76

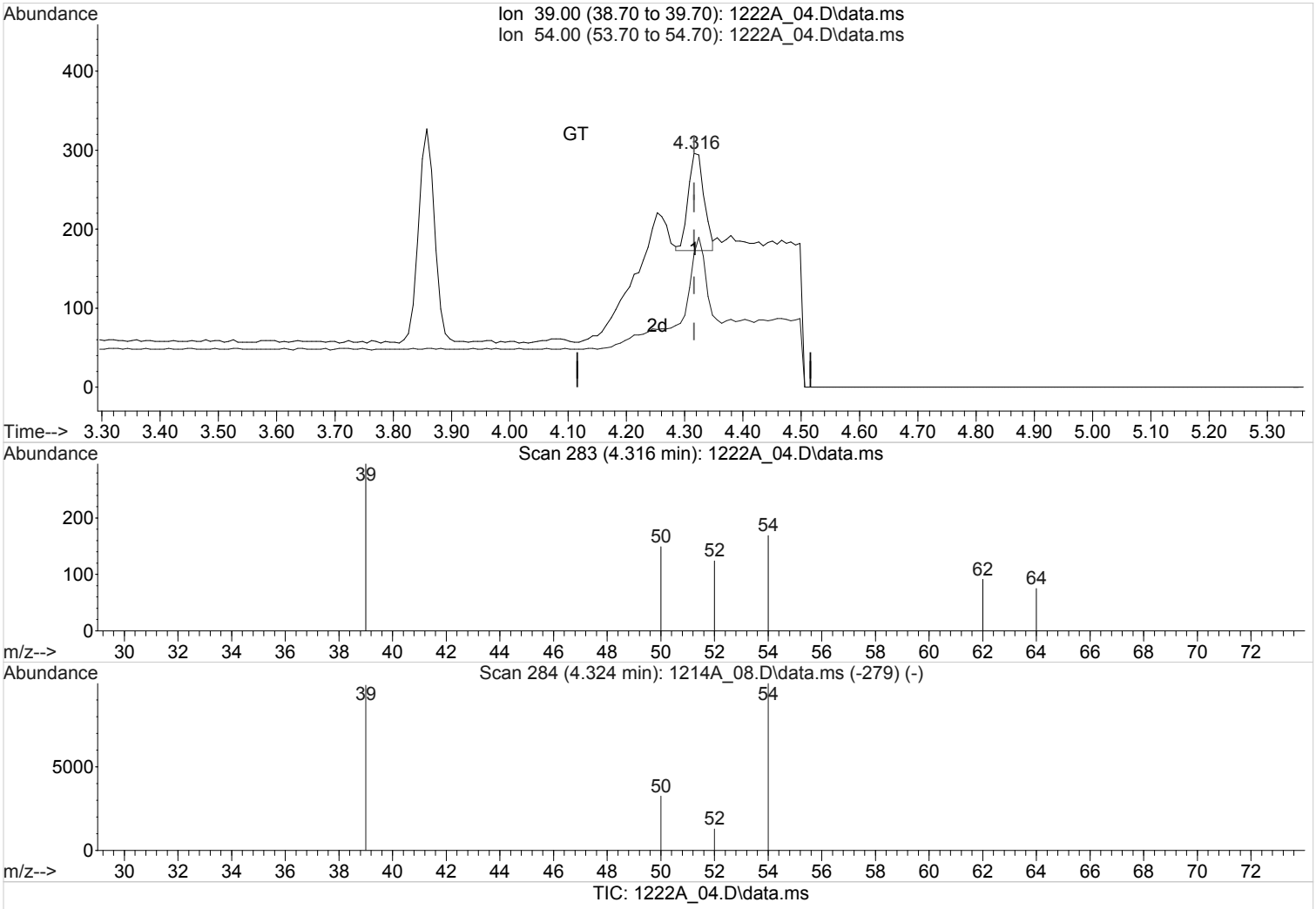
response 291

Ion	Exp%	Act%
39.00	100	100
54.00	90.30	67.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration



TIC: 1222A_04.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.0210145 ppbv m

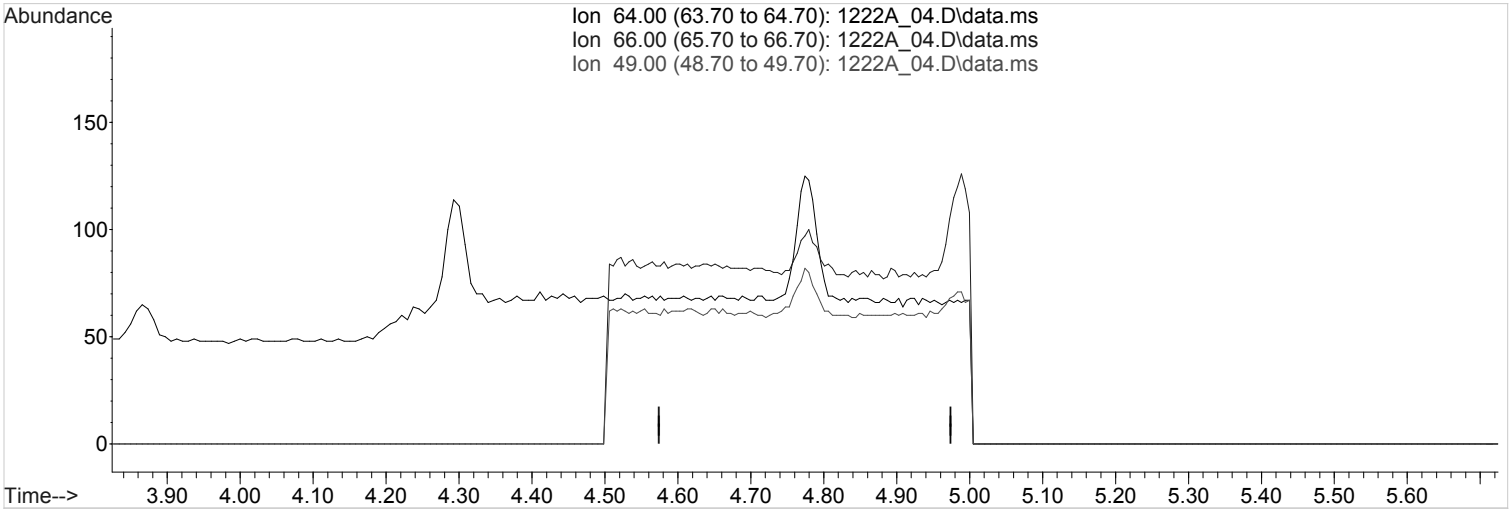
response 232

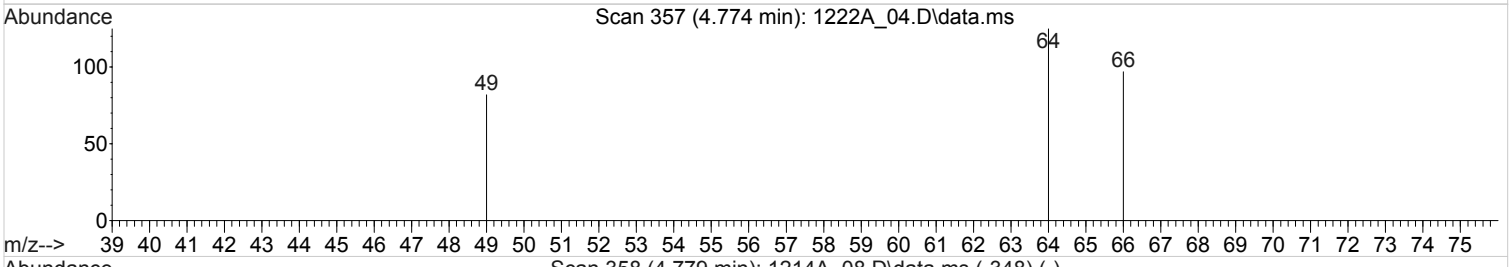
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	84.91
0.00	0.00	0.00
0.00	0.00	0.00

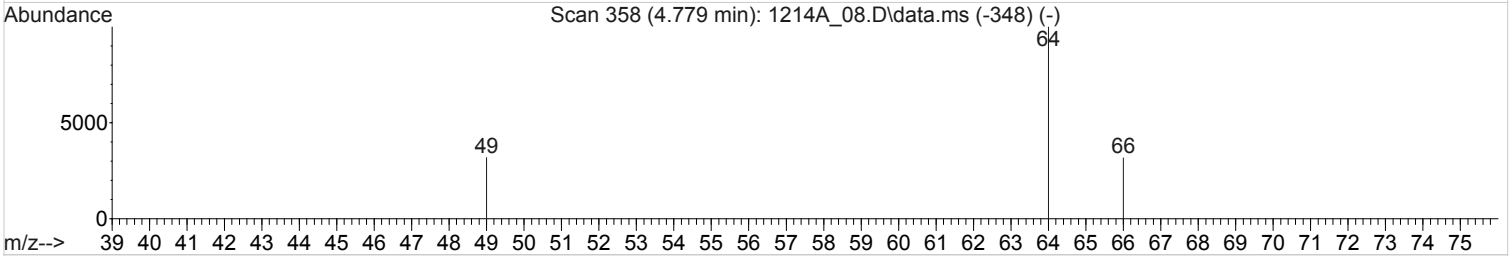
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration







TIC: 1222A_04.D\data.ms

(5) Chloroethane (T,M)

4.774min (-4.774) 0.0000000 ppbv

Qvalue = 0

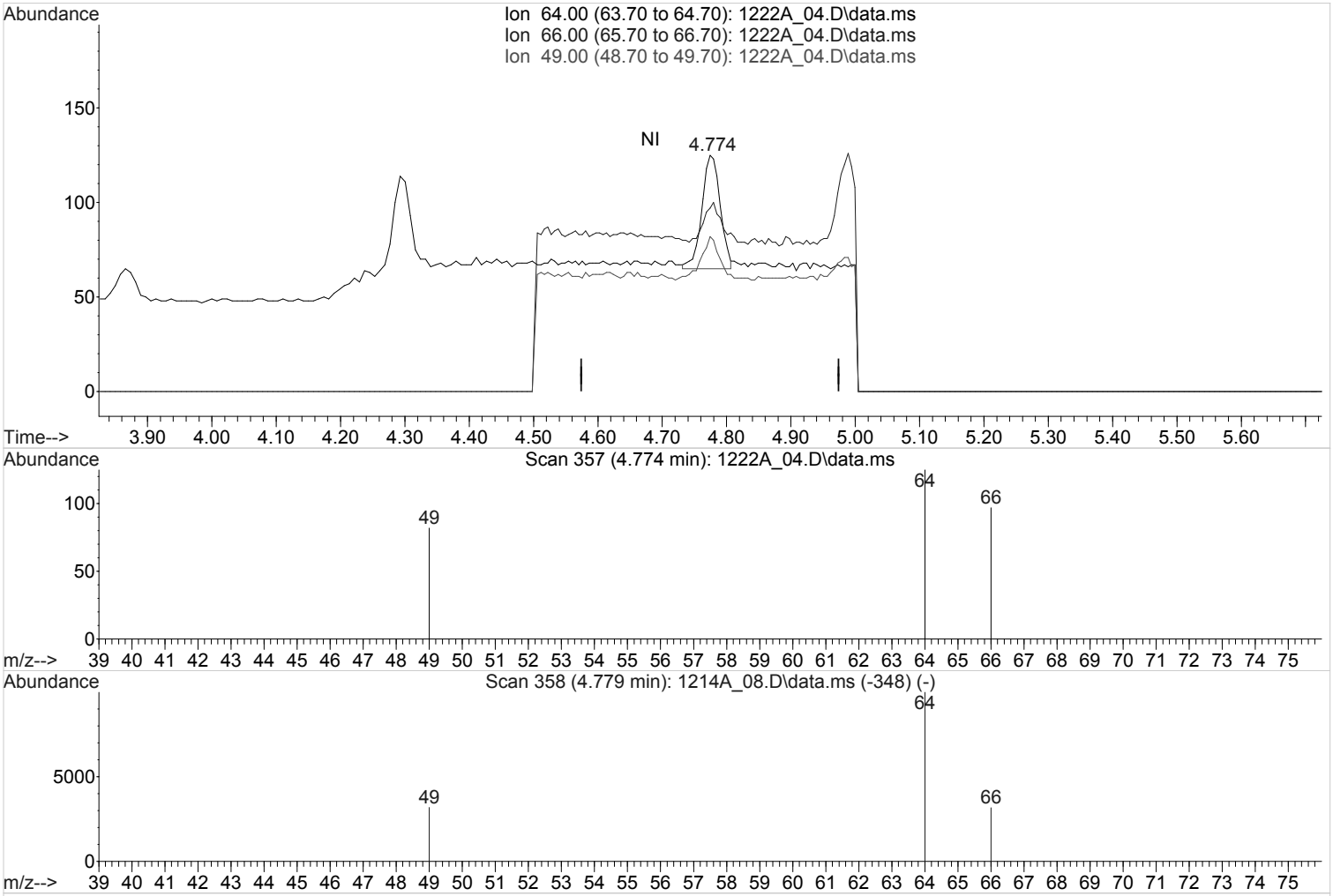
response 0

Ion	Exp%	Act%
64.00	100	0.00
66.00	32.20	0.00#
49.00	33.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration



TIC: 1222A_04.D\data.ms

(5) Chloroethane (T,M)

4.774min (+0.000) 0.0200397 ppbv m

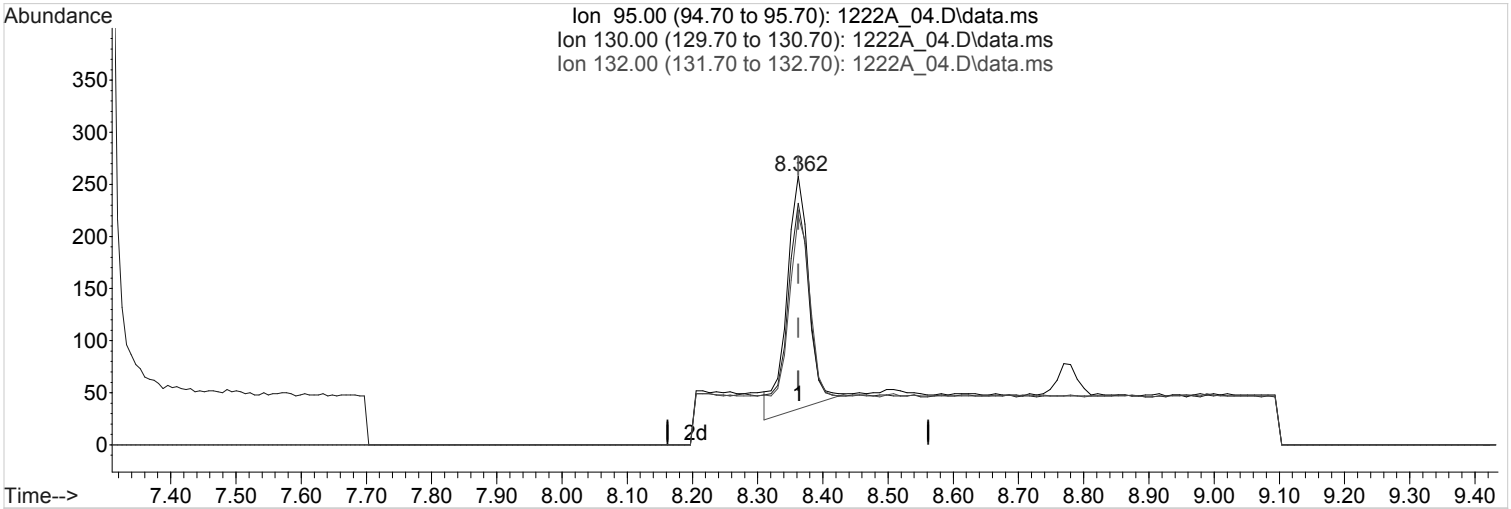
response 119

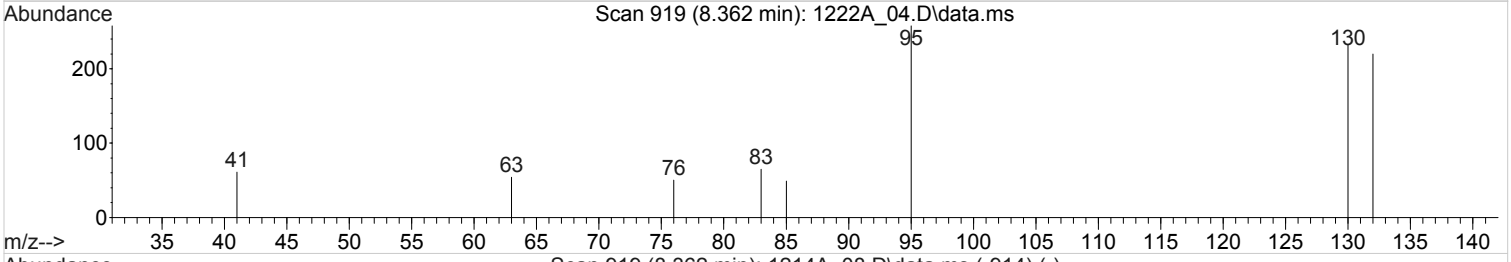
Ion	Exp%	Act%
64.00	100	100
66.00	32.20	0.00#
49.00	33.80	0.00#
0.00	0.00	0.00

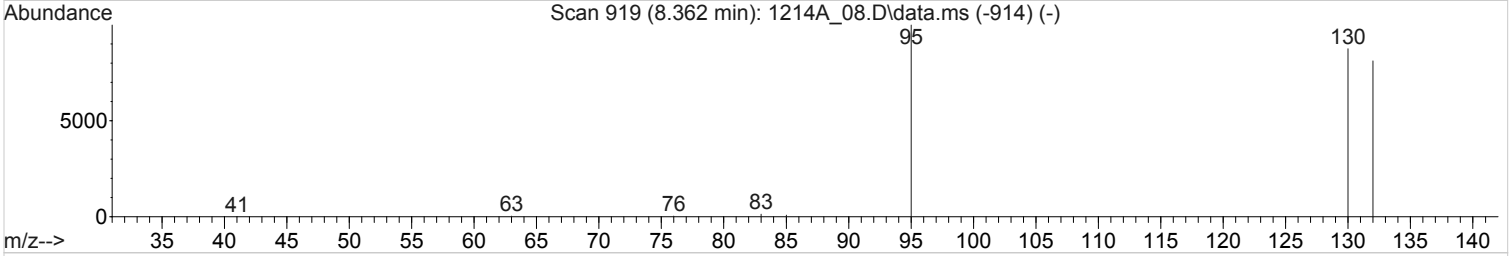
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration







TIC: 1222A_04.D\data.ms

(18) Trichloroethene (T,M)

8.362min (+0.000) 0.0271303 ppbv

Qvalue = 95

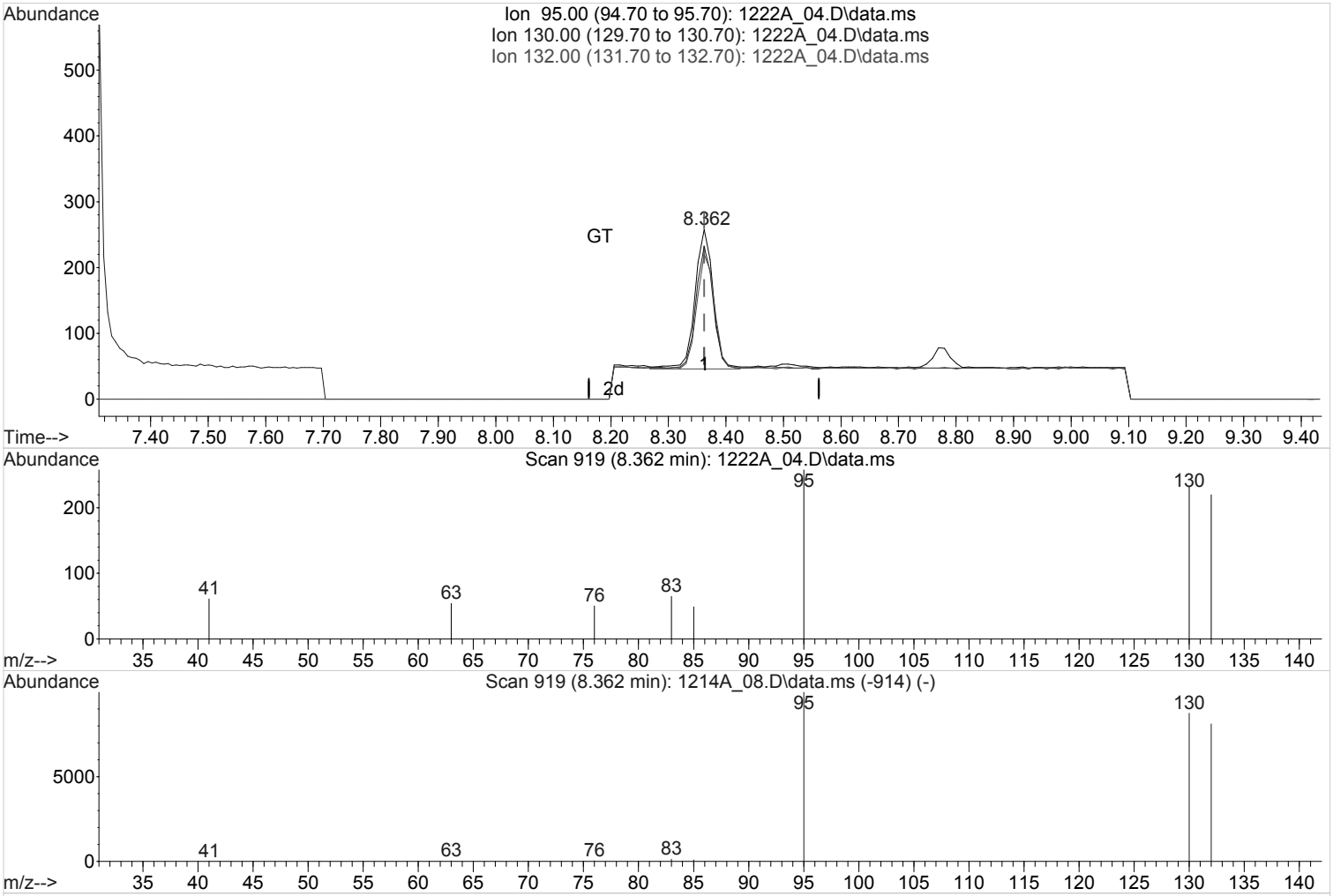
response 528

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	85.98
132.00	87.30	83.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration



TIC: 1222A_04.D\data.ms

(18) Trichloroethene (T,M)

8.362min (+0.000) 0.0238932 ppbv m

response 465

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	97.63
132.00	87.30	94.41
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:13 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration

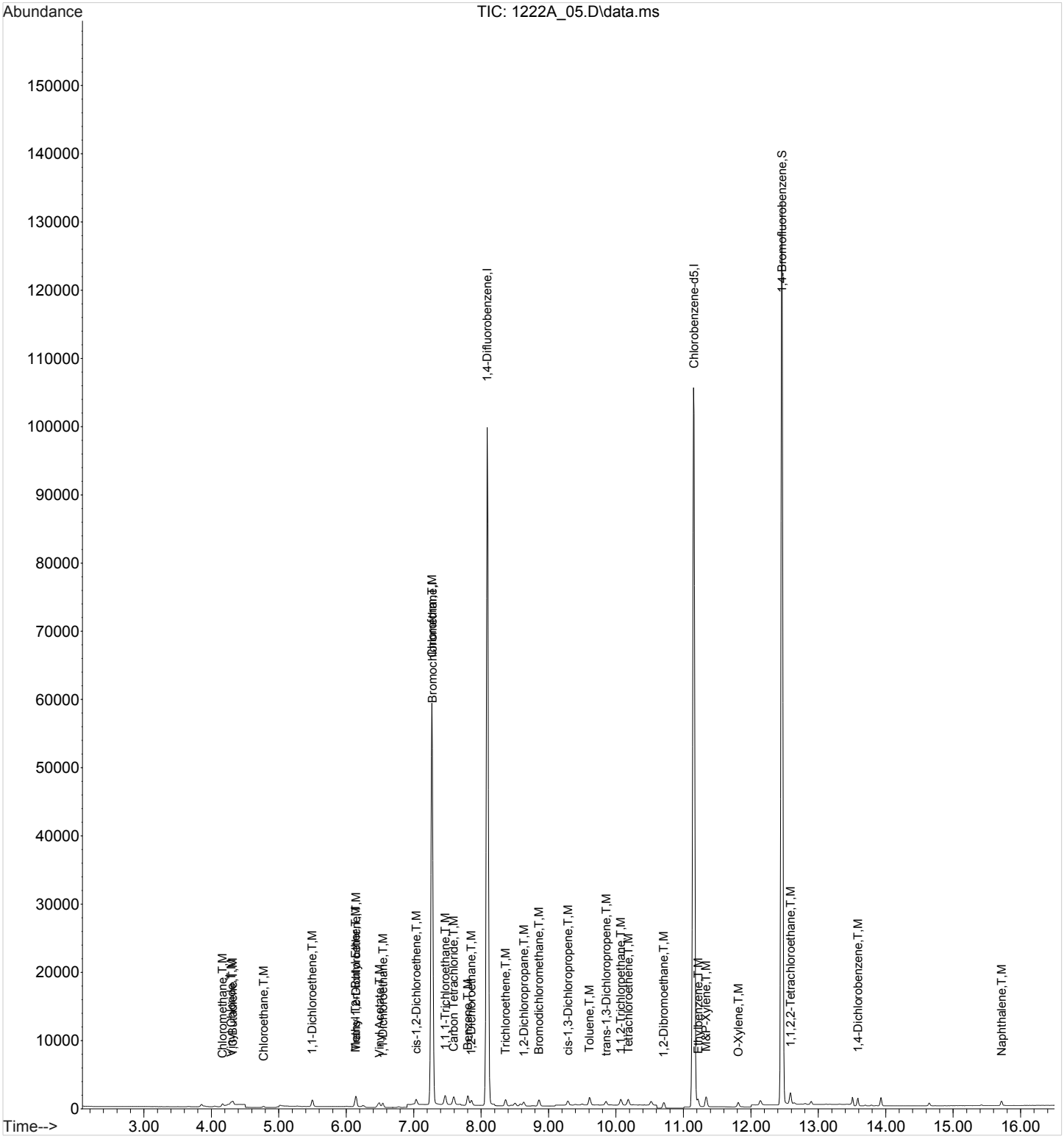
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	39080	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	131327	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.156	117	118611	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.463	95	73936	1.2104097	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 96.83%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	630	0.0337188	ppbv #	85
3) Vinyl Chloride	4.293	62	506m	0.0328473	ppbv	
4) 1,3-Butadiene	4.316	39	375m	0.0328144	ppbv	
5) Chloroethane	4.774	64	187	0.0311627	ppbv #	42
6) 1,1-Dichloroethene	5.495	61	888	0.0316218	ppbv	96
7) Methyl Tert-Butyl Ether	6.136	73	1015	0.0311287	ppbv #	79
8) Trans-1,2-Dichloroethene	6.144	61	819	0.0318759	ppbv	100
9) 1,1-Dichloroethane	6.544	63	1125	0.0323382	ppbv #	69
10) Vinyl Acetate	6.492	43	1835	0.0320066	ppbv #	88
11) cis-1,2-Dichloroethene	7.038	96	468	0.0317850	ppbv #	81
12) Chloroform	7.269	83	1143	0.0319231	ppbv	99
13) 1,1,1-Trichloroethane	7.465	97	1172	0.0328239	ppbv	99
14) Carbon Tetrachloride	7.592	117	1094	0.0327393	ppbv	97
15) 1,2-Dichloroethane	7.853	62	781	0.0318814	ppbv	97
17) Benzene	7.801	78	1913	0.0323587	ppbv #	90
18) Trichloroethene	8.362	95	728m	0.0338170	ppbv	
19) 1,2-Dichloropropane	8.634	63	654	0.0329860	ppbv	94
20) Bromodichloromethane	8.853	83	1196	0.0333091	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	720	0.0334003	ppbv	99
22) Toluene	9.606	91	1398	0.0302507	ppbv	99
23) trans-1,3-Dichloropropene	9.857	75	639	0.0313033	ppbv #	85
24) 1,1,2-Trichloroethane	10.069	97	701	0.0334987	ppbv	99
25) Tetrachloroethene	10.185	166	760	0.0324580	ppbv	99
26) 1,2-Dibromoethane	10.708	107	878	0.0322738	ppbv	100
28) Ethylbenzene	11.216	91	1448	0.0298064	ppbv	100
29) M&P-Xylene	11.336	91	1990	0.0580207	ppbv	99
30) O-Xylene	11.815	91	956	0.0308571	ppbv	99
31) 1,1,2,2-Tetrachloroethane	12.588	83	1563	0.0328217	ppbv	97
33) 1,4-Dichlorobenzene	13.588	146	852	0.0262599	ppbv	99
34) Naphthalene	15.718	128	959	0.0266858	ppbv #	76

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

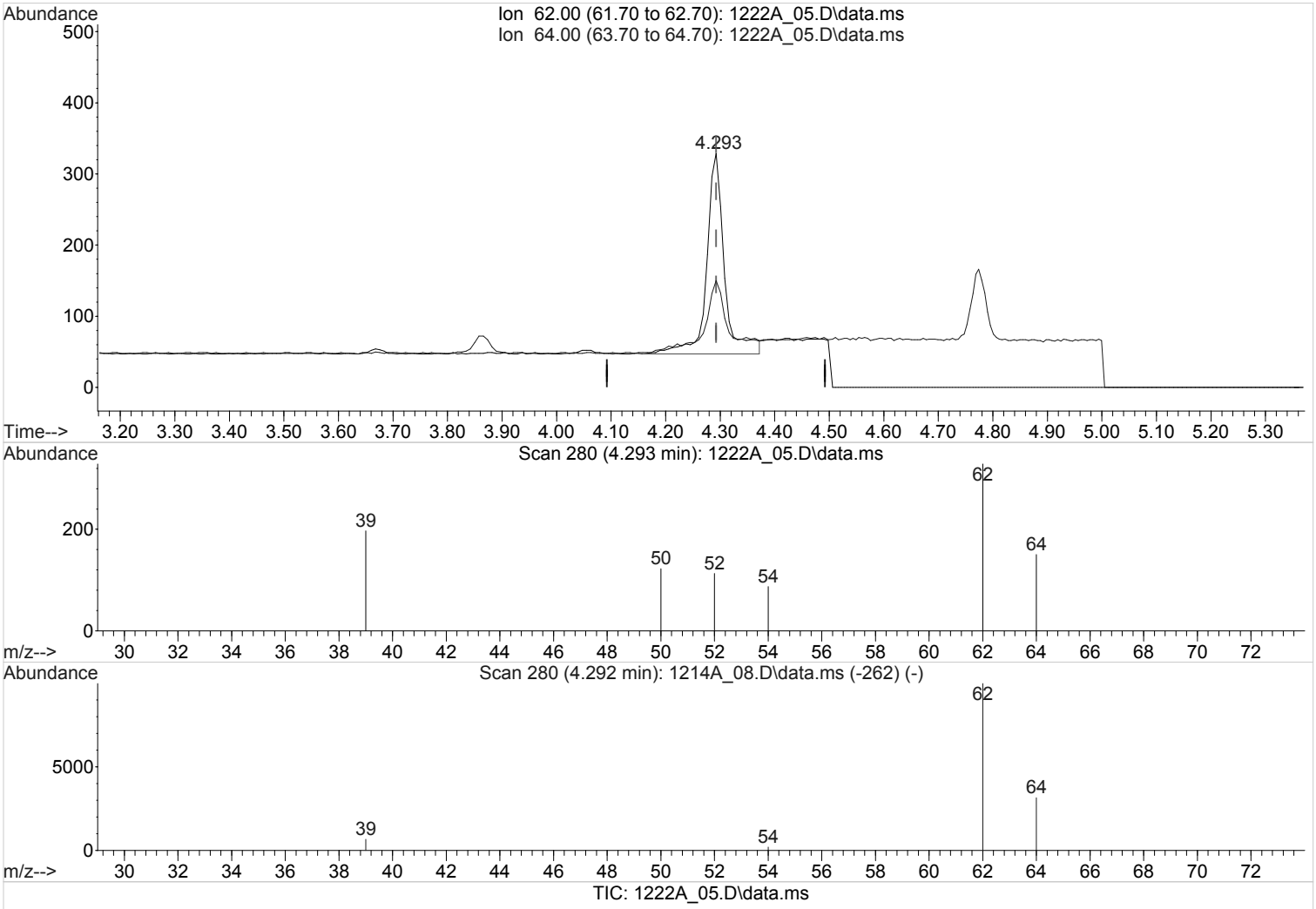
Quant Time: Dec 23 09:12:13 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:10:53 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration



TIC: 1222A_05.D\data.ms

(3) Vinyl Chloride (T,M)

4.293min (+0.000) 0.0414811 ppbv

Qvalue = 81

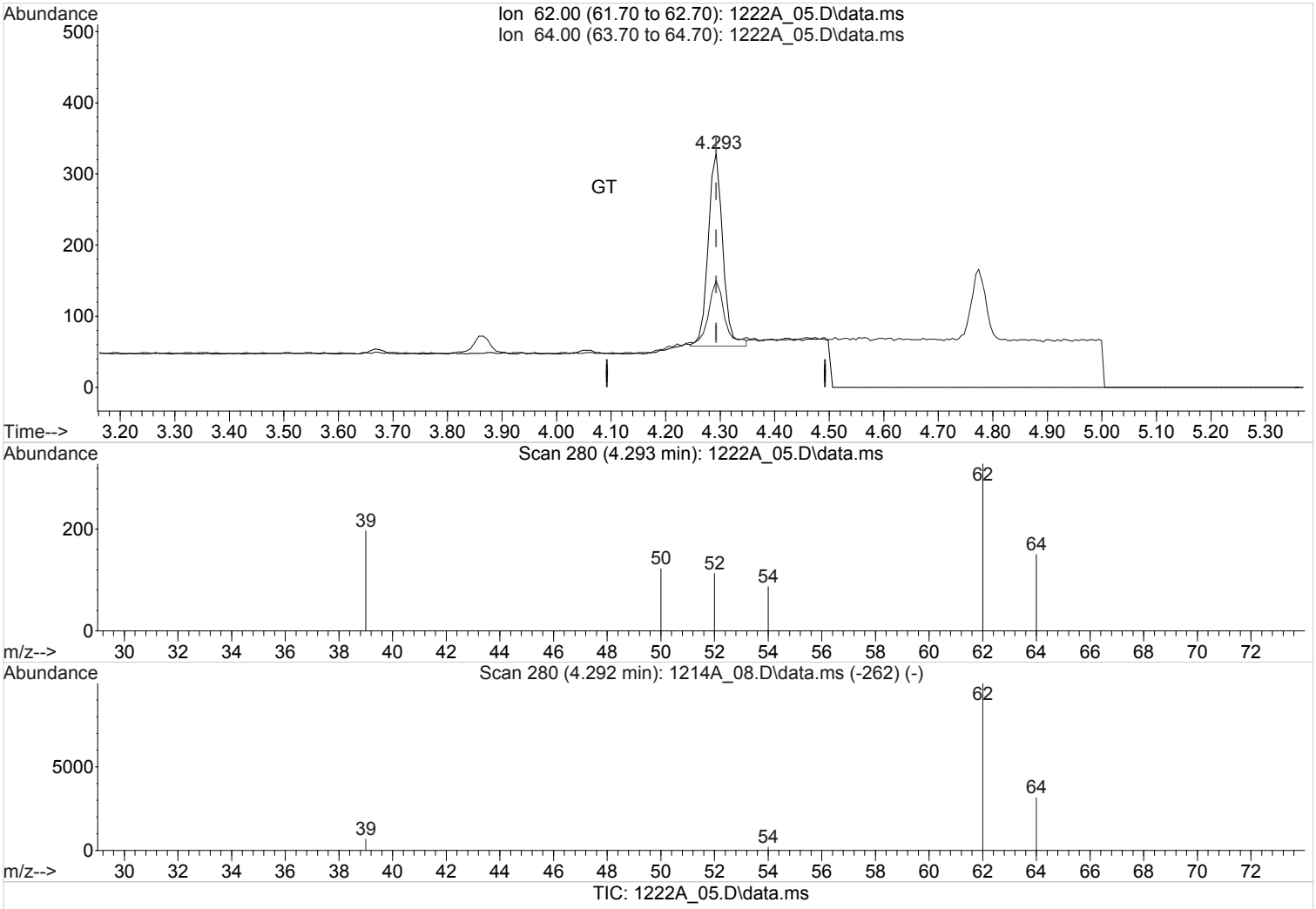
response 639

Ion	Exp%	Act%
62.00	100	100
64.00	33.30	43.82#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:10:53 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration



TIC: 1222A_05.D\data.ms

(3) Vinyl Chloride (T,M)

4.293min (+0.000) 0.0328473 ppbv m

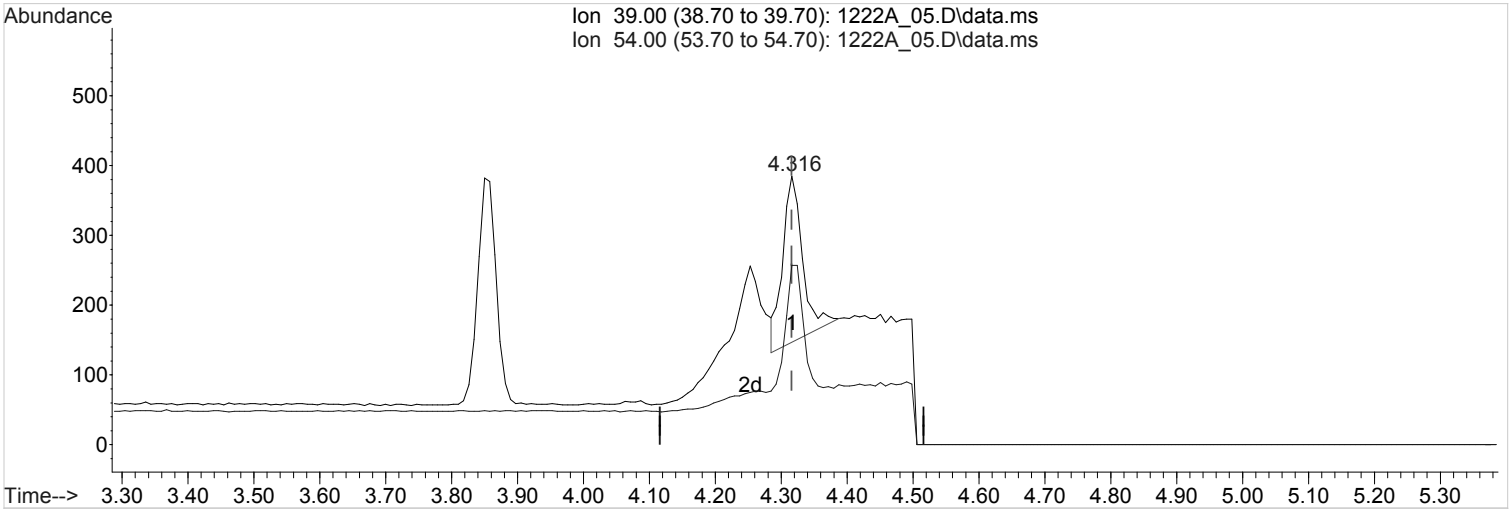
response 506

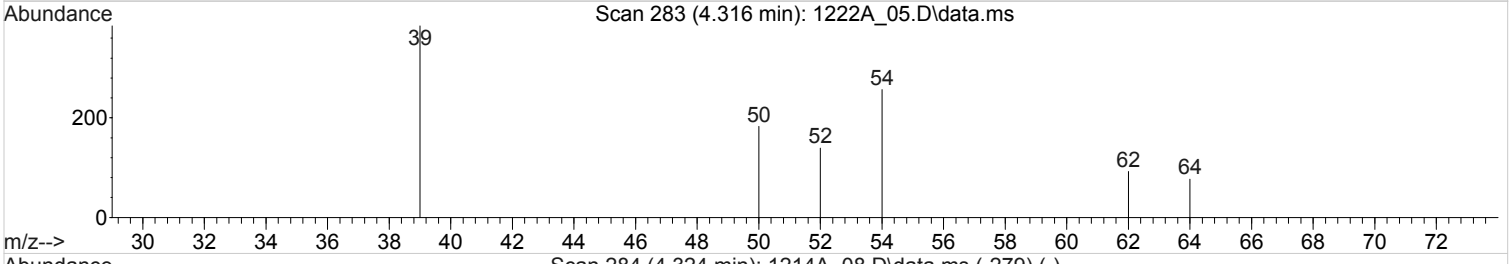
Ion	Exp%	Act%
62.00	100	100
64.00	33.30	55.34#
0.00	0.00	0.00
0.00	0.00	0.00

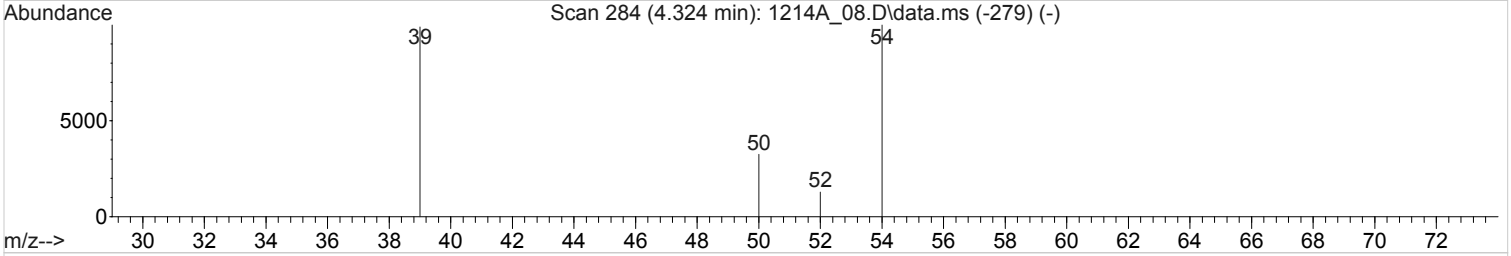
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:10:53 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration







TIC: 1222A_05.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.0439276 ppbv

Qvalue = 77

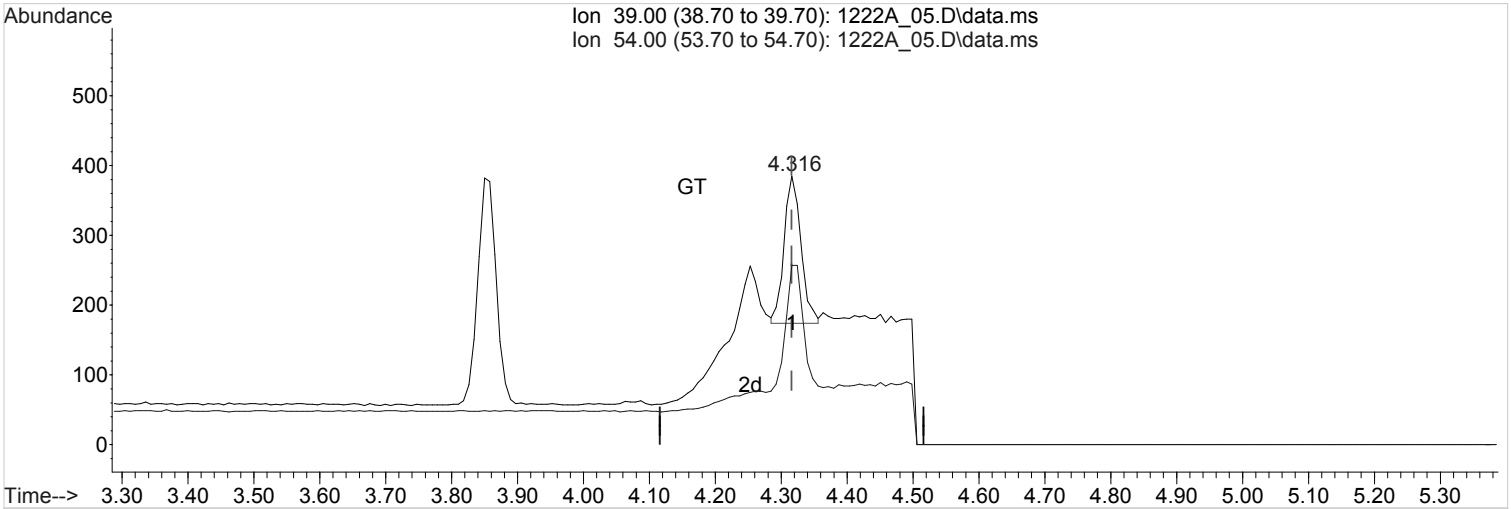
response 502

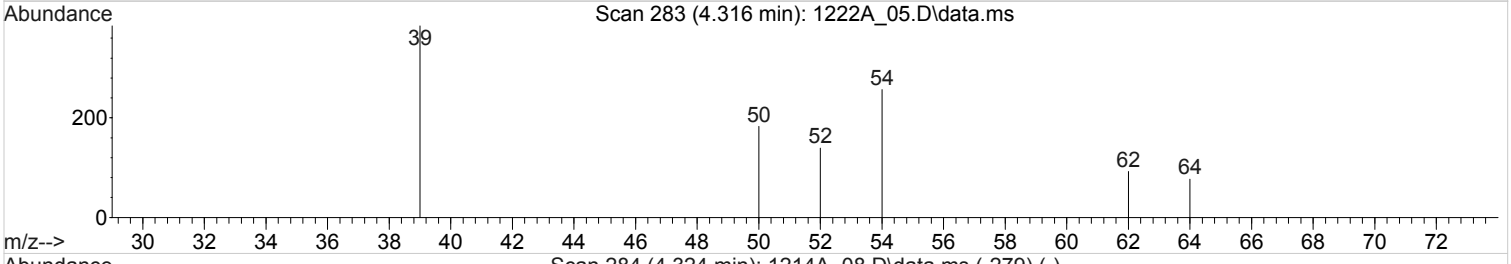
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	68.13#
0.00	0.00	0.00
0.00	0.00	0.00

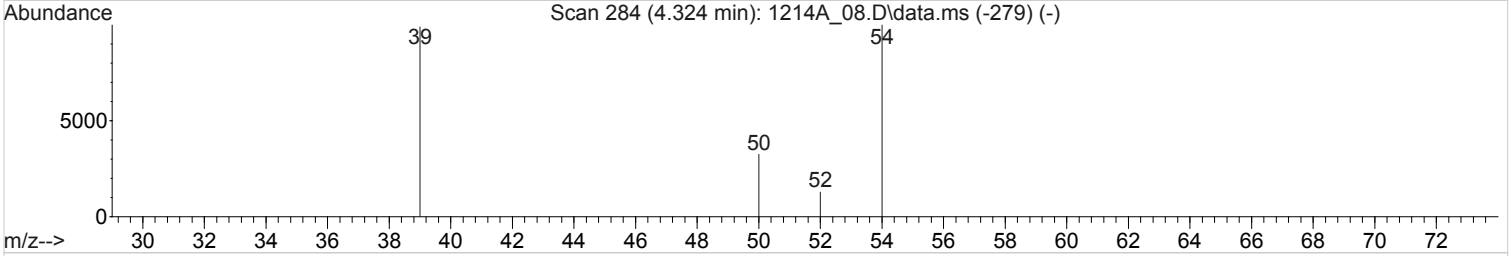
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:10:53 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration







TIC: 1222A_05.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.0328144 ppbv m

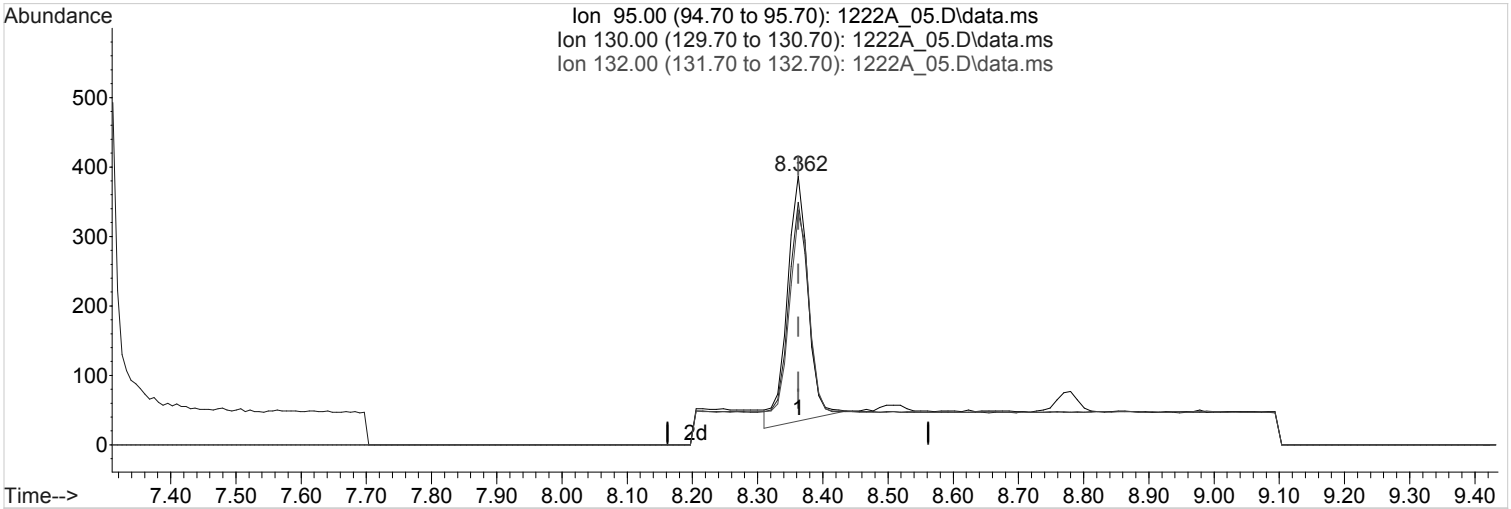
response 375

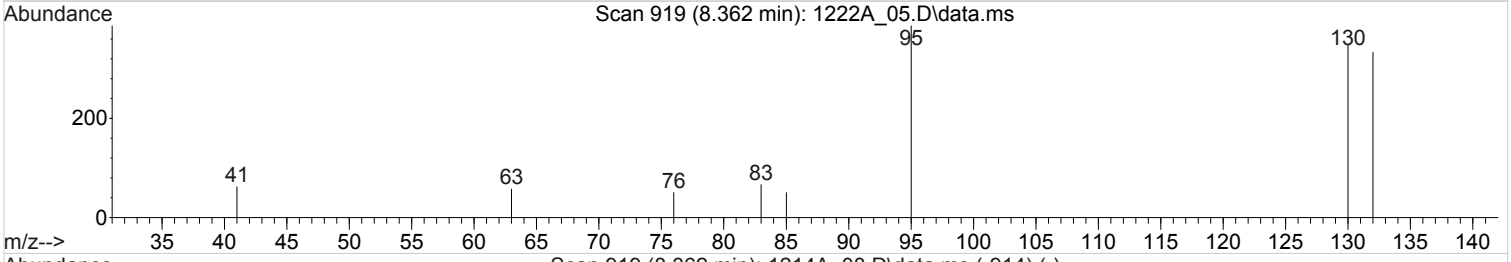
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	91.20
0.00	0.00	0.00
0.00	0.00	0.00

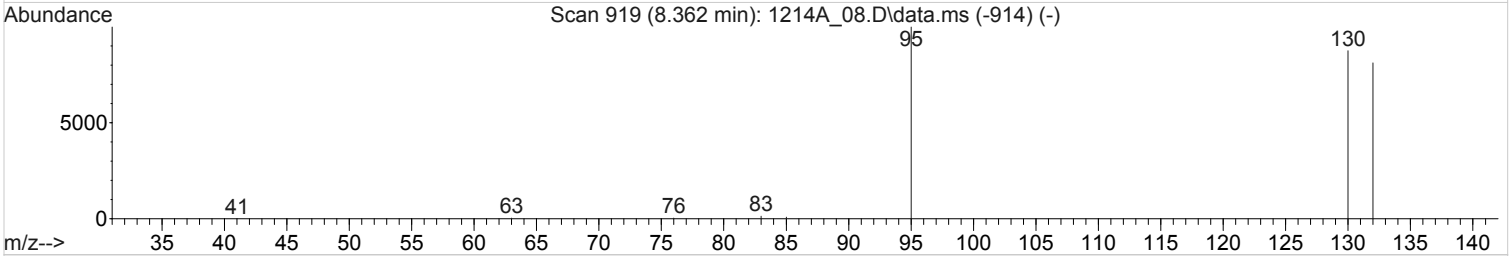
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:10:53 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration







TIC: 1222A_05.D\data.ms

(18) Trichloroethene (T,M)

8.362min (+0.000) 0.0362790 ppbv

Qvalue = 87

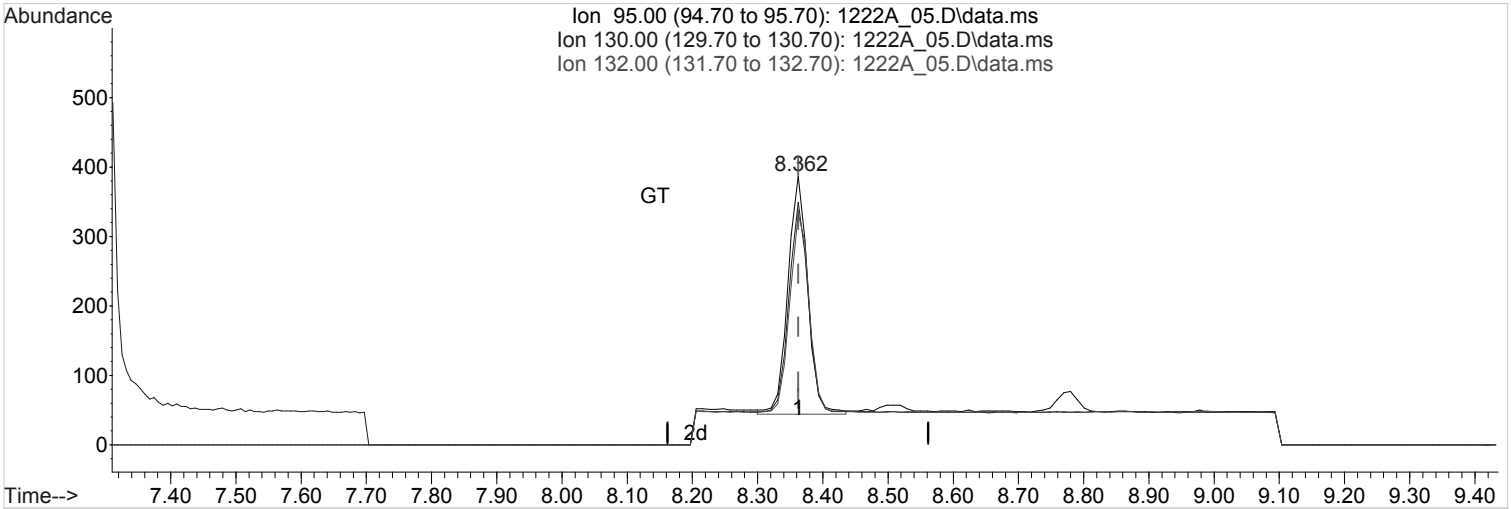
response 781

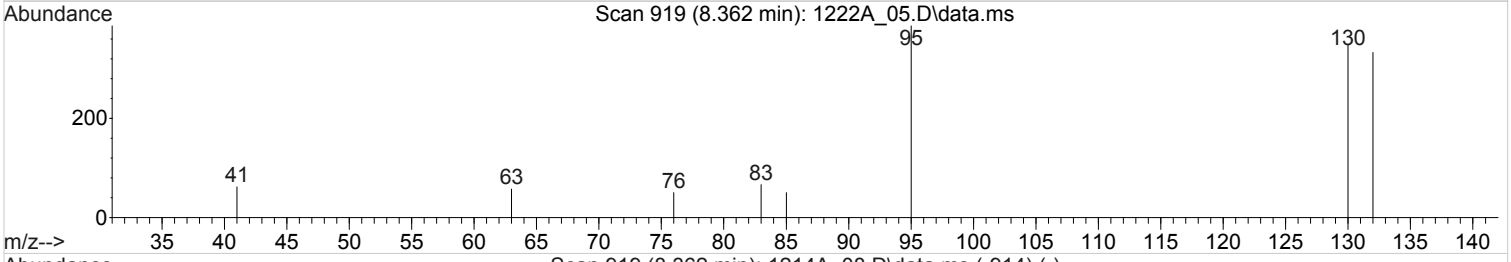
Ion	Exp%	Act%
95.00	100	100
130.00	91.20	77.59
132.00	87.30	75.67
0.00	0.00	0.00

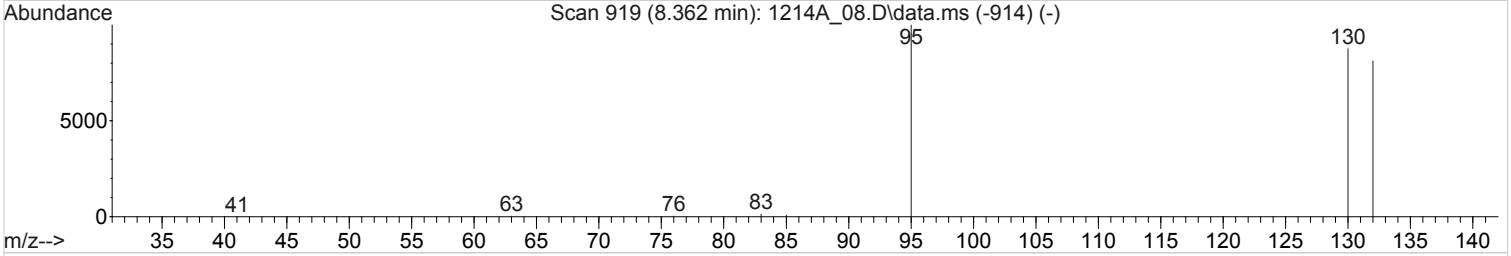
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:10:53 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration







TIC: 1222A_05.D\data.ms

(18) Trichloroethene (T,M)

8.362min (+0.000) 0.0338170 ppbv m

response 728

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	83.24
132.00	87.30	81.18
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:21 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration

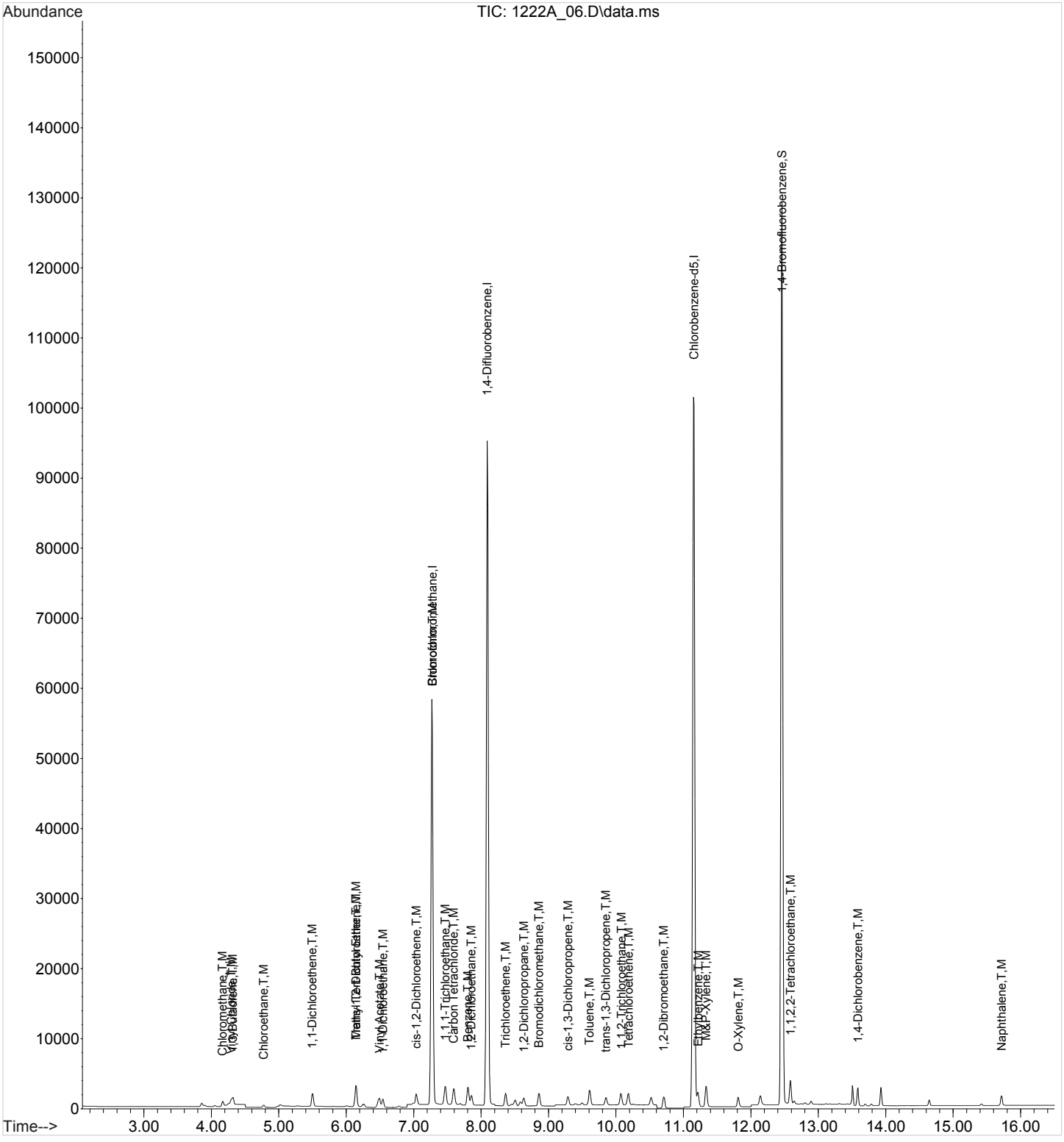
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.276	130	37808	1.2500000	ppbv		0.00
16) 1,4-Difluorobenzene	8.091	114	126998	1.2500000	ppbv		0.00
27) Chlorobenzene-d5	11.156	117	115620	1.2500000	ppbv		0.00
System Monitoring Compounds							
32) 1,4-Bromofluorobenzene	12.463	95	72531	1.2311232	ppbv		0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 98.49%				
Target Compounds							Qvalue
2) Chloromethane	4.166	50	1154	0.0613089	ppbv		95
3) Vinyl Chloride	4.292	62	982m	0.0638711	ppbv		
4) 1,3-Butadiene	4.316	39	710m	0.0622716	ppbv		
5) Chloroethane	4.774	64	377	0.0641108	ppbv	#	42
6) 1,1-Dichloroethene	5.495	61	1745	0.0630934	ppbv		99
7) Methyl Tert-Butyl Ether	6.144	73	1988	0.0622400	ppbv	#	83
8) Trans-1,2-Dichloroethene	6.144	61	1696m	0.0668368	ppbv		
9) 1,1-Dichloroethane	6.544	63	2186	0.0633061	ppbv		100
10) Vinyl Acetate	6.492	43	3568	0.0629249	ppbv	#	88
11) cis-1,2-Dichloroethene	7.038	96	921	0.0633982	ppbv	#	82
12) Chloroform	7.276	83	2239	0.0632851	ppbv		100
13) 1,1,1-Trichloroethane	7.465	97	2282	0.0640519	ppbv		99
14) Carbon Tetrachloride	7.591	117	2176	0.0653221	ppbv		98
15) 1,2-Dichloroethane	7.853	62	1684m	0.0696007	ppbv		
17) Benzene	7.800	78	3511	0.0598451	ppbv		94
18) Trichloroethene	8.362	95	1407m	0.0648360	ppbv		
19) 1,2-Dichloropropane	8.633	63	1271	0.0641623	ppbv		95
20) Bromodichloromethane	8.853	83	2396	0.0665570	ppbv		99
21) cis-1,3-Dichloropropene	9.287	75	1426	0.0659157	ppbv		99
22) Toluene	9.606	91	2697	0.0601808	ppbv		100
23) trans-1,3-Dichloropropene	9.847	75	1301	0.0649651	ppbv		98
24) 1,1,2-Trichloroethane	10.079	97	1362	0.0647860	ppbv		98
25) Tetrachloroethene	10.185	166	1500	0.0644844	ppbv		100
26) 1,2-Dibromoethane	10.708	107	1829m	0.0678095	ppbv		
28) Ethylbenzene	11.216	91	2887	0.0610964	ppbv		99
29) M&P-Xylene	11.336	91	3992	0.1207298	ppbv		100
30) O-Xylene	11.814	91	1906	0.0625166	ppbv		100
31) 1,1,2,2-Tetrachloroethane	12.587	83	3188	0.0665895	ppbv		100
33) 1,4-Dichlorobenzene	13.587	146	1905	0.0628455	ppbv		100
34) Naphthalene	15.718	128	2058	0.0609950	ppbv		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

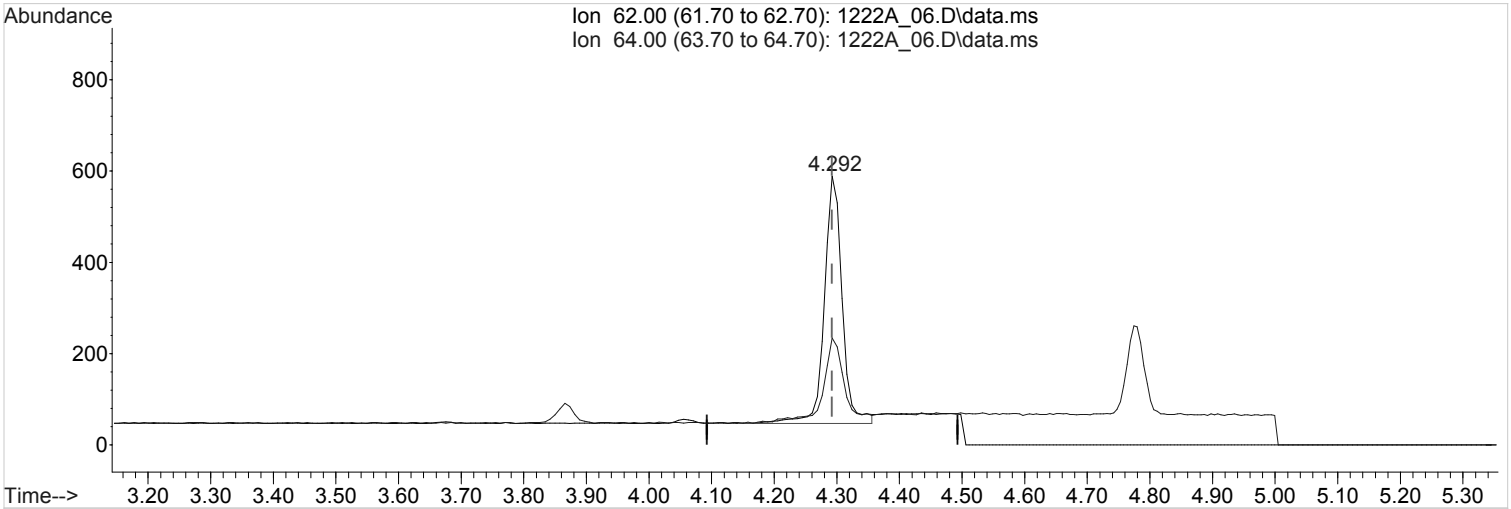
Quant Time: Dec 23 09:15:21 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration

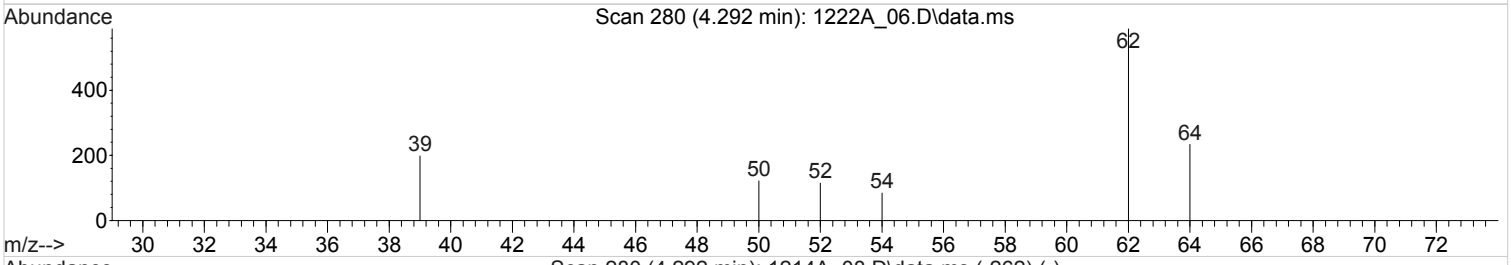


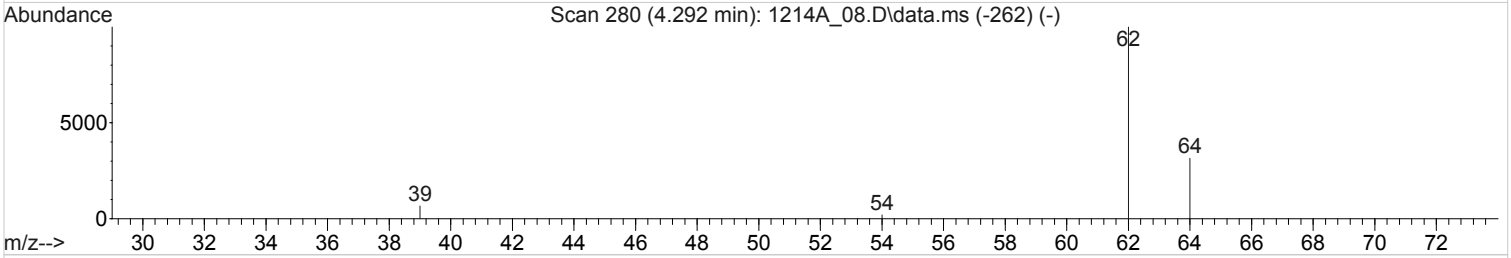
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(3) Vinyl Chloride (T,M)

4.292min (-0.000) 0.0702452 ppbv

Qvalue = 85

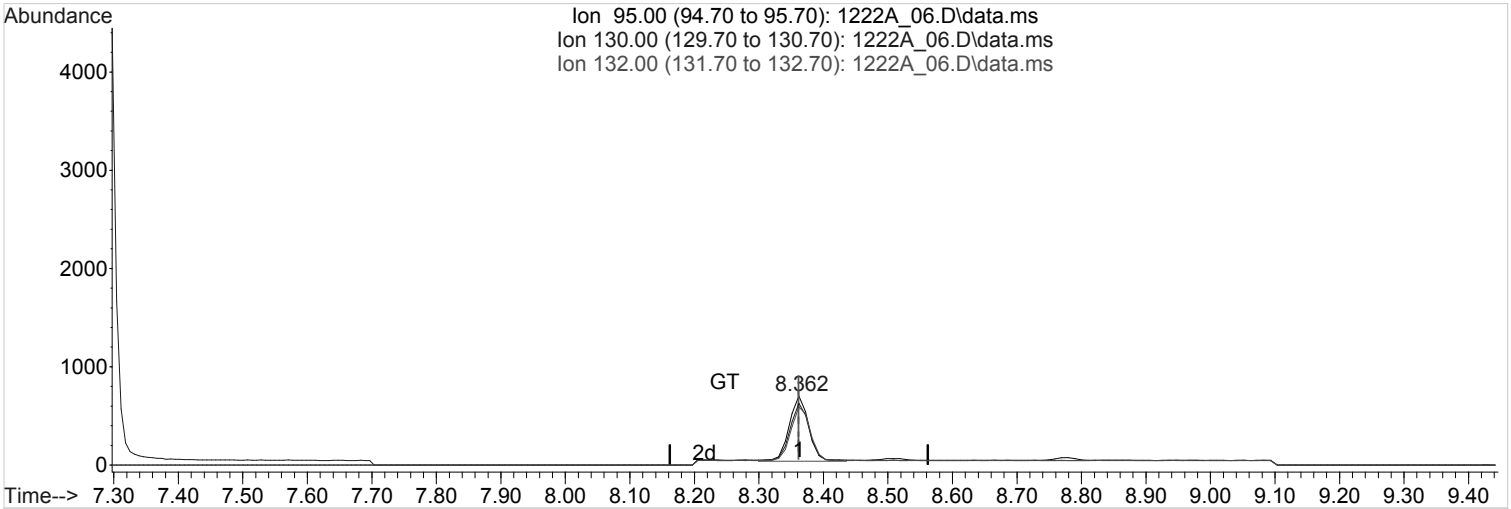
response 1080

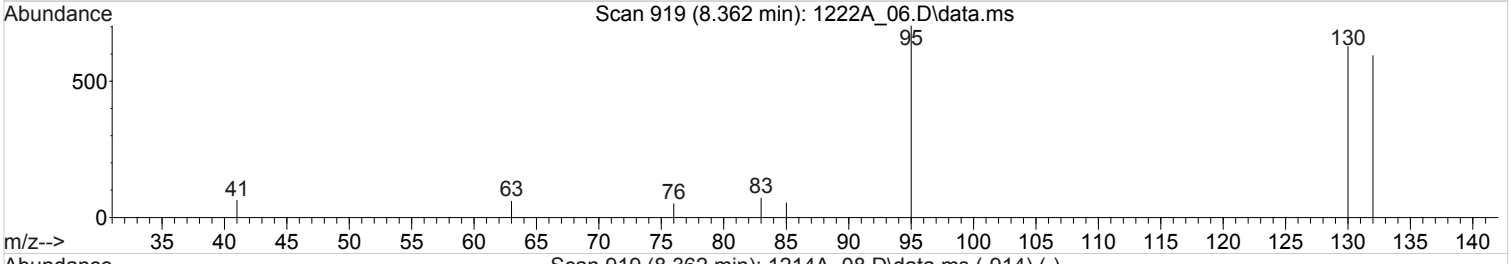
Ion	Exp%	Act%
62.00	100	100
64.00	33.30	41.85#
0.00	0.00	0.00
0.00	0.00	0.00

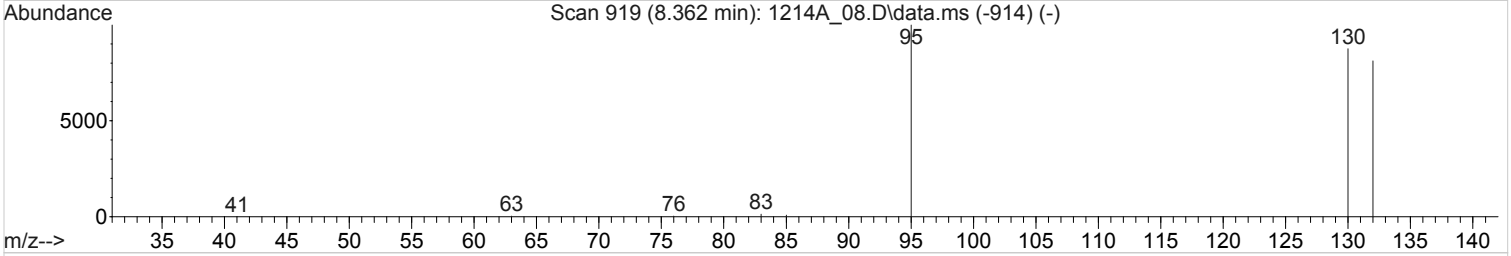
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.0648360 ppbv m

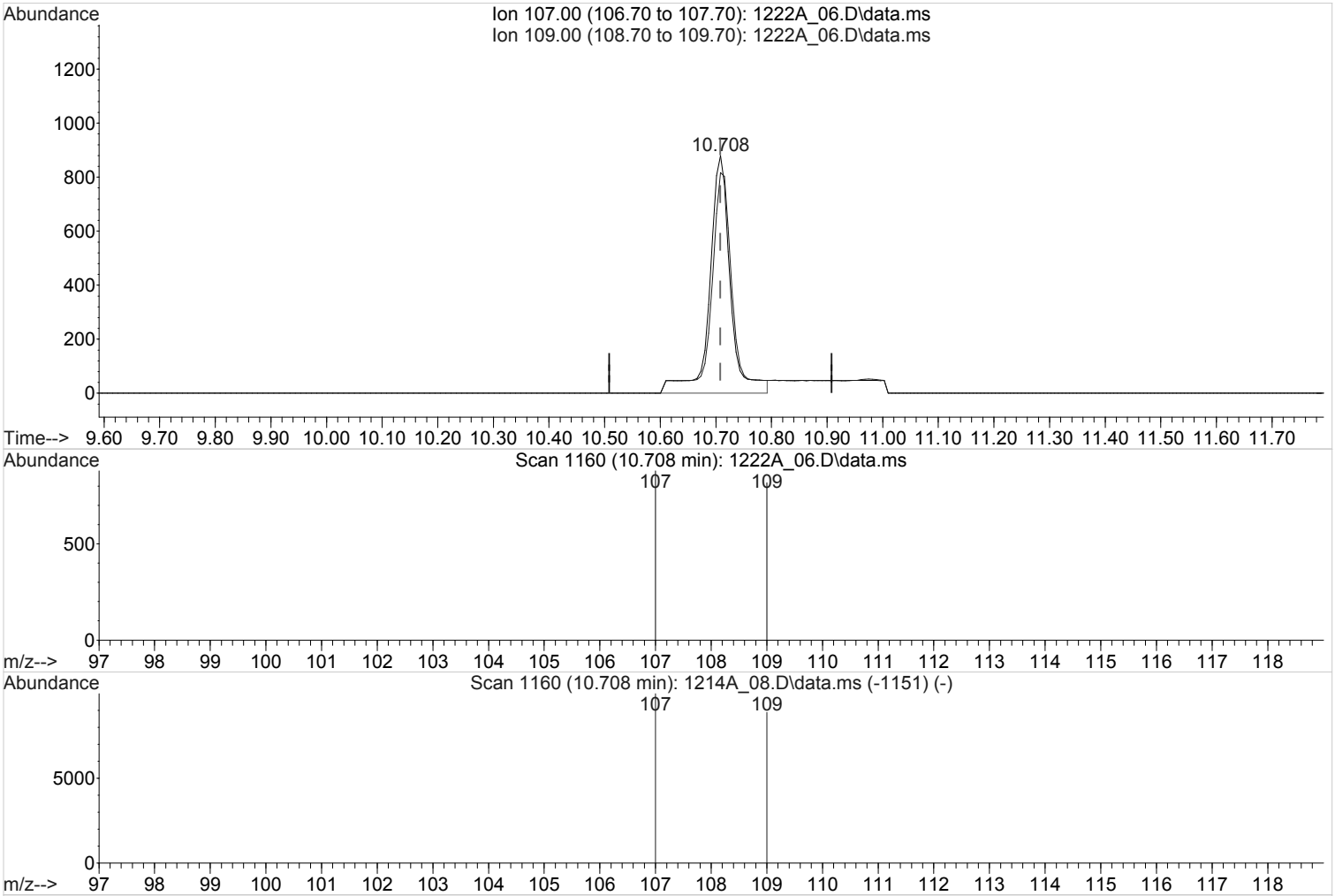
response 1407

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	83.72
132.00	87.30	87.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration



TIC: 1222A_06.D\data.ms

(26) 1,2-Dibromoethane (T,M)

10.708min (-0.000) 0.0874219 ppbv

Qvalue = 75

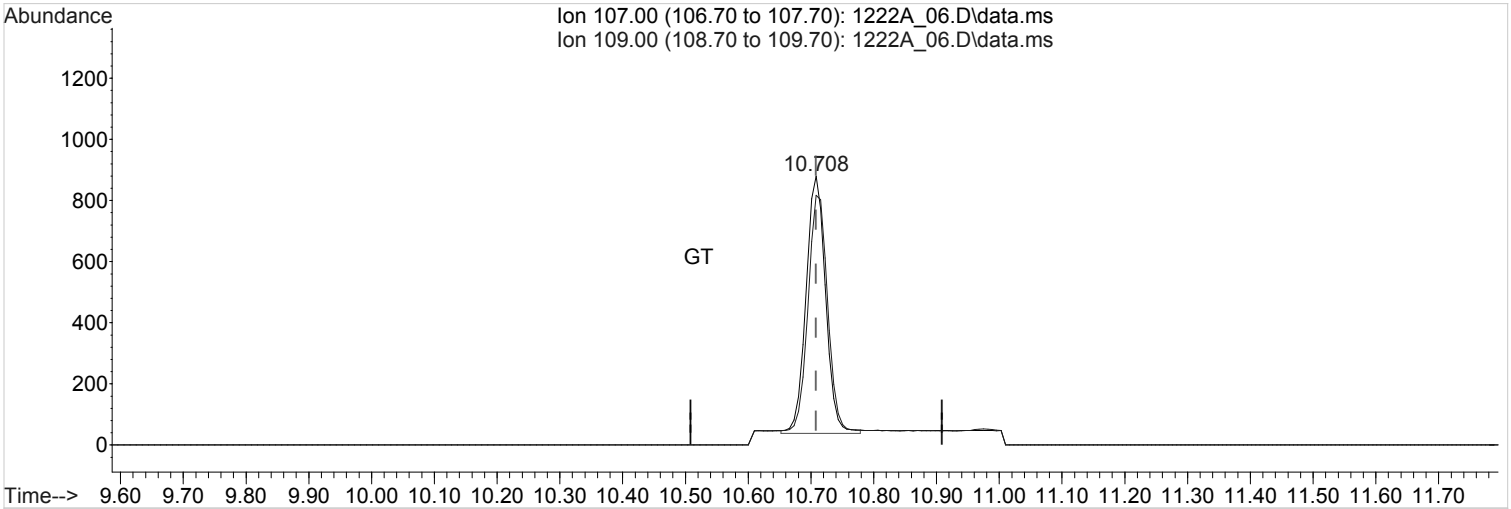
response 2358

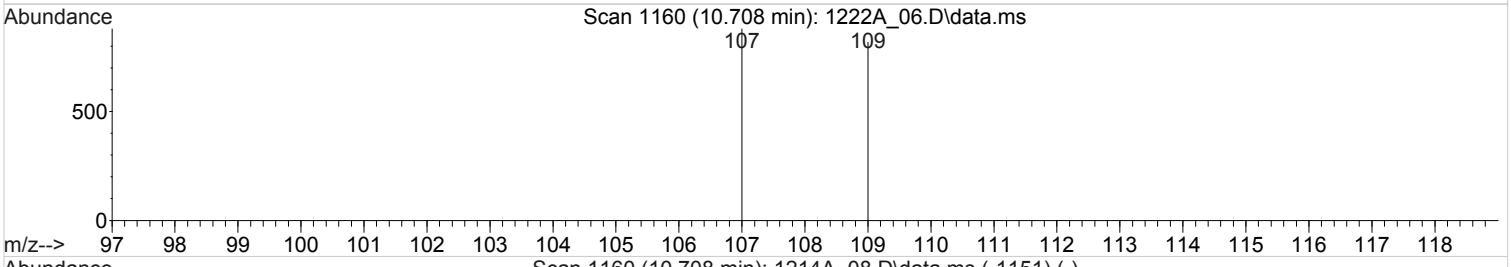
Ion	Exp%	Act%
107.00	100	100
109.00	93.80	69.59#
0.00	0.00	0.00
0.00	0.00	0.00

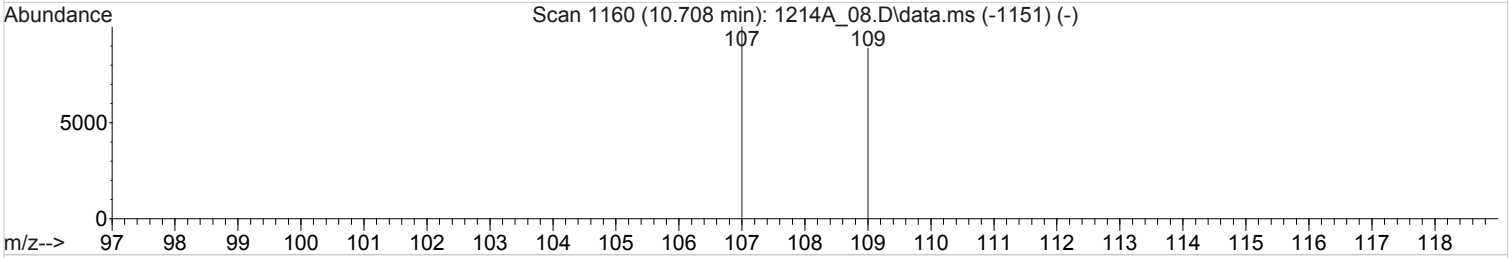
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(26) 1,2-Dibromoethane (T,M)

10.708min (-0.000) 0.0678095 ppbv m

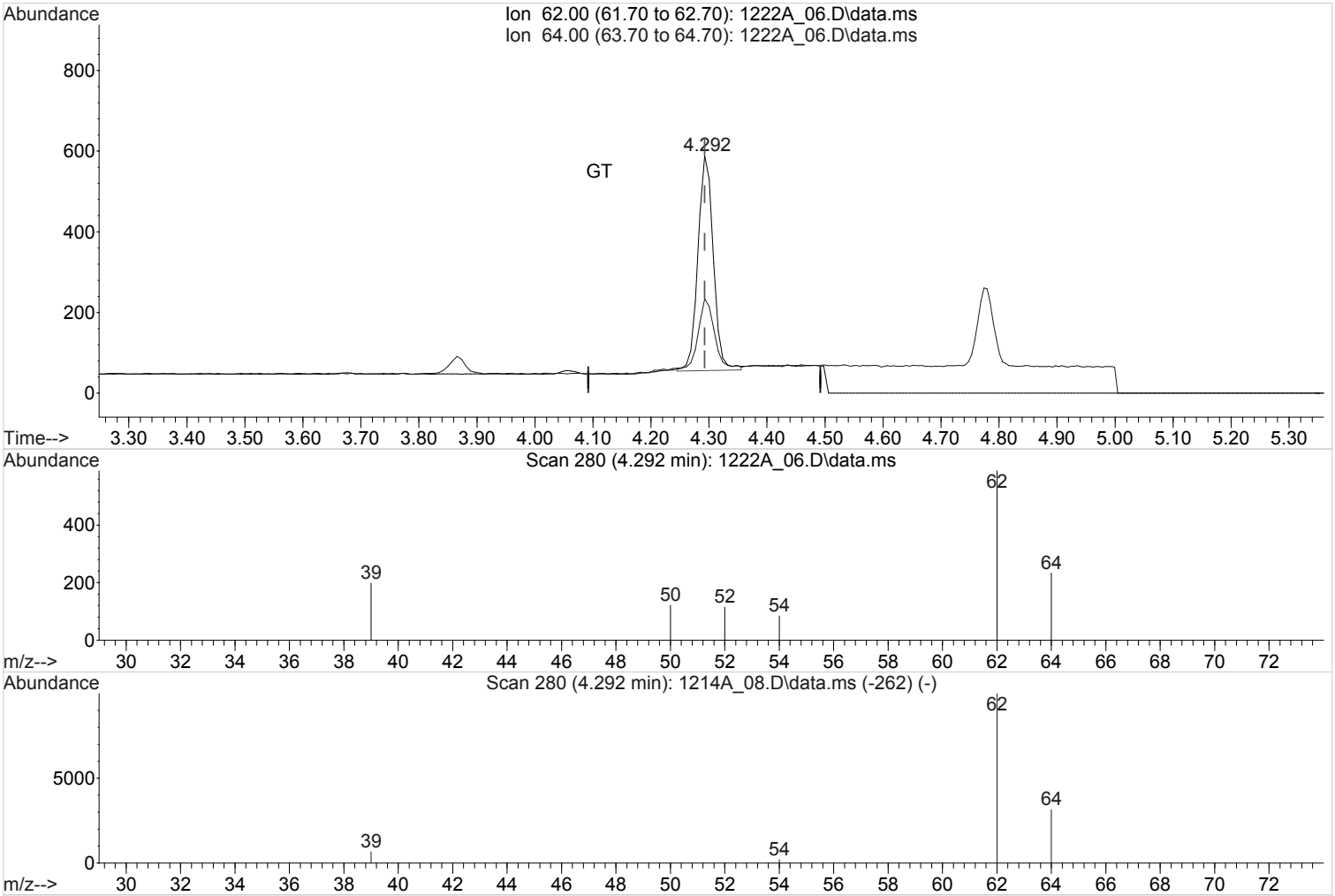
response 1829

Ion	Exp%	Act%
107.00	100	100
109.00	93.80	89.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration



TIC: 1222A_06.D\data.ms

(3) Vinyl Chloride (T,M)

4.292min (-0.000) 0.0638711 ppbv m

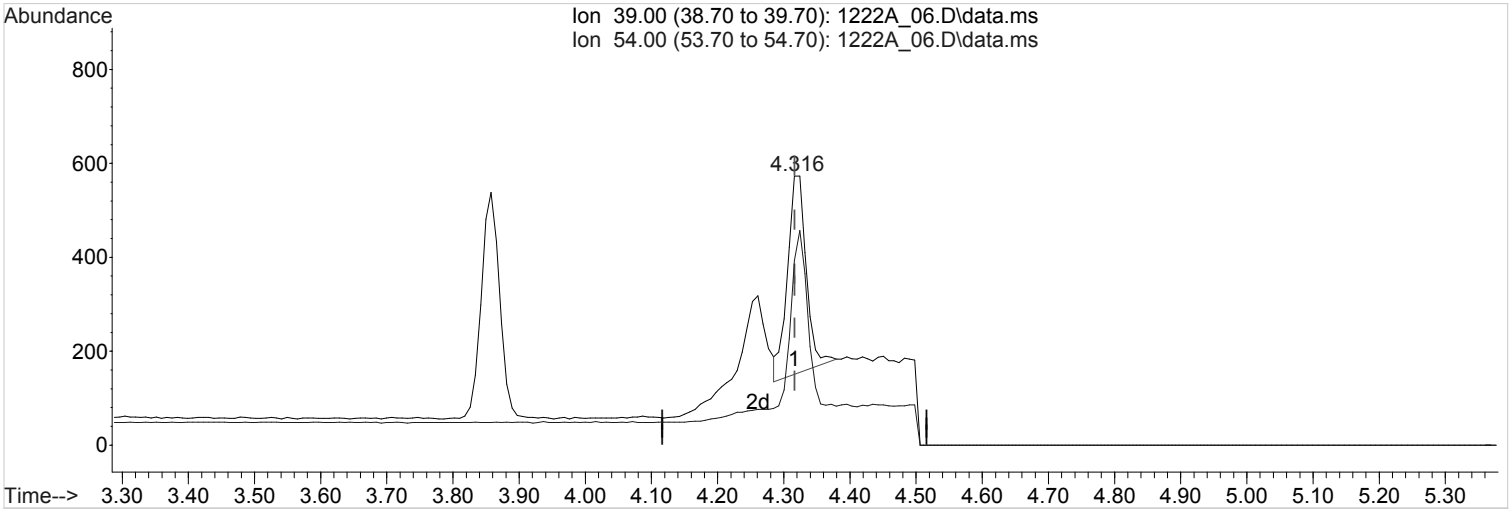
response 982

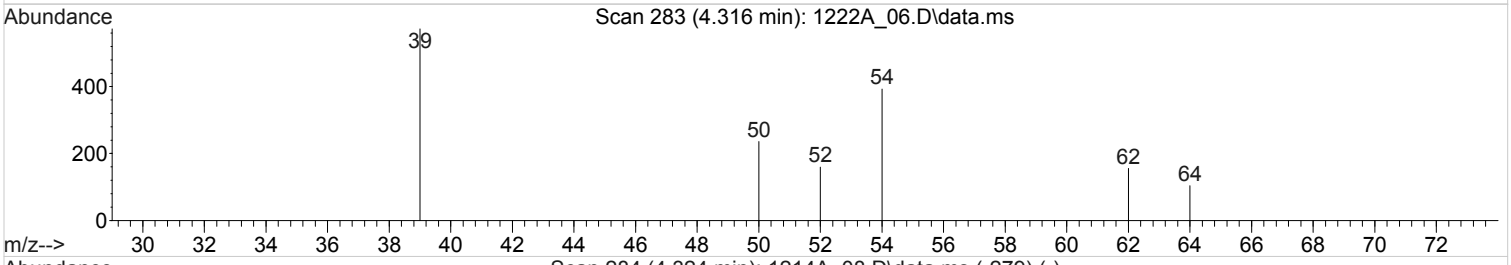
Ion	Exp%	Act%
62.00	100	100
64.00	33.30	46.03#
0.00	0.00	0.00
0.00	0.00	0.00

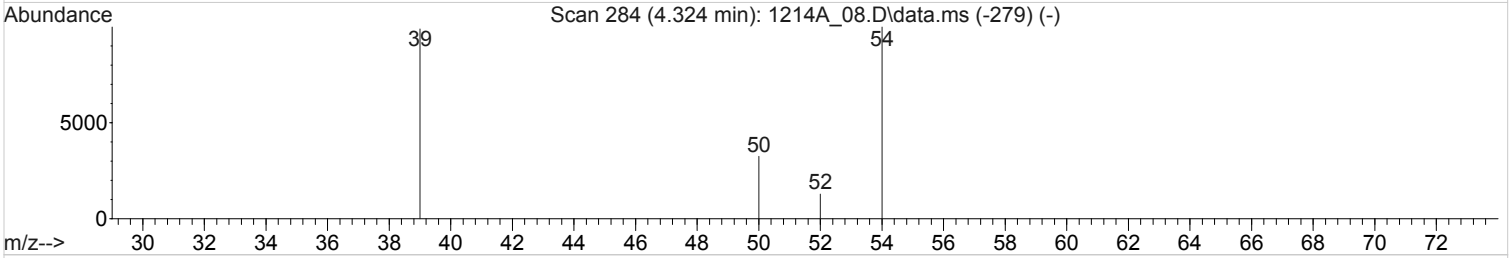
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (-0.000) 0.0731472 ppbv

Qvalue = 89

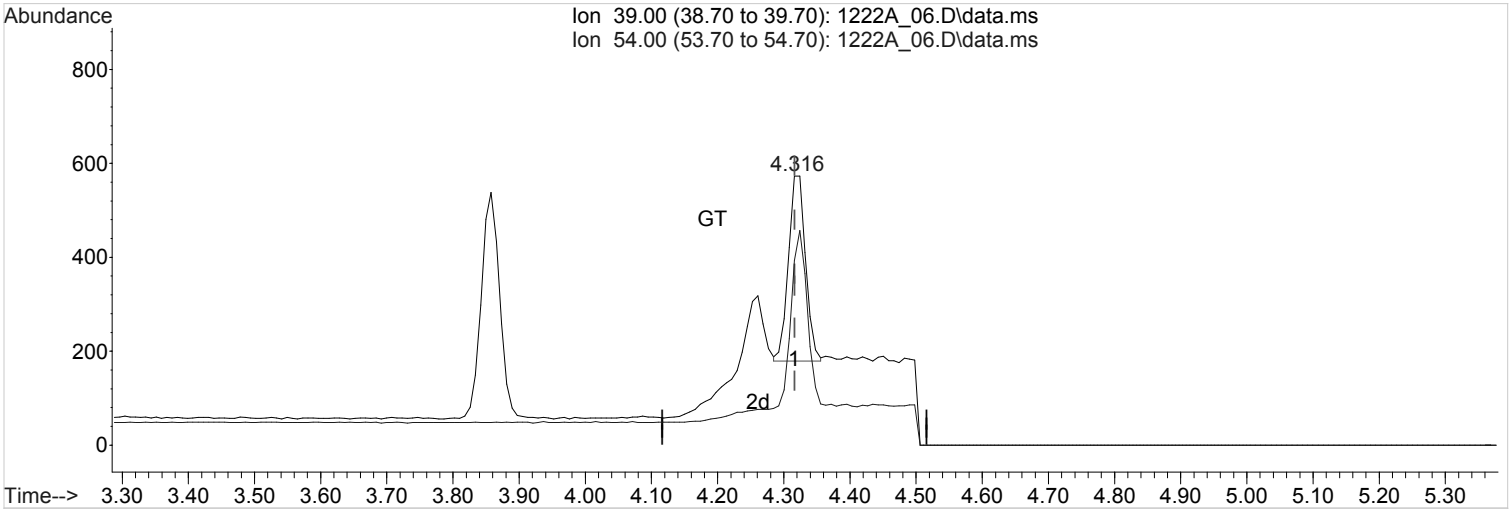
response 834

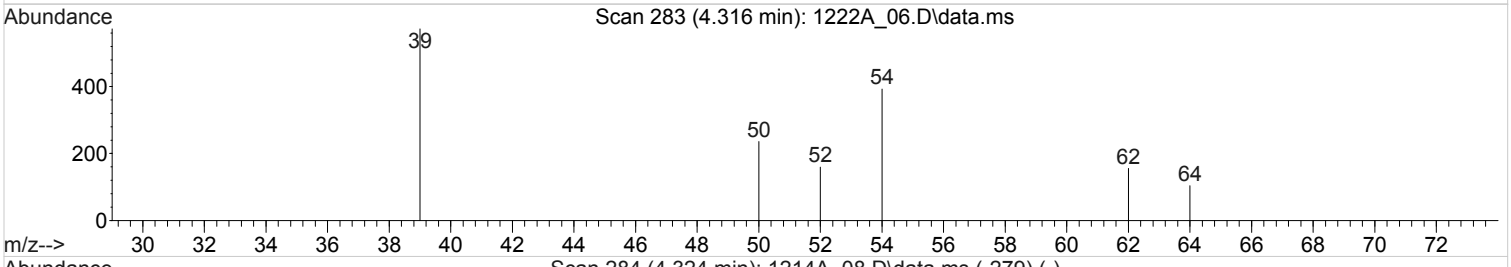
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	80.22
0.00	0.00	0.00
0.00	0.00	0.00

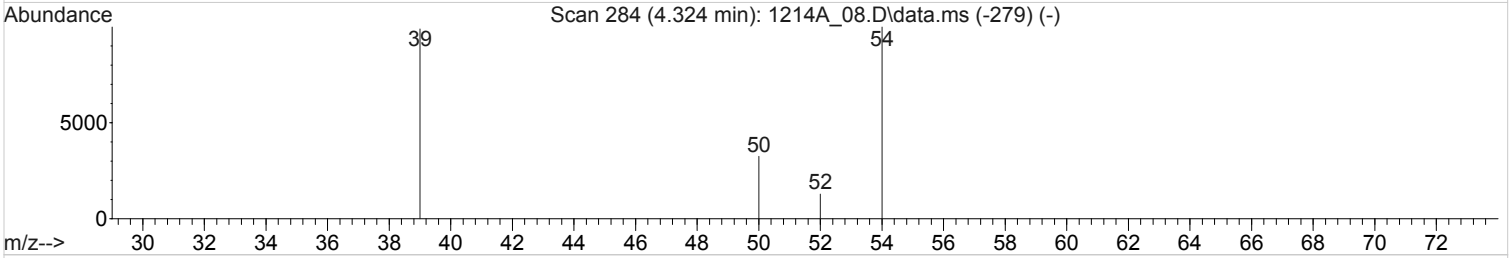
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (-0.000) 0.0622716 ppbv m

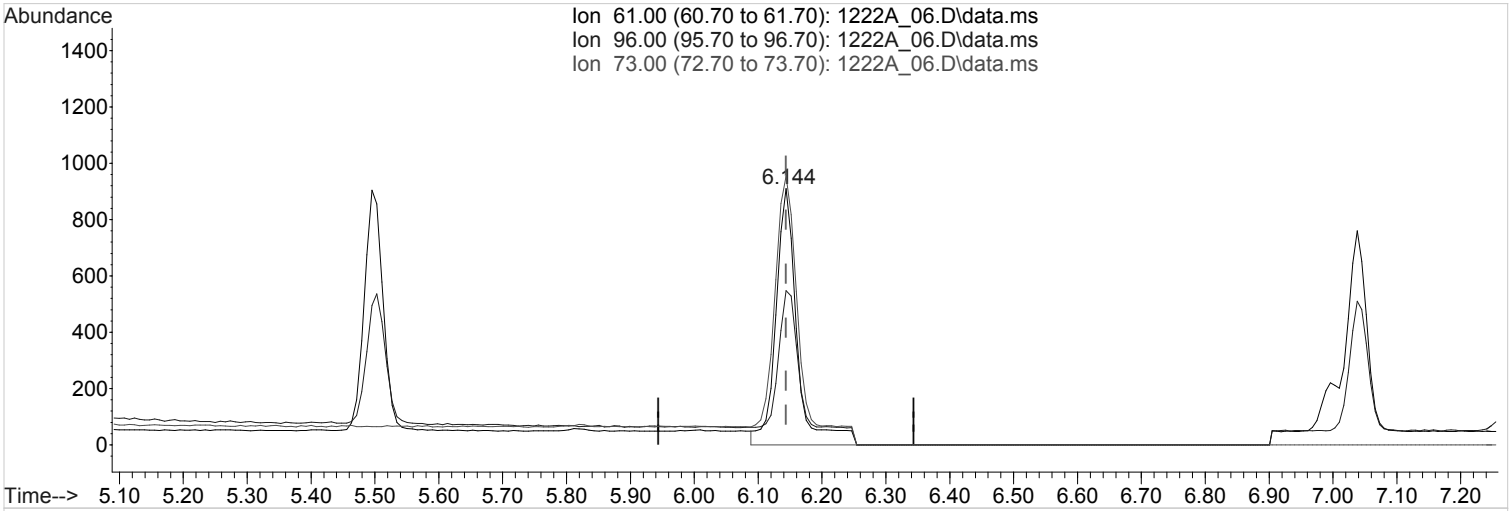
response 710

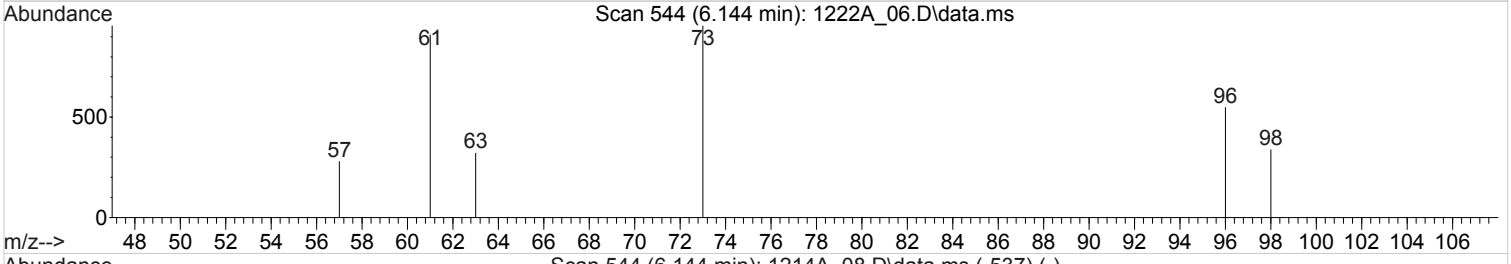
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	94.23
0.00	0.00	0.00
0.00	0.00	0.00

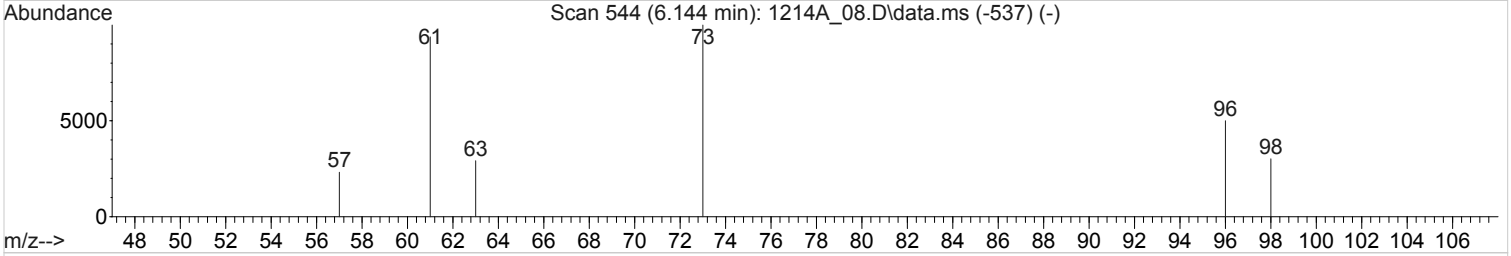
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(8) Trans-1,2-Dichloroethene (T,M)

6.144min (-0.000) 0.0805904 ppbv

Qvalue = 79

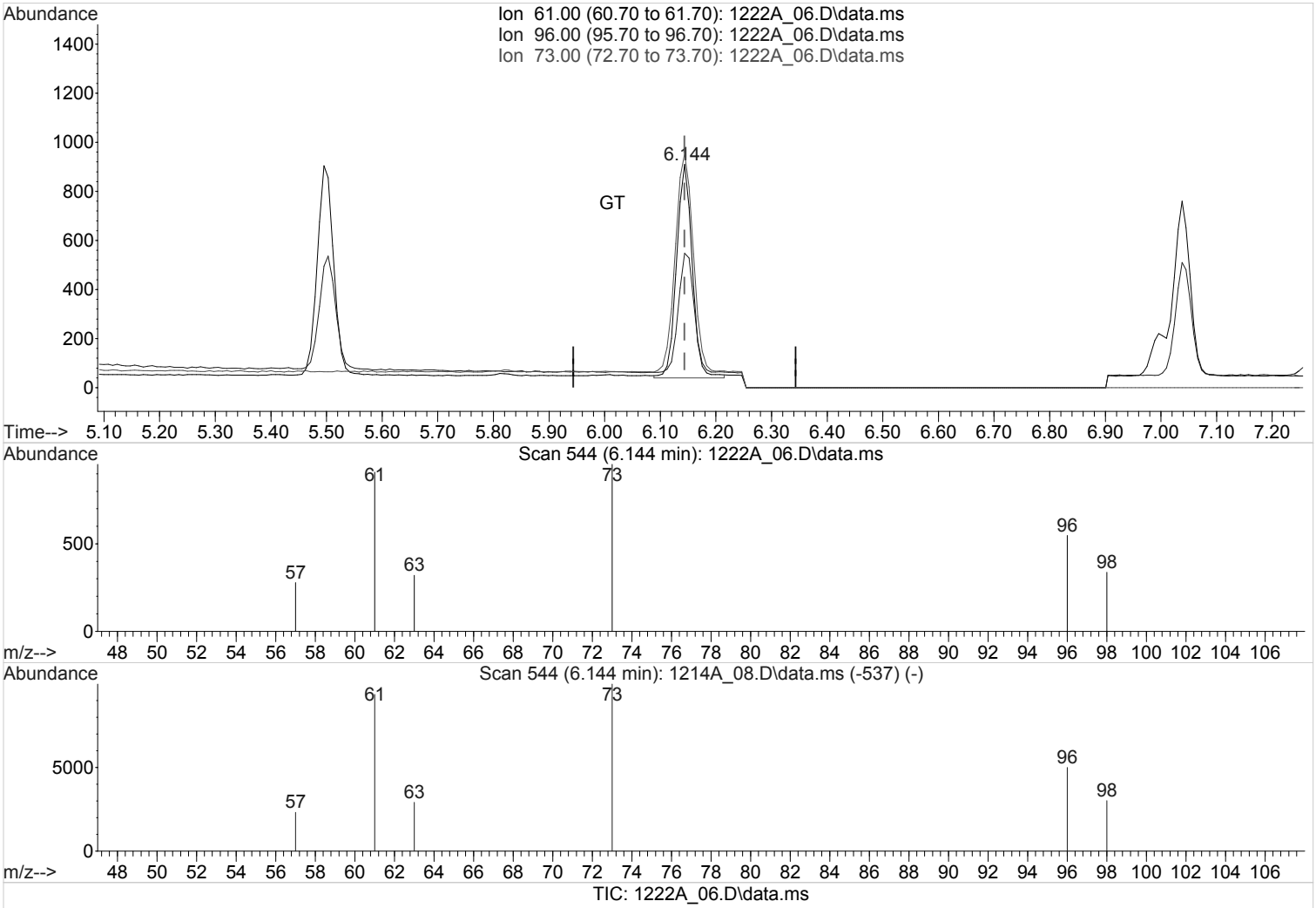
response 2045

Ion	Exp%	Act%
61.00	100	100
96.00	60.70	71.69
73.00	124.30	97.21#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration



TIC: 1222A_06.D\data.ms

(8) Trans-1,2-Dichloroethene (T,M)

6.144min (-0.000) 0.0668368 ppbv m

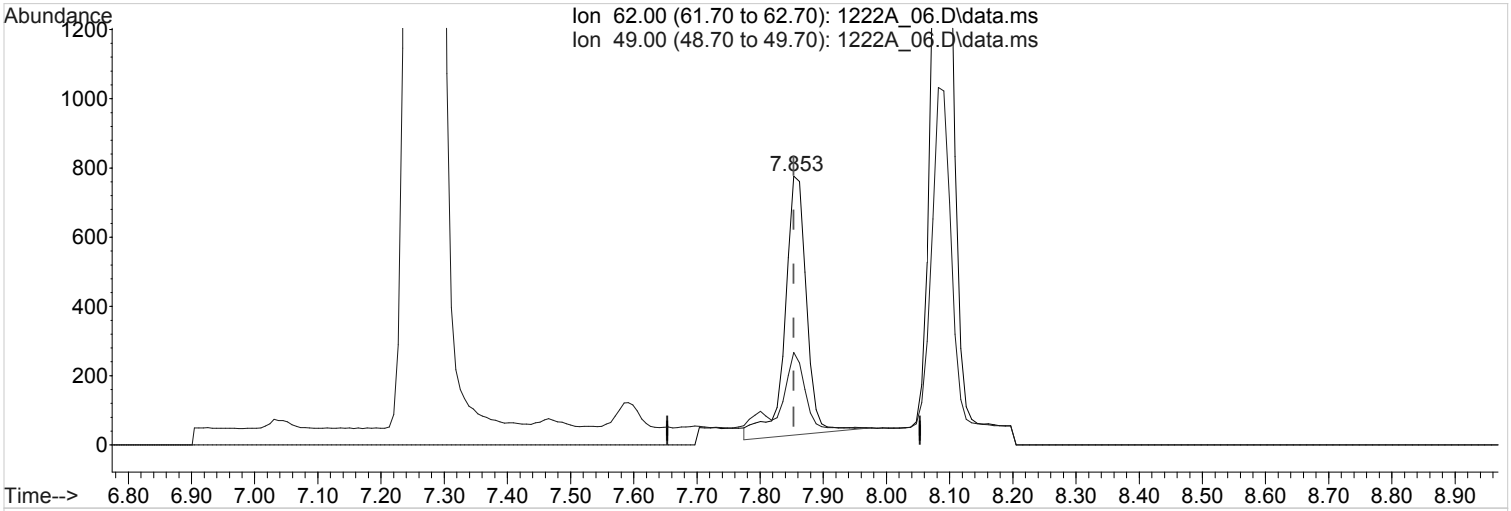
response 1696

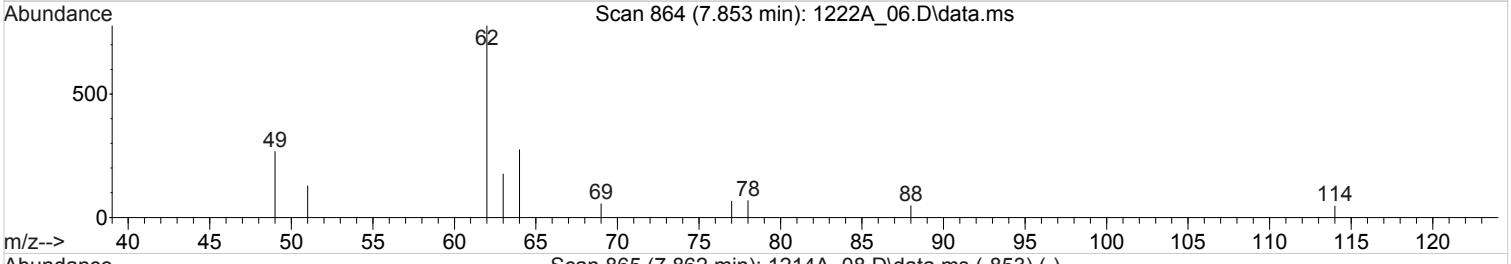
Ion	Exp%	Act%
61.00	100	100
96.00	60.70	86.44#
73.00	124.30	117.22
0.00	0.00	0.00

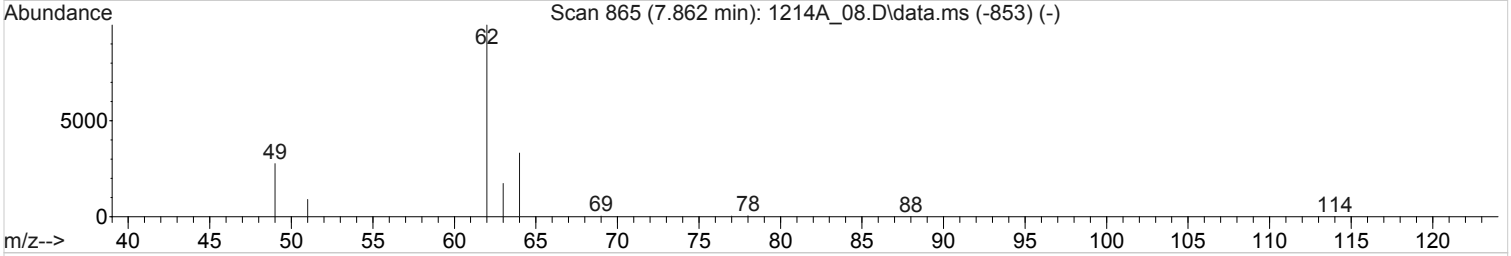
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(15) 1,2-Dichloroethane (T,M)

7.853min (-0.000) 0.0734858 ppbv

Qvalue = 94

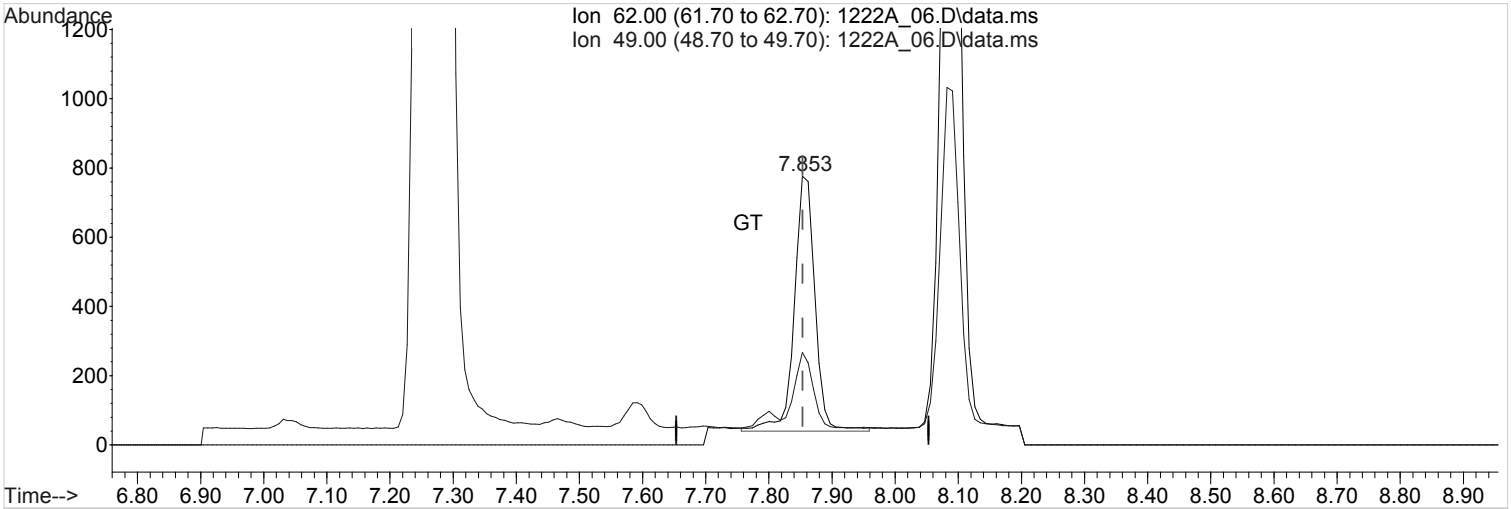
response 1778

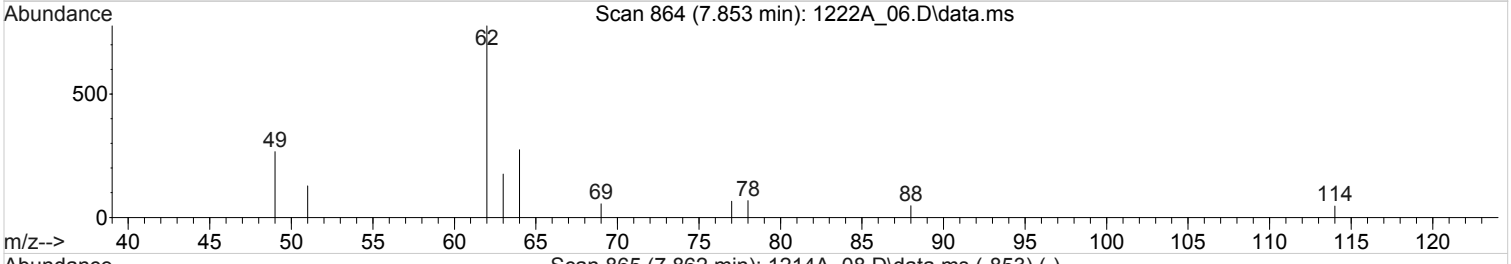
Ion	Exp%	Act%
62.00	100	100
49.00	28.00	24.92
0.00	0.00	0.00
0.00	0.00	0.00

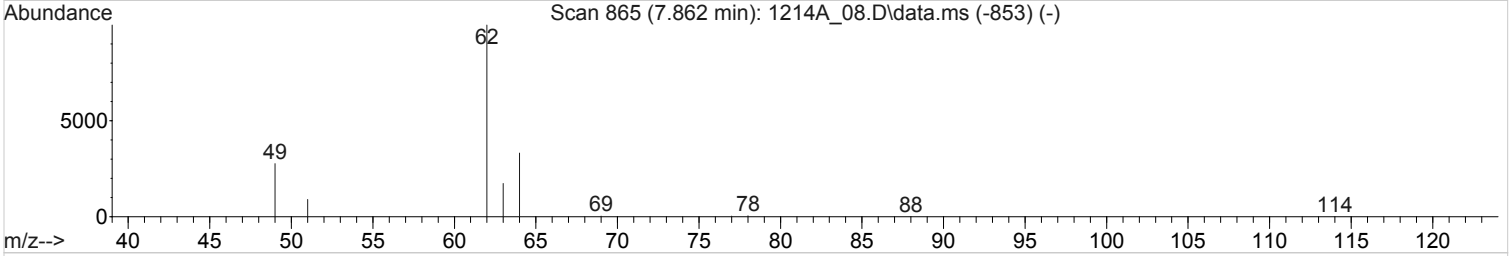
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(15) 1,2-Dichloroethane (T,M)

7.853min (-0.000) 0.0696007 ppbv m

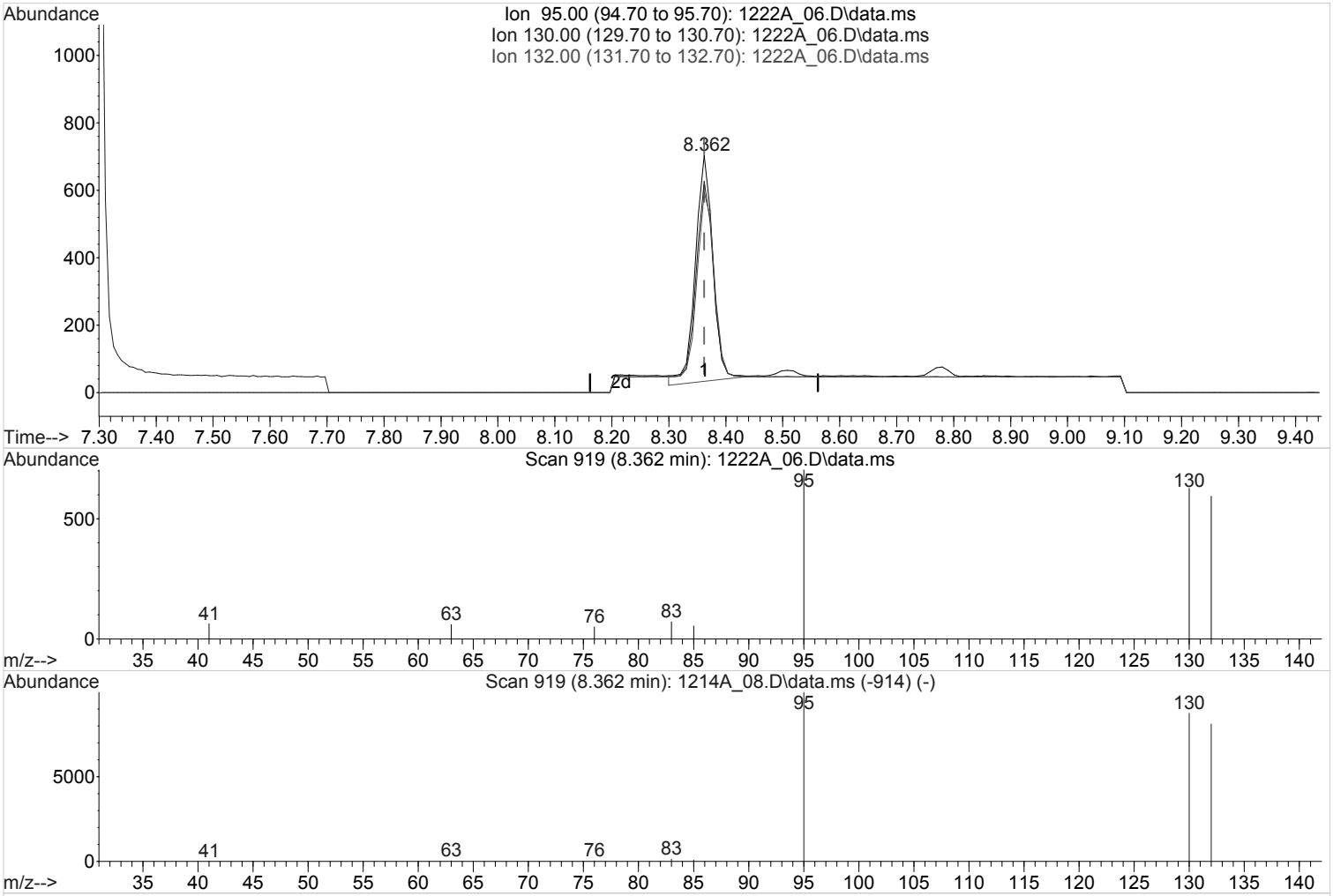
response 1684

Ion	Exp%	Act%
62.00	100	100
49.00	28.00	26.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration



TIC: 1222A_06.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.0665410 ppbv

Qvalue = 94

response 1444

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	81.58
132.00	87.30	85.25
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:16:50 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration

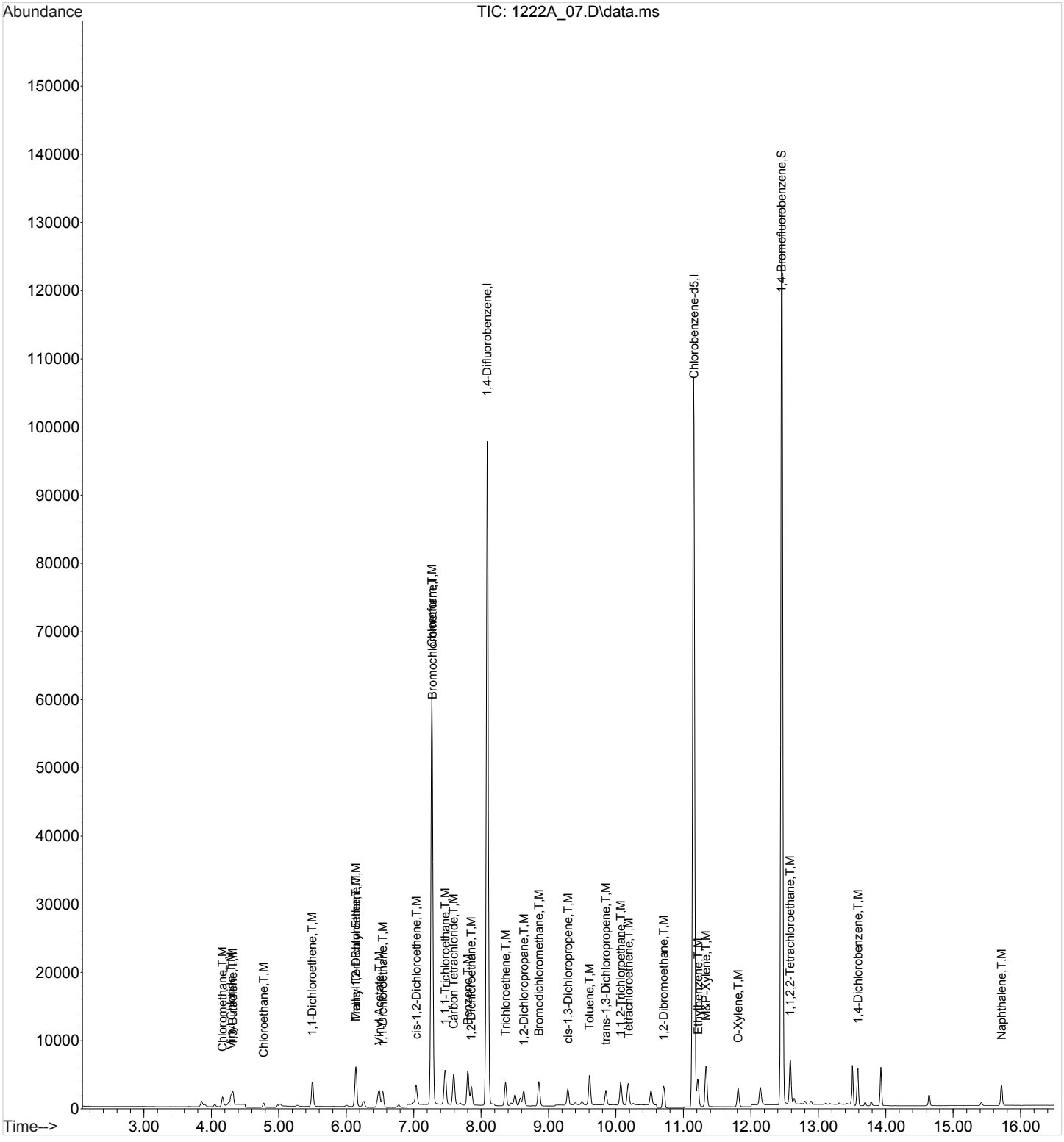
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.276	130	38049	1.2500000	ppbv		0.00
16) 1,4-Difluorobenzene	8.091	114	128757	1.2500000	ppbv		0.00
27) Chlorobenzene-d5	11.156	117	117596	1.2500000	ppbv		0.00
System Monitoring Compounds							
32) 1,4-Bromofluorobenzene	12.456	95	75400	1.2630843	ppbv		0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 101.05%				
Target Compounds							Qvalue
2) Chloromethane	4.166	50	2133	0.1119920	ppbv		98
3) Vinyl Chloride	4.292	62	1950	0.1240278	ppbv		92
4) 1,3-Butadiene	4.316	39	1361m	0.1175003	ppbv		
5) Chloroethane	4.774	64	722	0.1199476	ppbv		99
6) 1,1-Dichloroethene	5.495	61	3401	0.1206351	ppbv		99
7) Methyl Tert-Butyl Ether	6.144	73	3837	0.1182635	ppbv		92
8) Trans-1,2-Dichloroethene	6.144	61	3256m	0.1239699	ppbv		
9) 1,1-Dichloroethane	6.541	63	4272	0.1212621	ppbv		100
10) Vinyl Acetate	6.489	43	7032	0.1217464	ppbv		100
11) cis-1,2-Dichloroethene	7.038	96	1766	0.1191084	ppbv	#	78
12) Chloroform	7.269	83	4367	0.1209949	ppbv		99
13) 1,1,1-Trichloroethane	7.465	97	4385	0.1202694	ppbv		99
14) Carbon Tetrachloride	7.591	117	4237	0.1236445	ppbv	#	96
15) 1,2-Dichloroethane	7.853	62	3094	0.1221794	ppbv		99
17) Benzene	7.800	78	6883	0.1157929	ppbv		98
18) Trichloroethene	8.362	95	2674m	0.1191367	ppbv		
19) 1,2-Dichloropropane	8.634	63	2515	0.1230923	ppbv		94
20) Bromodichloromethane	8.853	83	4621	0.1232432	ppbv		99
21) cis-1,3-Dichloropropene	9.287	75	2761	0.1228533	ppbv		99
22) Toluene	9.606	91	5345	0.1175503	ppbv		100
23) trans-1,3-Dichloropropene	9.847	75	2510	0.1211182	ppbv		100
24) 1,1,2-Trichloroethane	10.069	97	2704	0.1243832	ppbv		99
25) Tetrachloroethene	10.185	166	2922	0.1216269	ppbv		99
26) 1,2-Dibromoethane	10.708	107	3470	0.1228925	ppbv		99
28) Ethylbenzene	11.216	91	5852	0.1212087	ppbv		99
29) M&P-Xylene	11.336	91	8113	0.2408719	ppbv		99
30) O-Xylene	11.808	91	3814	0.1217204	ppbv		100
31) 1,1,2,2-Tetrachloroethane	12.581	83	6374	0.1274021	ppbv		100
33) 1,4-Dichlorobenzene	13.587	146	4024	0.1289909	ppbv		100
34) Naphthalene	15.718	128	4426	0.1284410	ppbv		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

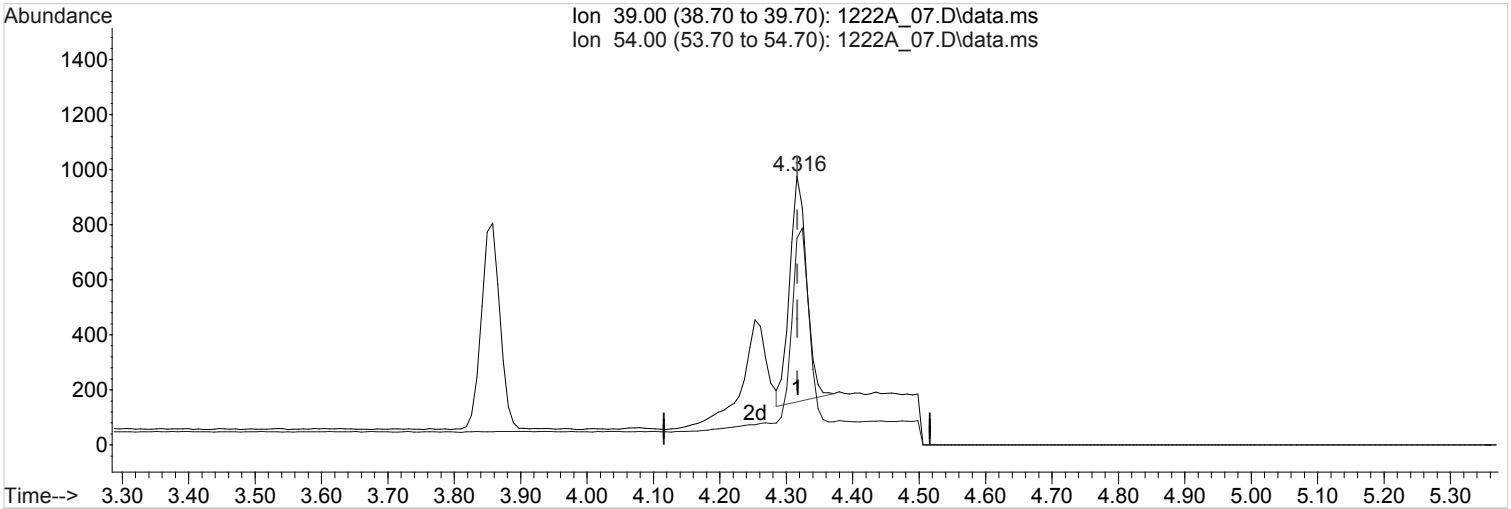
Quant Time: Dec 23 09:16:50 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration

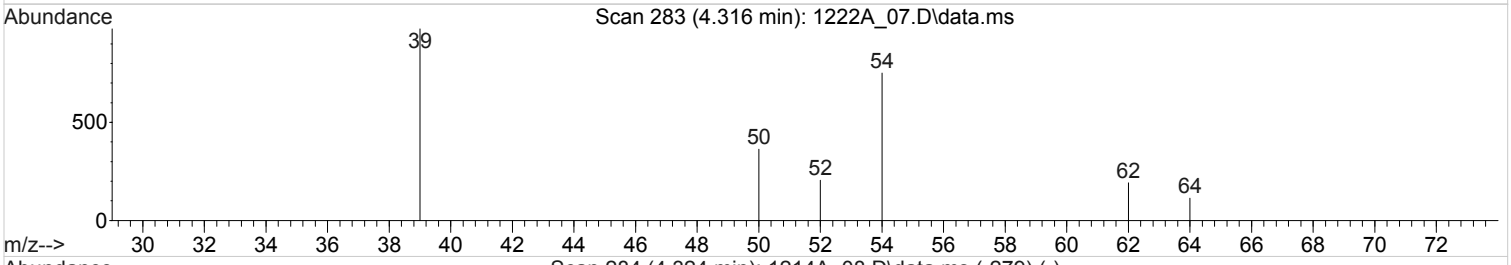


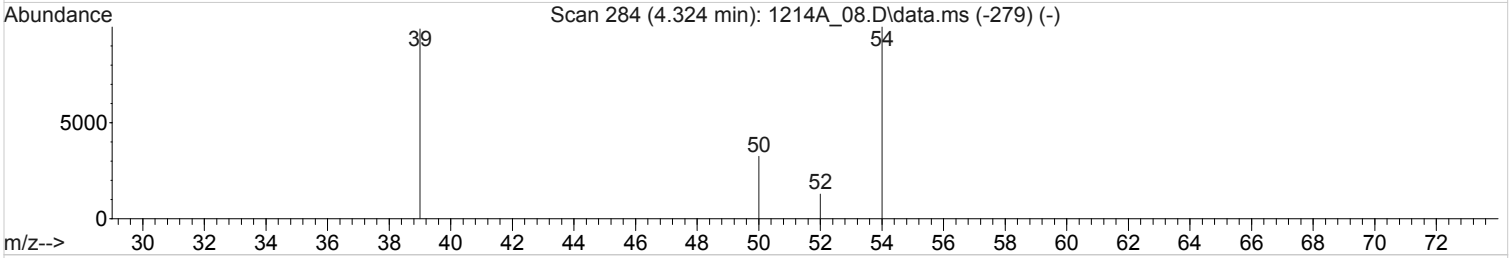
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:45 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration







TIC: 1222A_07.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (-0.000) 0.1260473 ppbv

Qvalue = 95

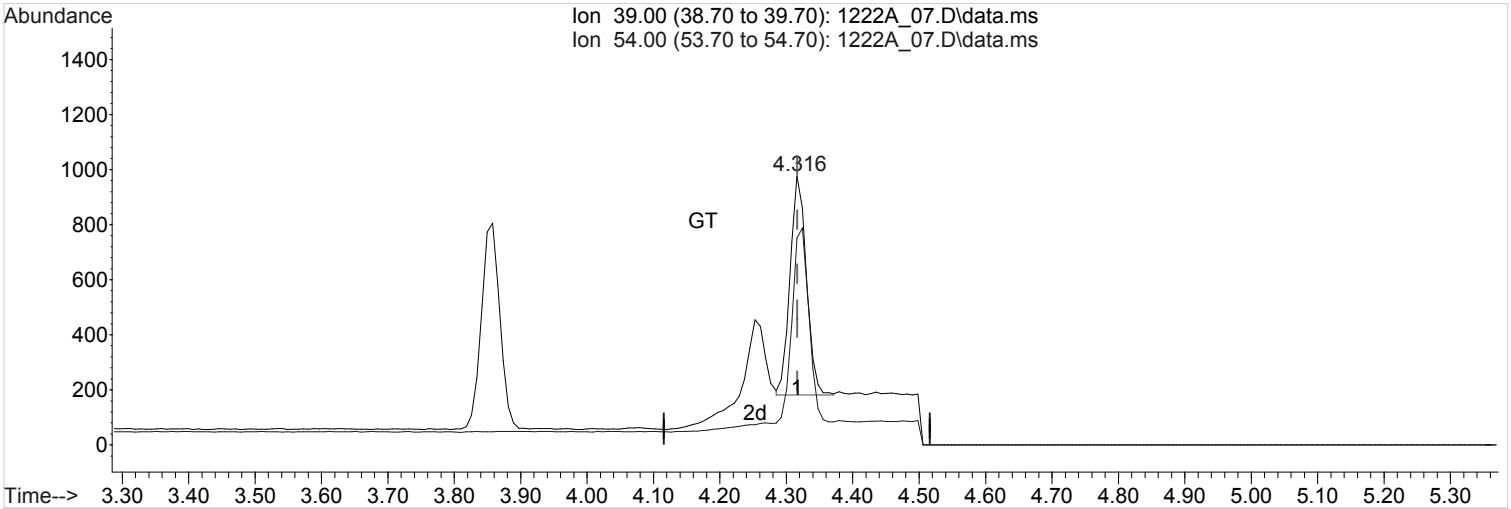
response 1460

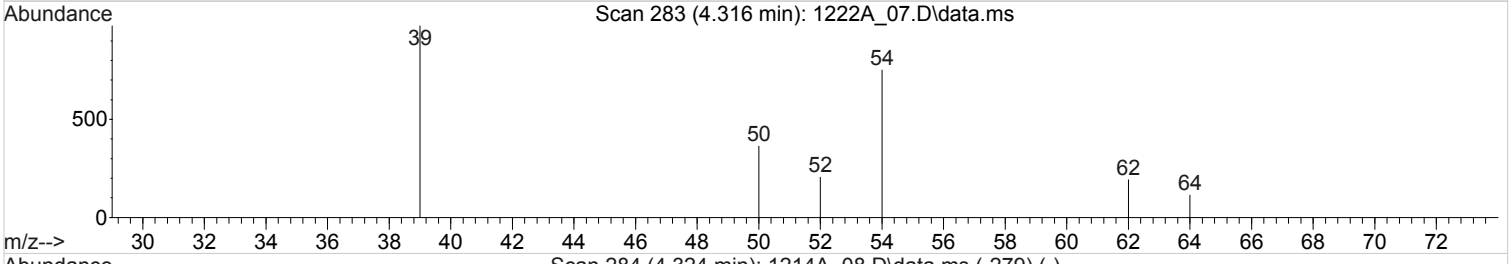
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	85.89
0.00	0.00	0.00
0.00	0.00	0.00

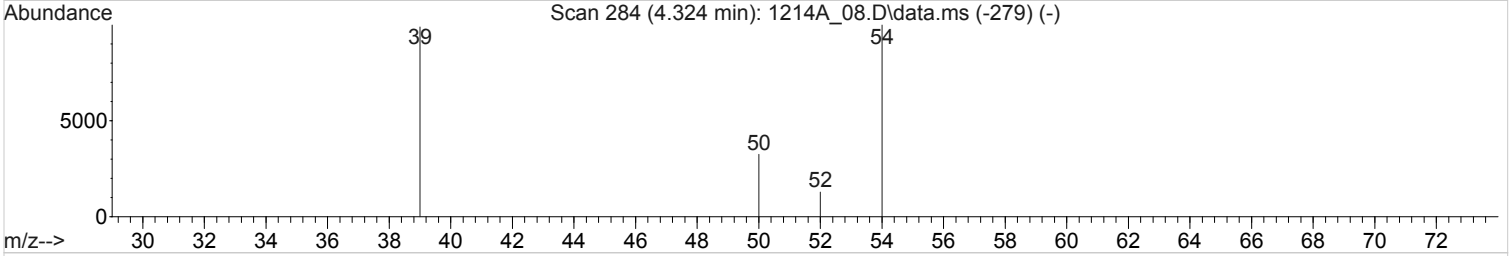
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:45 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration







TIC: 1222A_07.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (-0.000) 0.1175003 ppbv m

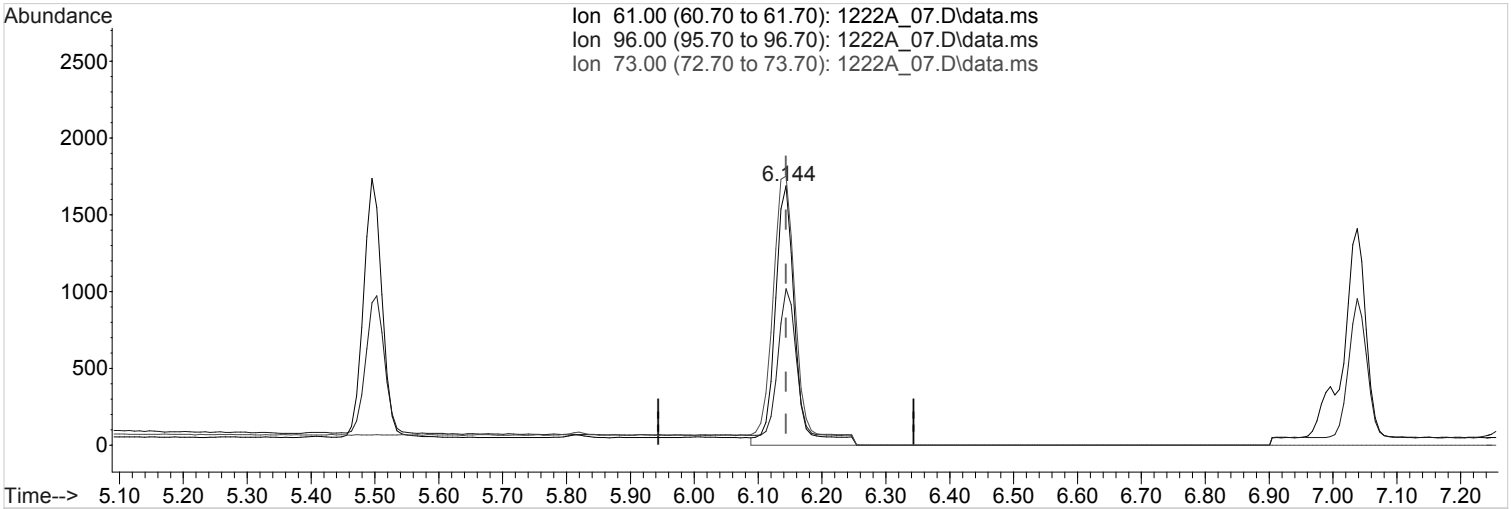
response 1361

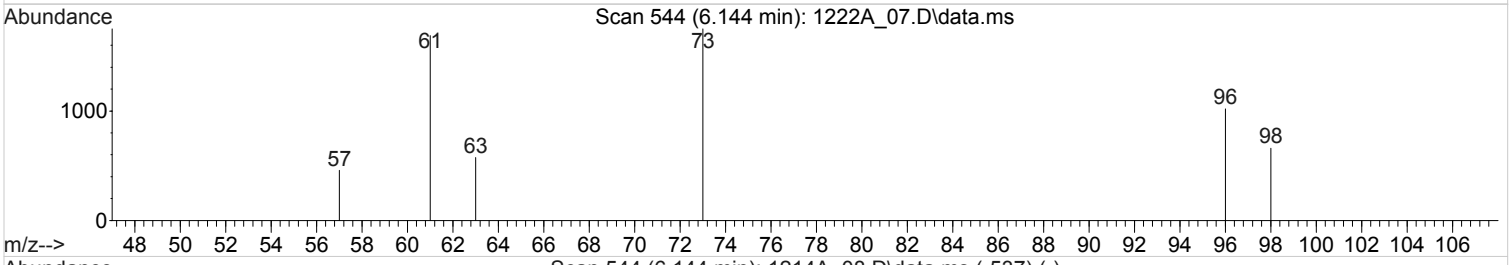
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	92.14
0.00	0.00	0.00
0.00	0.00	0.00

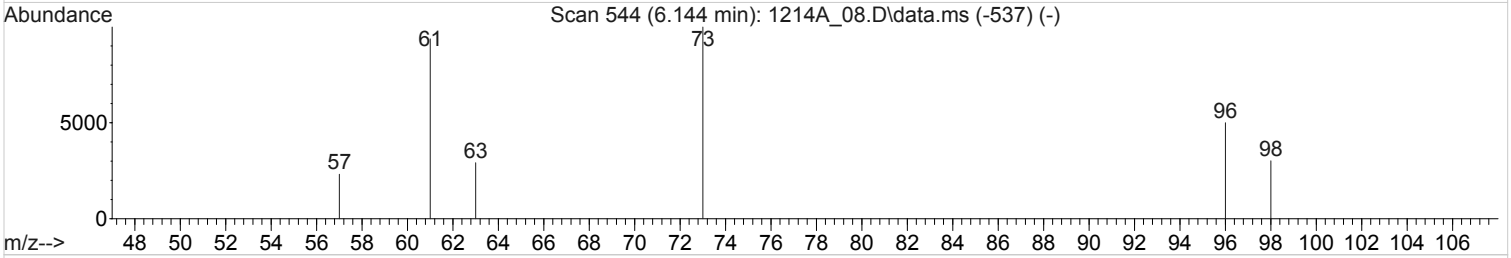
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:45 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration







TIC: 1222A_07.D\data.ms

(8) Trans-1,2-Dichloroethene (T,M)

6.144min (-0.000) 0.1346307 ppbv

Qvalue = 87

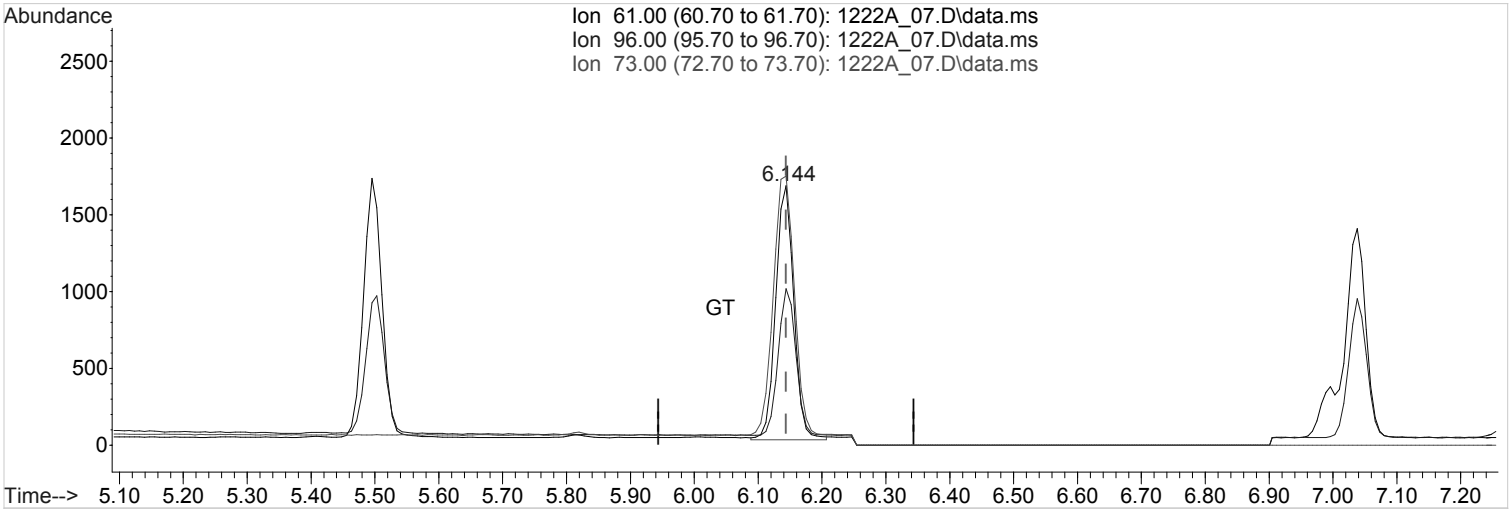
response 3536

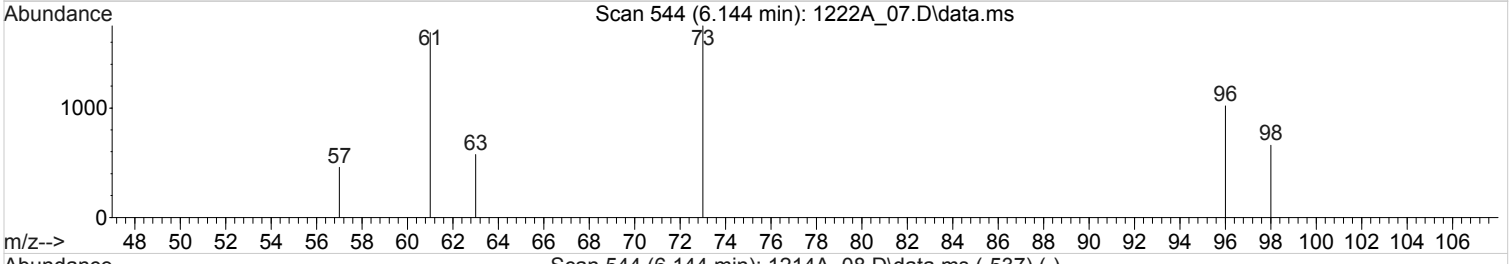
Ion	Exp%	Act%
61.00	100	100
96.00	60.70	51.73
73.00	124.30	108.51
0.00	0.00	0.00

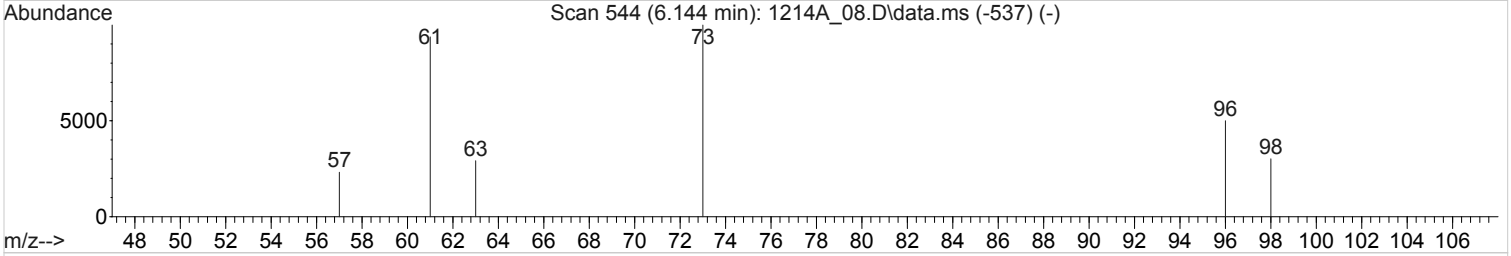
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:45 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration







TIC: 1222A_07.D\data.ms

(8) Trans-1,2-Dichloroethene (T,M)

6.144min (-0.000) 0.1239699 ppbv m

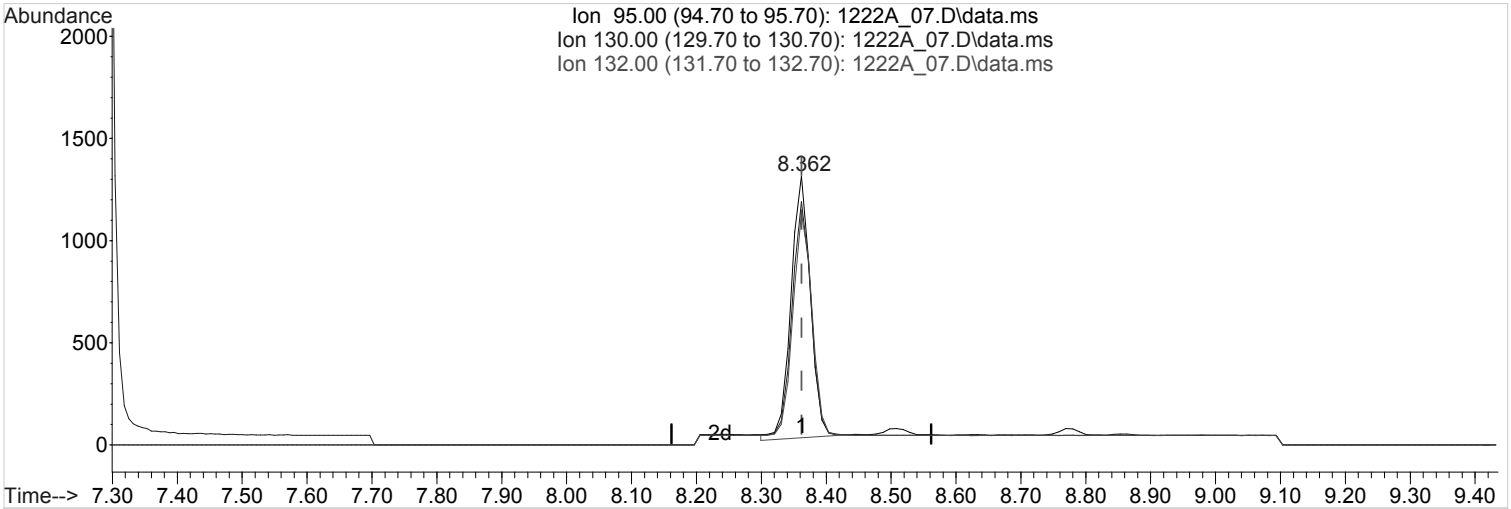
response 3256

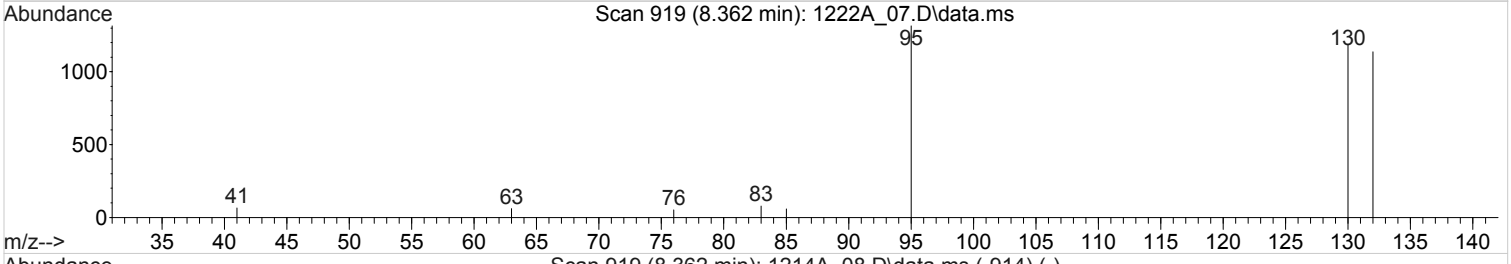
Ion	Exp%	Act%
61.00	100	100
96.00	60.70	56.17
73.00	124.30	117.84
0.00	0.00	0.00

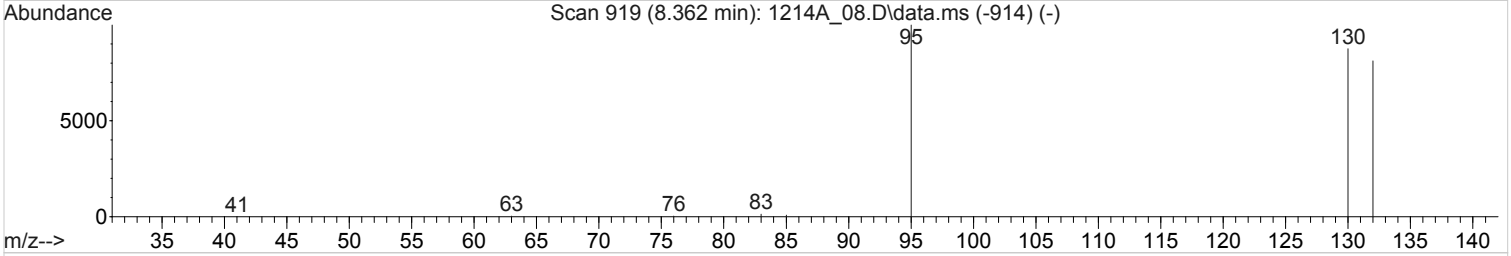
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:45 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration







TIC: 1222A_07.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.1185575 ppbv

Qvalue = 97

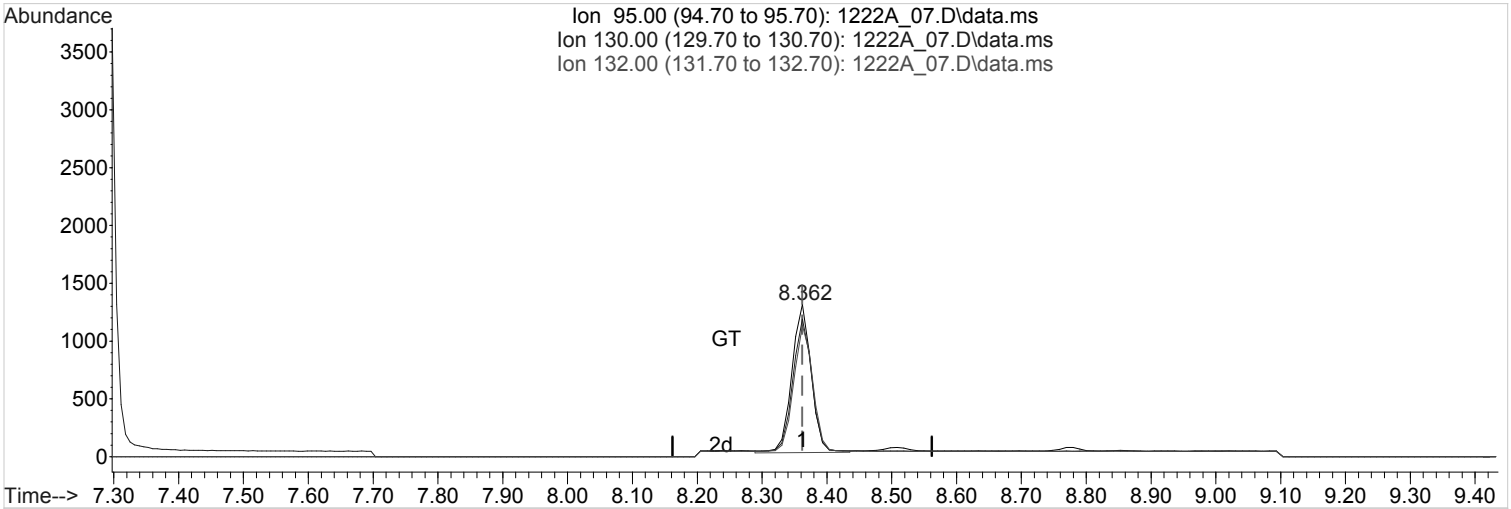
response 2661

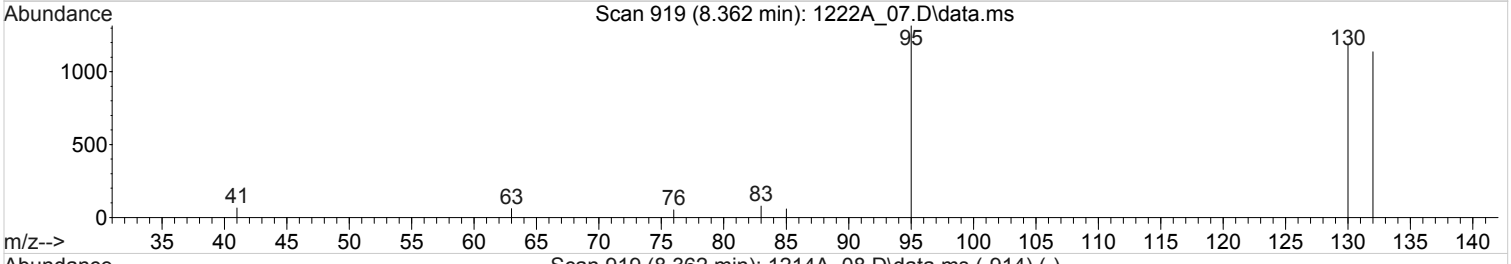
Ion	Exp%	Act%
95.00	100	100
130.00	91.20	86.13
132.00	87.30	88.61
0.00	0.00	0.00

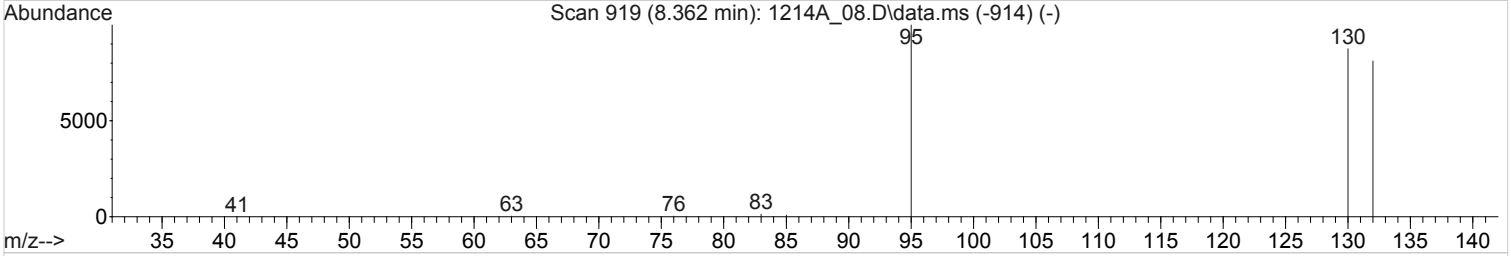
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:45 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration







TIC: 1222A_07.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.1191367 ppbv m

response 2674

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	85.71
132.00	87.30	88.18
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:18:20 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration

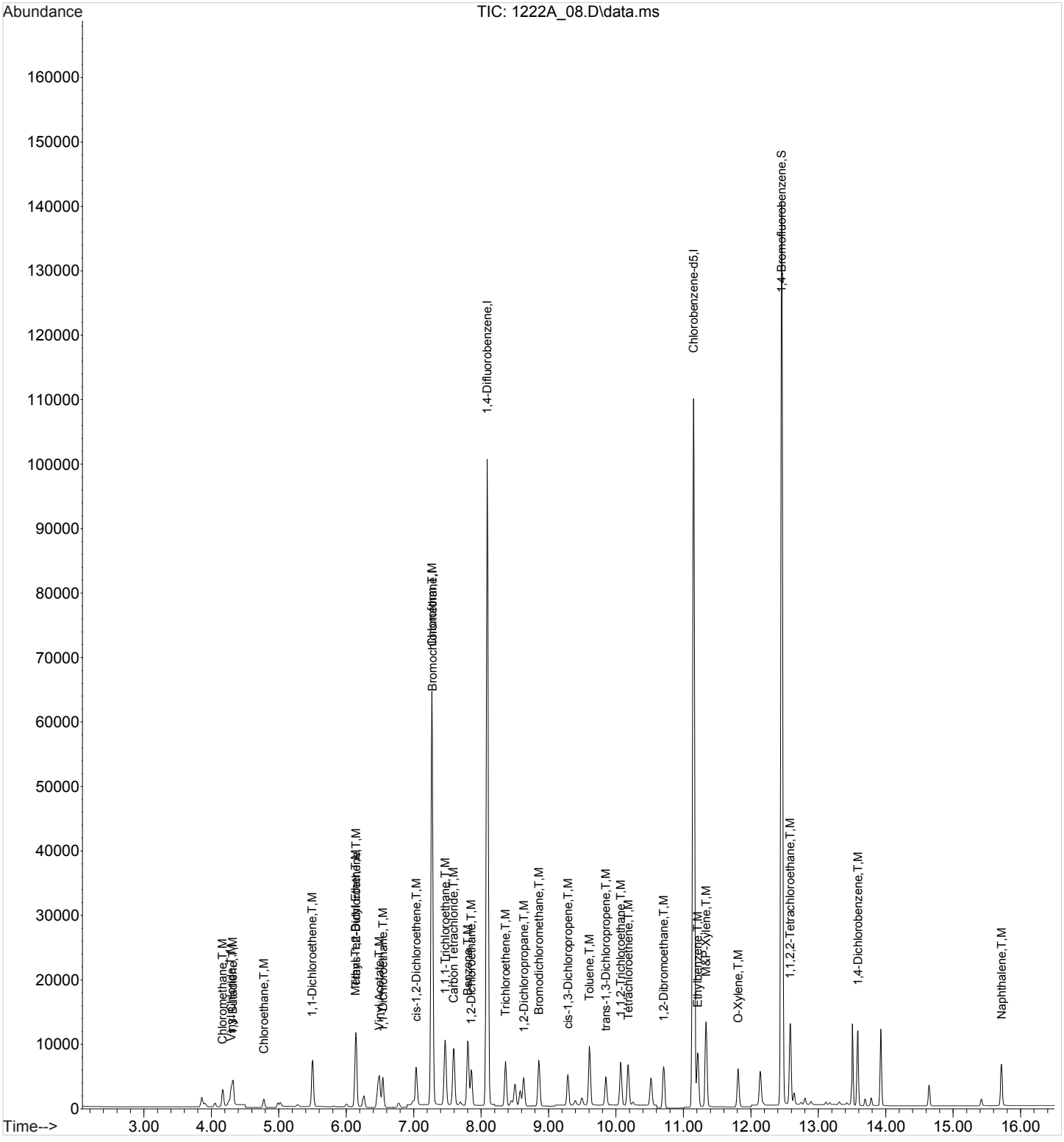
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	38059	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	132381	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	121223	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	79177	1.2839831	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 102.72%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	4129	0.2229096	ppbv	99
3) Vinyl Chloride	4.292	62	3761	0.2413695	ppbv	97
4) 1,3-Butadiene	4.316	39	2720m	0.2393693	ppbv	
5) Chloroethane	4.779	64	1500	0.2530466	ppbv	100
6) 1,1-Dichloroethene	5.495	61	6791	0.2443370	ppbv	100
7) Methyl Tert-Butyl Ether	6.136	73	7764	0.2436373	ppbv	96
8) Trans-1,2-Dichloroethene	6.144	61	6642	0.2551904	ppbv	95
9) 1,1-Dichloroethane	6.544	63	8518	0.2450164	ppbv	100
10) Vinyl Acetate	6.488	43	14209	0.2491016	ppbv	100
11) cis-1,2-Dichloroethene	7.038	96	3602	0.2470132	ppbv #	82
12) Chloroform	7.269	83	8628	0.2423475	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	8752	0.2436293	ppbv	100
14) Carbon Tetrachloride	7.591	117	8990	0.2648679	ppbv	99
15) 1,2-Dichloroethane	7.853	62	6167	0.2464305	ppbv	100
17) Benzene	7.800	78	13577	0.2271176	ppbv	98
18) Trichloroethene	8.362	95	5137m	0.2263907	ppbv	
19) 1,2-Dichloropropane	8.633	63	5028	0.2419209	ppbv	93
20) Bromodichloromethane	8.853	83	9238	0.2421521	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	5533	0.2421185	ppbv	100
22) Toluene	9.606	91	11216	0.2446009	ppbv	100
23) trans-1,3-Dichloropropene	9.847	75	5121	0.2436750	ppbv	100
24) 1,1,2-Trichloroethane	10.069	97	5330	0.2405451	ppbv	100
25) Tetrachloroethene	10.185	166	5876	0.2409946	ppbv	100
26) 1,2-Dibromoethane	10.708	107	6970	0.2427442	ppbv	100
28) Ethylbenzene	11.209	91	12558	0.2557829	ppbv	100
29) M&P-Xylene	11.336	91	17652	0.5159929	ppbv	100
30) O-Xylene	11.808	91	8090	0.2536917	ppbv	100
31) 1,1,2,2-Tetrachloroethane	12.580	83	12513	0.2435974	ppbv	100
33) 1,4-Dichlorobenzene	13.587	146	8736	0.2720796	ppbv	100
34) Naphthalene	15.717	128	9483	0.2676014	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

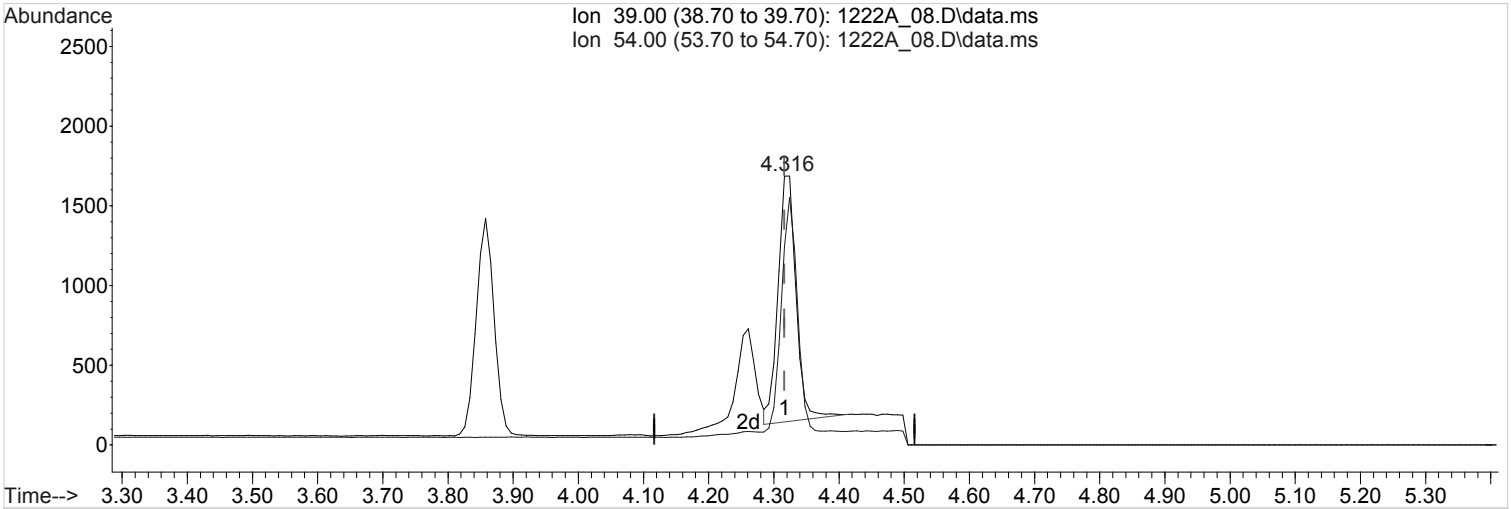
Quant Time: Dec 23 09:18:20 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration

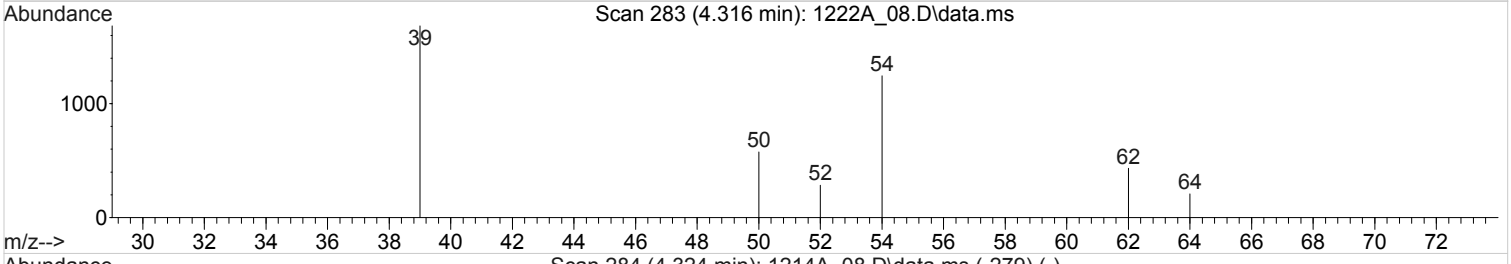


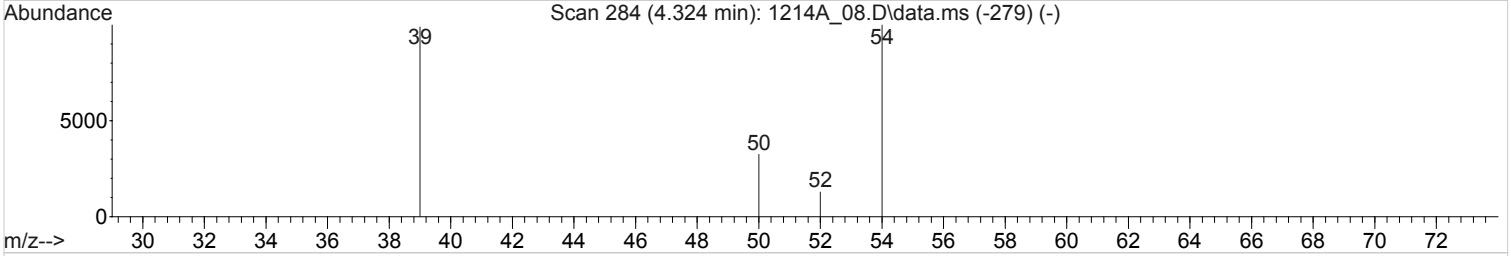
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:17:18 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration







TIC: 1222A_08.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (-0.000) 0.2578501 ppbv

Qvalue = 95

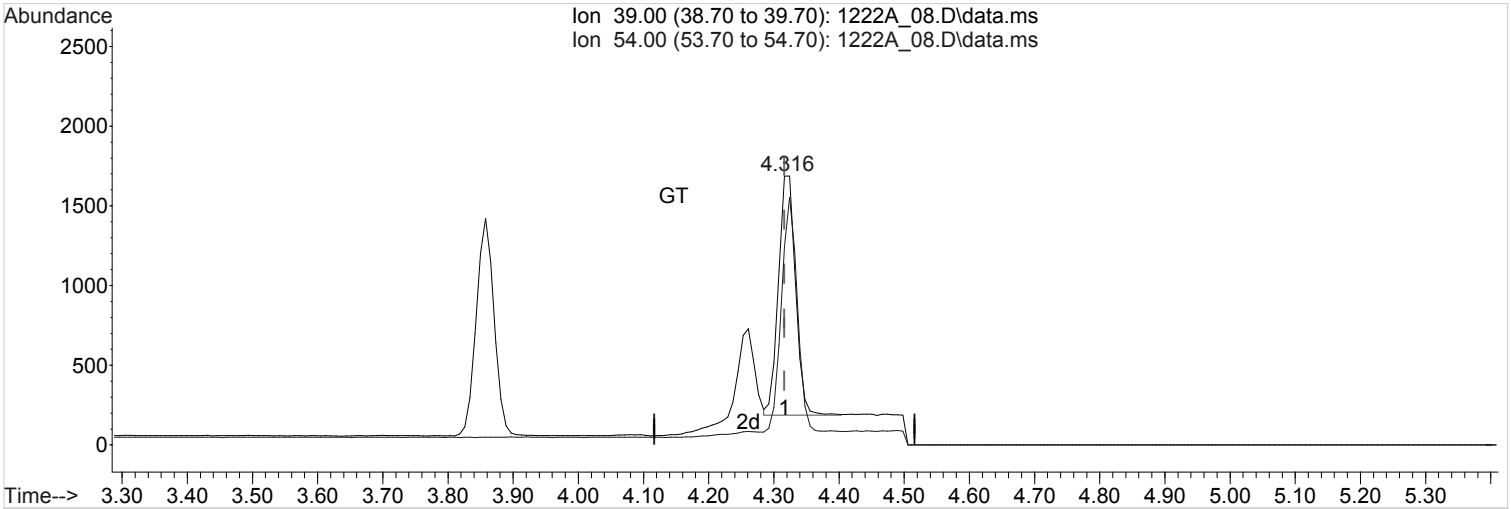
response 2930

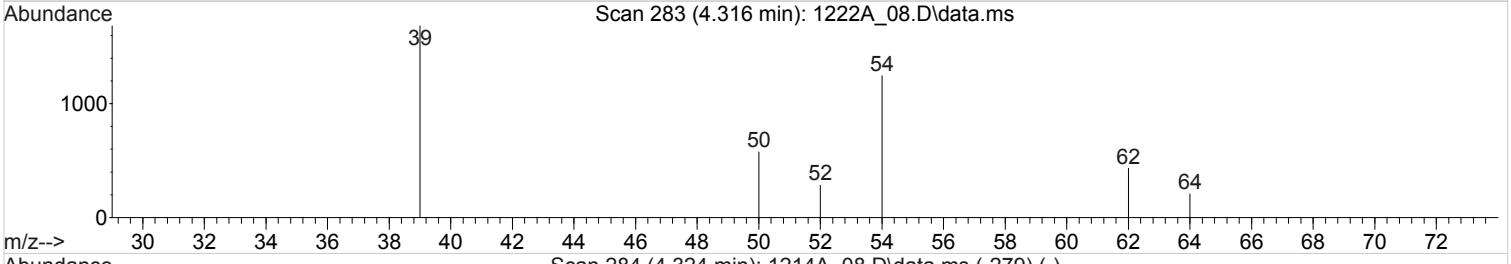
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	85.29
0.00	0.00	0.00
0.00	0.00	0.00

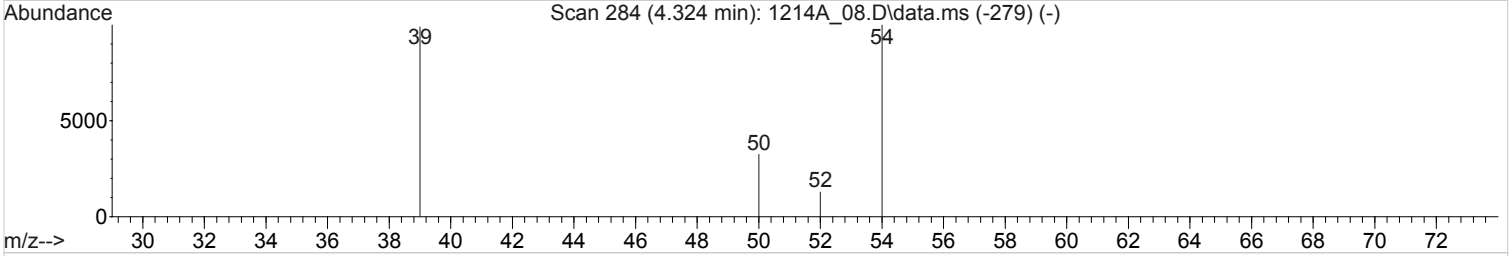
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:17:18 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration







TIC: 1222A_08.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (-0.000) 0.2393693 ppbv m

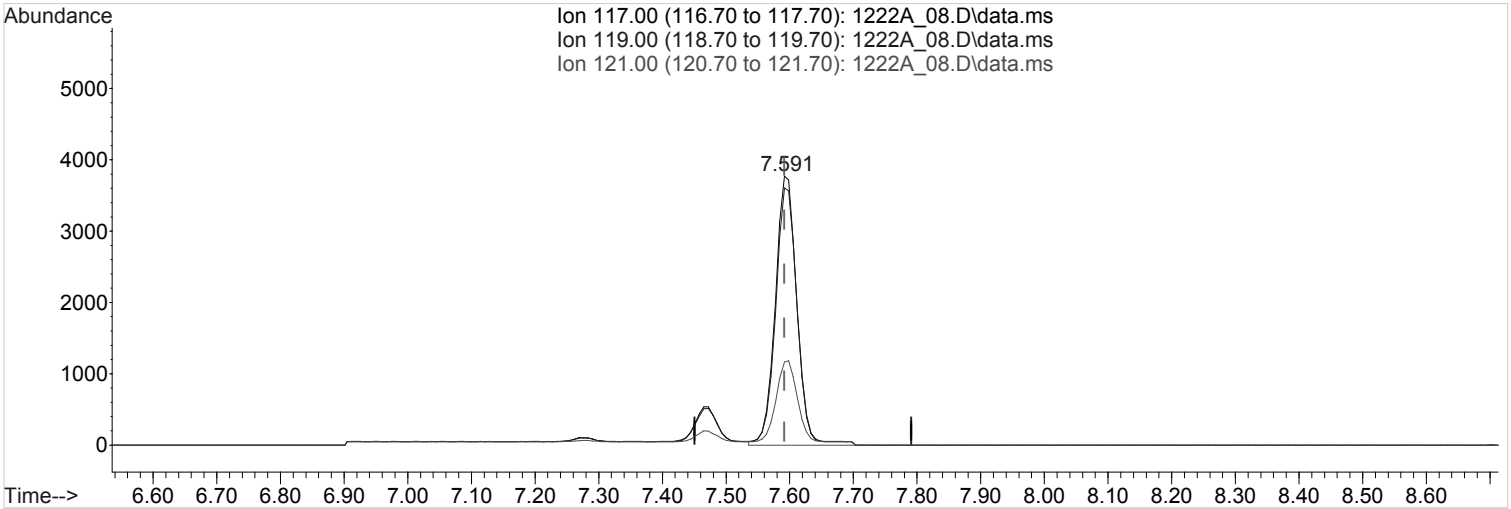
response 2720

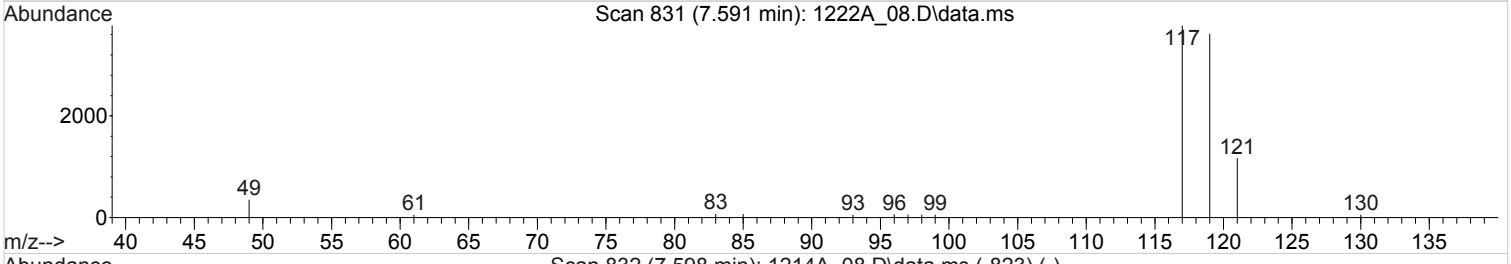
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	91.88
0.00	0.00	0.00
0.00	0.00	0.00

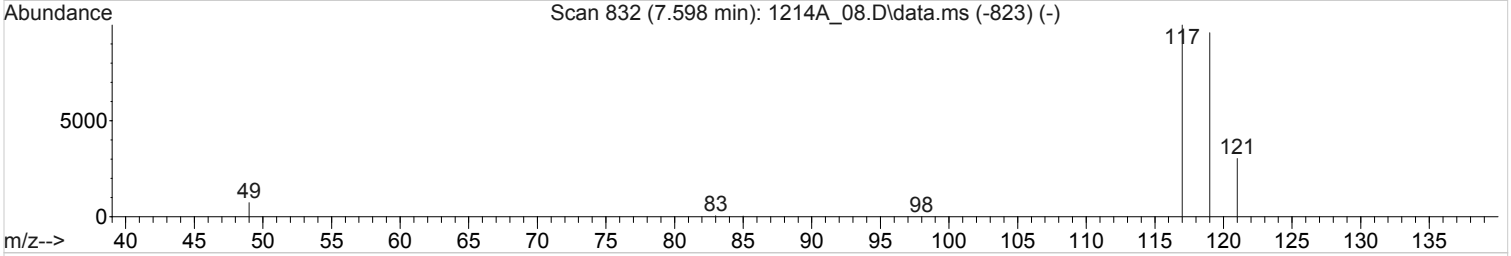
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:17:18 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration







TIC: 1222A_08.D\data.ms

(14) Carbon Tetrachloride (T,M)

7.591min (-0.000) 0.2648679 ppbv

Qvalue = 99

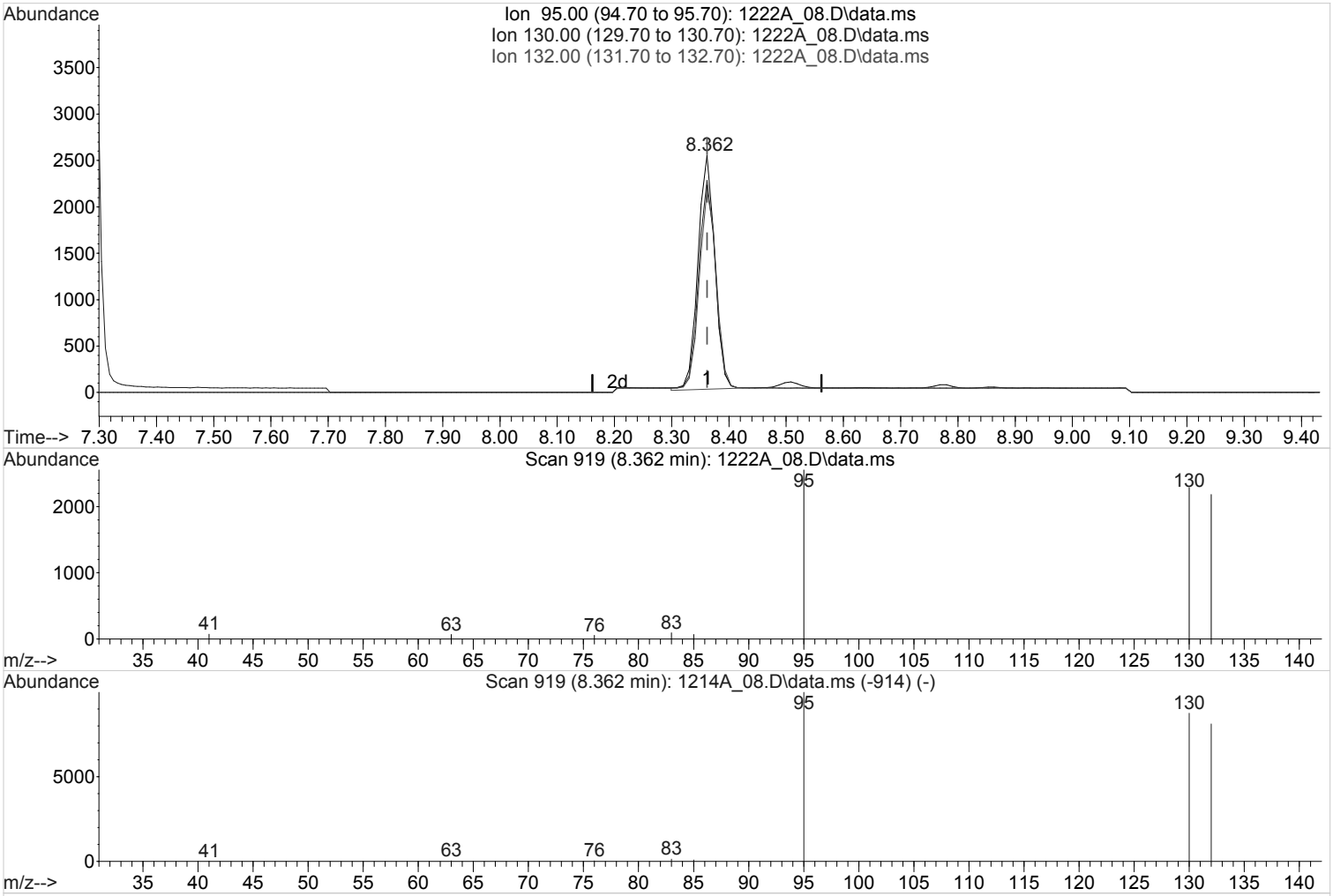
response 8990

Ion	Exp%	Act%
117.00	100	100
119.00	95.90	96.37
121.00	33.70	34.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:17:18 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration



TIC: 1222A_08.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.2270958 ppbv

Qvalue = 100

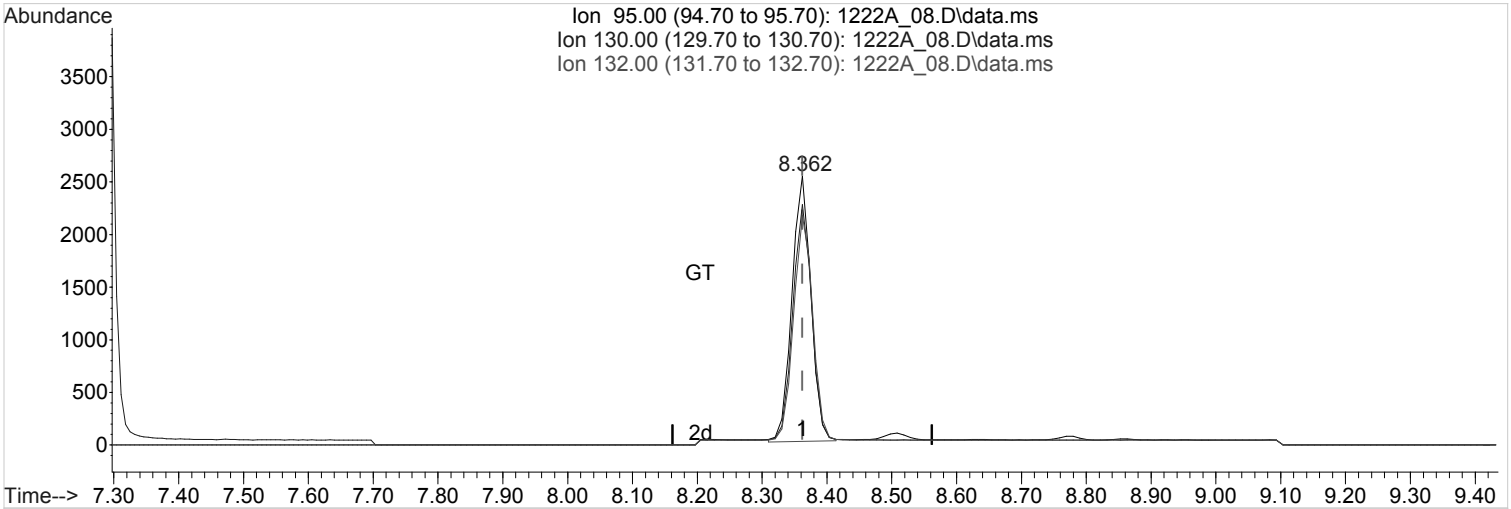
response 5153

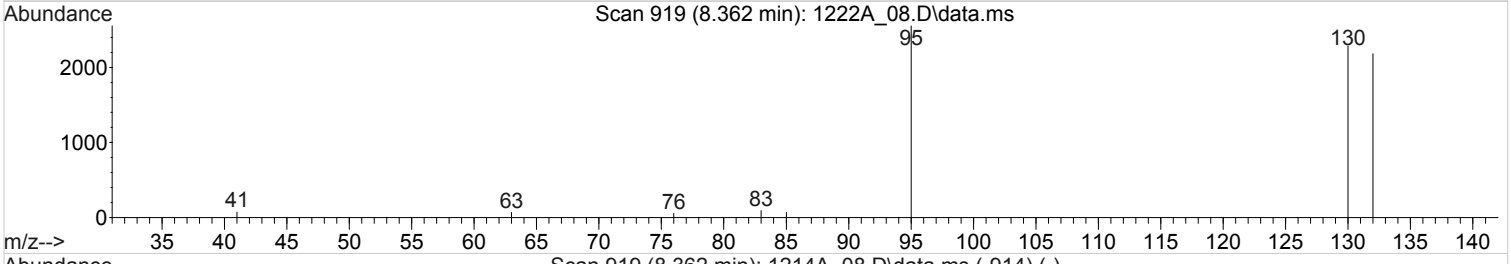
Ion	Exp%	Act%
95.00	100	100
130.00	91.20	91.05
132.00	87.30	87.64
0.00	0.00	0.00

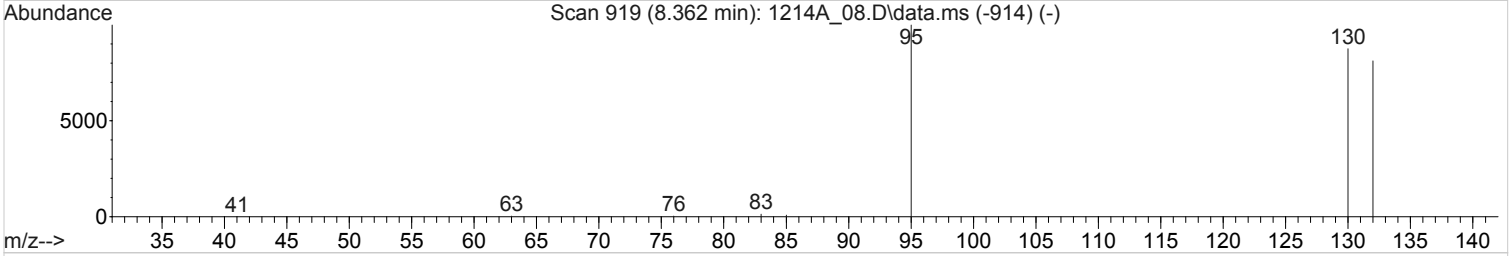
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:17:18 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration







TIC: 1222A_08.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.2263907 ppbv m

response 5137

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	91.34
132.00	87.30	87.91
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_09.D
Acq On : 22 Dec 2022 9:55 pm
Operator :
Sample : STD AMS 0.375 ppbv 22L13276
Misc : 22L15639
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:19:15 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:18:42 2022
Response via : Initial Calibration

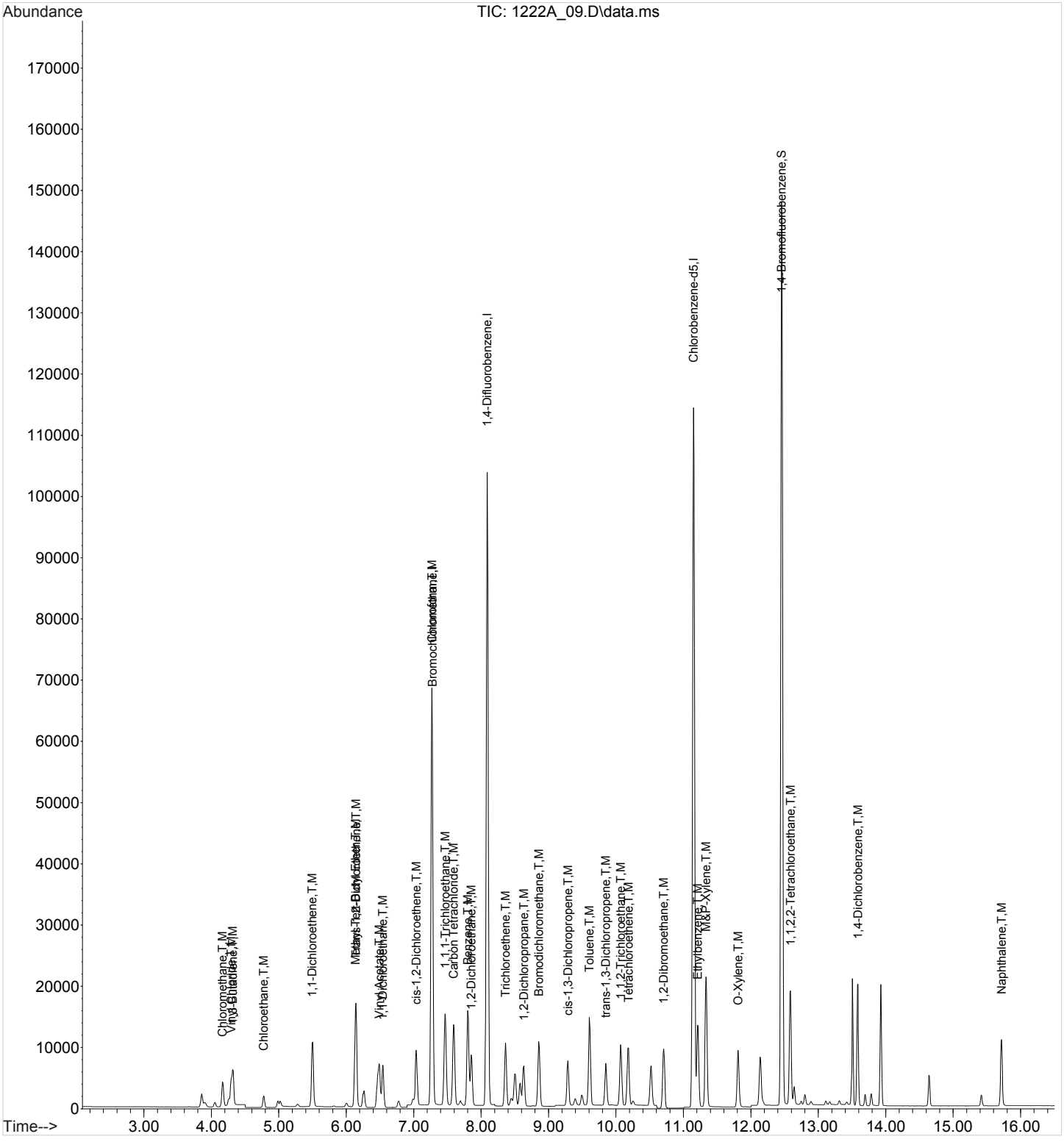
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	38276	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	135942	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	126257	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	83321	1.2914599	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 103.32%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	6089	0.3328709	ppbv	100
3) Vinyl Chloride	4.293	62	5622	0.3608334	ppbv	99
4) 1,3-Butadiene	4.316	39	4011m	0.3534858	ppbv	
5) Chloroethane	4.774	64	2198	0.3679481	ppbv	100
6) 1,1-Dichloroethene	5.495	61	10146	0.3643543	ppbv	100
7) Methyl Tert-Butyl Ether	6.136	73	12277	0.3847046	ppbv	99
8) Trans-1,2-Dichloroethene	6.144	61	9773	0.3720694	ppbv	99
9) 1,1-Dichloroethane	6.541	63	12728	0.3652530	ppbv	100
10) Vinyl Acetate	6.489	43	21097	0.3679804	ppbv	100
11) cis-1,2-Dichloroethene	7.038	96	5458	0.3729121	ppbv	99
12) Chloroform	7.269	83	12765	0.3583450	ppbv	100
13) 1,1,1-Trichloroethane	7.466	97	13033	0.3622812	ppbv	100
14) Carbon Tetrachloride	7.592	117	12596	0.3653840	ppbv	95
15) 1,2-Dichloroethane	7.853	62	9219	0.3671723	ppbv	100
17) Benzene	7.801	78	21081	0.3487277	ppbv	98
18) Trichloroethene	8.362	95	7638	0.3330355	ppbv	99
19) 1,2-Dichloropropane	8.634	63	7624	0.3591522	ppbv	92
20) Bromodichloromethane	8.853	83	13752	0.3528795	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	8378	0.3588951	ppbv	100
22) Toluene	9.606	91	17764	0.3786159	ppbv	100
23) trans-1,3-Dichloropropene	9.847	75	7832	0.3644483	ppbv	99
24) 1,1,2-Trichloroethane	10.069	97	7916	0.3501009	ppbv	99
25) Tetrachloroethene	10.185	166	8808	0.3539077	ppbv	100
26) 1,2-Dibromoethane	10.709	107	10526	0.3587215	ppbv	100
28) Ethylbenzene	11.210	91	20126	0.3920730	ppbv	100
29) M&P-Xylene	11.336	91	28719	0.8017512	ppbv	100
30) O-Xylene	11.808	91	12771	0.3835700	ppbv	100
31) 1,1,2,2-Tetrachloroethane	12.588	83	18849	0.3538236	ppbv	99
33) 1,4-Dichlorobenzene	13.588	146	14647	0.4316338	ppbv	100
34) Naphthalene	15.718	128	15870	0.4249939	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_09.D
Acq On : 22 Dec 2022 9:55 pm
Operator :
Sample : STD AMS 0.375 ppbv 22L13276
Misc : 22L15639
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:19:15 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:18:42 2022
Response via : Initial Calibration

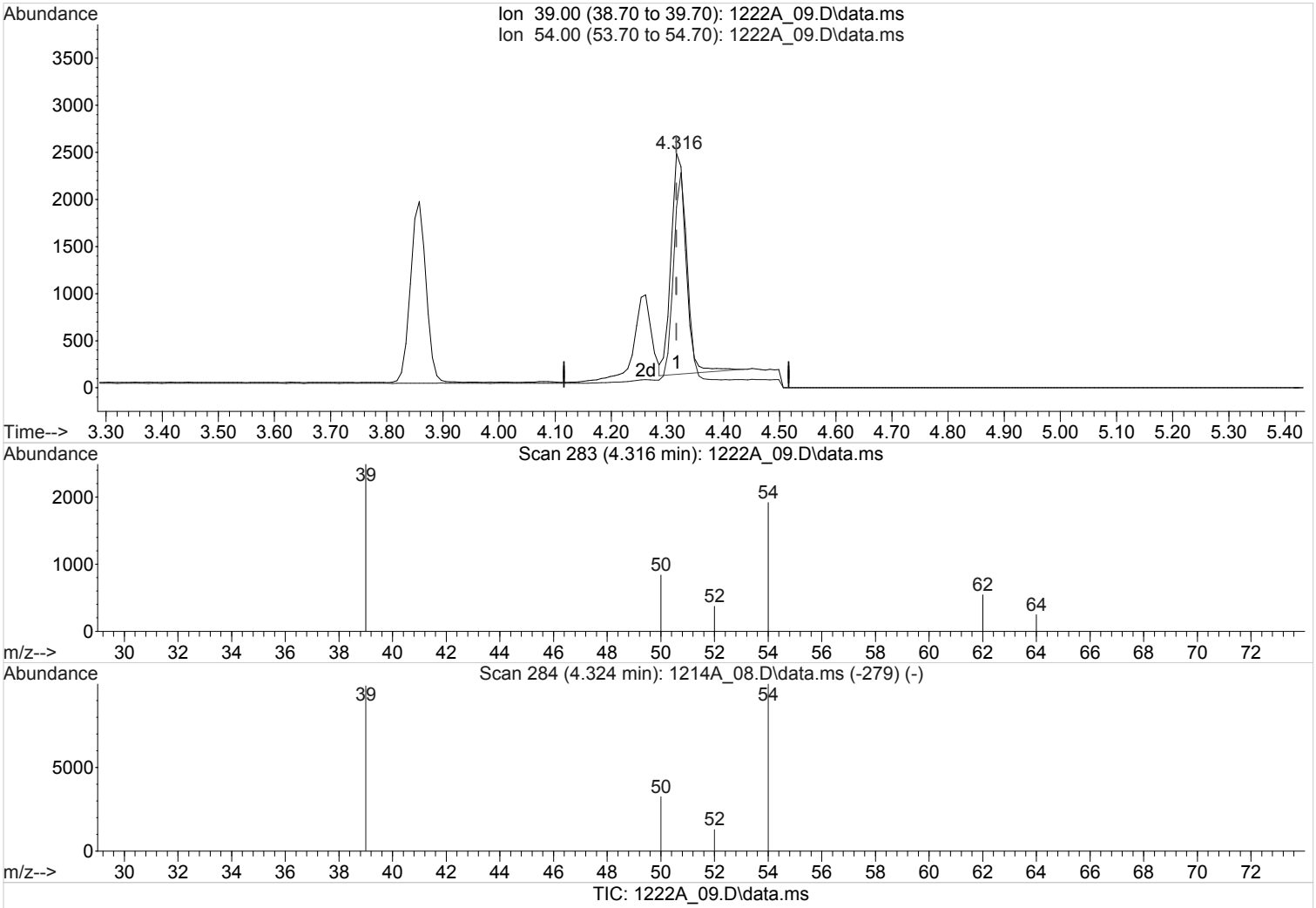


ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	411 of 471

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_09.D
Acq On : 22 Dec 2022 9:55 pm
Operator :
Sample : STD AMS 0.375 ppbv 22L13276
Misc : 22L15639
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:18:52 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:18:42 2022
Response via : Initial Calibration



TIC: 1222A_09.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.3823921 ppbv

Qvalue = 96

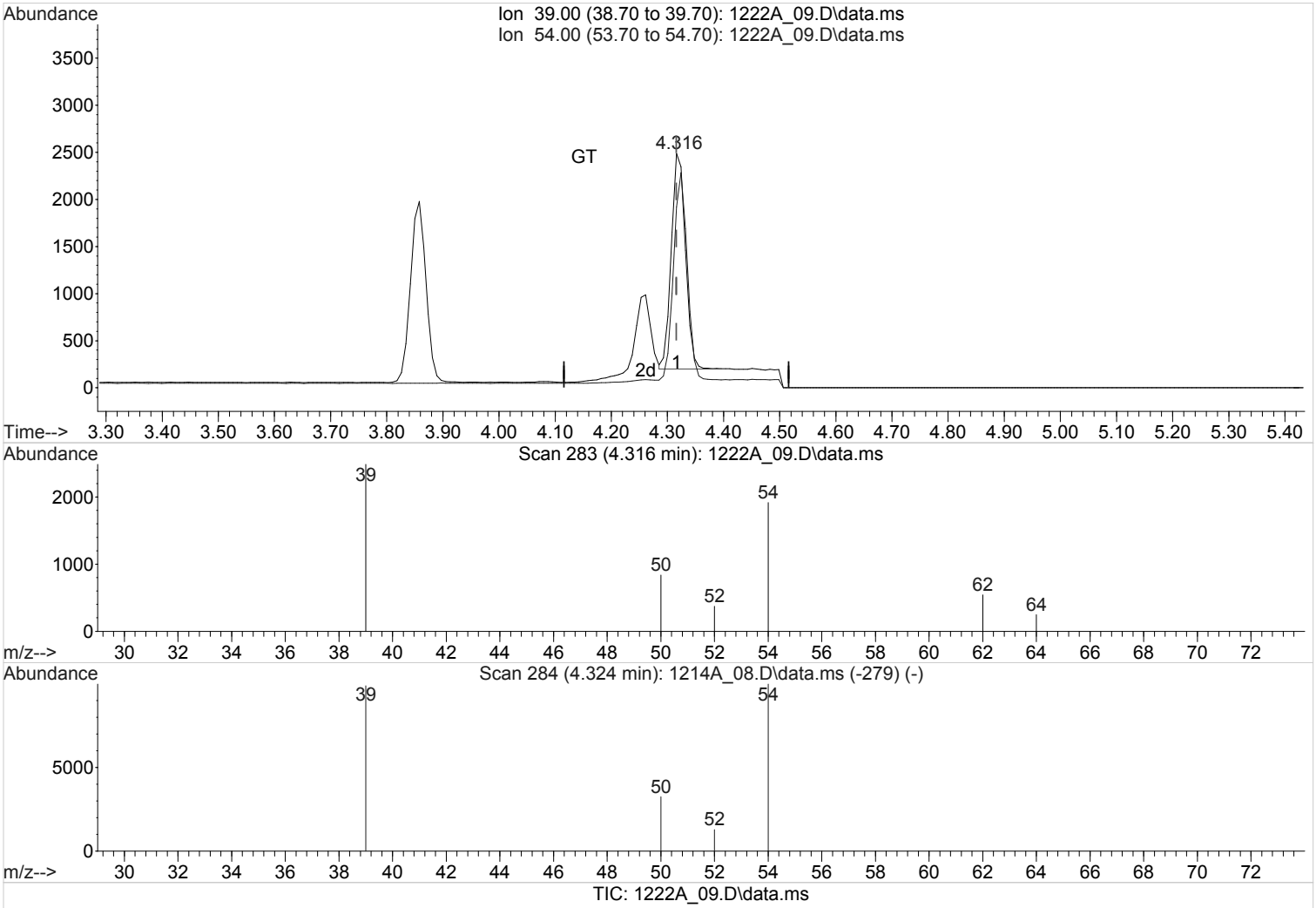
response 4339

Ion	Exp%	Act%
39.00	100	100
54.00	90.30	86.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_09.D
Acq On : 22 Dec 2022 9:55 pm
Operator :
Sample : STD AMS 0.375 ppbv 22L13276
Misc : 22L15639
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:18:52 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:18:42 2022
Response via : Initial Calibration



TIC: 1222A_09.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.3534858 ppbv m

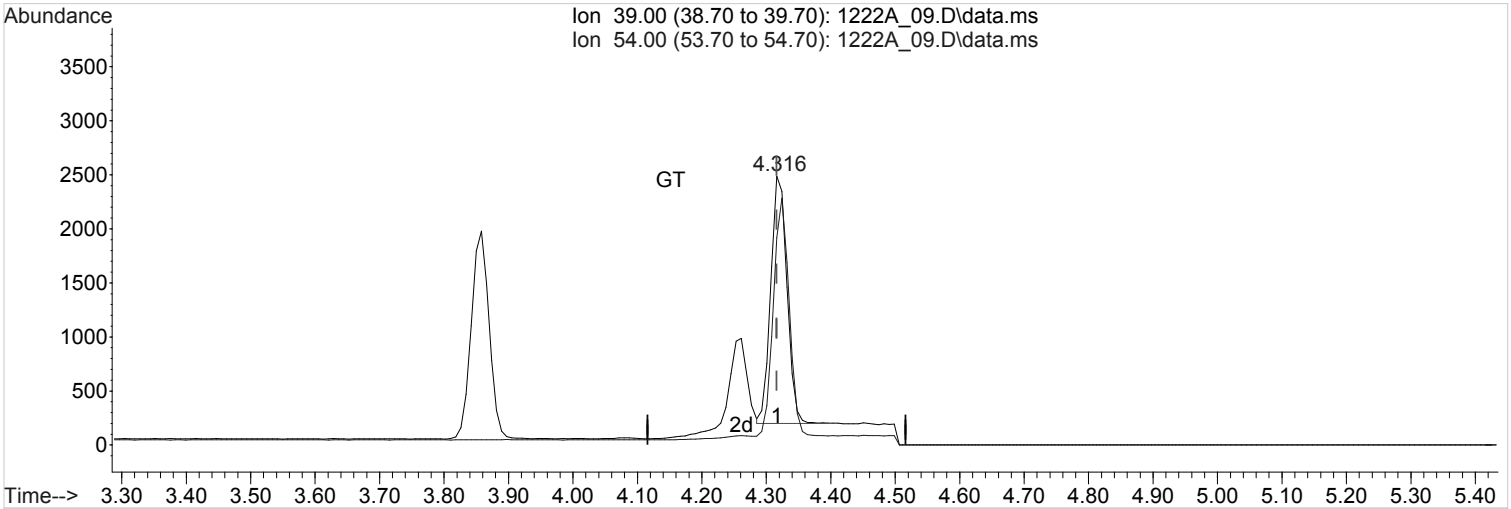
response 4011

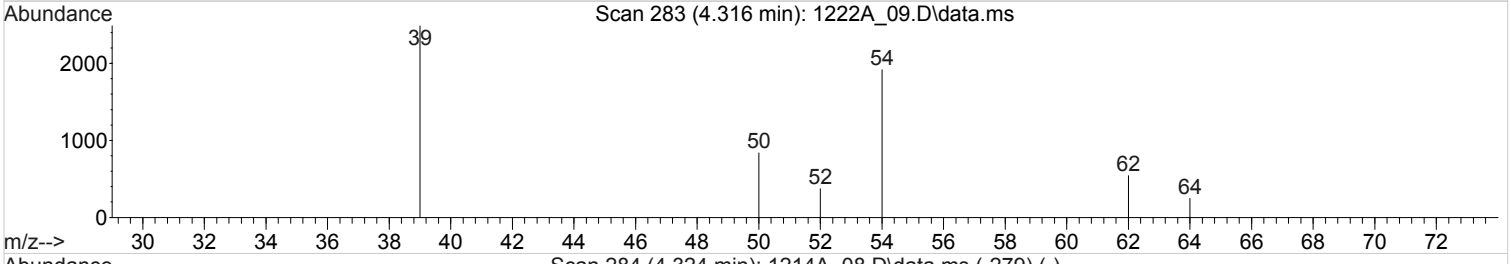
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	93.94
0.00	0.00	0.00
0.00	0.00	0.00

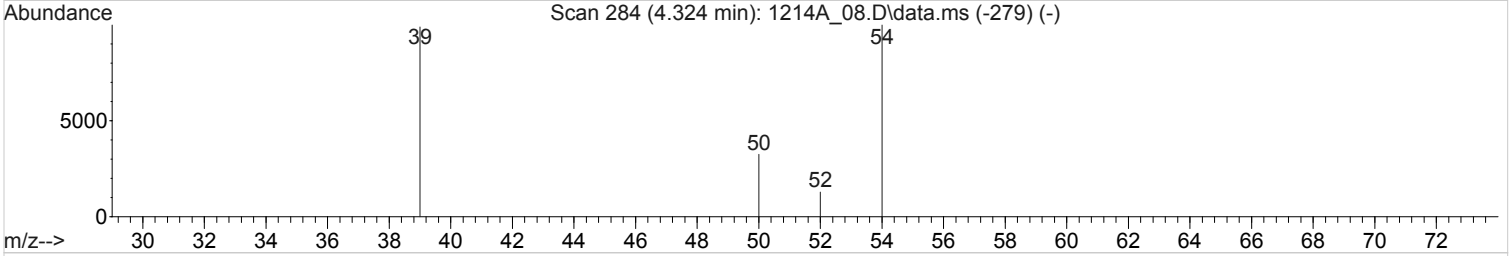
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_09.D
Acq On : 22 Dec 2022 9:55 pm
Operator :
Sample : STD AMS 0.375 ppbv 22L13276
Misc : 22L15639
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:18:52 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:18:42 2022
Response via : Initial Calibration







TIC: 1222A_09.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.3534858 ppbv m

response 4011

Ion	Exp%	Act%
39.00	100	100
54.00	90.30	93.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_10.D
Acq On : 22 Dec 2022 10:37 pm
Operator :
Sample : MSTD AMS 0.5 ppbv 22L13276
Misc : 22L15639
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:21:32 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:20:36 2022
Response via : Initial Calibration

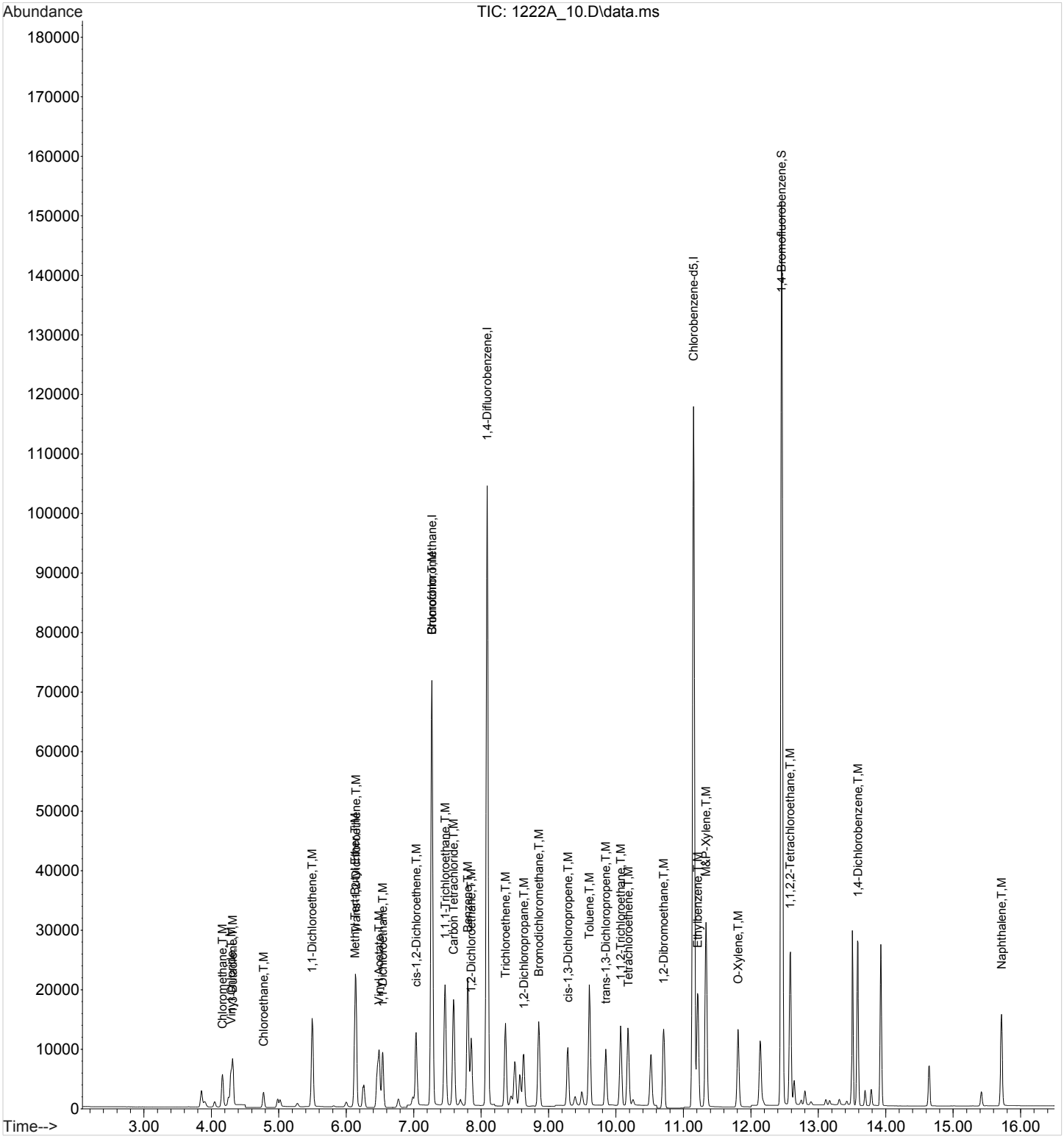
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.269	130	38136	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	137471	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	128213	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	85600	1.3003812	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 104.03%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	8061	0.4502709	ppbv	100
3) Vinyl Chloride	4.293	62	7373	0.4784011	ppbv	100
4) 1,3-Butadiene	4.316	39	5226m	0.4669074	ppbv	
5) Chloroethane	4.774	64	2925	0.4936832	ppbv	100
6) 1,1-Dichloroethene	5.495	61	13684	0.4961300	ppbv	100
7) Methyl Tert-Butyl Ether	6.128	73	16229	0.5095078	ppbv	100
8) Trans-1,2-Dichloroethene	6.144	61	13054	0.5002969	ppbv	100
9) 1,1-Dichloroethane	6.541	63	17053	0.4939014	ppbv	100
10) Vinyl Acetate	6.485	43	29028	0.5104808	ppbv	100
11) cis-1,2-Dichloroethene	7.038	96	7423	0.5103905	ppbv	100
12) Chloroform	7.269	83	17158	0.4874035	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	17480	0.4909495	ppbv	100
14) Carbon Tetrachloride	7.592	117	16846	0.4931716	ppbv	100
15) 1,2-Dichloroethane	7.853	62	12453	0.5002083	ppbv	100
17) Benzene	7.801	78	28751	0.4759121	ppbv	100
18) Trichloroethene	8.362	95	10268	0.4506877	ppbv	100
19) 1,2-Dichloropropane	8.634	63	10334	0.4852034	ppbv	100
20) Bromodichloromethane	8.853	83	18434	0.4725778	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	11380	0.4859275	ppbv	100
22) Toluene	9.606	91	24924	0.5255868	ppbv	100
23) trans-1,3-Dichloropropene	9.847	75	10737	0.4969759	ppbv	100
24) 1,1,2-Trichloroethane	10.069	97	10720	0.4741700	ppbv	100
25) Tetrachloroethene	10.185	166	11927	0.4785943	ppbv	100
26) 1,2-Dibromoethane	10.708	107	14285	0.4852940	ppbv	100
28) Ethylbenzene	11.210	91	28711	0.5482953	ppbv	100
29) M&P-Xylene	11.336	91	41263	1.1255363	ppbv	100
30) O-Xylene	11.808	91	17885	0.5282622	ppbv	100
31) 1,1,2,2-Tetrachloroethane	12.581	83	25441	0.4749534	ppbv	100
33) 1,4-Dichlorobenzene	13.588	146	20665	0.5882693	ppbv	100
34) Naphthalene	15.718	128	22397	0.5808104	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_10.D
Acq On : 22 Dec 2022 10:37 pm
Operator :
Sample : MSTD AMS 0.5 ppbv 22L13276
Misc : 22L15639
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS7

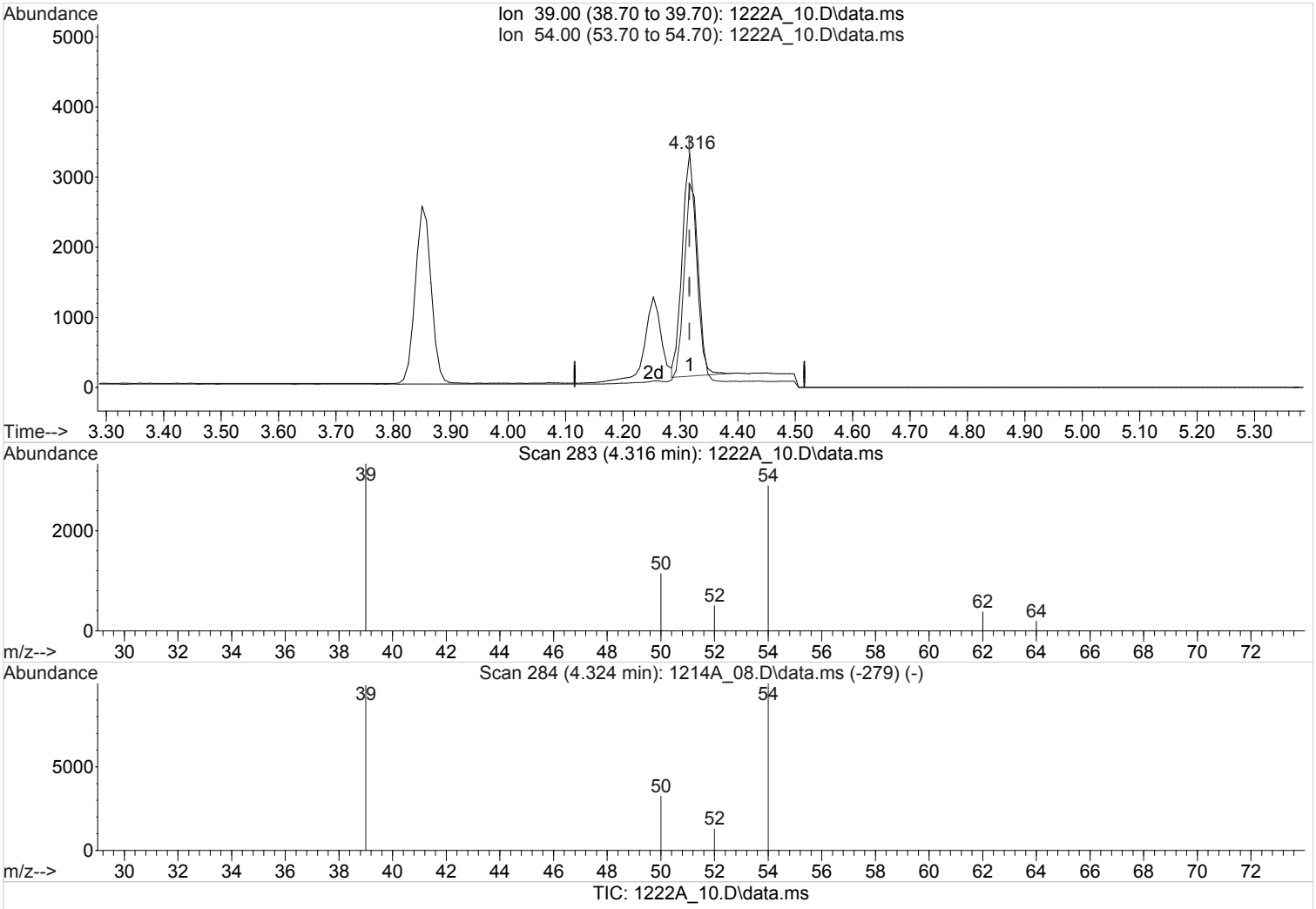
Quant Time: Dec 23 09:21:32 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:20:36 2022
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_10.D
Acq On : 22 Dec 2022 10:37 pm
Operator :
Sample : MSTD AMS 0.5 ppbv 22L13276
Misc : 22L15639
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:21:10 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:20:36 2022
Response via : Initial Calibration



TIC: 1222A_10.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (0.000) 0.4858482 ppbv

Qvalue = 100

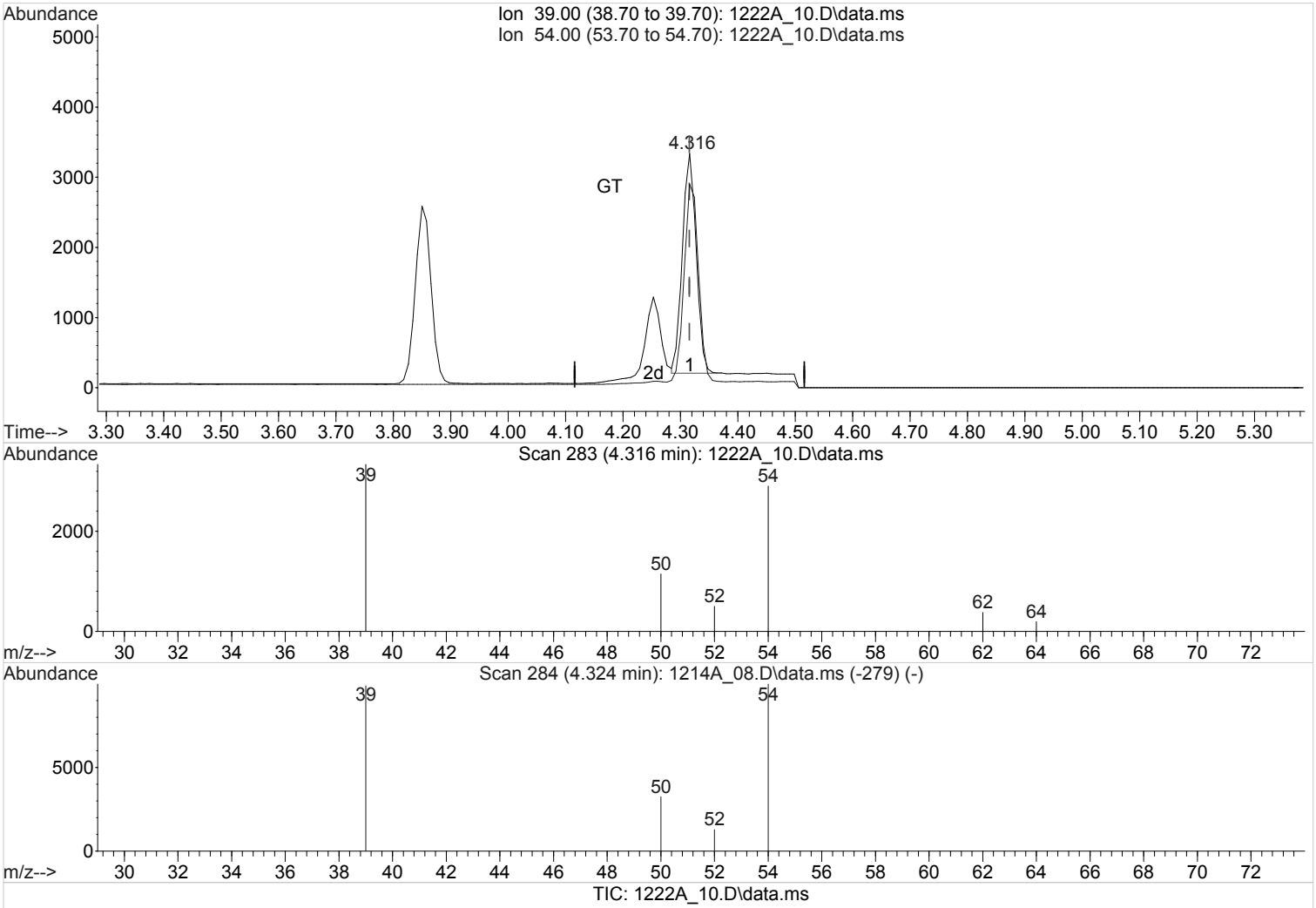
response 5438

Ion	Exp%	Act%
39.00	100	100
54.00	90.30	90.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_10.D
Acq On : 22 Dec 2022 10:37 pm
Operator :
Sample : MSTD AMS 0.5 ppbv 22L13276
Misc : 22L15639
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:21:10 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:20:36 2022
Response via : Initial Calibration



TIC: 1222A_10.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (0.000) 0.4669074 ppbv m

response 5226

Ion	Exp%	Act%
39.00	100	100
54.00	90.30	93.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_11.D
Acq On : 22 Dec 2022 11:14 pm
Operator :
Sample : STD AMS 1.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:22:54 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:22:10 2022
Response via : Initial Calibration

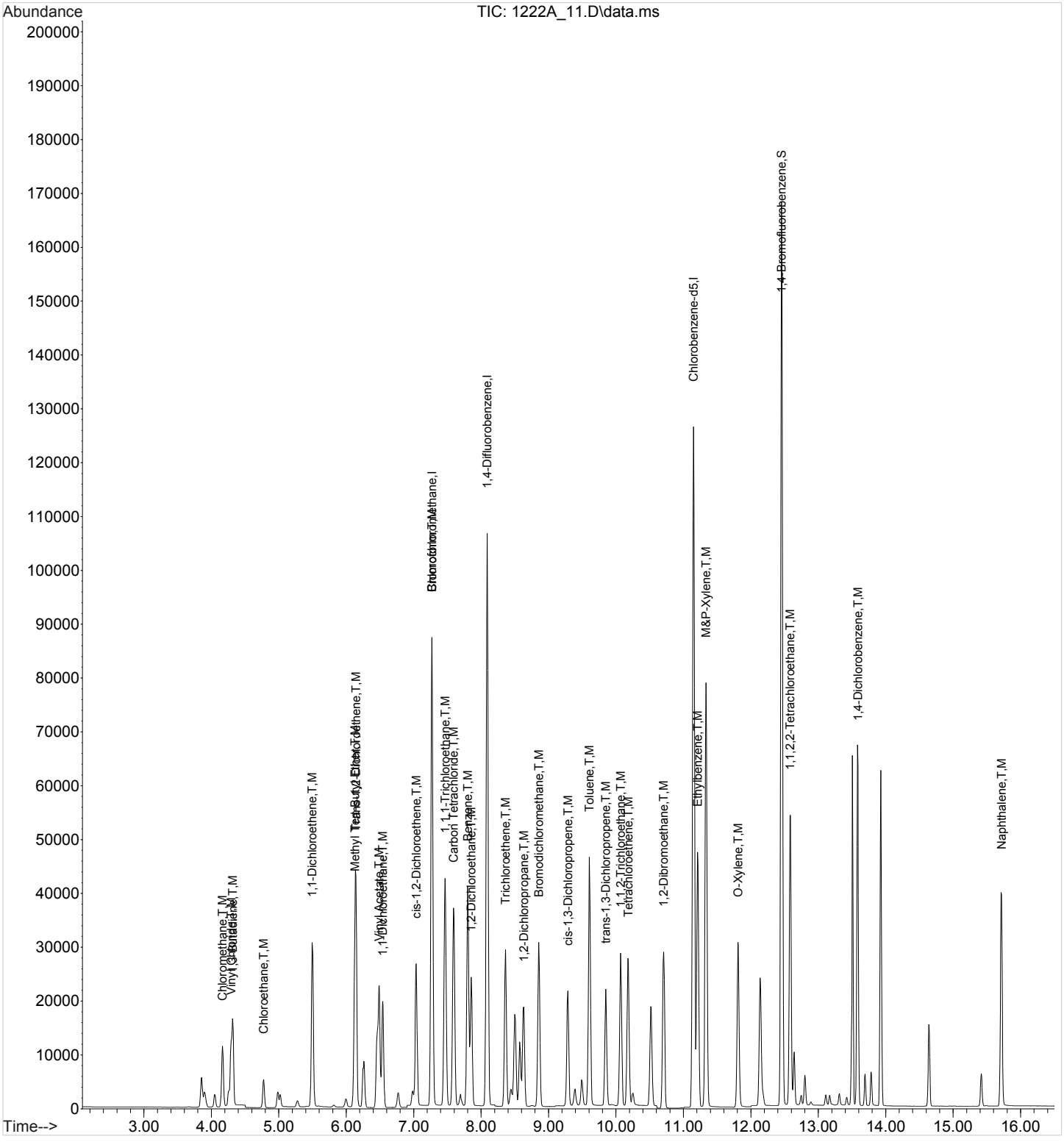
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.269	130	37973	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	139895	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	137269	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	92916	1.3183994	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 105.47%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	16534	0.9275196	ppbv	99
3) Vinyl Chloride	4.293	62	14760	0.9618216	ppbv	99
4) 1,3-Butadiene	4.316	39	11079m	0.9994907	ppbv	
5) Chloroethane	4.774	64	5913	1.0022835	ppbv	100
6) 1,1-Dichloroethene	5.495	61	28430	1.0354676	ppbv	100
7) Methyl Tert-Butyl Ether	6.128	73	33737	1.0637162	ppbv	98
8) Trans-1,2-Dichloroethene	6.144	61	27424	1.0555413	ppbv	99
9) 1,1-Dichloroethane	6.541	63	35805	1.0414619	ppbv	100
10) Vinyl Acetate	6.485	43	65277	1.1528762	ppbv	99
11) cis-1,2-Dichloroethene	7.038	96	16101	1.1118245	ppbv	99
12) Chloroform	7.269	83	35703	1.0185608	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	36375	1.0260266	ppbv	100
14) Carbon Tetrachloride	7.592	117	35244	1.0362073	ppbv	99
15) 1,2-Dichloroethane	7.853	62	26226	1.0579598	ppbv	100
17) Benzene	7.801	78	53922	0.8770991	ppbv	99
18) Trichloroethene	8.362	95	21442	0.9248344	ppbv	99
19) 1,2-Dichloropropane	8.634	63	22232	1.0257530	ppbv	98
20) Bromodichloromethane	8.853	83	38870	0.9792130	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	24945	1.0466986	ppbv	100
22) Toluene	9.606	91	56138	1.1633022	ppbv	99
23) trans-1,3-Dichloropropene	9.847	75	24387	1.1092251	ppbv	100
24) 1,1,2-Trichloroethane	10.069	97	22585	0.9816762	ppbv	100
25) Tetrachloroethene	10.185	166	25384	1.0009336	ppbv	100
26) 1,2-Dibromoethane	10.708	107	31357	1.0468105	ppbv	100
28) Ethylbenzene	11.210	91	70299	1.2539347	ppbv	100
29) M&P-Xylene	11.336	91	103702	2.6425194	ppbv	100
30) O-Xylene	11.808	91	42280	1.1664206	ppbv	100
31) 1,1,2,2-Tetrachloroethane	12.581	83	53676	0.9359585	ppbv	100
33) 1,4-Dichlorobenzene	13.588	146	48519	1.2900669	ppbv	100
34) Naphthalene	15.718	128	58764	1.4233623	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_11.D
Acq On : 22 Dec 2022 11:14 pm
Operator :
Sample : STD AMS 1.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS7

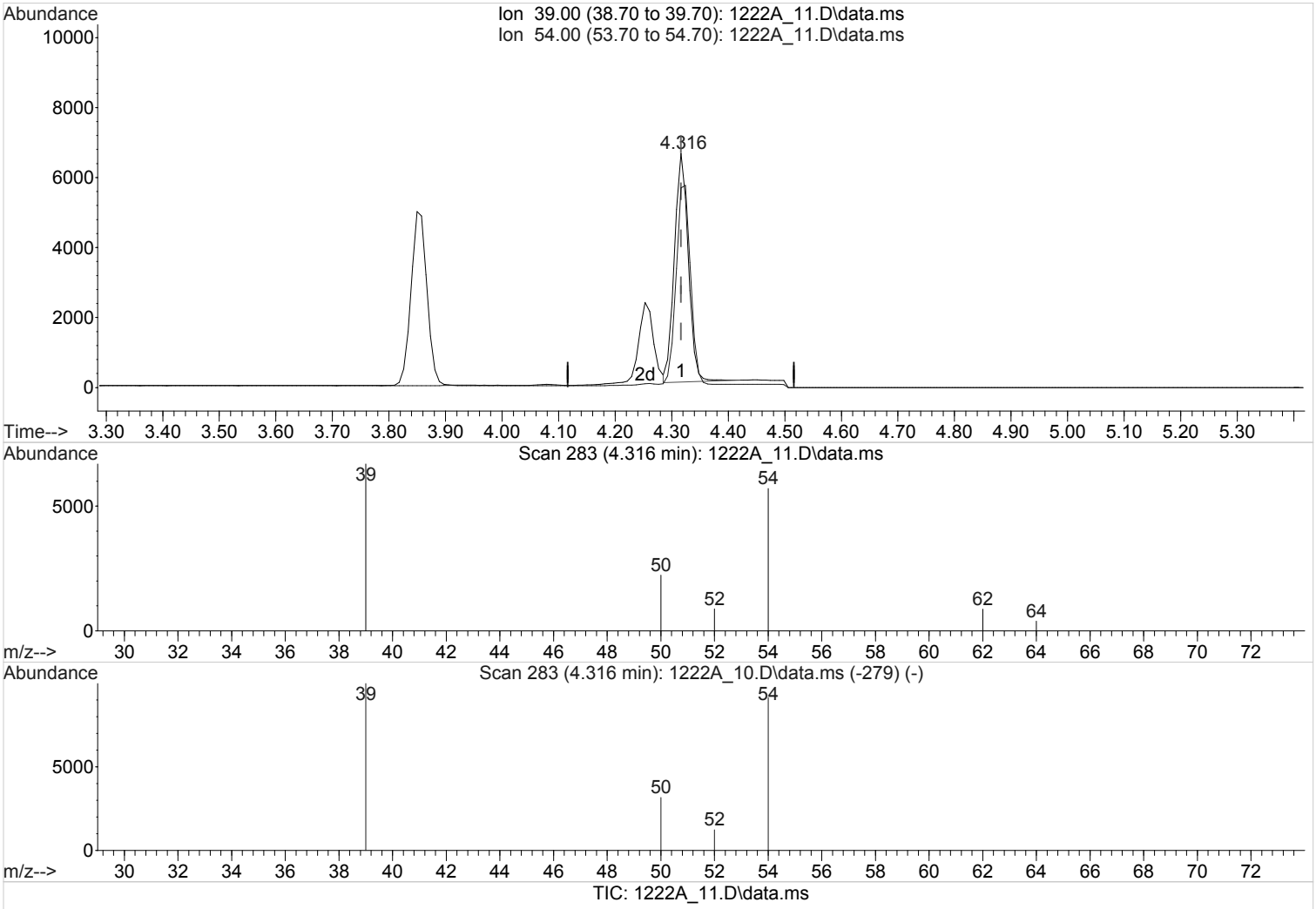
Quant Time: Dec 23 09:22:54 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:22:10 2022
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_11.D
Acq On : 22 Dec 2022 11:14 pm
Operator :
Sample : STD AMS 1.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:22:29 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:22:10 2022
Response via : Initial Calibration



TIC: 1222A_11.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 1.0108578 ppbv

Qvalue = 100

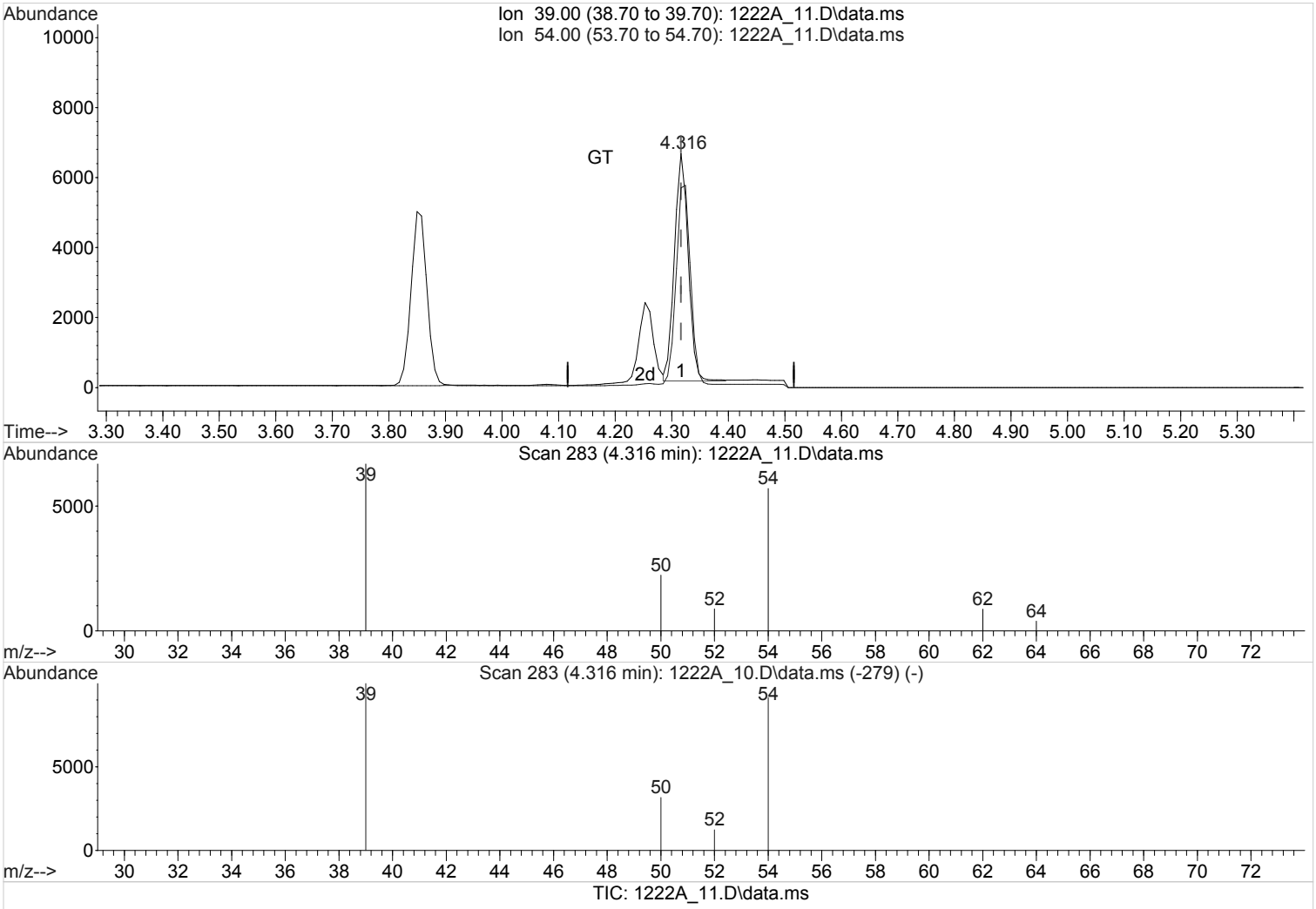
response 11205

Ion	Exp%	Act%
39.00	100	100
54.00	90.30	90.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_11.D
Acq On : 22 Dec 2022 11:14 pm
Operator :
Sample : STD AMS 1.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:22:29 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:22:10 2022
Response via : Initial Calibration



TIC: 1222A_11.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.9994907 ppbv m

response 11079

Ion	Exp%	Act%
39.00	100	100
54.00	90.30	91.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_12.D
Acq On : 22 Dec 2022 11:56 pm
Operator :
Sample : STD AMS 5.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:23:55 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:23:30 2022
Response via : Initial Calibration

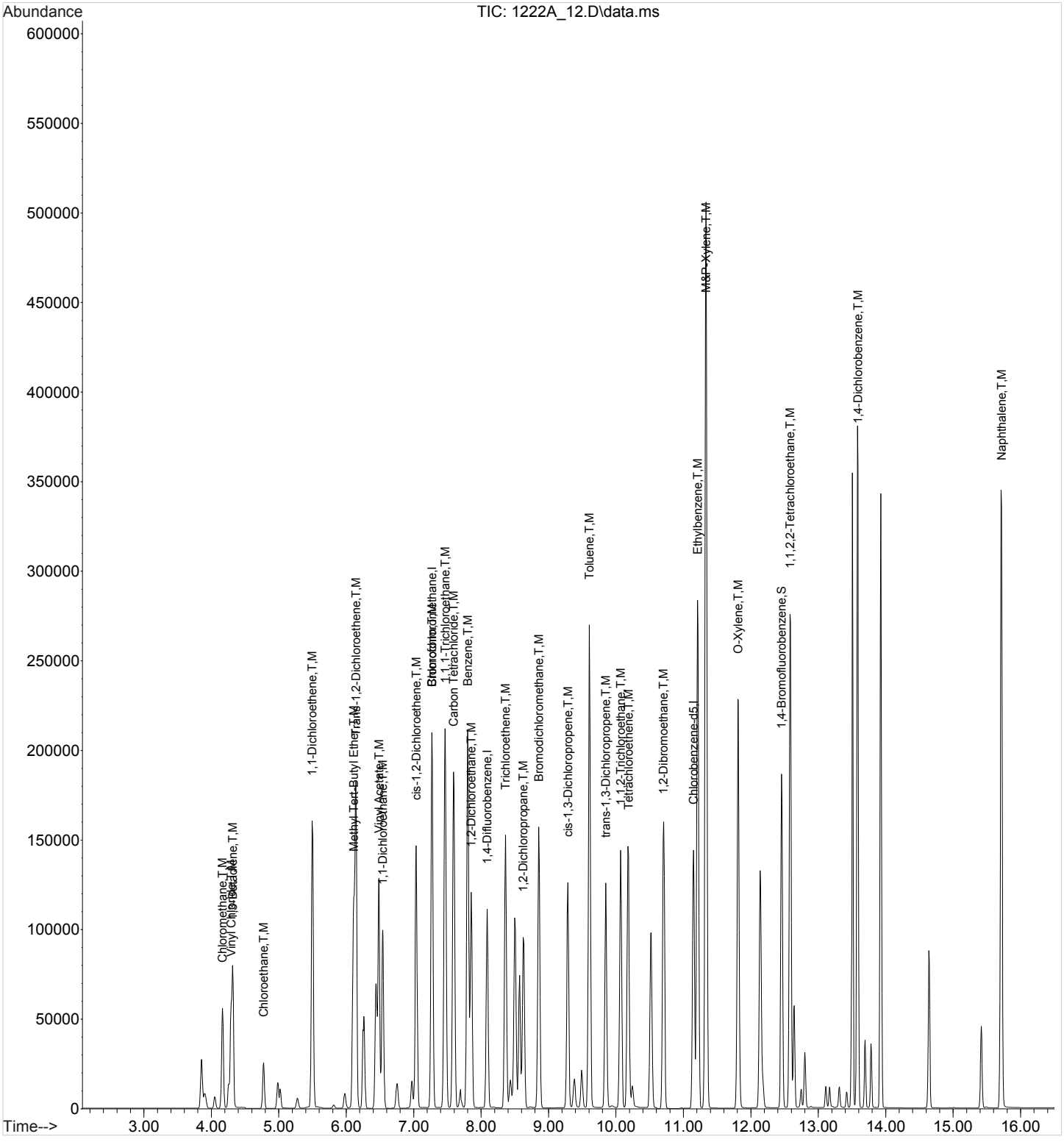
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.269	130	38790	1.2500000	ppbv	# 0.00
16) 1,4-Difluorobenzene	8.091	114	146250	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	156311	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	102859	1.2729792	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 101.84%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	80814	4.4785721	ppbv	99
3) Vinyl Chloride	4.292	62	70627	4.5270114	ppbv	98
4) 1,3-Butadiene	4.316	39	54103	4.7783982	ppbv	98
5) Chloroethane	4.774	64	28822	4.7812120	ppbv	100
6) 1,1-Dichloroethene	5.495	61	149142	5.2941174	ppbv	100
7) Methyl Tert-Butyl Ether	6.112	73	197784	6.0564810	ppbv	96
8) Trans-1,2-Dichloroethene	6.144	61	144160	5.3943559	ppbv	91
9) 1,1-Dichloroethane	6.540	63	181063	5.1290807	ppbv	100
10) Vinyl Acetate	6.485	43	368247m	6.2473521	ppbv	
11) cis-1,2-Dichloroethene	7.038	96	88671	5.9114166	ppbv	99
12) Chloroform	7.269	83	178036	4.9606521	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	183805	5.0589161	ppbv	99
14) Carbon Tetrachloride	7.591	117	181457	5.1991121	ppbv	97
15) 1,2-Dichloroethane	7.853	62	129859	5.0913058	ppbv	99
17) Benzene	7.800	78	283609	4.4815959	ppbv	96
18) Trichloroethene	8.362	95	111641	4.6497385	ppbv	98
19) 1,2-Dichloropropane	8.623	63	115176	5.0668352	ppbv	94
20) Bromodichloromethane	8.853	83	199687	4.8244597	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	144477	5.7652140	ppbv	100
22) Toluene	9.606	91	320949	6.2345064	ppbv	98
23) trans-1,3-Dichloropropene	9.847	75	140453	6.0285000	ppbv	99
24) 1,1,2-Trichloroethane	10.069	97	115900	4.8298516	ppbv	99
25) Tetrachloroethene	10.185	166	134936	5.0889558	ppbv	100
26) 1,2-Dibromoethane	10.701	107	170646	5.4175409	ppbv	100
28) Ethylbenzene	11.209	91	420508	6.3842801	ppbv	99
29) M&P-Xylene	11.336	91	655927	14.1114098	ppbv	100
30) O-Xylene	11.808	91	293235	6.9594863	ppbv	100
31) 1,1,2,2-Tetrachloroethane	12.580	83	276504	4.2682652	ppbv	100
33) 1,4-Dichlorobenzene	13.587	146	273354	6.1594324	ppbv	99
34) Naphthalene	15.717	128	483312	9.7638055	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_12.D
Acq On : 22 Dec 2022 11:56 pm
Operator :
Sample : STD AMS 5.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS7

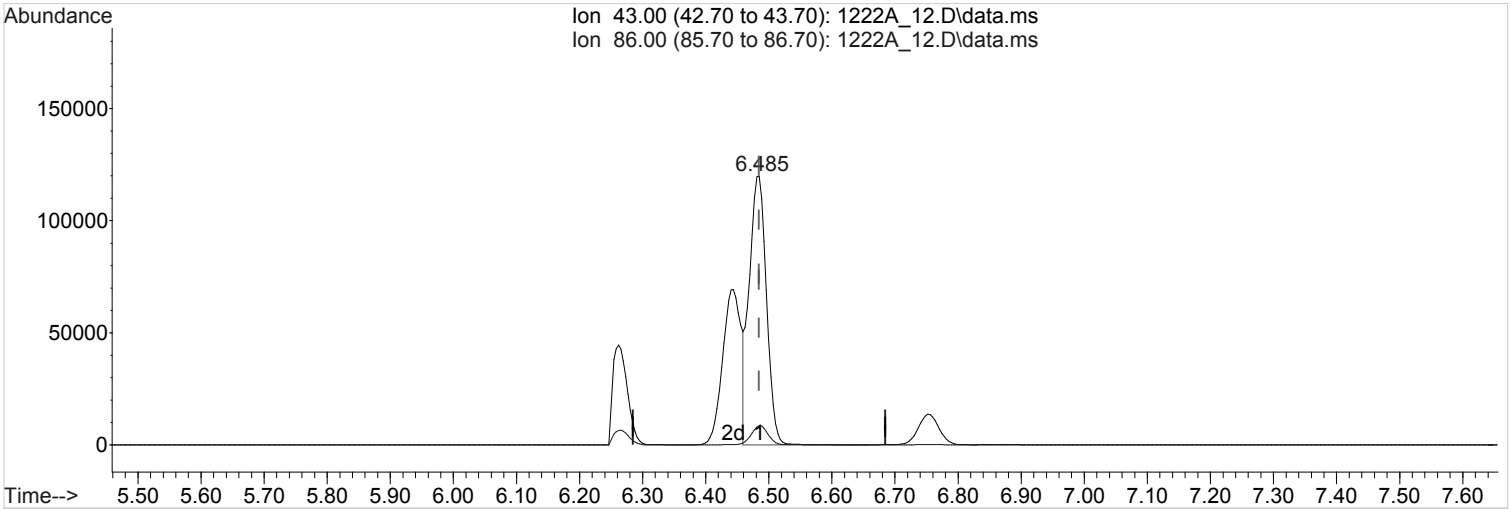
Quant Time: Dec 23 09:23:55 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:23:30 2022
Response via : Initial Calibration

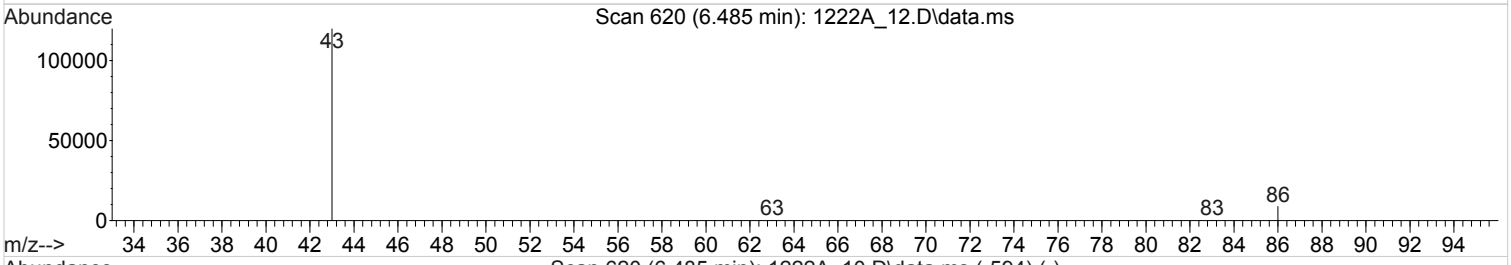


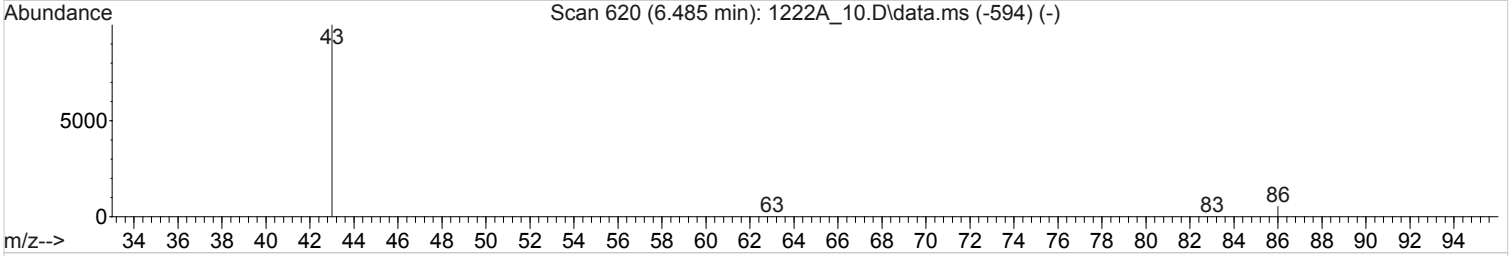
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_12.D
Acq On : 22 Dec 2022 11:56 pm
Operator :
Sample : STD AMS 5.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:23:36 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:23:30 2022
Response via : Initial Calibration







TIC: 1222A_12.D\data.ms

(10) Vinyl Acetate (T,M)

6.485min (-0.000) 3.8552372 ppbv

Qvalue = 91

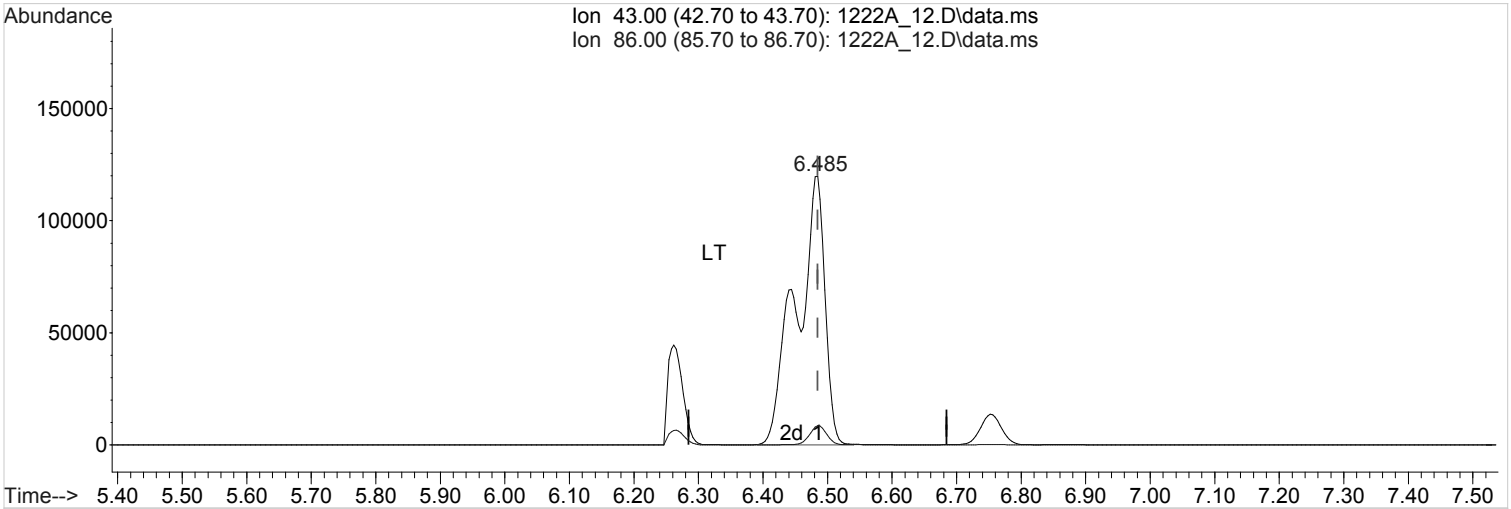
response 227245

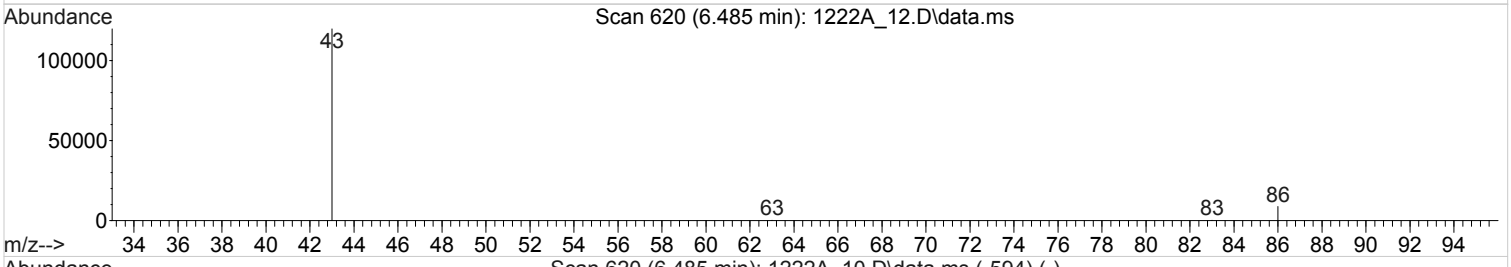
Ion	Exp%	Act%
43.00	100	100
86.00	4.00	7.10#
0.00	0.00	0.00
0.00	0.00	0.00

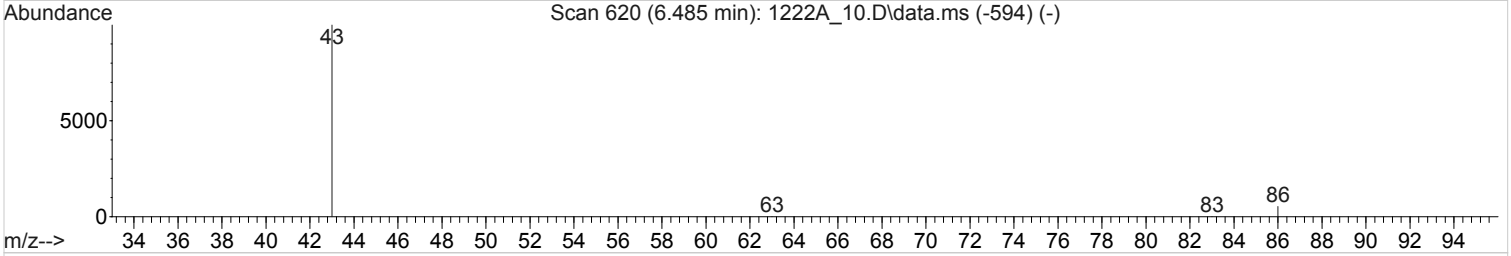
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_12.D
Acq On : 22 Dec 2022 11:56 pm
Operator :
Sample : STD AMS 5.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:23:36 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:23:30 2022
Response via : Initial Calibration







TIC: 1222A_12.D\data.ms

(10) Vinyl Acetate (T,M)

6.485min (-0.000) 6.2473521 ppbv m

response 368247

Ion	Exp%	Act%
43.00	100	100
86.00	4.00	4.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_13.D
Acq On : 23 Dec 2022 12:43 am
Operator :
Sample : STD AMS 10.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:26:22 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:25:53 2022
Response via : Initial Calibration

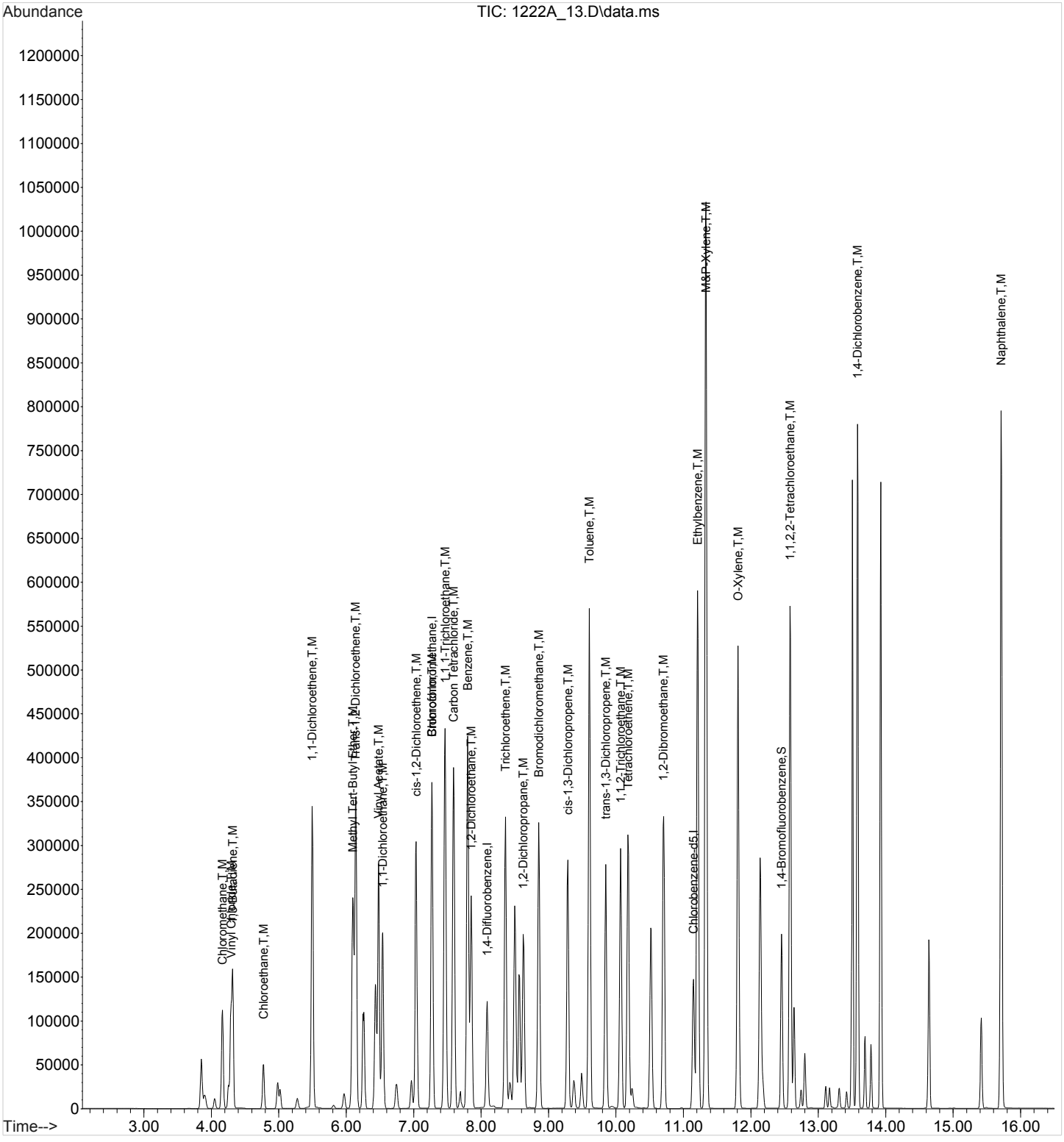
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.269	130	39898	1.2500000	ppbv	# 0.00
16) 1,4-Difluorobenzene	8.091	114	162228	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	161175	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	109141	1.3072920	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 104.58%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	163614	8.9187453	ppbv	99
3) Vinyl Chloride	4.292	62	141354	8.9023887	ppbv	98
4) 1,3-Butadiene	4.316	39	108568	9.3686161	ppbv	98
5) Chloroethane	4.774	64	57879	9.3803756	ppbv	99
6) 1,1-Dichloroethene	5.495	61	311641	10.6853207	ppbv	100
7) Methyl Tert-Butyl Ether	6.096	73	431530	12.5525110	ppbv	95
8) Trans-1,2-Dichloroethene	6.136	61	302175	10.8976452	ppbv	88
9) 1,1-Dichloroethane	6.541	63	368321	10.1148858	ppbv	100
10) Vinyl Acetate	6.477	43	782063m	12.5514182	ppbv	
11) cis-1,2-Dichloroethene	7.038	96	186123	11.8241649	ppbv	99
12) Chloroform	7.269	83	364272	9.8765507	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	378351	10.1110316	ppbv	99
14) Carbon Tetrachloride	7.592	117	372675	10.3356306	ppbv	97
15) 1,2-Dichloroethane	7.853	62	262517	9.9862611	ppbv	99
17) Benzene	7.801	78	578737	8.3405781	ppbv	96
18) Trichloroethene	8.362	95	243239	9.2045312	ppbv	98
19) 1,2-Dichloropropane	8.623	63	238231	9.4340586	ppbv	92
20) Bromodichloromethane	8.853	83	412707	9.0241901	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	327431	11.5820008	ppbv	99
22) Toluene	9.606	91	675998	11.5219984	ppbv	97
23) trans-1,3-Dichloropropene	9.847	75	310645	11.7516369	ppbv	99
24) 1,1,2-Trichloroethane	10.069	97	237415	8.9531071	ppbv	98
25) Tetrachloroethene	10.176	166	283512	9.6202130	ppbv	100
26) 1,2-Dibromoethane	10.701	107	366961	10.4060271	ppbv	98
28) Ethylbenzene	11.209	91	874936	12.4982012	ppbv	100
29) M&P-Xylene	11.336	91	1373383	27.4030344	ppbv	100
30) O-Xylene	11.808	91	658869	14.5325389	ppbv	99
31) 1,1,2,2-Tetrachloroethane	12.581	83	566953	8.6279756	ppbv	100
33) 1,4-Dichlorobenzene	13.581	146	558335	11.8947147	ppbv	99
34) Naphthalene	15.711	128	1095513	19.4088530	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_13.D
Acq On : 23 Dec 2022 12:43 am
Operator :
Sample : STD AMS 10.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS7

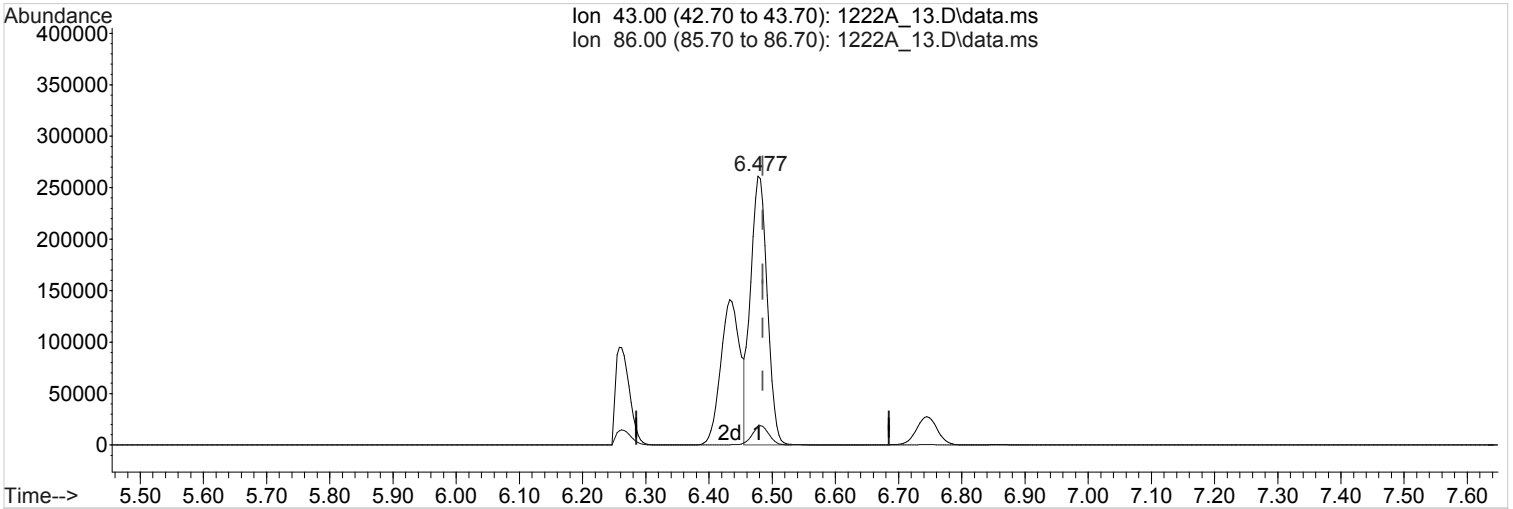
Quant Time: Dec 23 09:26:22 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:25:53 2022
Response via : Initial Calibration

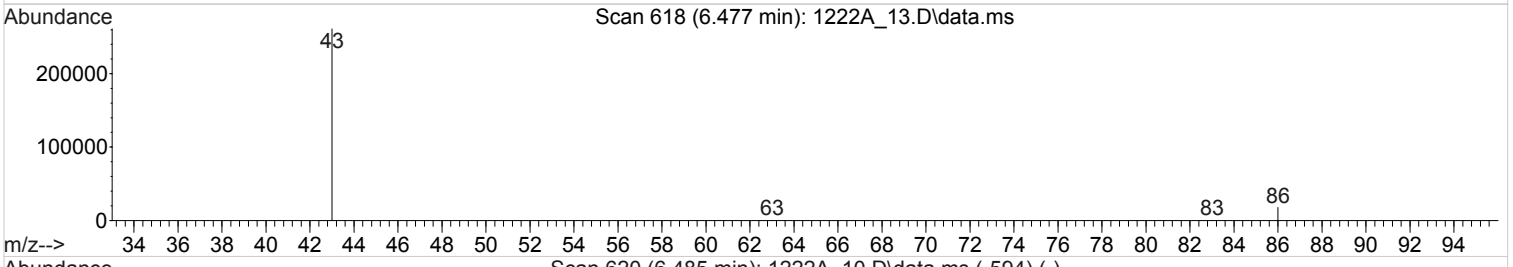


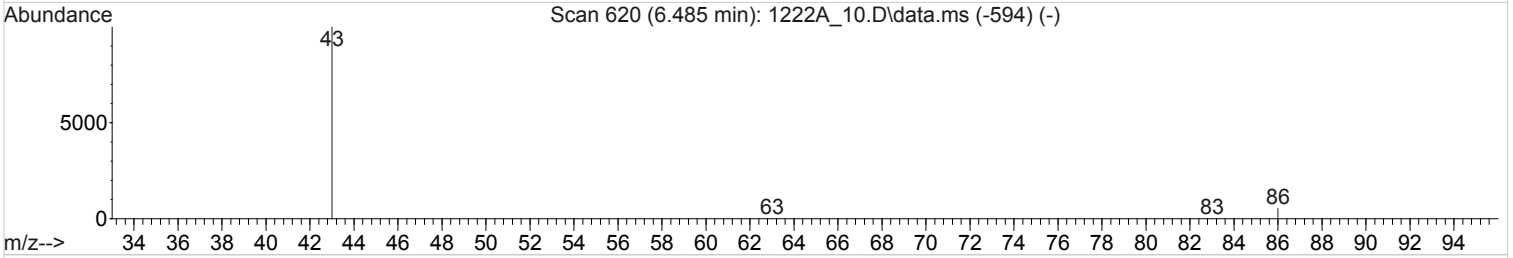
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_13.D
Acq On : 23 Dec 2022 12:43 am
Operator :
Sample : STD AMS 10.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:26:01 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:25:53 2022
Response via : Initial Calibration







TIC: 1222A_13.D\data.ms

(10) Vinyl Acetate (T,M)

6.477min (-0.007) 7.6818282 ppbv

Qvalue = 90

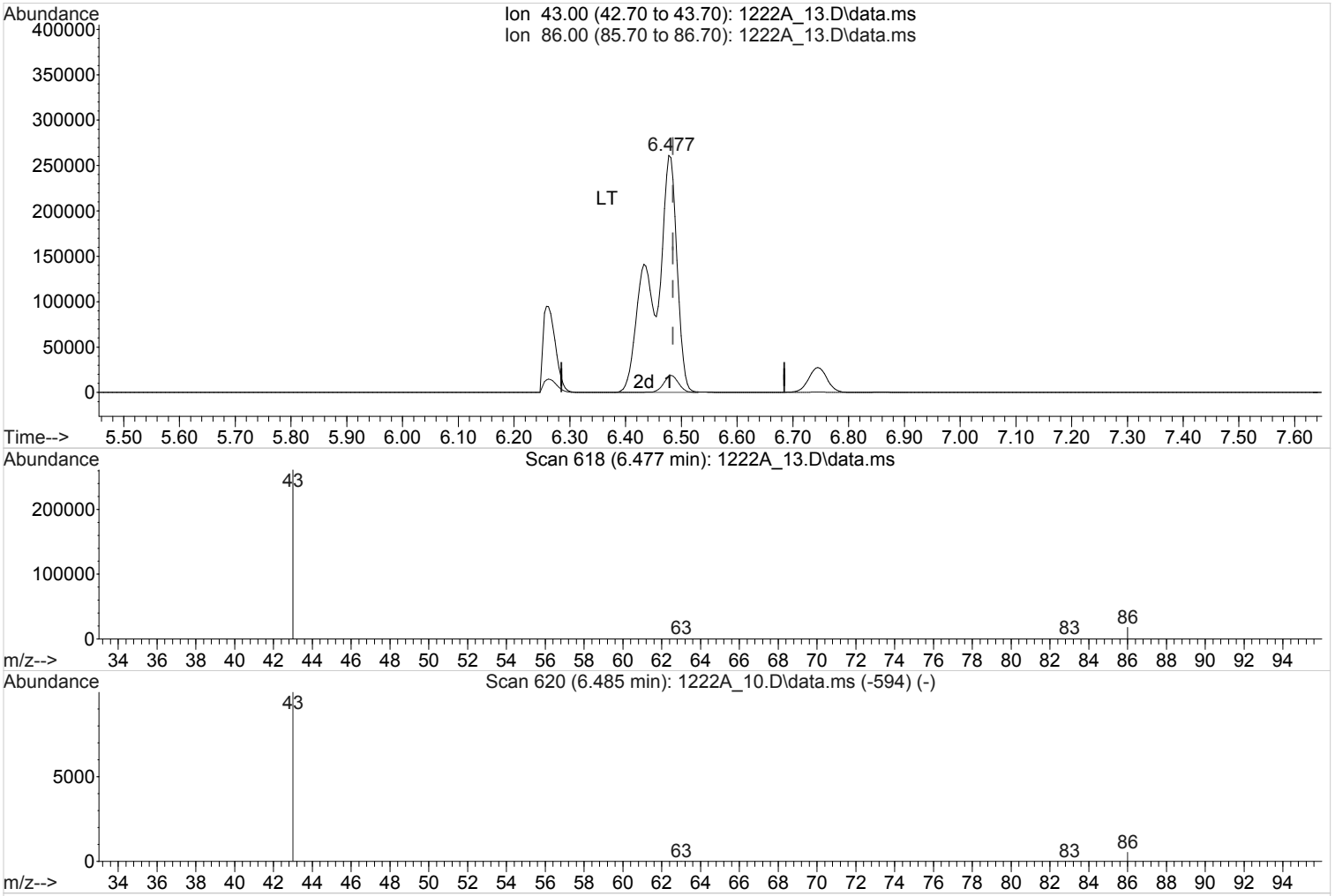
response 478645

Ion	Exp%	Act%
43.00	100	100
86.00	4.00	7.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_13.D
Acq On : 23 Dec 2022 12:43 am
Operator :
Sample : STD AMS 10.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:26:01 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:25:53 2022
Response via : Initial Calibration



TIC: 1222A_13.D\data.ms

(10) Vinyl Acetate (T,M)

6.477min (-0.007) 12.5514182 ppbv m

response 782063

Ion	Exp%	Act%
43.00	100	100
86.00	4.00	4.48
0.00	0.00	0.00
0.00	0.00	0.00

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570570	**Calibration (begin) date/time:**	12/22/22 18:41
Instrument ID:	AIRMS7	**Calibration (end) date/time:**	12/23/22 00:43
Lab File ID:	1222A_15	**Analysis date/time:**	12/23/22 01:59
Analytical Method:	TO-15-SIM	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	1.173654	1.164760		0.7580		0.50	0.4962	99.20	60 - 140
1,1,2,2-TETRACHLOROETHANE	0.502633	0.42087770		16.30		0.50	0.4187	83.70	60 - 140
1,1,2-TRICHLOROETHANE	0.202185	0.19187410		5.10		0.50	0.4745	94.90	60 - 140
1,1-DICHLOROETHANE	1.142150	1.143557		0.1230		0.50	0.5006	100	60 - 140
1,1-DICHLOROETHENE	0.920009	0.93139840		1.24		0.50	0.5062	101	60 - 140
1,2-DIBROMOETHANE	0.272822	0.25230010		7.52		0.50	0.4624	92.50	60 - 140
1,2-DICHLOROETHANE	0.823481	0.83826520		1.80		0.50	0.5090	102	60 - 140
1,2-DICHLOROPROPANE	0.193472	0.19166530		0.9340		0.50	0.4953	99.10	60 - 140
1,3-BUTADIENE	0.360773	0.34049780		5.62		0.50	0.4719	94.40	60 - 140
1,4-DICHLOROBENZENE	0.370941	0.40151450		8.24		0.50	0.5412	108	60 - 140
BENZENE	0.525778	0.46223410		12.10		0.50	0.4396	87.90	60 - 140
BROMODICHLOROMETHANE	0.348947	0.32361780		7.26		0.50	0.4637	92.70	60 - 140
CARBON TETRACHLORIDE	1.133463	1.108748		2.18		0.50	0.4891	97.80	60 - 140
CHLOROETHANE	0.192115	0.18197310		5.28		0.50	0.4736	94.70	60 - 140
CHLOROFORM	1.154099	1.209345		4.79		0.50	0.5239	105	60 - 140
CHLOROMETHANE	0.568531	0.52326350		7.96		0.50	0.4602	92	60 - 140
CIS-1,2-DICHLOROETHENE	0.502157	0.51963070		3.48		0.50	0.5174	103	60 - 140
CIS-1,3-DICHLOROPROPENE	0.221277	0.19810280		10.50		0.50	0.4476	89.50	60 - 140
ETHYLBENZENE	0.556490	0.58023890		4.27		0.50	0.5213	104	60 - 140
M&P-XYLENE	0.403079	0.42245680		4.81		1	1.048	105	60 - 140
METHYL TERT-BUTYL ETHER	1.104550	1.176649		6.53		0.50	0.5326	107	60 - 140
NAPHTHALENE	0.478941	0.41157210		14.10		0.50	0.5199	104	60 - 140
O-XYLENE	0.367554	0.37117250		0.9840		0.50	0.5049	101	60 - 140
TETRACHLOROETHENE	0.226213	0.21985130		2.81		0.50	0.4859	97.20	60 - 140
TOLUENE	0.458946	0.46583570		1.50		0.50	0.5075	102	60 - 140
TRANS-1,2-DICHLOROETHENE	0.876528	0.88919130		1.44		0.50	0.5072	101	60 - 140
TRANS-1,3-DICHLOROPROPENE	0.207249	0.17484060		15.60		0.50	0.4218	84.40	60 - 140
TRICHLOROETHENE	0.201998	0.22032110		9.07		0.50	0.5454	109	60 - 140
VINYL ACETATE	2.001933	1.980039		1.09		0.50	0.4945	98.90	60 - 140
VINYL CHLORIDE	0.492002	0.45212550		8.10		0.50	0.4595	91.90	60 - 140
1,4-BROMOFLUOROBENZENE	0.650450	0.67182520		3.29		1.25	1.291	103	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_15.D
Acq On : 23 Dec 2022 1:59 am
Operator :
Sample : SSCV AMS 0.5 ppbv 22L14409
Misc :
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:32:23 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:30:35 2022
Response via : Initial Calibration

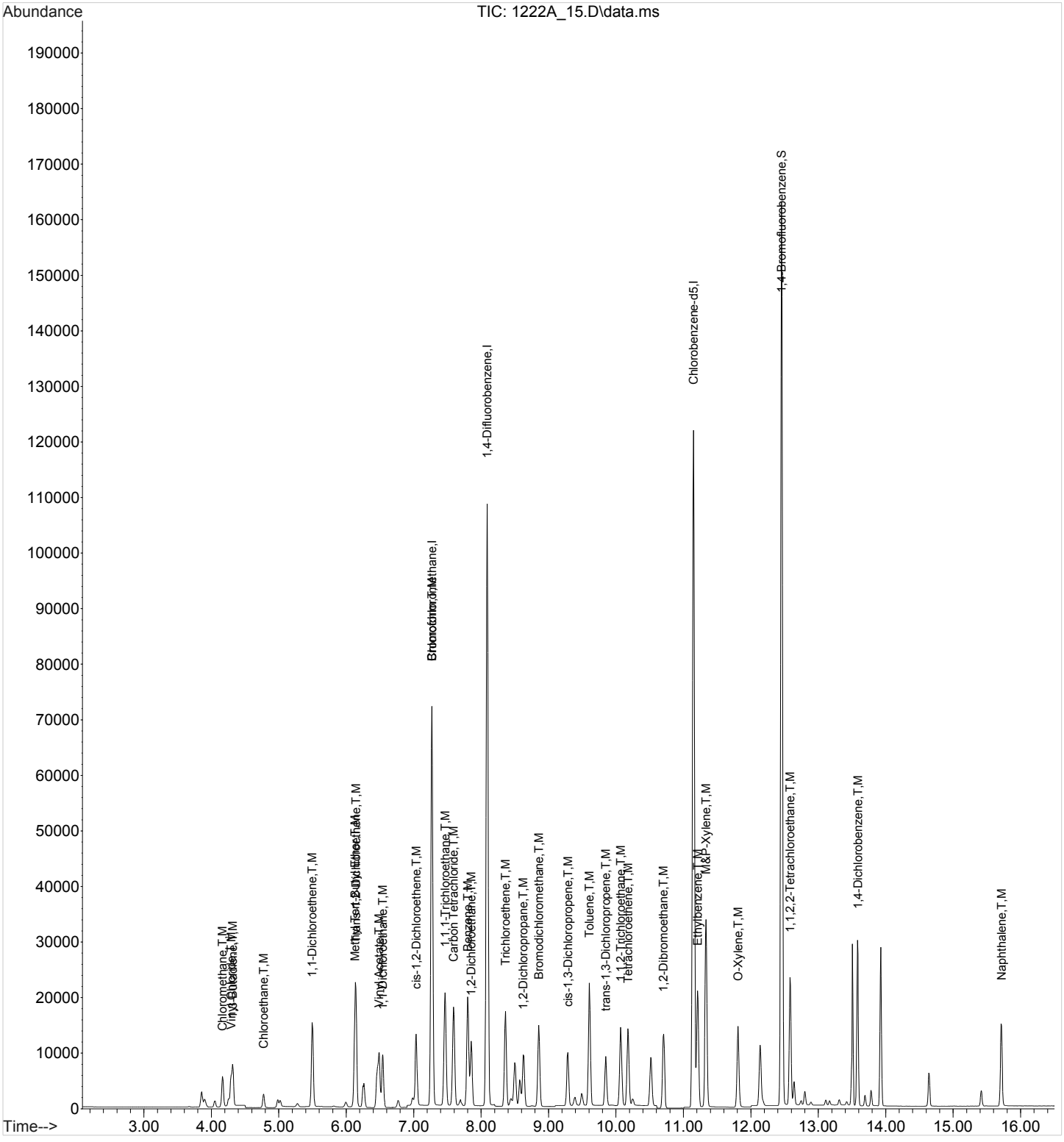
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.269	130	37849	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	143688	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	132984	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	89342	1.2910785	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 103.29%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	7922	0.4601890	ppbv	100
3) Vinyl Chloride	4.292	62	6845	0.4594749	ppbv	99
4) 1,3-Butadiene	4.316	39	5155	0.4718998	ppbv	100
5) Chloroethane	4.774	64	2755	0.4736057	ppbv	99
6) 1,1-Dichloroethene	5.495	61	14101	0.5061899	ppbv	100
7) Methyl Tert-Butyl Ether	6.128	73	17814	0.5326372	ppbv	98
8) Trans-1,2-Dichloroethene	6.144	61	13462	0.5072235	ppbv	95
9) 1,1-Dichloroethane	6.541	63	17313	0.5006162	ppbv	100
10) Vinyl Acetate	6.485	43	29977	0.4945319	ppbv	100
11) cis-1,2-Dichloroethene	7.038	96	7867	0.5173988	ppbv	99
12) Chloroform	7.269	83	18309	0.5239349	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	17634	0.4962108	ppbv	99
14) Carbon Tetrachloride	7.592	117	16786	0.4890975	ppbv	96
15) 1,2-Dichloroethane	7.853	62	12691	0.5089765	ppbv	99
17) Benzene	7.801	78	26567	0.4395720	ppbv	99
18) Trichloroethene	8.362	95	12663	0.5453545	ppbv	99
19) 1,2-Dichloropropane	8.623	63	11016	0.4953297	ppbv	98
20) Bromodichloromethane	8.853	83	18600	0.4637067	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	11386	0.4476345	ppbv	100
22) Toluene	9.606	91	26774	0.5075056	ppbv	99
23) trans-1,3-Dichloropropene	9.847	75	10049	0.4218138	ppbv	100
24) 1,1,2-Trichloroethane	10.069	97	11028	0.4745022	ppbv	100
25) Tetrachloroethene	10.176	166	12636	0.4859378	ppbv	100
26) 1,2-Dibromoethane	10.701	107	14501	0.4623901	ppbv	100
28) Ethylbenzene	11.209	91	30865	0.5213382	ppbv	100
29) M&P-Xylene	11.336	91	44944	1.0480739	ppbv	100
30) O-Xylene	11.808	91	19744	0.5049221	ppbv	100
31) 1,1,2,2-Tetrachloroethane	12.581	83	22388	0.4186734	ppbv	100
33) 1,4-Dichlorobenzene	13.587	146	21358	0.5412107	ppbv	100
34) Naphthalene	15.718	128	21893	0.5198607	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_15.D
Acq On : 23 Dec 2022 1:59 am
Operator :
Sample : SSCV AMS 0.5 ppbv 22L14409
Misc :
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:32:23 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:30:35 2022
Response via : Initial Calibration



GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570570	**Calibration (begin) date/time:**	12/22/22 18:41
Instrument ID:	AIRMS7	**Calibration (end) date/time:**	12/23/22 00:43
Lab File ID:	1229_02	**Analysis date/time:**	12/29/22 09:38
Analytical Method:	TO-15-SIM	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	1.173654	1.107627		5.63		0.50	0.4719	94.40	70 - 130
1,1,2,2-TETRACHLOROETHANE	0.502633	0.48129710		4.24		0.50	0.4788	95.80	70 - 130
1,1,2-TRICHLOROETHANE	0.202185	0.19532030		3.40		0.50	0.4830	96.60	70 - 130
1,1-DICHLOROETHANE	1.142150	1.055129		7.62		0.50	0.4619	92.40	70 - 130
1,1-DICHLOROETHENE	0.920009	0.83217690		9.55		0.50	0.4523	90.50	70 - 130
1,2-DIBROMOETHANE	0.272822	0.25596440		6.18		0.50	0.4691	93.80	70 - 130
1,2-DICHLOROETHANE	0.823481	0.78072630		5.19		0.50	0.4740	94.80	70 - 130
1,2-DICHLOROPROPANE	0.193472	0.18148790		6.19		0.50	0.4690	93.80	70 - 130
1,3-BUTADIENE	0.360773	0.31243460		13.40		0.50	0.4330	86.60	70 - 130
1,4-DICHLOROBENZENE	0.370941	0.39751150		7.16		0.50	0.5358	107	70 - 130
BENZENE	0.525778	0.59094210		12.40		0.50	0.5620	112	70 - 130
BROMODICHLOROMETHANE	0.348947	0.32849660		5.86		0.50	0.4707	94.10	70 - 130
CARBON TETRACHLORIDE	1.133463	1.112340		1.86		0.50	0.4907	98.10	70 - 130
CHLOROETHANE	0.192115	0.15880290		17.30		0.50	0.4133	82.70	70 - 130
CHLOROFORM	1.154099	1.074701		6.88		0.50	0.4656	93.10	70 - 130
CHLOROMETHANE	0.568531	0.48590020		14.50		0.50	0.4273	85.50	70 - 130
CIS-1,2-DICHLOROETHENE	0.502157	0.47064830		6.27		0.50	0.4686	93.70	70 - 130
CIS-1,3-DICHLOROPROPENE	0.221277	0.20213470		8.65		0.50	0.4567	91.30	70 - 130
ETHYLBENZENE	0.556490	0.53087230		4.60		0.50	0.4770	95.40	70 - 130
M&P-XYLENE	0.403079	0.38022840		5.67		1	0.9433	94.30	70 - 130
METHYL TERT-BUTYL ETHER	1.104550	0.98993240		10.40		0.50	0.4481	89.60	70 - 130
NAPHTHALENE	0.478941	0.44200470		7.71		0.50	0.4614	92.30	70 - 130
O-XYLENE	0.367554	0.32924920		10.40		0.50	0.4479	89.60	70 - 130
TETRACHLOROETHENE	0.226213	0.21824470		3.52		0.50	0.4824	96.50	70 - 130
TOLUENE	0.458946	0.450507		1.84		0.50	0.4908	98.20	70 - 130
TRANS-1,2-DICHLOROETHENE	0.876528	0.79931660		8.81		0.50	0.4560	91.20	70 - 130
TRANS-1,3-DICHLOROPROPENE	0.207249	0.18885780		8.87		0.50	0.4556	91.10	70 - 130
TRICHLOROETHENE	0.201998	0.182673		9.57		0.50	0.4522	90.40	70 - 130
VINYL ACETATE	2.001933	1.645829		17.80		0.50	0.4111	82.20	70 - 130
VINYL CHLORIDE	0.492002	0.42855830		12.90		0.50	0.4355	87.10	70 - 130
1,4-BROMOFLUOROBENZENE	0.650450	0.65208350		0.2510		1.25	1.253	100	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Area Percent Report

Data Path : C:\msdchem\1\DATA\122922\
Data File : 1229_02.d
Acq On : 29 Dec 2022 9:38 am
Operator :
Sample : ICV AMS 0.5 ppbv
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: events.e
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\TO-SIMMS7.M
Title :

Signal : TIC: 1229_02.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.154	1214	1225	1230	BV 2	105492	2059920	73.38%	42.325%
2	12.462	1409	1419	1429	BB	146750	2807031	100.00%	57.675%

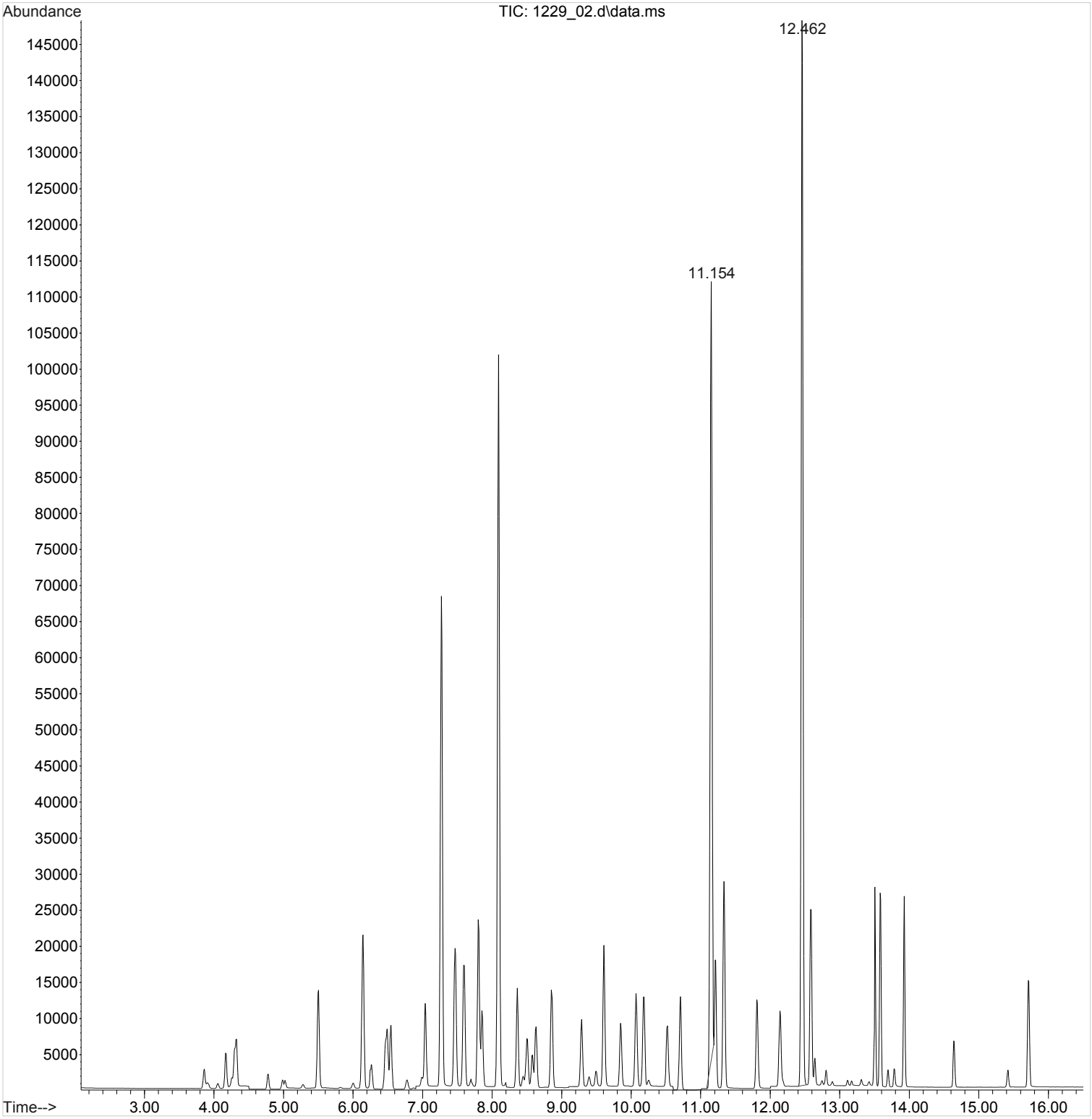
Sum of corrected areas: 4866951

Area Percent Report

Data Path : C:\msdchem\1\DATA\122922\
Data File : 1229_02.d
Acq On : 29 Dec 2022 9:38 am
Operator :
Sample : ICV AMS 0.5 ppbv
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: events.e
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\TO-SIMMS7.M
Title :



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570570	**Calibration (begin) date/time:**	12/22/22 18:41
Instrument ID:	AIRMS7	**Calibration (end) date/time:**	12/23/22 00:43
Lab File ID:	1229_26	**Analysis date/time:**	12/30/22 01:58
Analytical Method:	TO-15-SIM	**Sample ID:**	CCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	1.173654	1.104342		5.91		0.50	0.4705	94.10	70 - 130
1,1,2,2-TETRACHLOROETHANE	0.502633	0.48096970		4.31		0.50	0.4785	95.70	70 - 130
1,1,2-TRICHLOROETHANE	0.202185	0.19407660		4.01		0.50	0.4799	96	70 - 130
1,1-DICHLOROETHANE	1.142150	1.060043		7.19		0.50	0.4641	92.80	70 - 130
1,1-DICHLOROETHENE	0.920009	0.83705730		9.02		0.50	0.4549	91	70 - 130
1,2-DIBROMOETHANE	0.272822	0.25647350		5.99		0.50	0.4700	94	70 - 130
1,2-DICHLOROETHANE	0.823481	0.75982750		7.73		0.50	0.4614	92.30	70 - 130
1,2-DICHLOROPROPANE	0.193472	0.181391		6.24		0.50	0.4688	93.80	70 - 130
1,3-BUTADIENE	0.360773	0.31534980		12.60		0.50	0.4370	87.40	70 - 130
1,4-DICHLOROBENZENE	0.370941	0.38194820		2.97		0.50	0.5148	103	70 - 130
BENZENE	0.525778	0.60434220		14.90		0.50	0.5747	115	70 - 130
BROMODICHLOROMETHANE	0.348947	0.32647440		6.44		0.50	0.4678	93.60	70 - 130
CARBON TETRACHLORIDE	1.133463	1.108628		2.19		0.50	0.4890	97.80	70 - 130
CHLOROETHANE	0.192115	0.17037340		11.30		0.50	0.4434	88.70	70 - 130
CHLOROFORM	1.154099	1.078750		6.53		0.50	0.4674	93.50	70 - 130
CHLOROMETHANE	0.568531	0.48578810		14.60		0.50	0.4272	85.40	70 - 130
CIS-1,2-DICHLOROETHENE	0.502157	0.46941980		6.52		0.50	0.4674	93.50	70 - 130
CIS-1,3-DICHLOROPROPENE	0.221277	0.19853220		10.30		0.50	0.4486	89.70	70 - 130
ETHYLBENZENE	0.556490	0.532075		4.39		0.50	0.4781	95.60	70 - 130
M&P-XYLENE	0.403079	0.38099530		5.48		1	0.9452	94.50	70 - 130
METHYL TERT-BUTYL ETHER	1.104550	0.99093250		10.30		0.50	0.4486	89.70	70 - 130
NAPHTHALENE	0.478941	0.39962510		16.60		0.50	0.4172	83.40	70 - 130
O-XYLENE	0.367554	0.32707030		11		0.50	0.4449	89	70 - 130
TETRACHLOROETHENE	0.226213	0.21696220		4.09		0.50	0.4796	95.90	70 - 130
TOLUENE	0.458946	0.44134440		3.84		0.50	0.4808	96.20	70 - 130
TRANS-1,2-DICHLOROETHENE	0.876528	0.79743560		9.02		0.50	0.4549	91	70 - 130
TRANS-1,3-DICHLOROPROPENE	0.207249	0.18717230		9.69		0.50	0.4516	90.30	70 - 130
TRICHLOROETHENE	0.201998	0.18196180		9.92		0.50	0.4504	90.10	70 - 130
VINYL ACETATE	2.001933	1.669503		16.60		0.50	0.4170	83.40	70 - 130
VINYL CHLORIDE	0.492002	0.42473170		13.70		0.50	0.4316	86.30	70 - 130
1,4-BROMOFLUOROBENZENE	0.650450	0.65136360		0.14		1.25	1.252	100	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_26.D
Acq On : 30 Dec 2022 1:58 am
Operator :
Sample : CCV AMS 0.5 ppbv
Misc :
ALS Vial : 26 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:20:10 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

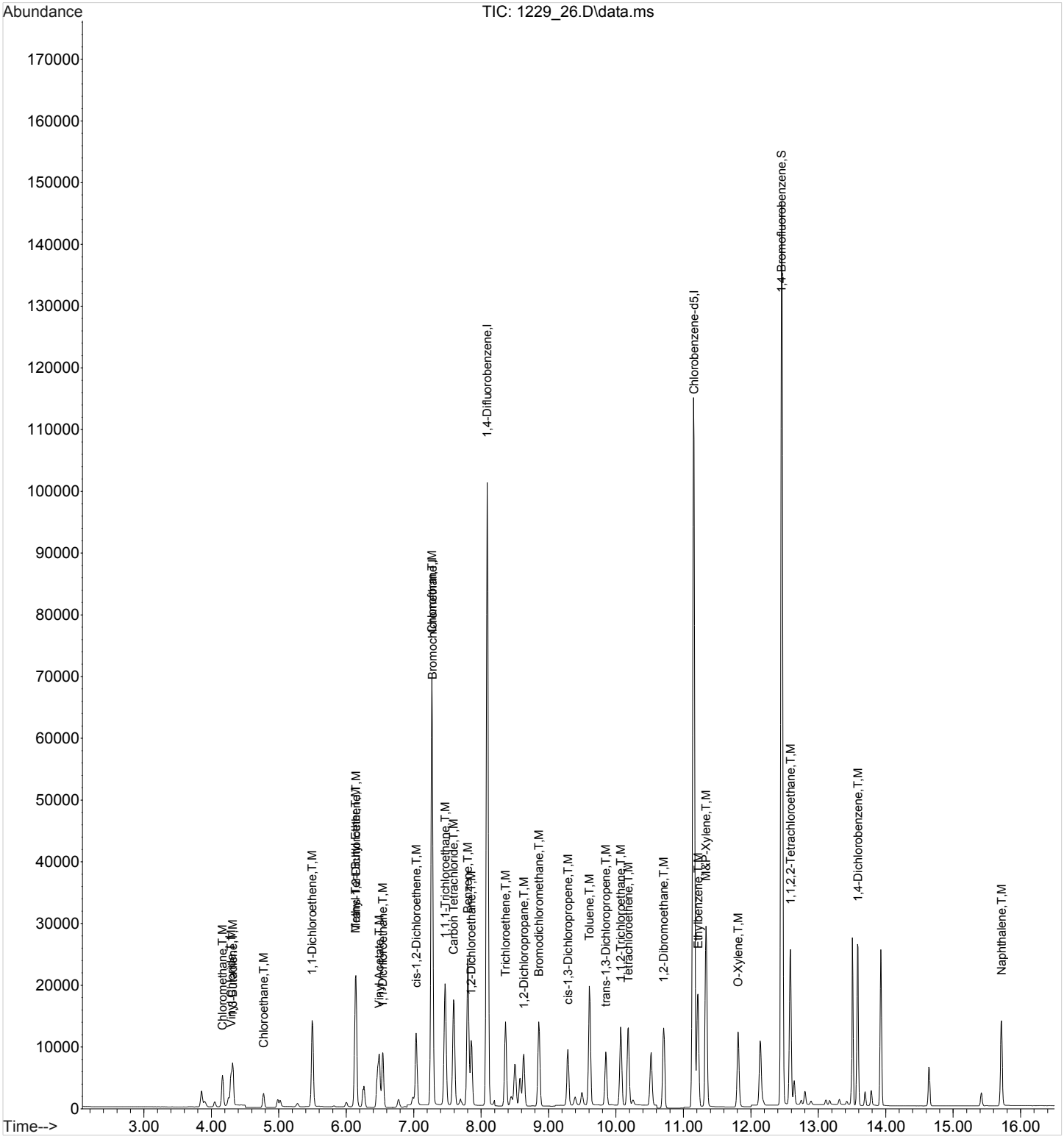
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	38489	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	135784	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.156	117	128558	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	83738	1.2517565	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 100.14%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	7479	0.4272310	ppbv	99
3) Vinyl Chloride	4.293	62	6539	0.4316358	ppbv	100
4) 1,3-Butadiene	4.316	39	4855	0.4370470	ppbv	99
5) Chloroethane	4.774	64	2623	0.4434160	ppbv	99
6) 1,1-Dichloroethene	5.495	61	12887	0.4549180	ppbv	97
7) Methyl Tert-Butyl Ether	6.136	73	15256	0.4485682	ppbv	100
8) Trans-1,2-Dichloroethene	6.144	61	12277	0.4548832	ppbv	99
9) 1,1-Dichloroethane	6.541	63	16320	0.4640561	ppbv	100
10) Vinyl Acetate	6.489	43	25703	0.4169728	ppbv	99
11) cis-1,2-Dichloroethene	7.038	96	7227	0.4674037	ppbv	97
12) Chloroform	7.269	83	16608	0.4673560	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	17002	0.4704713	ppbv	98
14) Carbon Tetrachloride	7.592	117	17068	0.4890448	ppbv	96
15) 1,2-Dichloroethane	7.853	62	11698	0.4613508	ppbv	100
17) Benzene	7.801	78	32824	0.5747128	ppbv	98
18) Trichloroethene	8.362	95	9883	0.4504048	ppbv	98
19) 1,2-Dichloropropane	8.634	63	9852	0.4687775	ppbv	98
20) Bromodichloromethane	8.853	83	17732	0.4677998	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	10783	0.4486047	ppbv	96
22) Toluene	9.606	91	23971	0.4808234	ppbv	100
23) trans-1,3-Dichloropropene	9.847	75	10166	0.4515646	ppbv	96
24) 1,1,2-Trichloroethane	10.069	97	10541	0.4799491	ppbv	97
25) Tetrachloroethene	10.185	166	11784	0.4795520	ppbv	99
26) 1,2-Dibromoethane	10.708	107	13930	0.4700387	ppbv	100
28) Ethylbenzene	11.216	91	27361	0.4780634	ppbv	99
29) M&P-Xylene	11.336	91	39184	0.9452120	ppbv	99
30) O-Xylene	11.808	91	16819	0.4449279	ppbv	99
31) 1,1,2,2-Tetrachloroethane	12.588	83	24733	0.4784506	ppbv	99
33) 1,4-Dichlorobenzene	13.588	146	19641	0.5148369	ppbv	98
34) Naphthalene	15.718	128	20550	0.4171961	ppbv	99

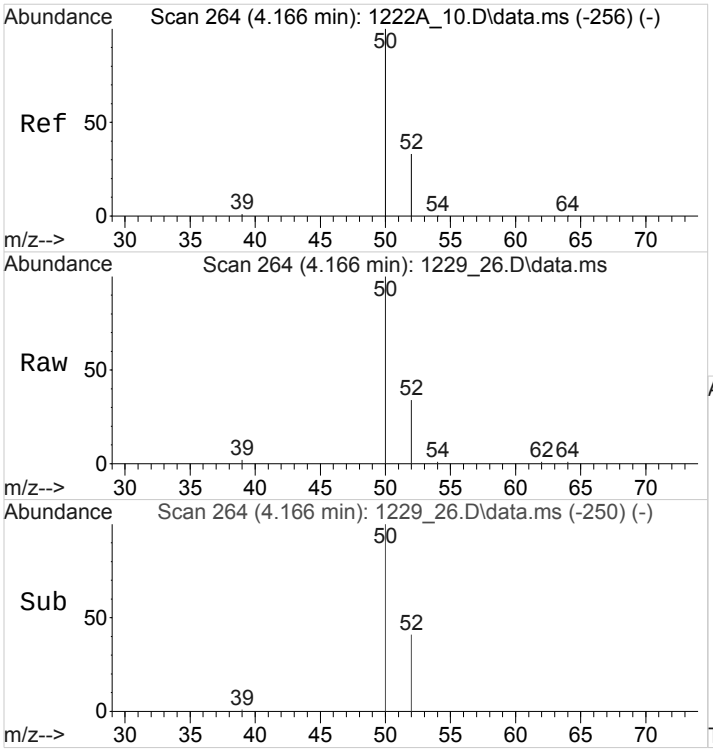
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_26.D
Acq On : 30 Dec 2022 1:58 am
Operator :
Sample : CCV AMS 0.5 ppbv
Misc :
ALS Vial : 26 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:20:10 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

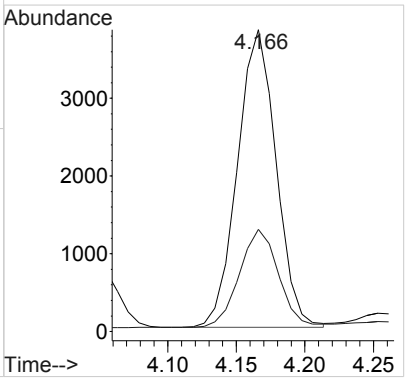


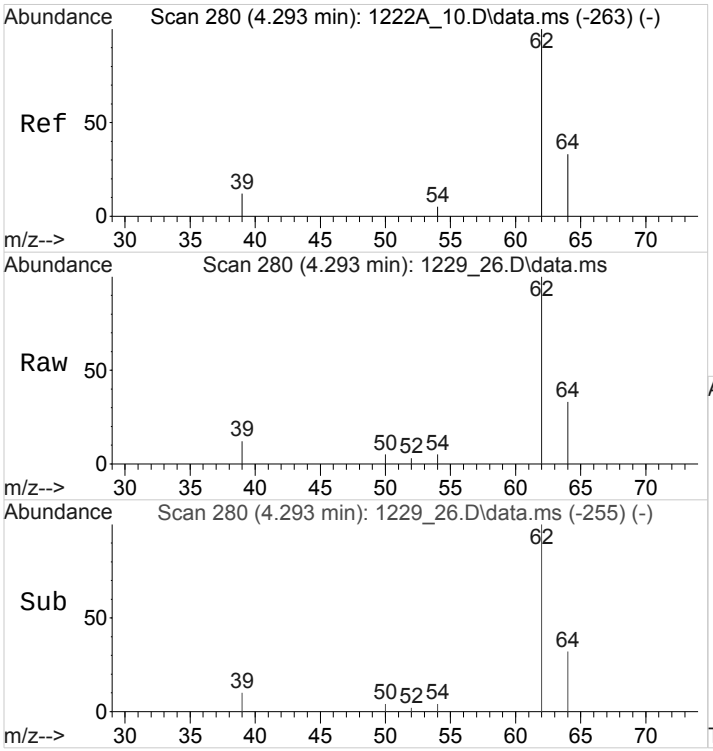


#2
Chloromethane
Concen: 0.4272310 ppbv
RT: 4.166 min Scan# 264
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 50 Resp: 7479

Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.6	40.0

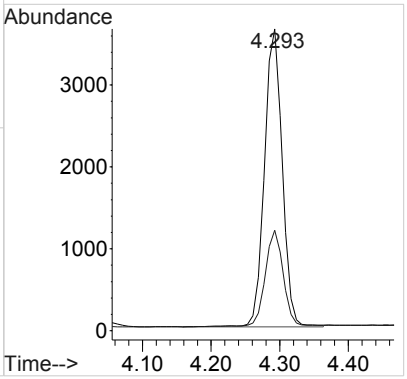




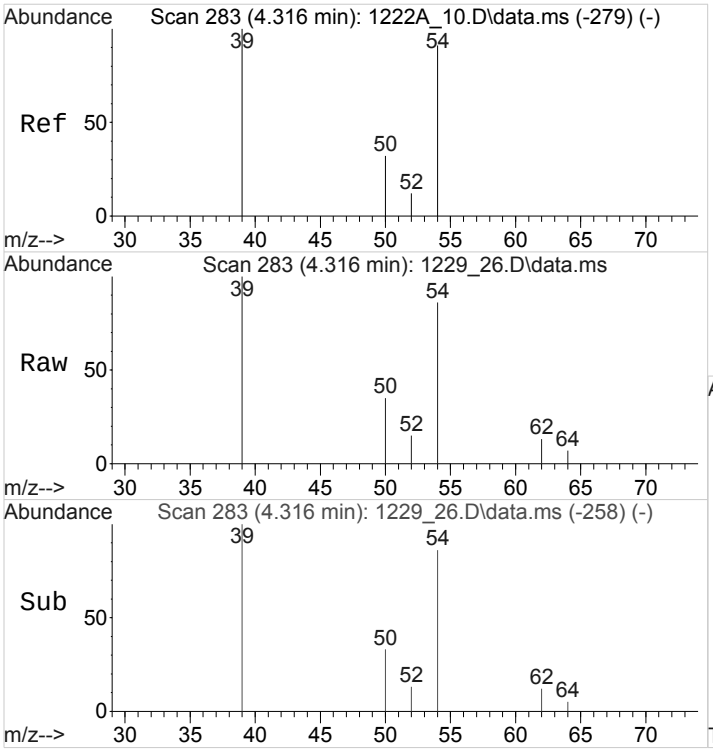
#3
Vinyl Chloride
Concen: 0.4316358 ppbv
RT: 4.293 min Scan# 280
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 62 Resp: 6539

Ion	Ratio	Lower	Upper
62	100		
64	33.5	26.6	40.0



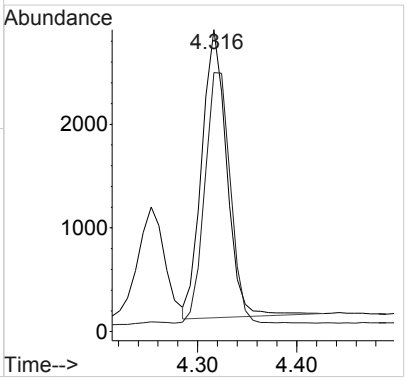
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	440 of 471

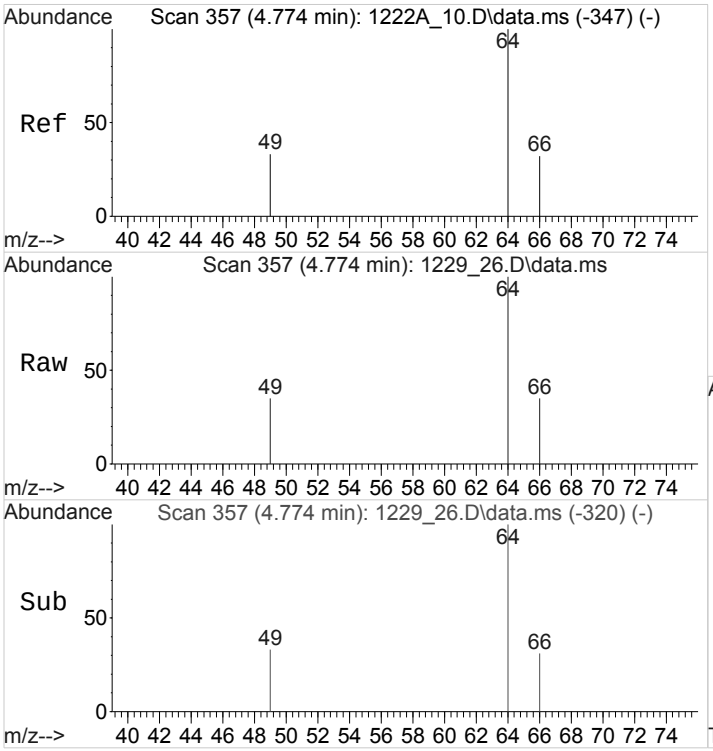


#4
1,3-Butadiene
Concen: 0.4370470 ppbv
RT: 4.316 min Scan# 283
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 39 Resp: 4855

Ion	Ratio	Lower	Upper
39	100		
54	89.2	72.2	108.4

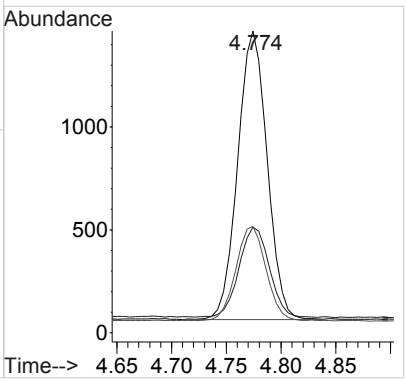




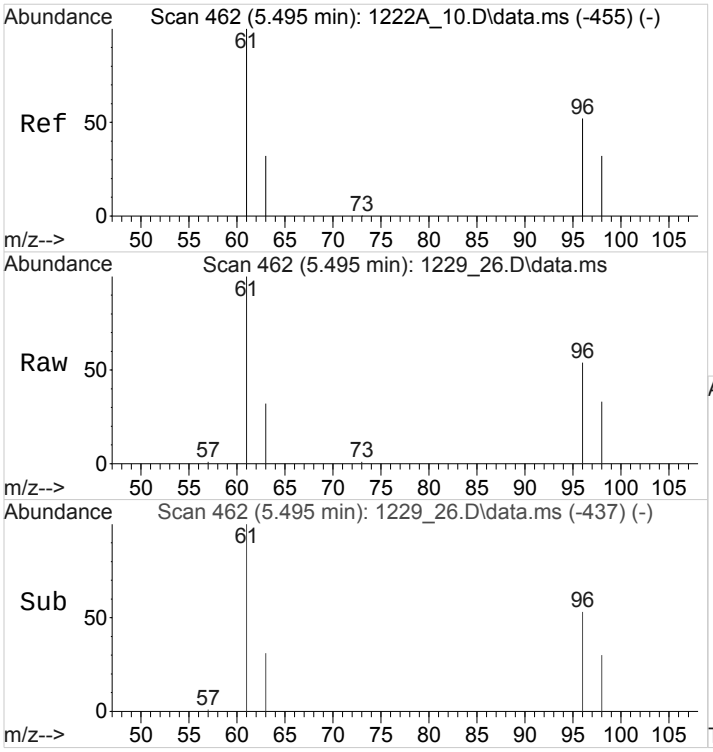
#5
Chloroethane
Concen: 0.4434160 ppbv
RT: 4.774 min Scan# 357
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 64 Resp: 2623

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.8	38.6
49	33.3	27.0	40.6



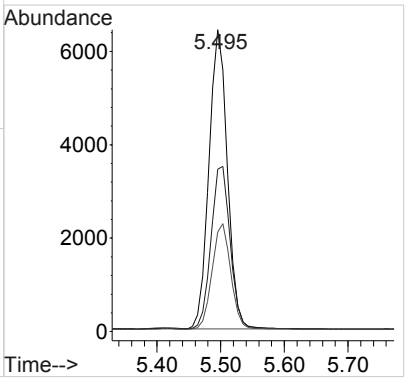
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	441 of 471

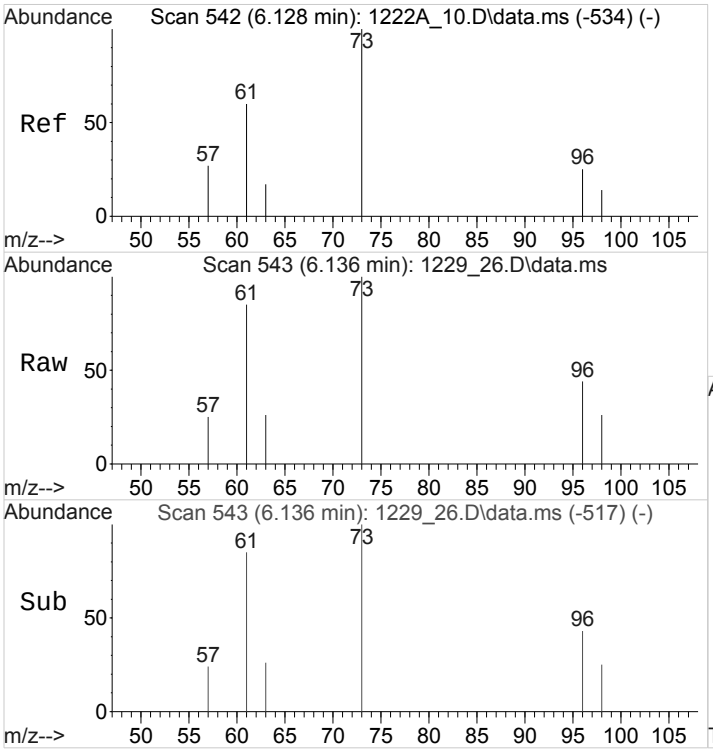


#6
1,1-Dichloroethene
Concen: 0.4549180 ppbv
RT: 5.495 min Scan# 462
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 61 Resp: 12887

Ion	Ratio	Lower	Upper
61	100		
96	56.5	43.2	64.8
98	35.7	27.5	41.3

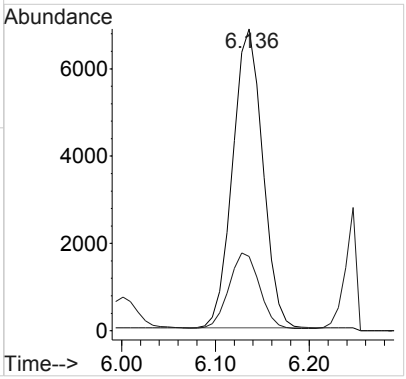




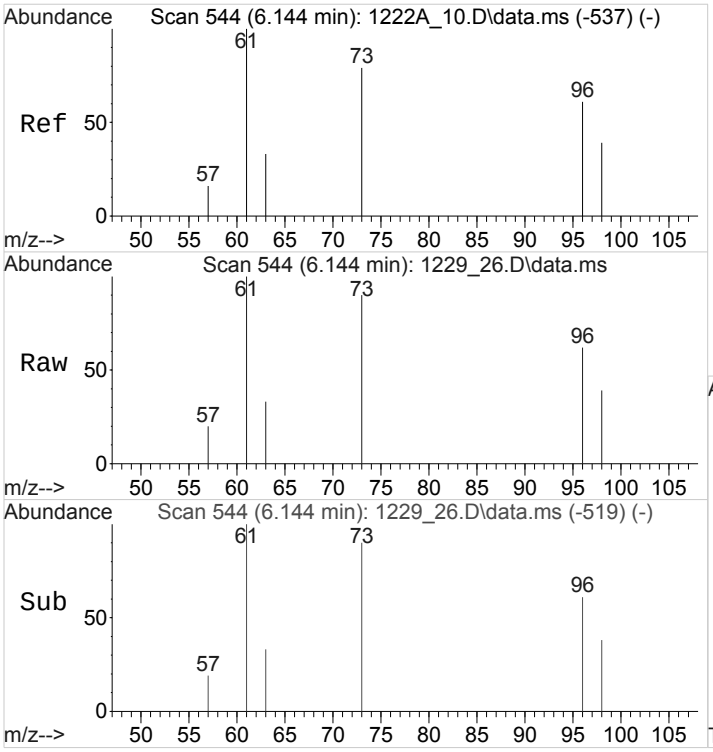
#7
Methyl Tert-Butyl Ether
Concen: 0.4485682 ppbv
RT: 6.136 min Scan# 543
Delta R.T. 0.008 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 73 Resp: 15256

Ion	Ratio	Lower	Upper
73	100		
57	27.1	21.8	32.8



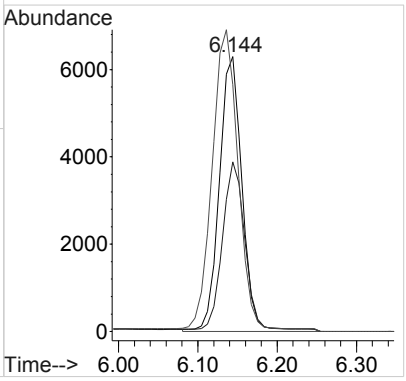
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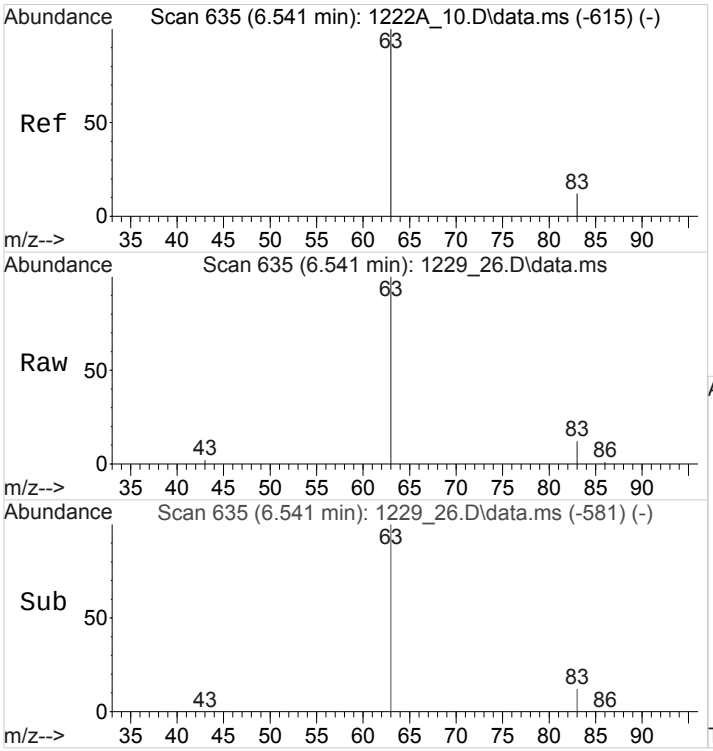


#8
Trans-1,2-Dichloroethene
Concen: 0.4548832 ppbv
RT: 6.144 min Scan# 544
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 61 Resp: 12277

Ion	Ratio	Lower	Upper
61	100		
96	62.3	48.6	72.8
73	124.3	99.4	149.2

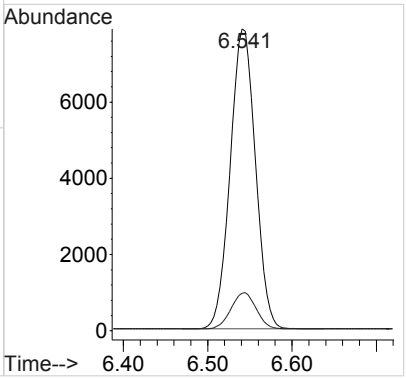




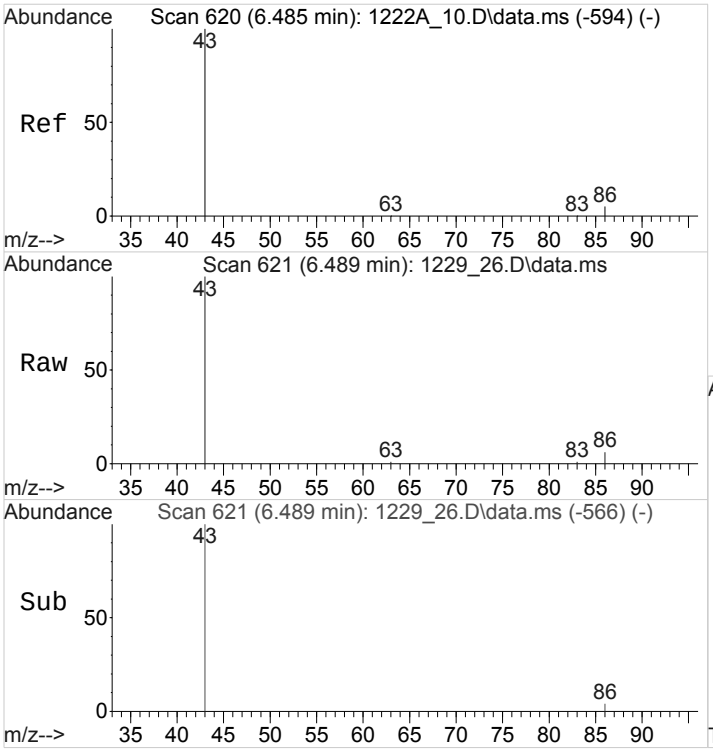
#9
1,1-Dichloroethane
Concen: 0.4640561 ppbv
RT: 6.541 min Scan# 635
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 63 Resp: 16320

Ion	Ratio	Lower	Upper
63	100		
83	12.1	9.5	14.3



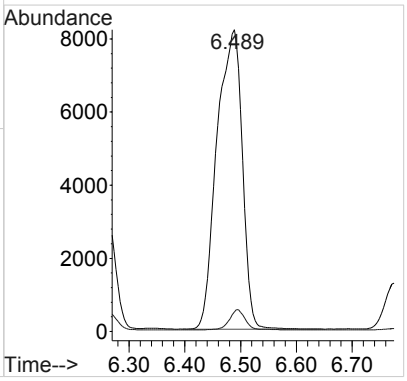
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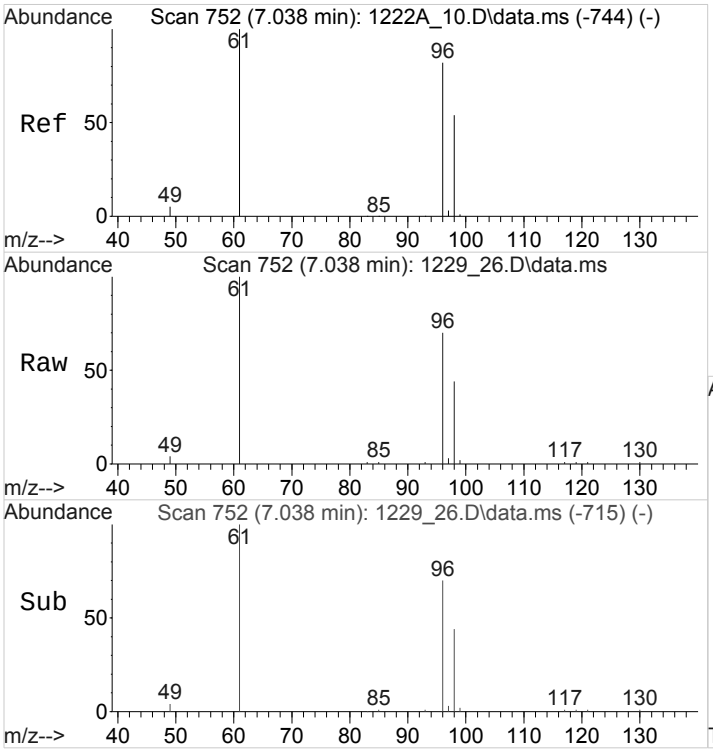


#10
Vinyl Acetate
Concen: 0.4169728 ppbv
RT: 6.489 min Scan# 621
Delta R.T. 0.004 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 43 Resp: 25703

Ion	Ratio	Lower	Upper
43	100		
86	4.2	3.2	4.8

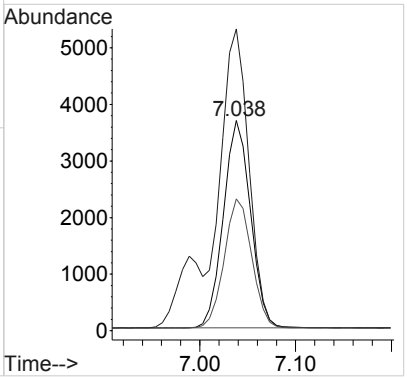




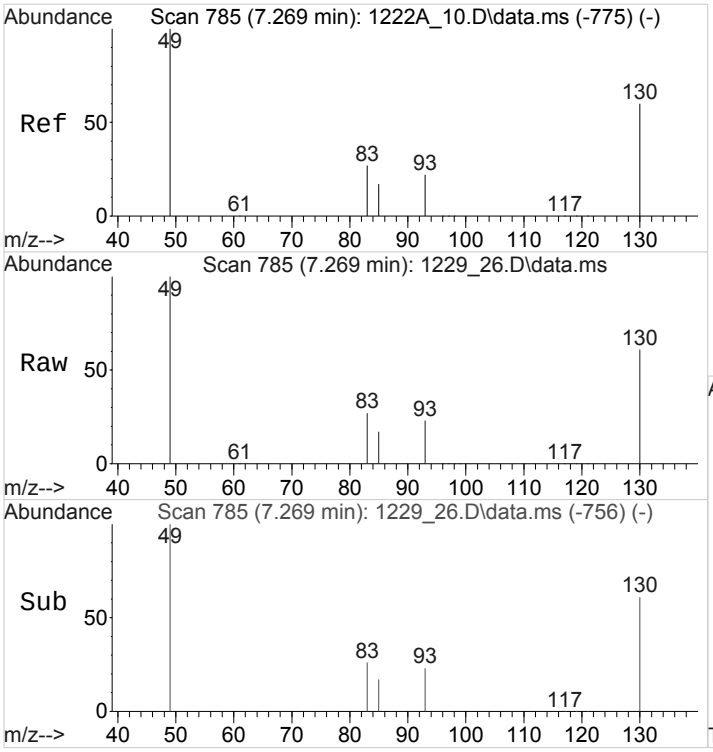
#11
cis-1,2-Dichloroethene
Concen: 0.4674037 ppbv
RT: 7.038 min Scan# 752
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 96 Resp: 7227

Ion	Ratio	Lower	Upper
96	100		
61	148.3	123.0	184.6
98	63.1	51.3	76.9



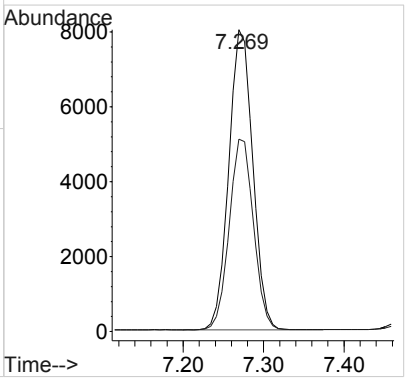
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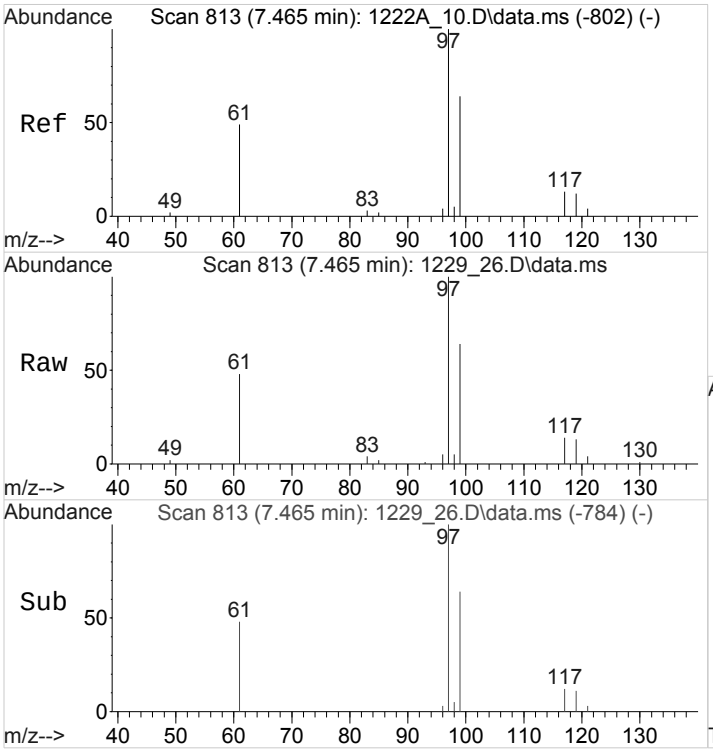


#12
Chloroform
Concen: 0.4673560 ppbv
RT: 7.269 min Scan# 785
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 83 Resp: 16608

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.3	76.9

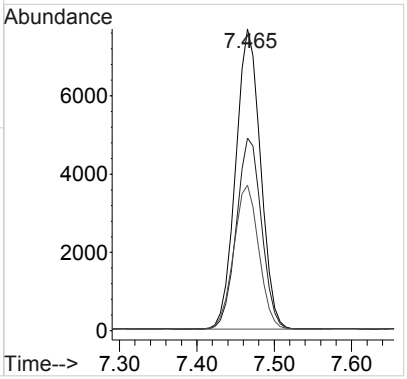


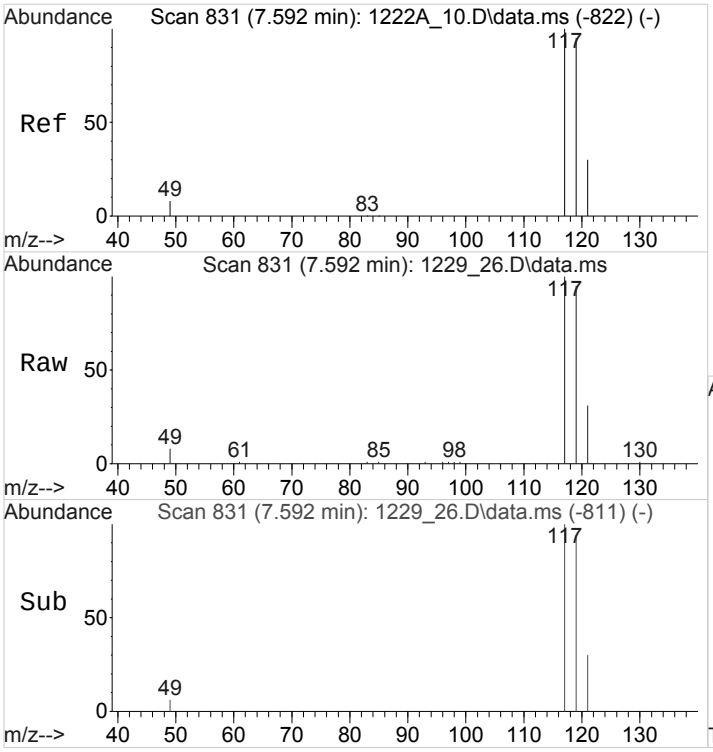


#13
1,1,1-Trichloroethane
Concen: 0.4704713 ppbv
RT: 7.465 min Scan# 813
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 97 Resp: 17002

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.0	76.6
61	48.5	40.3	60.5

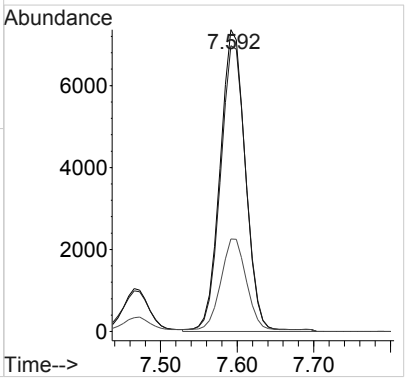


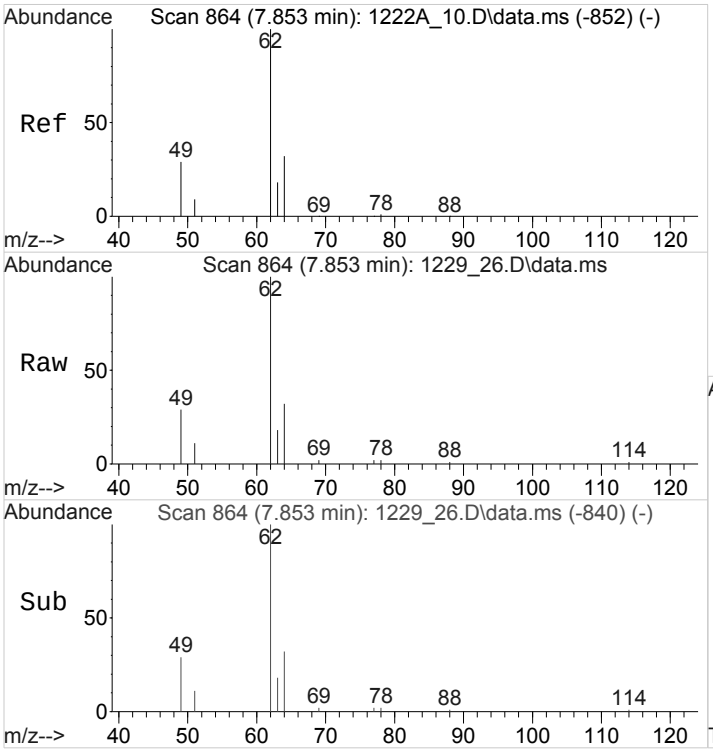


#14
Carbon Tetrachloride
Concen: 0.4890448 ppbv
RT: 7.592 min Scan# 831
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion:117 Resp: 17068

Ion	Ratio	Lower	Upper
117	100		
119	92.0	76.7	115.1
121	32.4	27.0	40.4

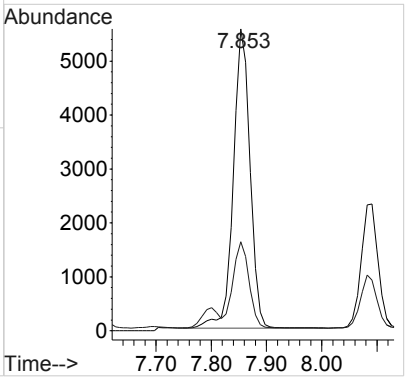




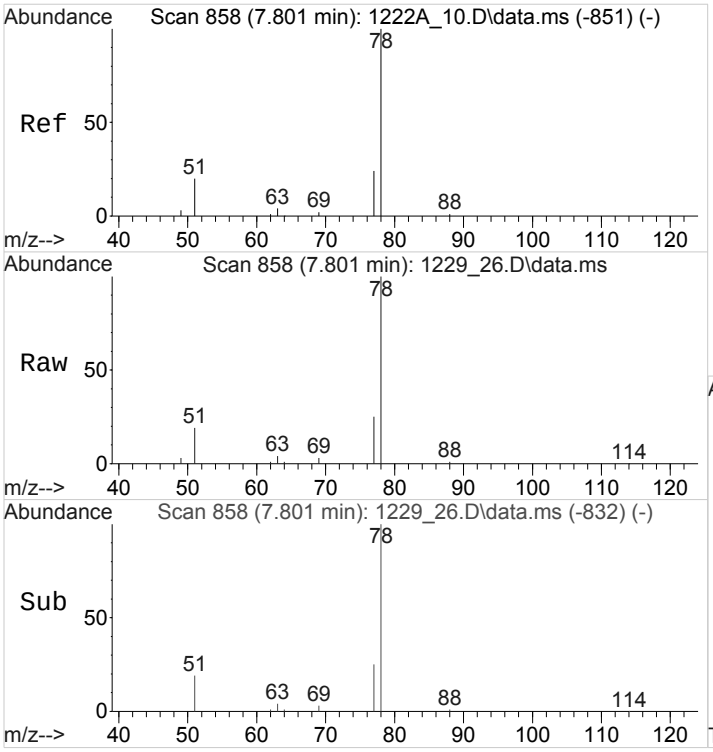
#15
1,2-Dichloroethane
Concen: 0.4613508 ppbv
RT: 7.853 min Scan# 864
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 62 Resp: 11698

Ion	Ratio	Lower	Upper
62	100		
49	27.9	22.4	33.6



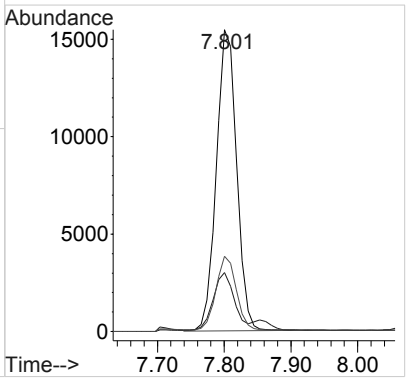
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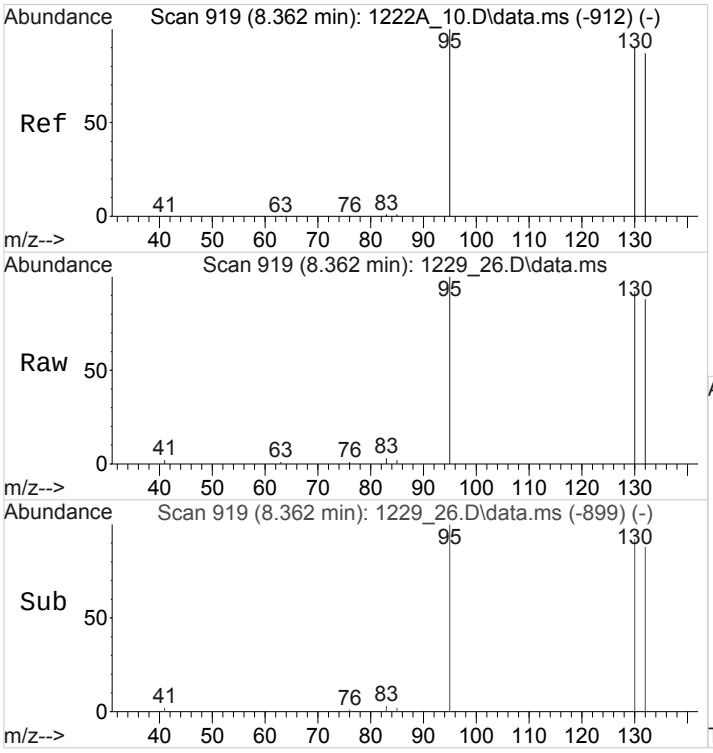


#17
Benzene
Concen: 0.5747128 ppbv
RT: 7.801 min Scan# 858
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 78 Resp: 32824

Ion	Ratio	Lower	Upper
78	100		
51	19.6	17.5	26.3
77	25.4	20.2	30.4

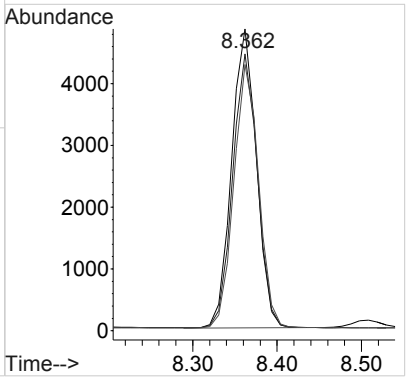




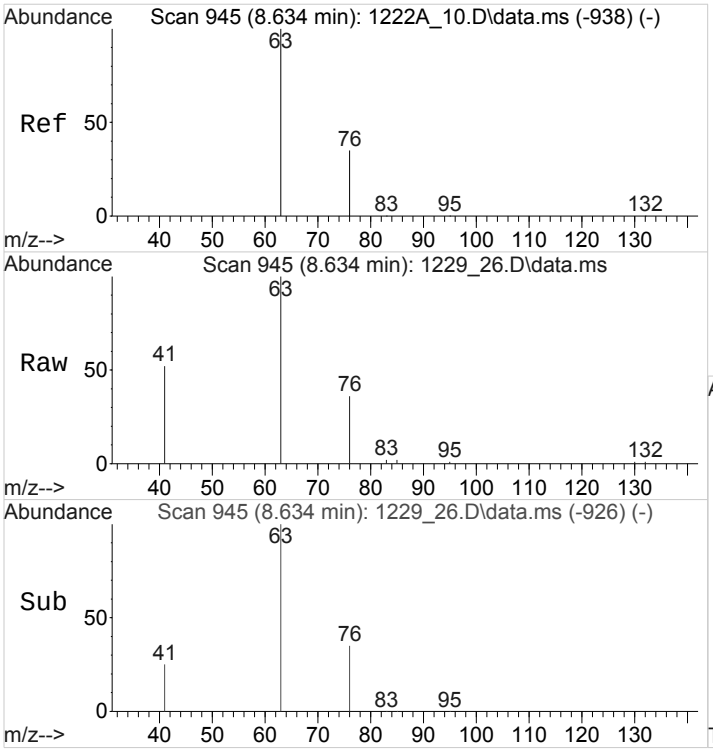
#18
Trichloroethene
Concen: 0.4504048 ppbv
RT: 8.362 min Scan# 919
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 95 Resp: 9883

Ion	Ratio	Lower	Upper
95	100		
130	92.5	73.0	109.4
132	89.3	69.8	104.8



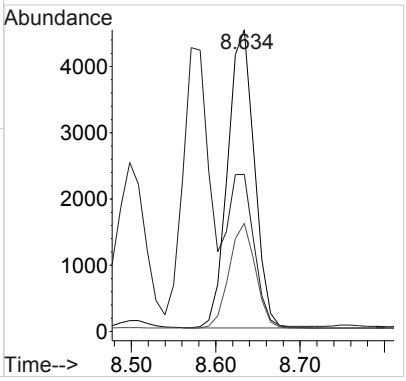
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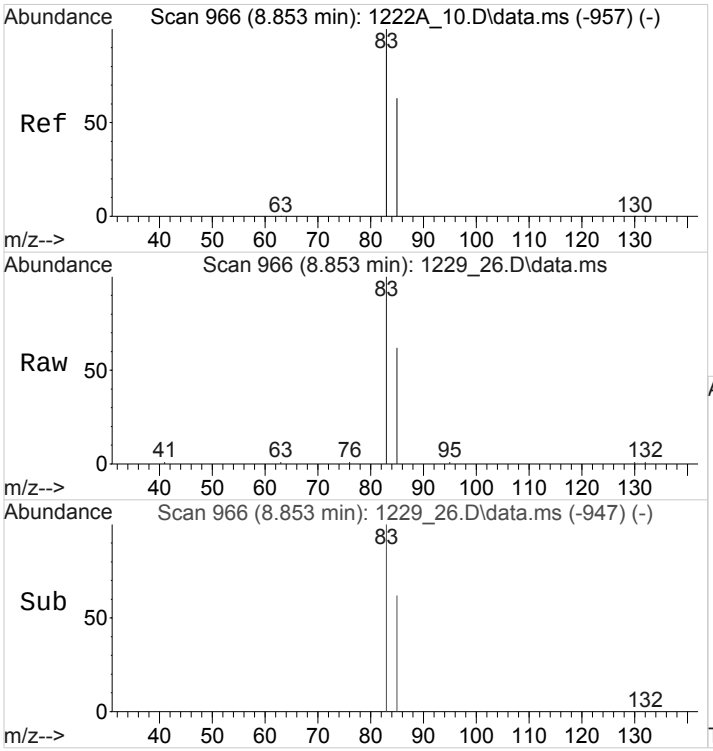


#19
1,2-Dichloropropane
Concen: 0.4687775 ppbv
RT: 8.634 min Scan# 945
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 63 Resp: 9852

Ion	Ratio	Lower	Upper
63	100		
41	50.6	41.9	62.9
76	34.6	27.3	40.9

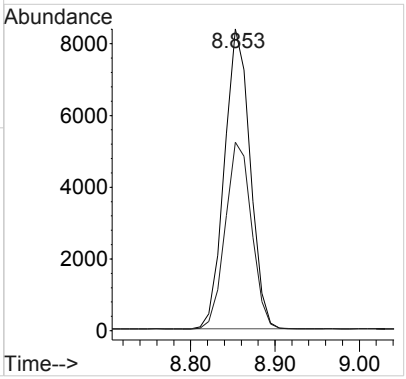


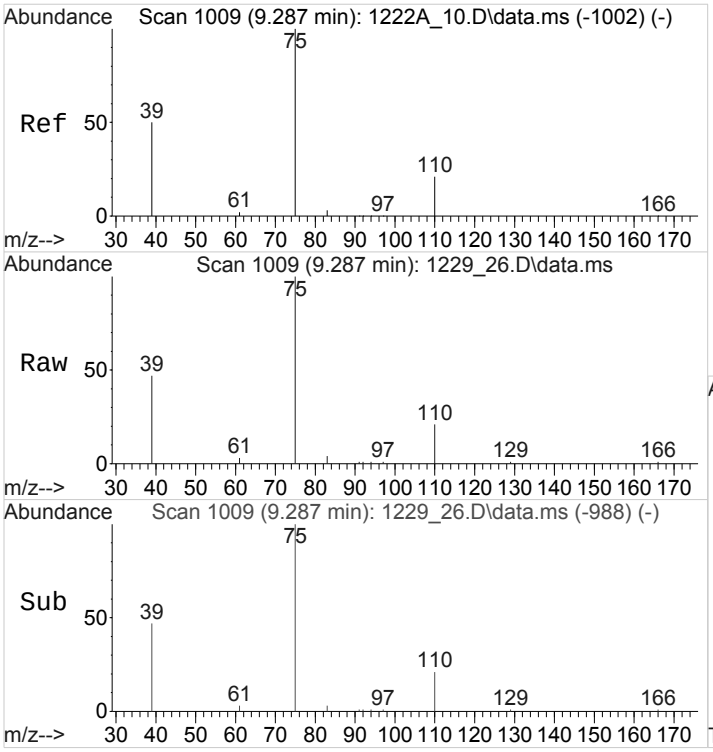


#20
Bromodichloromethane
Concen: 0.4677998 ppbv
RT: 8.853 min Scan# 966
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 83 Resp: 17732

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.7	76.1

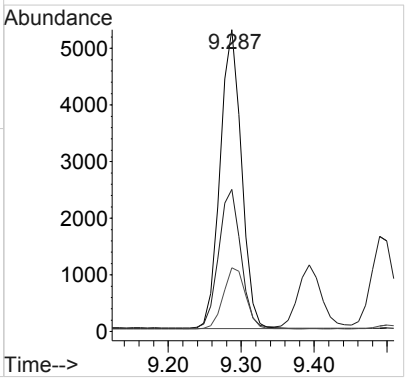


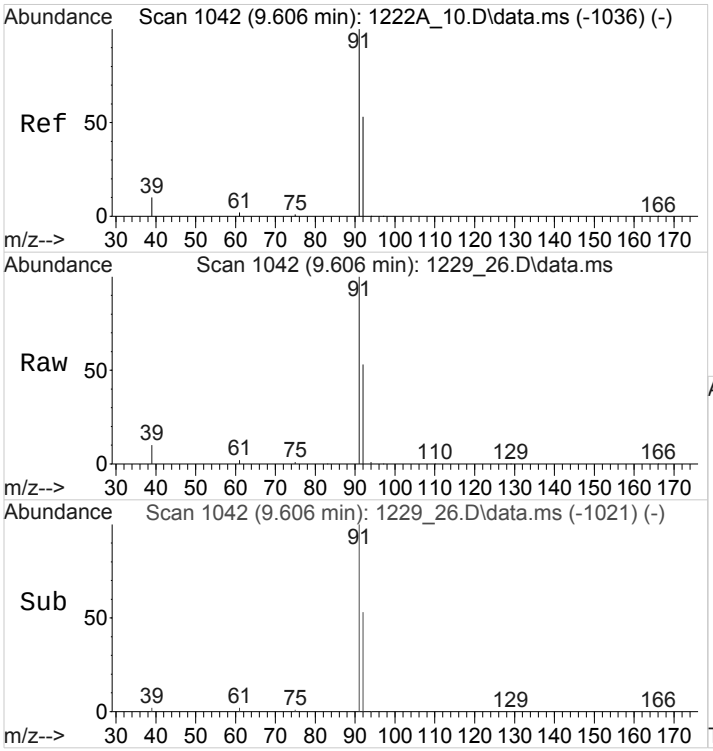


#21
cis-1,3-Dichloropropene
Concen: 0.4486047 ppbv
RT: 9.287 min Scan# 1009
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 75 Resp: 10783

Ion	Ratio	Lower	Upper
75	100		
39	47.4	41.2	61.8
110	21.1	16.6	24.8

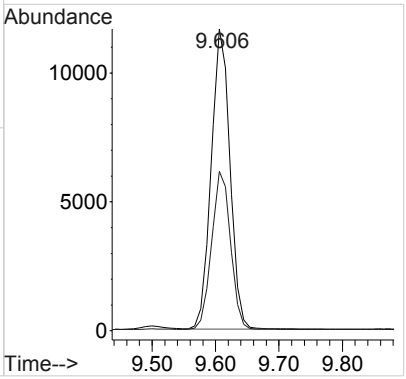




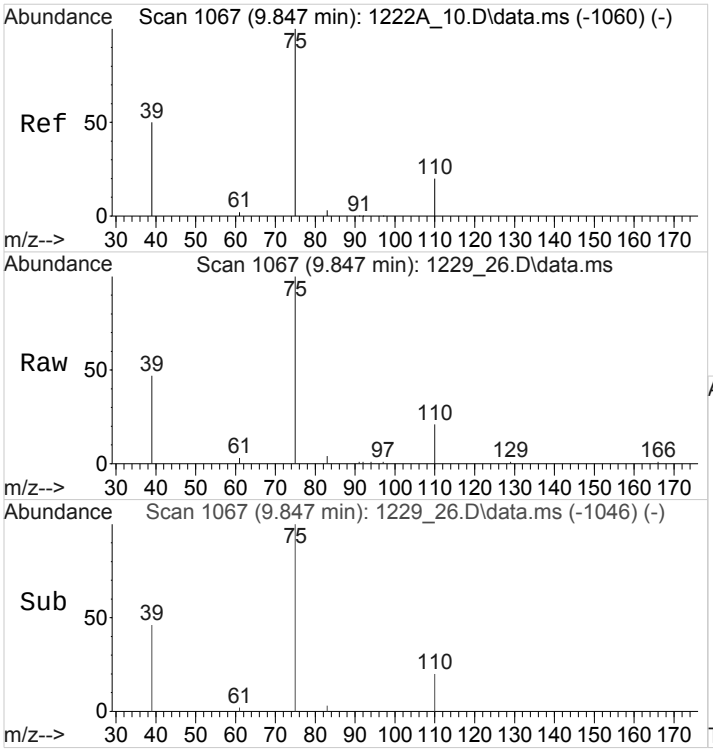
#22
Toluene
Concen: 0.4808234 ppbv
RT: 9.606 min Scan# 1042
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 91 Resp: 23971

Ion	Ratio	Lower	Upper
91	100		
92	52.9	42.1	63.1



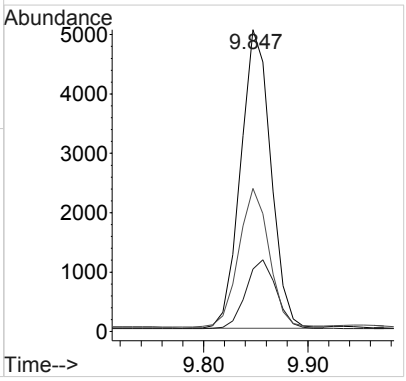
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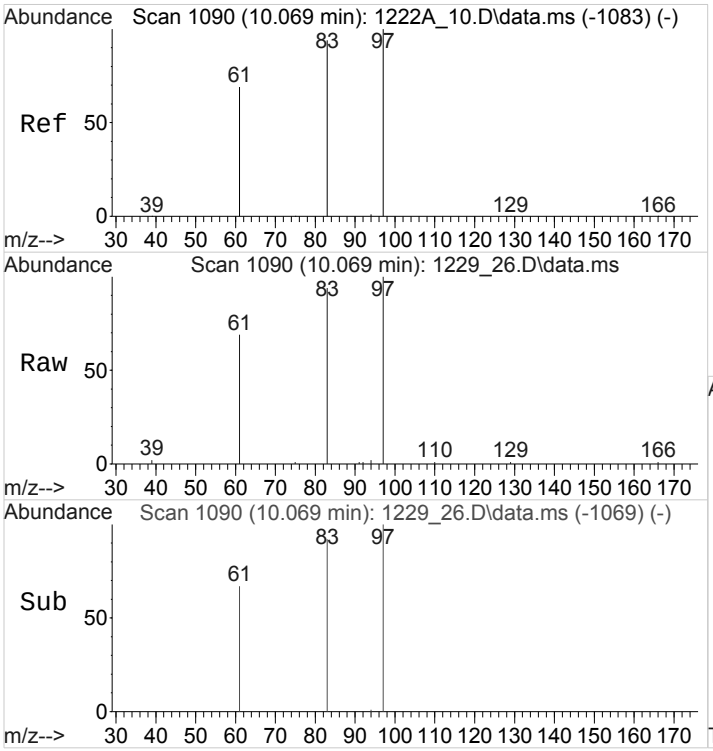


#23
trans-1,3-Dichloropropene
Concen: 0.4515646 ppbv
RT: 9.847 min Scan# 1067
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 75 Resp: 10166

Ion	Ratio	Lower	Upper
75	100		
110	23.2	18.1	27.1
39	46.4	40.3	60.5

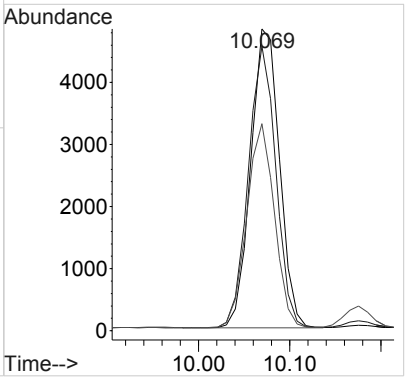




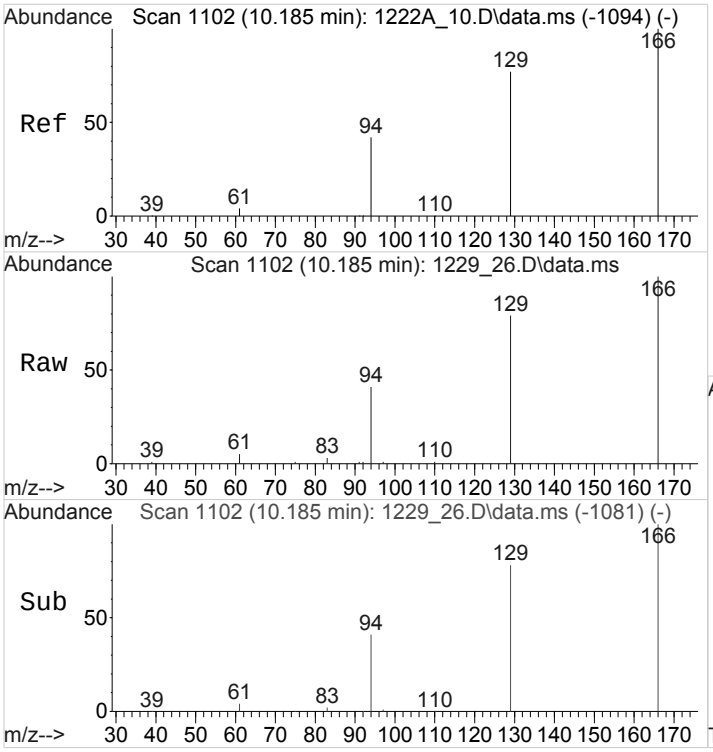
#24
1,1,2-Trichloroethane
Concen: 0.4799491 ppbv
RT: 10.069 min Scan# 1090
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 97 Resp: 10541

Ion	Ratio	Lower	Upper
97	100		
83	90.4	73.5	110.3
61	65.4	54.8	82.2



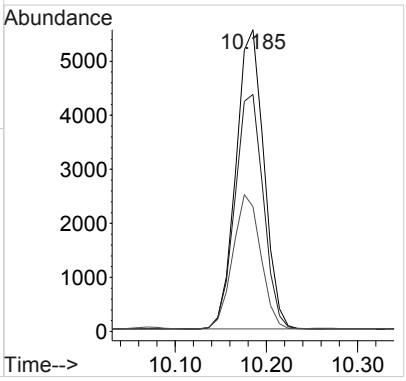
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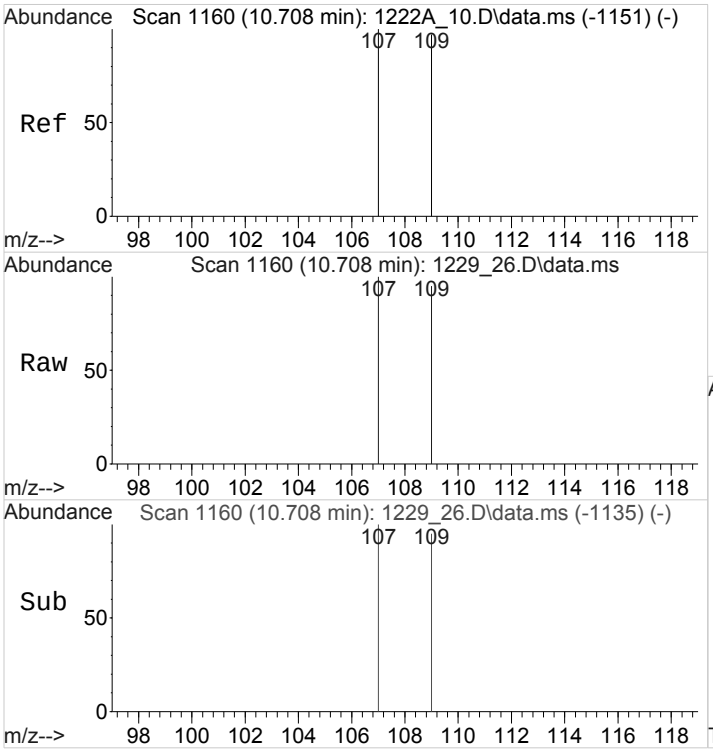


#25
Tetrachloroethene
Concen: 0.4795520 ppbv
RT: 10.185 min Scan# 1102
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion:166 Resp: 11784

Ion	Ratio	Lower	Upper
166	100		
129	79.8	63.9	95.9
94	44.8	37.4	56.2

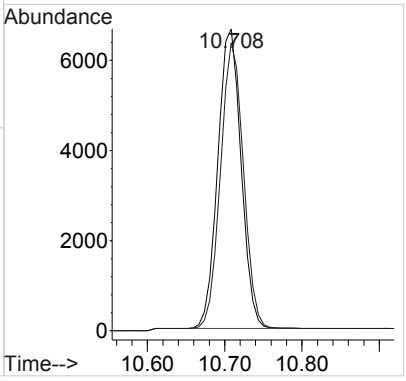




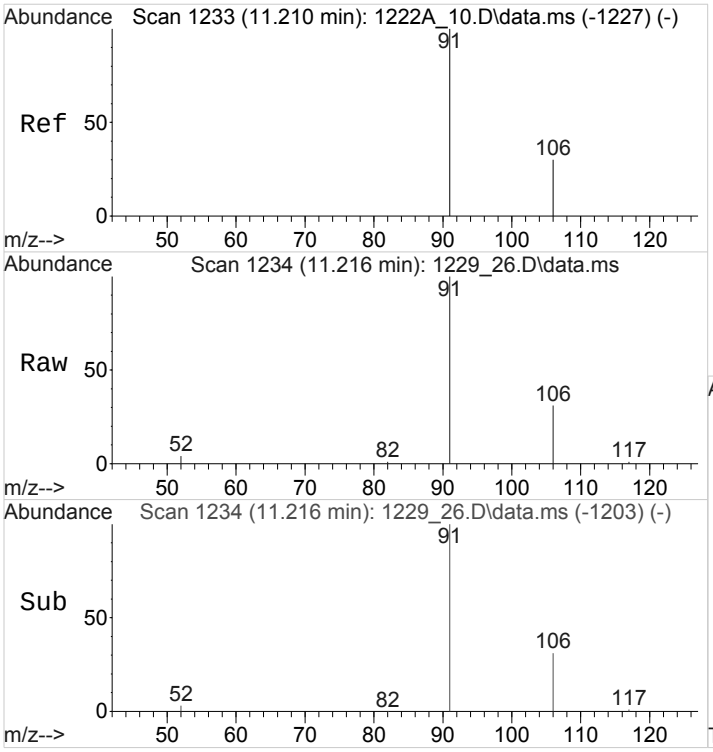
#26
1,2-Dibromoethane
Concen: 0.4700387 ppbv
RT: 10.708 min Scan# 1160
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion:107 Resp: 13930

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.0	112.6



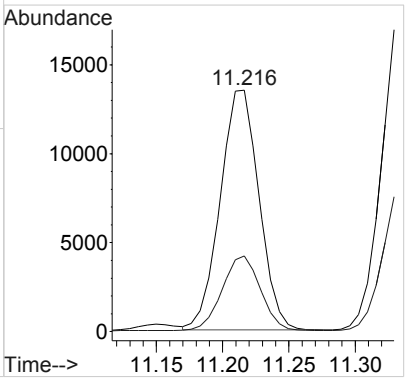
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570570	02/27/23 16:10	451 of 471

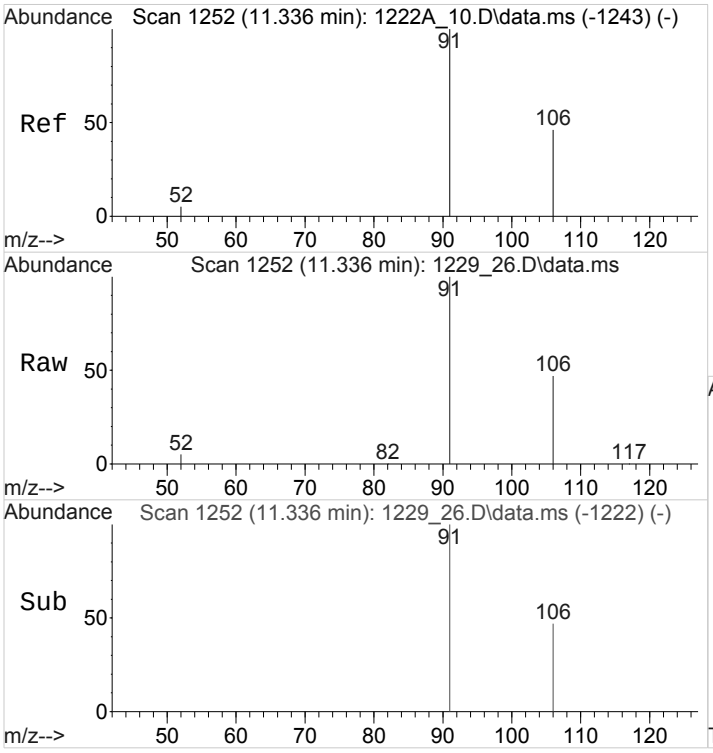


#28
Ethylbenzene
Concen: 0.4780634 ppbv
RT: 11.216 min Scan# 1234
Delta R.T. 0.007 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 91 Resp: 27361

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.2	36.4

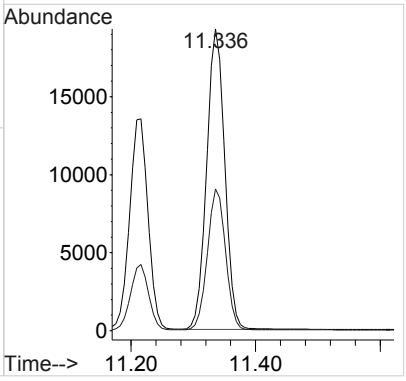


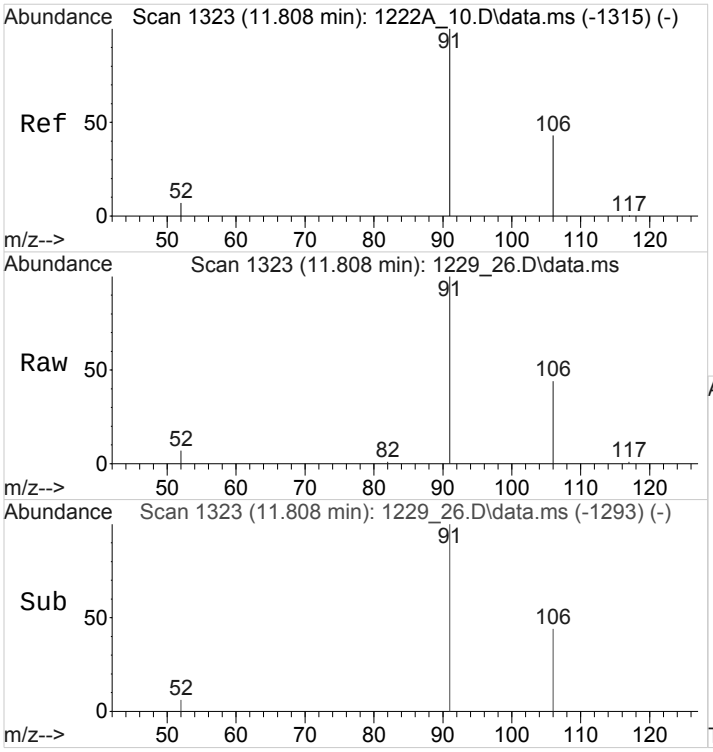


#29
M&P-Xylene
Concen: 0.9452120 ppbv
RT: 11.336 min Scan# 1252
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 91 Resp: 39184

Ion	Ratio	Lower	Upper
91	100		
106	46.9	36.9	55.3

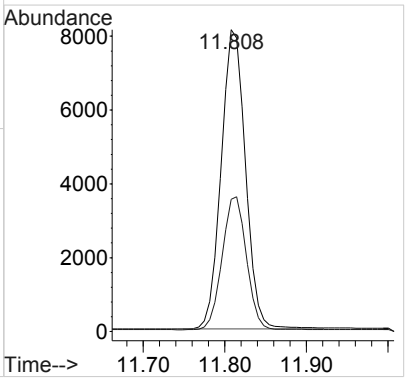


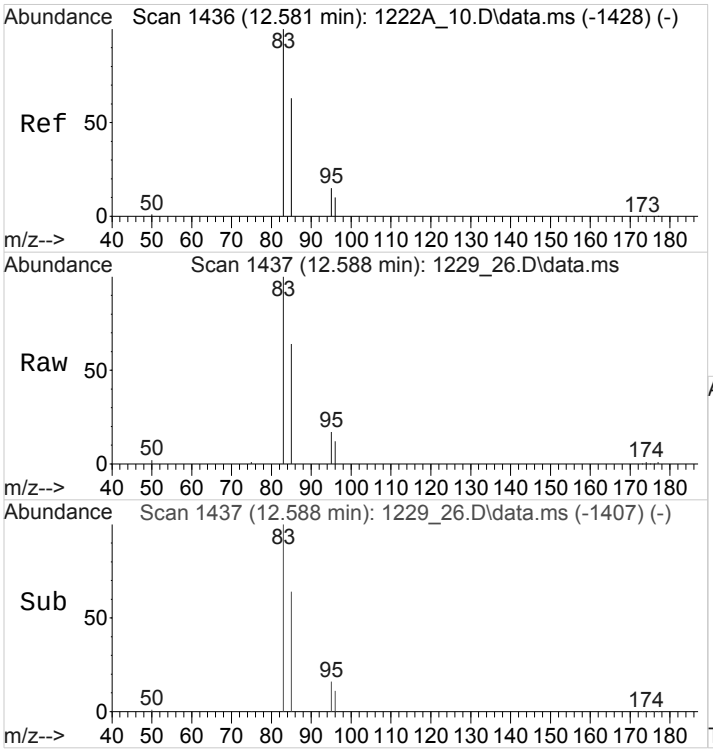


#30
O-Xylene
Concen: 0.4449279 ppbv
RT: 11.808 min Scan# 1323
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 91 Resp: 16819

Ion	Ratio	Lower	Upper
91	100		
106	44.1	34.6	52.0

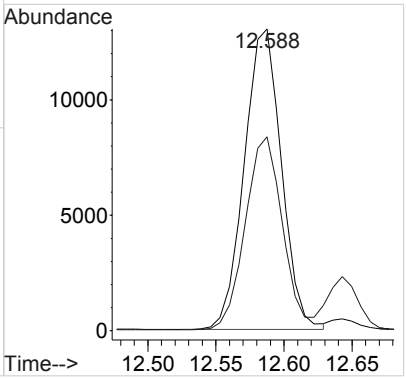


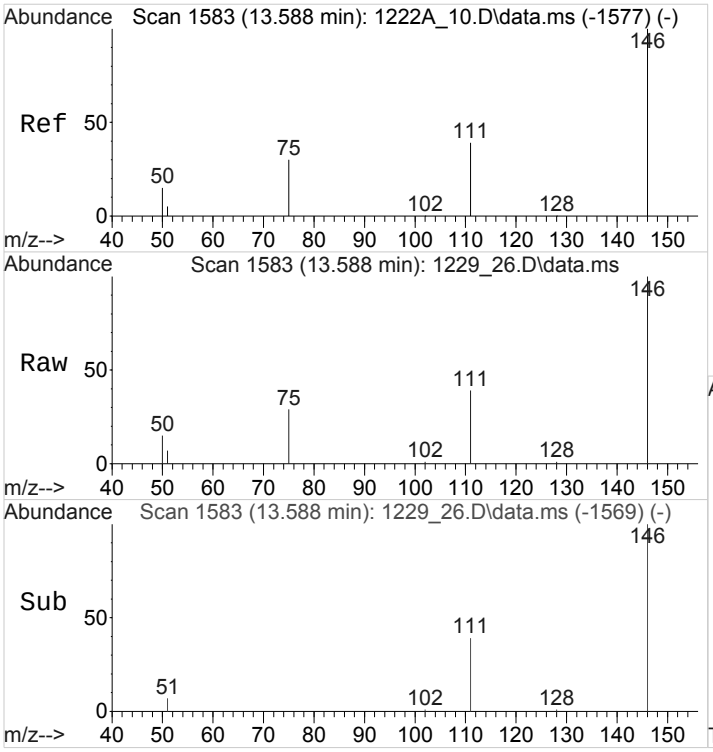


#31
1,1,2,2-Tetrachloroethane
Concen: 0.4784506 ppbv
RT: 12.588 min Scan# 1437
Delta R.T. 0.007 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 83 Resp: 24733

Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.0	76.6

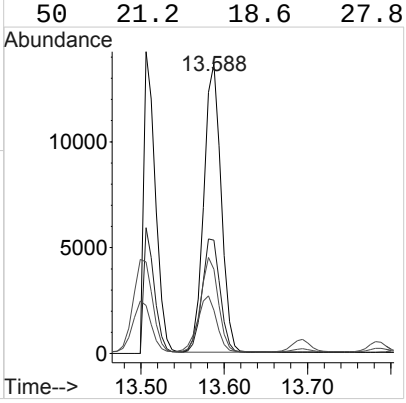


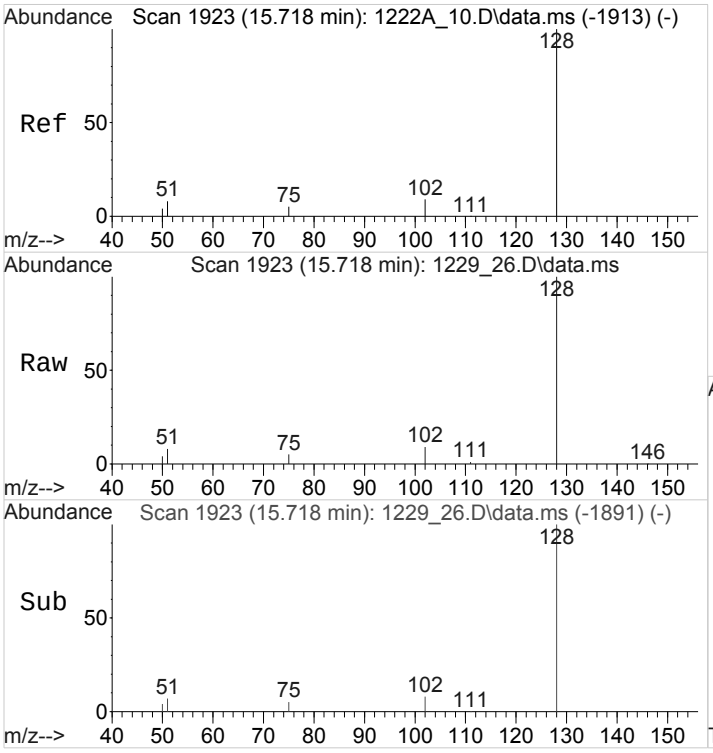


#33
1,4-Dichlorobenzene
Concen: 0.5148369 ppbv
RT: 13.588 min Scan# 1583
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion:146 Resp: 19641

Ion	Ratio	Lower	Upper
146	100		
111	40.6	32.6	49.0
75	33.0	27.5	41.3
50	21.2	18.6	27.8

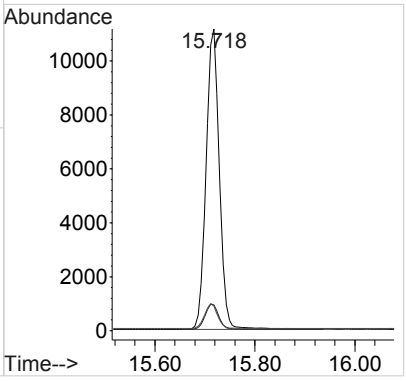




#34
Naphthalene
Concen: 0.4171961 ppbv
RT: 15.718 min Scan# 1923
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion:128 Resp: 20550

Ion	Ratio	Lower	Upper
128	100		
102	8.5	7.0	10.4
51	8.1	6.9	10.3



ANALYTICAL SEQUENCE

SDG:	L1570570	**Analytical Method:**	TO-15-SIM
Instrument ID:	AIRMS7	**Calibration Start Date:**	12/22/22 18:41
		Calibration End Date:	12/23/22 00:43

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	AIRMS7122222A1222A_01609226	1222A_01	12/22/22 16:43		
CAL	0.02	1222A_04	12/22/22 18:41		
CAL	0.03	1222A_05	12/22/22 19:20		
CAL	0.06	1222A_06	12/22/22 19:58		
CAL	0.13	1222A_07	12/22/22 20:35		
CAL	0.25	1222A_08	12/22/22 21:15		
CAL	0.38	1222A_09	12/22/22 21:55		
CAL	0.5	1222A_10	12/22/22 22:37		
CAL	1.0	1222A_11	12/22/22 23:14		
CAL	5.0	1222A_12	12/22/22 23:56		
CAL	10.0	1222A_13	12/23/22 00:43		
SSCV	AIRMS7122222A1222A_15609226	1222A_15	12/23/22 01:59		
TUNE	AIRMS71229221229_01T609226	1229_01T	12/29/22 08:54		
ICV	AIRMS71229221229_02609226	1229_02	12/29/22 09:38		
TUNE	AIRMS71229221229_02T609226	1229_02T	12/29/22 09:38		
LCS	R3876557-1	1229_03	12/29/22 10:24	1	WG1980882
LCSD	R3876557-2	1229_04	12/29/22 11:10	1	WG1980882
BLANK	R3876557-3	1229_05	12/29/22 11:49	1	WG1980882
L1569830-01	L1569830-01	1229_07	12/29/22 13:22	1	WG1980882
L1569830-02	L1569830-02	1229_08	12/29/22 14:01	1	WG1980882
L1569830-03	L1569830-03	1229_09	12/29/22 14:40	1	WG1980882
L1569830-04	L1569830-04	1229_10	12/29/22 15:20	1	WG1980882
L1569830-05	L1569830-05	1229_11	12/29/22 15:59	1	WG1980882
L1569830-06	L1569830-06	1229_12	12/29/22 16:38	1	WG1980882
L1569830-07	L1569830-07	1229_13	12/29/22 17:18	1	WG1980882
774-IA-1_1222	L1570570-10	1229_14	12/29/22 17:57	1	WG1980882
776-IA-1_1222	L1570570-11	1229_15	12/29/22 18:36	1	WG1980882
L1570581-10	L1570581-10	1229_16	12/29/22 19:15	1	WG1980882
L1570581-11	L1570581-11	1229_17	12/29/22 19:54	1	WG1980882
L1570591-06	L1570591-06	1229_18	12/29/22 20:34	1	WG1980882
L1570591-07	L1570591-07	1229_19	12/29/22 21:13	1	WG1980882
L1570763-01	L1570763-01	1229_20	12/29/22 21:53	1	WG1980882
L1570763-02	L1570763-02	1229_21	12/29/22 22:32	1	WG1980882
L1570763-03	L1570763-03	1229_22	12/29/22 23:12	1	WG1980882
L1570763-04	L1570763-04	1229_23	12/29/22 23:52	1	WG1980882
L1570763-05	L1570763-05	1229_24	12/30/22 00:32	1	WG1980882
CCV	AIRMS71229221229_26609226	1229_26	12/30/22 01:58		

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1570570-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** TO-15-SIM

Matrix: Air **Prep Method:** TO-15-SIM

Analyte	CAS	MDL	RDL
		ppbv	*ppbv*
1,1-Dichloroethene	75-35-4	0.009210	0.04
cis-1,2-Dichloroethene	156-59-2	0.0142	0.06
Tetrachloroethylene	127-18-4	0.0127	0.06
1,1,1-Trichloroethane	71-55-6	0.006490	0.04
Benzene	71-43-2	0.0112	0.05
Trichloroethylene	79-01-6	0.007460	0.04
Vinyl chloride	75-01-4	0.007650	0.04
Carbon tetrachloride	56-23-5	0.009950	0.04

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876557-3	**SDG:**	L1570570
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	1229_05	**Received Date/Time:**	
Instrument ID:	AIRMS7	**Preparation Date/Time:**	12/29/22 11:49
Analytical Batch:	WG1980882	**Analysis Date/Time:**	12/29/22 11:49
Dilution Factor:	1	**Prep Method:**	TO-15-SIM
Analytical Method:	TO-15-SIM	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
Benzene	71-43-2	7.80	0.0250	U	0.0112	0.0250	0.0500
Carbon tetrachloride	56-23-5	0	0.0200	U	0.00995	0.0200	0.0400
1,1-Dichloroethene	75-35-4	0	0.0190	U	0.00921	0.0190	0.0400
cis-1,2-Dichloroethene	156-59-2	0	0.0300	U	0.0142	0.0300	0.0600
Tetrachloroethylene	127-18-4	0	0.0300	U	0.0127	0.0300	0.0600
1,1,1-Trichloroethane	71-55-6	0	0.0190	U	0.00649	0.0190	0.0400
Trichloroethylene	79-01-6	0	0.0190	U	0.00746	0.0190	0.0400
Vinyl chloride	75-01-4	0	0.0190	U	0.00765	0.0190	0.0400

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_05.D
Acq On : 29 Dec 2022 11:49 am
Operator :
Sample : BLANK 1x WG1980882
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 29 12:17:52 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

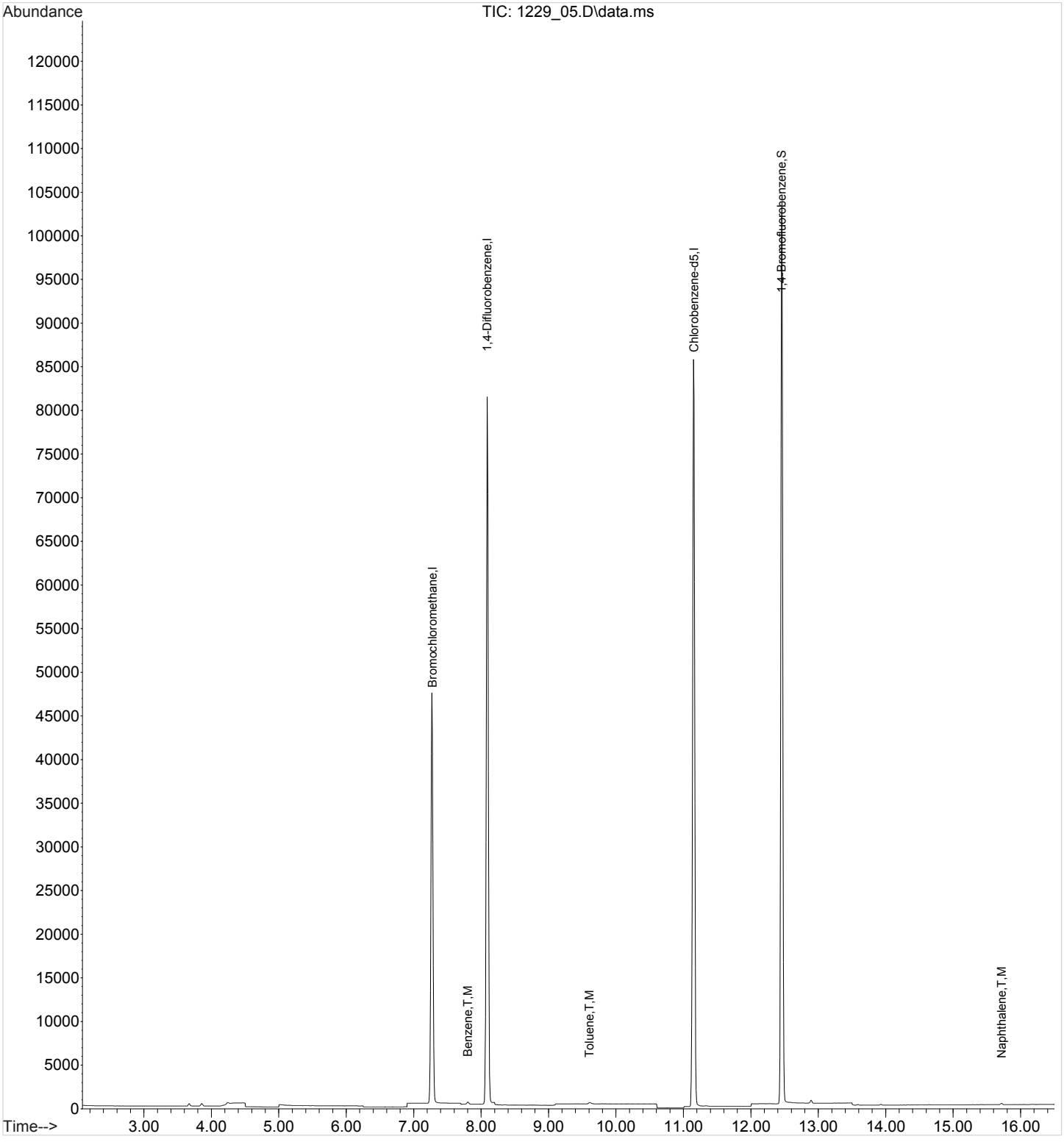
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	33241	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	108902	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.156	117	98225	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	59396	1.1620680	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 92.97%			
Target Compounds						Qvalue
2) Chloromethane	0.000		0	N.D. d		
3) Vinyl Chloride	0.000		0	N.D. d		
4) 1,3-Butadiene	0.000		0	N.D. d		
5) Chloroethane	0.000		0	N.D.		
6) 1,1-Dichloroethene	0.000		0	N.D.		
7) Methyl Tert-Butyl Ether	0.000		0	N.D.		
8) Trans-1,2-Dichloroethene	0.000		0	N.D.		
9) 1,1-Dichloroethane	0.000		0	N.D.		
10) Vinyl Acetate	0.000		0	N.D.		
11) cis-1,2-Dichloroethene	0.000		0	N.D.		
12) Chloroform	0.000		0	N.D.		
13) 1,1,1-Trichloroethane	0.000		0	N.D.		
14) Carbon Tetrachloride	0.000		0	N.D.		
15) 1,2-Dichloroethane	0.000		0	N.D.		
17) Benzene	7.800	78	334	0.0072915	ppbv #	1
18) Trichloroethene	0.000		0	N.D. d		
19) 1,2-Dichloropropane	0.000		0	N.D.		
20) Bromodichloromethane	0.000		0	N.D.		
21) cis-1,3-Dichloropropene	0.000		0	N.D.		
22) Toluene	9.606	91	202	0.0050520	ppbv #	26
23) trans-1,3-Dichloropropene	0.000		0	N.D.		
24) 1,1,2-Trichloroethane	0.000		0	N.D.		
25) Tetrachloroethene	0.000		0	N.D.		
26) 1,2-Dibromoethane	0.000		0	N.D.		
28) Ethylbenzene	0.000		0	N.D. d		
29) M&P-Xylene	0.000		0	N.D.		
30) O-Xylene	0.000		0	N.D.		
31) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
33) 1,4-Dichlorobenzene	0.000		0	N.D.		
34) Naphthalene	15.718	128	247	0.0065630	ppbv #	76

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_05.D
Acq On : 29 Dec 2022 11:49 am
Operator :
Sample : BLANK 1x WG1980882
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 29 12:17:52 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876557-1	**SDG:**	L1570570
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	1229_03	**Received Date/Time:**	
Instrument ID:	AIRMS7	**Preparation Date/Time:**	12/29/22 10:24
Analytical Batch:	WG1980882	**Analysis Date/Time:**	12/29/22 10:24
Dilution Factor:	1	**Prep Method:**	TO-15-SIM
Analytical Method:	TO-15-SIM	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
Benzene	71-43-2	7.80	0.561		0.0112	0.0250	0.0500
Carbon tetrachloride	56-23-5	7.59	0.489		0.00995	0.0200	0.0400
1,1-Dichloroethene	75-35-4	5.50	0.457		0.00921	0.0190	0.0400
cis-1,2-Dichloroethene	156-59-2	7.04	0.476		0.0142	0.0300	0.0600
Tetrachloroethylene	127-18-4	10.19	0.481		0.0127	0.0300	0.0600
1,1,1-Trichloroethane	71-55-6	7.47	0.474		0.00649	0.0190	0.0400
Trichloroethylene	79-01-6	8.36	0.453		0.00746	0.0190	0.0400
Vinyl chloride	75-01-4	4.29	0.440		0.00765	0.0190	0.0400

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 10:24 am
Operator :
Sample : LCS 1x WG1980882
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 29 11:12:54 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

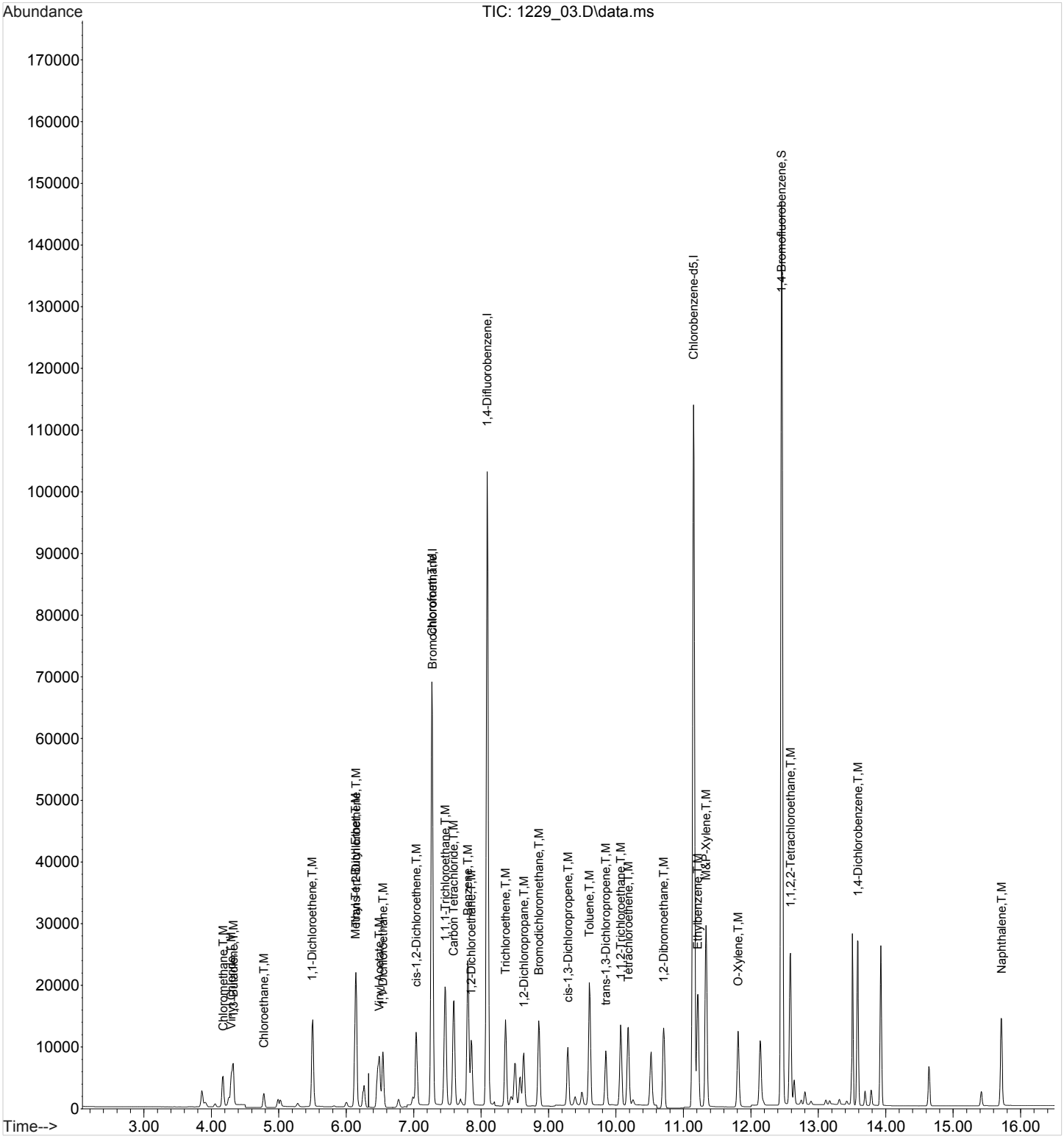
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	38329	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	137863	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	127508	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	83138	1.2530215	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 100.24%			
Target Compounds						Qvalue
2) Chloromethane	4.174	50	7533	0.4321120	ppbv	99
3) Vinyl Chloride	4.292	62	6635	0.4398010	ppbv	99
4) 1,3-Butadiene	4.324	39	4761	0.4303742	ppbv	99
5) Chloroethane	4.779	64	2629	0.4462855	ppbv	99
6) 1,1-Dichloroethene	5.495	61	12879	0.4565334	ppbv	97
7) Methyl Tert-Butyl Ether	6.136	73	15511	0.4579697	ppbv	99
8) Trans-1,2-Dichloroethene	6.144	61	12374	0.4603910	ppbv	99
9) 1,1-Dichloroethane	6.544	63	16365	0.4672782	ppbv	100
10) Vinyl Acetate	6.489	43	25236	0.4111057	ppbv	99
11) cis-1,2-Dichloroethene	7.038	96	7323	0.4755895	ppbv	97
12) Chloroform	7.269	83	16649	0.4704655	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	17051	0.4737968	ppbv	99
14) Carbon Tetrachloride	7.591	117	17003	0.4892161	ppbv	97
15) 1,2-Dichloroethane	7.853	62	11976	0.4742863	ppbv	99
17) Benzene	7.800	78	32512	0.5606656	ppbv	97
18) Trichloroethene	8.362	95	10083	0.4525899	ppbv	98
19) 1,2-Dichloropropane	8.634	63	9973	0.4673788	ppbv	98
20) Bromodichloromethane	8.853	83	17916	0.4655263	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	11082	0.4540914	ppbv	95
22) Toluene	9.606	91	24820	0.4903454	ppbv	100
23) trans-1,3-Dichloropropene	9.847	75	10321	0.4515361	ppbv	96
24) 1,1,2-Trichloroethane	10.069	97	10637	0.4770165	ppbv	97
25) Tetrachloroethene	10.185	166	11989	0.4805370	ppbv	98
26) 1,2-Dibromoethane	10.708	107	14064	0.4674038	ppbv	100
28) Ethylbenzene	11.209	91	27340	0.4816302	ppbv	99
29) M&P-Xylene	11.336	91	39257	0.9547710	ppbv	99
30) O-Xylene	11.808	91	16915	0.4511523	ppbv	99
31) 1,1,2,2-Tetrachloroethane	12.587	83	24453	0.4769294	ppbv	100
33) 1,4-Dichlorobenzene	13.587	146	20241	0.5349334	ppbv	98
34) Naphthalene	15.718	128	21483	0.4397289	ppbv	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 10:24 am
Operator :
Sample : LCS 1x WG1980882
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 29 11:12:54 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876557-2	**SDG:**	L1570570
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	1229_04	**Received Date/Time:**	
Instrument ID:	AIRMS7	**Preparation Date/Time:**	12/29/22 11:10
Analytical Batch:	WG1980882	**Analysis Date/Time:**	12/29/22 11:10
Dilution Factor:	1	**Prep Method:**	TO-15-SIM
Analytical Method:	TO-15-SIM	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
Benzene	71-43-2	7.80	0.564		0.0112	0.0250	0.0500
Carbon tetrachloride	56-23-5	7.59	0.472		0.00995	0.0200	0.0400
1,1-Dichloroethene	75-35-4	5.50	0.466		0.00921	0.0190	0.0400
cis-1,2-Dichloroethene	156-59-2	7.04	0.488		0.0142	0.0300	0.0600
Tetrachloroethylene	127-18-4	10.19	0.480		0.0127	0.0300	0.0600
1,1,1-Trichloroethane	71-55-6	7.47	0.476		0.00649	0.0190	0.0400
Trichloroethylene	79-01-6	8.36	0.453		0.00746	0.0190	0.0400
Vinyl chloride	75-01-4	4.29	0.451		0.00765	0.0190	0.0400

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_04.D
Acq On : 29 Dec 2022 11:10 am
Operator :
Sample : LCSD 1x WG1980882
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 29 11:28:30 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

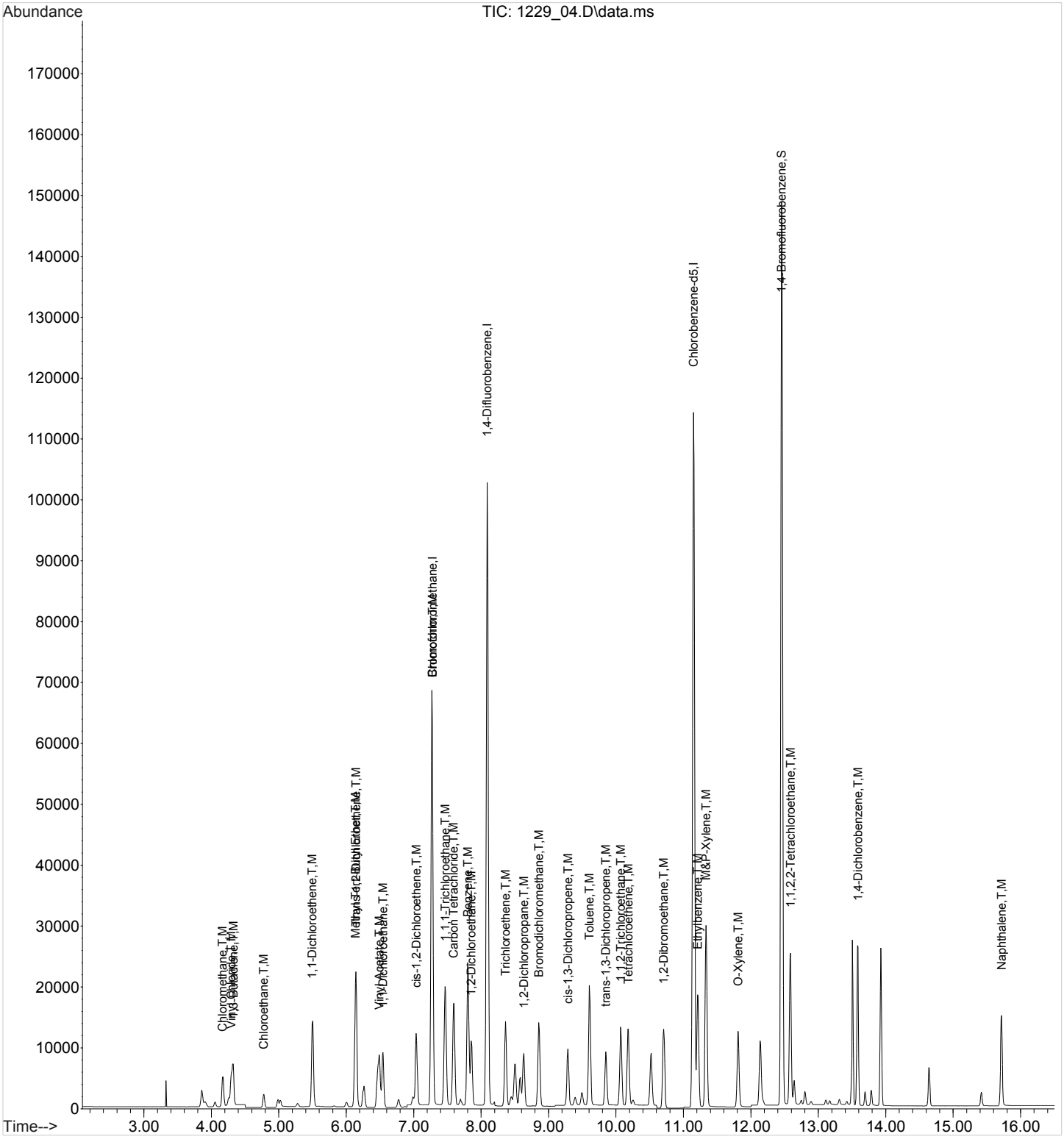
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	38176	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	137133	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	128561	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	83764	1.2521159	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 100.17%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	7582	0.4366658	ppbv	99
3) Vinyl Chloride	4.292	62	6779	0.4511469	ppbv	99
4) 1,3-Butadiene	4.324	39	4907	0.4453497	ppbv	100
5) Chloroethane	4.774	64	2472	0.4213158	ppbv	99
6) 1,1-Dichloroethene	5.495	61	13080	0.4655167	ppbv	97
7) Methyl Tert-Butyl Ether	6.136	73	15576	0.4617320	ppbv	99
8) Trans-1,2-Dichloroethene	6.144	61	12433	0.4644401	ppbv	99
9) 1,1-Dichloroethane	6.544	63	16453	0.4716737	ppbv	100
10) Vinyl Acetate	6.488	43	25711	0.4205223	ppbv	99
11) cis-1,2-Dichloroethene	7.038	96	7491	0.4884500	ppbv	95
12) Chloroform	7.276	83	16646	0.4722659	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	17070	0.4762257	ppbv	99
14) Carbon Tetrachloride	7.591	117	16345	0.4721687	ppbv	95
15) 1,2-Dichloroethane	7.853	62	12050	0.4791295	ppbv	99
17) Benzene	7.800	78	32516	0.5637196	ppbv	97
18) Trichloroethene	8.362	95	10041	0.4531039	ppbv	99
19) 1,2-Dichloropropane	8.633	63	9959	0.4692072	ppbv	91
20) Bromodichloromethane	8.853	83	17827	0.4656796	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	10944	0.4508239	ppbv	96
22) Toluene	9.606	91	24528	0.4871562	ppbv	100
23) trans-1,3-Dichloropropene	9.847	75	10318	0.4538078	ppbv	95
24) 1,1,2-Trichloroethane	10.069	97	10525	0.4745065	ppbv	98
25) Tetrachloroethene	10.185	166	11918	0.4802341	ppbv	99
26) 1,2-Dibromoethane	10.708	107	14037	0.4689898	ppbv	100
28) Ethylbenzene	11.209	91	27649	0.4830842	ppbv	99
29) M&P-Xylene	11.336	91	39779	0.9595424	ppbv	99
30) O-Xylene	11.808	91	17274	0.4569538	ppbv	99
31) 1,1,2,2-Tetrachloroethane	12.587	83	24726	0.4783040	ppbv	99
33) 1,4-Dichlorobenzene	13.587	146	19922	0.5221904	ppbv	98
34) Naphthalene	15.718	128	21797	0.4425018	ppbv	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_04.D
Acq On : 29 Dec 2022 11:10 am
Operator :
Sample : LCSD 1x WG1980882
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 29 11:28:30 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration



TO-15 SIM Air VOCs Benchsheet

Batch: WG1980882

Analyst: CEP3540 **SOP:** ENV-SOP-MTJL-0104 **Method:** EPA TO-15

ICV, LCS/D Std: 22L13276 Amt. Used: 400 cc Exp. Date:05/05/23 **Internal Standard/Surrogate:** 22L15635 Amt. Used: 50 cc Exp. Date:06/12/23
High Standard: 22K29492 Amt. Used: 800 cc Exp. Date:05/05/23

Sample Number	Initial Sample Vol. (mL)	Analytical Dilution	Sample Vol Used (mL)	Prep Factor	Prep Ratio	Collection Date	Spike Factor	Surrogate Factor	Review Analyst	Review Date
BLANK	200	1	200	1	1		1	1	CEP3540	12/29/22 12:23:02
LCS	200	1	200	1	1		1	1	CEP3540	12/29/22 12:23:02
LCSD	200	1	200	1	1		1	1	CEP3540	12/29/22 12:23:02
1. L1569830-01	200	1	200	1	1	12/19/22 13:50	1	1	CEP3540	12/29/22 12:23:02
2. L1569830-02	200	1	200	1	1	12/19/22 14:15	1	1	CEP3540	12/29/22 12:23:02
3. L1569830-03	200	1	200	1	1	12/19/22 14:16	1	1	CEP3540	12/29/22 12:23:02
4. L1569830-04	200	1	200	1	1	12/19/22 14:10	1	1	CEP3540	12/29/22 12:23:02
5. L1569830-05	200	1	200	1	1	12/19/22 14:00	1	1	CEP3540	12/29/22 12:23:02
6. L1569830-06	200	1	200	1	1	12/19/22 14:02	1	1	CEP3540	12/29/22 12:23:02
7. L1569830-07	200	1	200	1	1	12/19/22 14:16	1	1	CEP3540	12/29/22 12:23:02
8. L1570570-10	200	1	200	1	1	12/02/22 08:20	1	1	MBF564	12/30/22 08:21:00
9. L1570570-11	200	1	200	1	1	12/22/22 09:00	1	1	MBF564	12/30/22 08:21:00
10. L1570581-10	200	1	200	1	1	12/21/22 15:30	1	1	MBF564	12/30/22 08:21:00
11. L1570581-11	200	1	200	1	1	12/21/22 16:10	1	1	MBF564	12/30/22 08:21:00
12. L1570591-06	200	1	200	1	1	12/21/22 13:15	1	1	MBF564	12/30/22 08:21:00
13. L1570591-07	200	1	200	1	1	12/21/22 13:20	1	1	MBF564	12/30/22 08:21:00
14. L1570763-01	200	1	200	1	1	12/23/22 15:30	1	1	MBF564	12/30/22 08:21:00
15. L1570763-02	200	1	200	1	1	12/23/22 15:35	1	1	MBF564	12/30/22 08:21:00
16. L1570763-03	200	1	200	1	1	12/23/22 15:36	1	1	MBF564	12/30/22 08:21:00
17. L1570763-04	200	1	200	1	1	12/23/22 15:33	1	1	MBF564	12/30/22 08:21:00
18. L1570763-05	200	1	200	1	1	12/23/22 15:40	1	1	MBF564	12/30/22 08:21:00

Comments:

Reviewed By: MBF564 on 12/30/22 08:21:00

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

COD	Coefficient of Determination.
DL	Detection Limit.
LOD	Limit of Detection.
LOQ	Limit of Quantitation.
Mass	Mass of parameter.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RRF	Relative Response Factor.
RT	Retention Time.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

Qualifier Description

GLOSSARY OF TERMS

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
BHATE Environmental - Birmingham

1608 13th Ave. S

Suite 300

Billing Information:
Attn. - Accounts Payable
1608 13th Ave. South, Ste. 300
Birmingham, AL 35205

Report To:
David Badio

Email To:
dbadio@bhate.com

Project Description: **Griffiss AFB**

City/State Collected: Rome, NY

Please Circle: PT MT CT ET

Phone: **205-918-4000**

Client Project #

Lab Project #
BHATEBAL-GRIFFISS

Collected by (print):

Site/Facility ID #
BUILDING 774/776 SITE

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Three Day
___ Next Day ___ Five Day
___ Two Day

Date Results Needed

Analysis: DODTO-15 Summa; DODTO-15SIM Summa

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE
MT JULIET, TN
12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1570570
A204

Acctnum: **BHATEBAL**
Template: **T221347**
Prelogin: **P969259**
PM: 873 - Heather J Wagner
PB: 12/16/21

Shipped Via: **FedEX Ground**

Sample ID	Can #	Flow Cont. #	Collection Date	Collection Time	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	DODTO-15 Summa	DODTO-15SIM Summa			Rem./Contaminant	Sample # (lab only)
774776-INF_1222	021072	007840	12/21	1030	30	0	X					-01
774-VMP-1_1222	009851	010077	12/20-12/21	810/815	30	0	X					-02
774-VMP-2_1222	021535	007408	" "	820/822	32	1	X					-03
774-VMP-3_1222	009115	006384	" "	842/830	32	1	X					-04
776-VMP-1_1222	012273	021517	12/21-12/22	0955/0900	29	0	X					-05
776-VMP-2_1222	007634	006466	" "	840/845	30	0	X					-06
776-VMP-2_1222-A	007166	006345	" "	" "	30	0	X					-07
776-VMP-3_1222	011983	011314	" "	850/850	29.5	0	X					-08
776-OA-1_1222	009264	021490	" "	1015/835	30	0	X					-09
774-IA-1_1222	021573	006363	12/20-12/21	830/820	30	0		X				-10

Remarks:
TO-15=benzene, TCE, PCE, 1,1 DCE, cis-1,2-DCE, 1,1,1-TCA, MC, VC, carbon tetrachloride

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Tracking #	Hold #
[signature]	12/22/2022	1100	FedEx	Date: 12/22/22 Time: 1100	Condition: (lab use only)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Date: Time:	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	NCF:

Samples returned via: __ UPS __ FedEx __ Courier _____

COC Seal Intact: ___Y ___N ___NA

Company Name/Address:
BHATE Environmental - Birmingham

1608 13th Ave. S

Suite 300

Billing Information:
Attn. - Accounts Payable
1608 13th Ave. South, Ste. 300
Birmingham, AL 35205

Report To:
David Badio

Email To:
dbadio@bhate.com

Project Description: **Griffiss AFB**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **205-918-4000**

Client Project #

Lab Project #
BHATEBAL-GRIFFISS

Collected by (print):

Site/Facility ID #
BUILDING 774/776 SITE

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Three Day
___ Next Day ___ Five Day
___ Two Day

Date Results Needed

Sample ID	Can #	Flow Cont. #	Collection Date	Collection Time	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	DODTO-15 Summa	DODTO-15SIM Summa			Rem./Contaminant	Sample # (lab only)
776-IA-1_1222	007311	021490	12/21-12/22	1002/0907	32	0		X				-11

Sample Receipt Checklist

COC Seal Present/Intact:	Y N	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres.Correct/Check:	Y N
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RAD Screen <0.5 mR/hr:	Y N		

Analysis

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE
MT JULIET, TN
12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1570570

Table #

Acctnum: **BHATEBAL**
Template: **T221347**
Prelogin: **P969259**
PM: 873 - Heather J Wagner
PB: 08-12/16

Shipped Via: **FedEX Ground**

Remarks:
TO-15=benzene, TCE, PCE, 1,1 DCE, cis-1,2-DCE, 1,1,1-TCA, MC, VC, carbon tetrachloride

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/24/22	Time: 1105

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

NCF:

ANALYTICAL REPORT

February 27, 2023

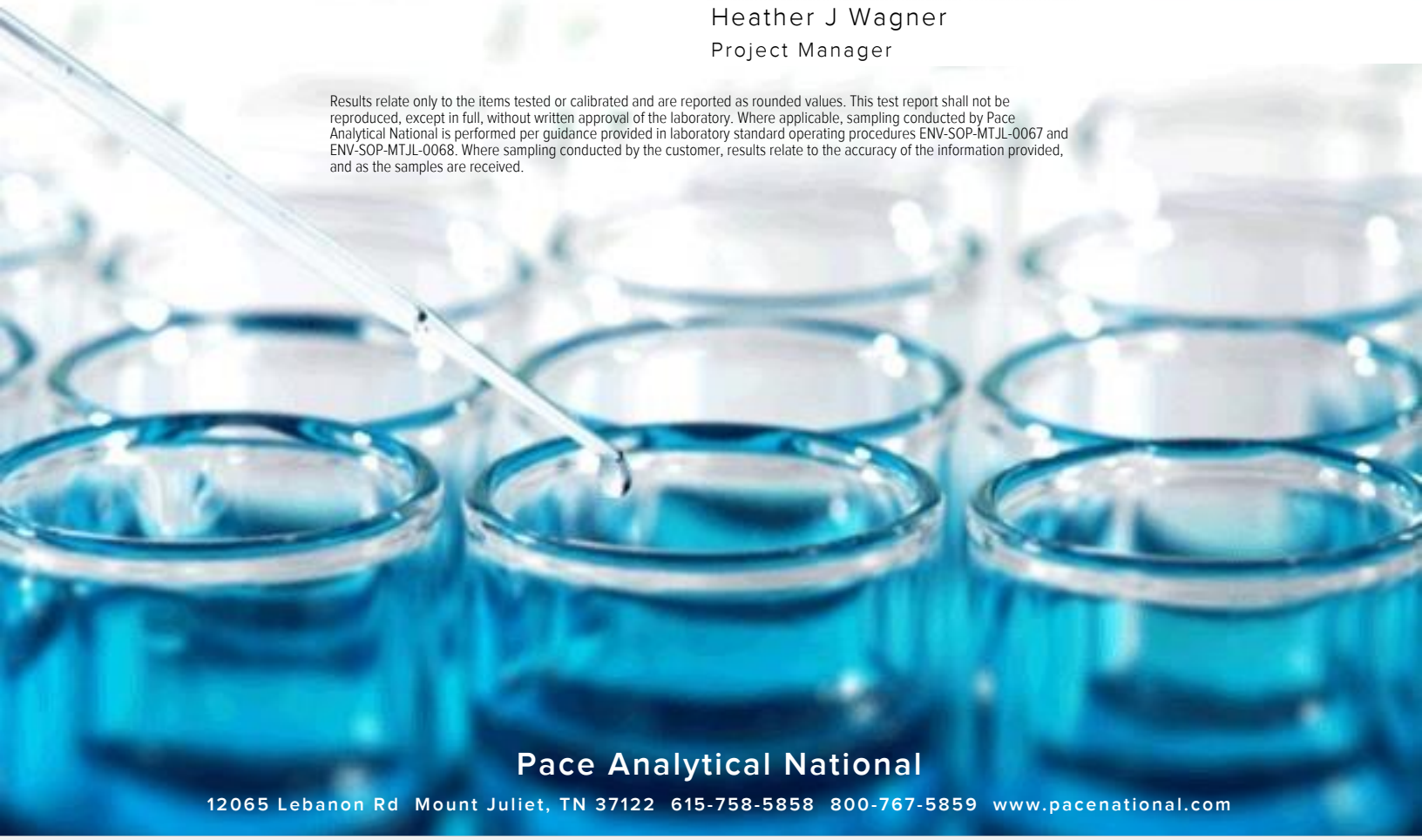
BHATE Environmental - Birmingham

Sample Delivery Group:	L1570581
Samples Received:	12/24/2022
Project Number:	MSC2021.0012
Description:	Griffiss AFB
Site:	BUILDING 785/786 SITE
Report To:	David Badio
	1608 13th Ave. S
	Suite 300
	Birmingham, AL 35205

Entire Report Reviewed By:

Heather J Wagner
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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1222A_13 **456**

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AIRMS7 - 122222A **461**

AIRMS7 12/29/22 09:38 463

AIRMS7 - 122922 **464**

AIRMS7 12/30/22 01:58 466

AIRMS7 - 122922 **467**

Analytical Sequence **484**

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Detection Limit Summary **485**

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LCS(R3876557-1) WG1980882 12/29/22 10:24 AIRMS7 489

Raw Data - 1229_03 **490**

LCSD(R3876557-2) WG1980882 12/29/22 11:10 AIRMS7 492

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Al: Accreditations & Locations **498**

Sc: Sample Chain of Custody **499**

785786-INF_1222 L1570581-01 Air

Collected by	Collected date/time	Received date/time
	12/21/22 15:05	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 20:13	12/29/22 20:13	DAH	Mt. Juliet, TN

785-VMP-2_1222 L1570581-02 Air

Collected by	Collected date/time	Received date/time
	12/21/22 15:45	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 20:56	12/29/22 20:56	DAH	Mt. Juliet, TN

785-VMP-2_1222-A L1570581-03 Air

Collected by	Collected date/time	Received date/time
	12/21/22 15:45	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 21:38	12/29/22 21:38	DAH	Mt. Juliet, TN

785-VMP-4_1222 L1570581-04 Air

Collected by	Collected date/time	Received date/time
	12/21/22 15:35	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 22:21	12/29/22 22:21	DAH	Mt. Juliet, TN

785-VMP-5_1222 L1570581-05 Air

Collected by	Collected date/time	Received date/time
	12/21/22 16:00	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 23:03	12/29/22 23:03	DAH	Mt. Juliet, TN

786-VMP-1_1222 L1570581-06 Air

Collected by	Collected date/time	Received date/time
	12/21/22 16:15	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/29/22 23:46	12/29/22 23:46	DAH	Mt. Juliet, TN

786-VMP-2_1222 L1570581-07 Air

Collected by	Collected date/time	Received date/time
	12/21/22 16:20	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/30/22 00:30	12/30/22 00:30	DAH	Mt. Juliet, TN

786-VMP-3_1222 L1570581-08 Air

Collected by	Collected date/time	Received date/time
	12/21/22 16:25	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/30/22 01:14	12/30/22 01:14	DAH	Mt. Juliet, TN

785-OA-1_1222 L1570581-09 Air

Collected by	Collected date/time	Received date/time
	12/21/22 14:55	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1980894	1	12/30/22 01:56	12/30/22 01:56	DAH	Mt. Juliet, TN

785-IA-1_1222 L1570581-10 Air

Collected by	Collected date/time	Received date/time
	12/21/22 15:30	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15-SIM	WG1980882	1	12/29/22 19:15	12/29/22 19:15	MBF	Mt. Juliet, TN

786-IA-1_1222 L1570581-11 Air

Collected by	Collected date/time	Received date/time
	12/21/22 16:10	12/24/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15-SIM	WG1980882	1	12/29/22 19:54	12/29/22 19:54	MBF	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Heather J Wagner
Project Manager

Report Revision History

Level II Report - Version 1: 02/06/23 09:21

TO-15 Volatile Organic Compounds (MS)

2A-OR

SURROGATE RECOVERY

Analytical Method: TO-15 **SDG:** L1570581

Matrix: Air

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1	TOT Out
				% Rec.	
785786-INF_1222	L1570581-01	AIRMS4	1229_14	82.4	0
785-VMP-2_1222	L1570581-02	AIRMS4	1229_15	87.8	0
785-VMP-2_1222-A	L1570581-03	AIRMS4	1229_16	88.0	0
785-VMP-4_1222	L1570581-04	AIRMS4	1229_17	83.3	0
785-VMP-5_1222	L1570581-05	AIRMS4	1229_18	83.5	0
786-VMP-1_1222	L1570581-06	AIRMS4	1229_19	82.5	0
786-VMP-2_1222	L1570581-07	AIRMS4	1229_20	86.4	0
786-VMP-3_1222	L1570581-08	AIRMS4	1229_21	84.7	0
785-OA-1_1222	L1570581-09	AIRMS4	1229_22	86.3	0
BLANK	R3876561-3	AIRMS4	1229_04	86.5	0
LCS	R3876561-1	AIRMS4	1229_02	89.7	0
LCSD	R3876561-2	AIRMS4	1229_03	88.4	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	1,4-Bromofluorobenzene	60.0 - 140

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1570581-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R3876561-1
R3876561-2

LCS Sample / File ID:	R3876561-1 / 1229_02	**SDG:**	L1570581
LCSD Sample / File ID:	R3876561-2 / 1229_03	**Analytical Batch:**	WG1980894
Instrument ID:	AIRMS4	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ppbv	*ppbv*	*ppbv*	*%*	*%*	*%*	*%*	*%*
Acetone	3.75	3.11	3.06	82.9	81.6	58.0 - 128	1.62	20
Benzene	3.75	3.82	3.69	102	98.4	69.0 - 119	3.46	20
Benzyl Chloride	3.75	3.85	3.80	103	101	50.0 - 147	1.31	20
Bromodichloromethane	3.75	3.78	3.74	101	99.7	72.0 - 128	1.06	20
Bromoform	3.75	4.23	4.18	113	111	66.0 - 139	1.19	20
Bromomethane	3.75	3.73	3.81	99.5	102	63.0 - 134	2.12	20
1,3-Butadiene	3.75	3.13	3.08	83.5	82.1	66.0 - 134	1.61	20
Carbon disulfide	3.75	3.41	3.33	90.9	88.8	57.0 - 134	2.37	20
Carbon tetrachloride	3.75	3.68	3.61	98.1	96.3	68.0 - 132	1.92	20
Chlorobenzene	3.75	4.08	3.89	109	104	70.0 - 119	4.77	20
Chloroethane	3.75	3.29	3.22	87.7	85.9	63.0 - 127	2.15	20
Chloroform	3.75	3.57	3.45	95.2	92.0	68.0 - 123	3.42	20
Chloromethane	3.75	3.39	3.22	90.4	85.9	59.0 - 132	5.14	20
Dibromochloromethane	3.75	4.16	3.98	111	106	70.0 - 130	4.42	20
1,2-Dibromoethane	3.75	3.97	3.88	106	103	74.0 - 122	2.29	20
1,2-Dichlorobenzene	3.75	4.38	4.25	117	113	63.0 - 129	3.01	20
1,3-Dichlorobenzene	3.75	4.41	4.29	118	114	65.0 - 130	2.76	20
1,4-Dichlorobenzene	3.75	4.52	4.45	121	119	60.0 - 131	1.56	20
1,2-Dichloroethane	3.75	3.74	3.58	99.7	95.5	65.0 - 128	4.37	20
1,1-Dichloroethane	3.75	3.46	3.41	92.3	90.9	68.0 - 126	1.46	20
1,1-Dichloroethene	3.75	3.49	3.37	93.1	89.9	61.0 - 133	3.50	20
cis-1,2-Dichloroethene	3.75	3.39	3.39	90.4	90.4	70.0 - 121	0.000	20
trans-1,2-Dichloroethene	3.75	3.39	3.32	90.4	88.5	67.0 - 124	2.09	20
1,2-Dichloropropane	3.75	3.66	3.53	97.6	94.1	69.0 - 123	3.62	20
cis-1,3-Dichloropropene	3.75	3.69	3.57	98.4	95.2	70.0 - 128	3.31	20
trans-1,3-Dichloropropene	3.75	3.75	3.53	100	94.1	75.0 - 133	6.04	20
Ethylbenzene	3.75	3.87	3.84	103	102	70.0 - 124	0.778	20
4-Ethyltoluene	3.75	3.93	3.74	105	99.7	67.0 - 129	4.95	20
Trichlorofluoromethane	3.75	4.05	4.01	108	107	62.0 - 126	0.993	20
Dichlorodifluoromethane	3.75	3.64	3.56	97.1	94.9	59.0 - 128	2.22	20
1,1,2-Trichlorotrifluoroethane	3.75	3.75	3.76	100	100	66.0 - 126	0.266	20
Hexachloro-1,3-butadiene	3.75	4.48	4.36	119	116	56.0 - 138	2.71	20
Methylene Chloride	3.75	3.35	3.24	89.3	86.4	62.0 - 115	3.34	20
Methyl Butyl Ketone	3.75	4.13	3.90	110	104	62.0 - 128	5.73	20
2-Butanone (MEK)	3.75	3.56	3.42	94.9	91.2	67.0 - 130	4.01	20
4-Methyl-2-pentanone (MIBK)	3.75	3.92	3.78	105	101	67.0 - 130	3.64	20
MTBE	3.75	3.50	3.40	93.3	90.7	66.0 - 126	2.90	20
Naphthalene	3.75	3.83	3.71	102	98.9	57.0 - 138	3.18	20
Styrene	3.75	3.98	3.85	106	103	73.0 - 127	3.32	20
1,1,2,2-Tetrachloroethane	3.75	3.80	3.75	101	100	65.0 - 127	1.32	20
Tetrachloroethylene	3.75	4.30	4.13	115	110	66.0 - 124	4.03	20
Toluene	3.75	3.82	3.62	102	96.5	66.0 - 119	5.38	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1570581-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R3876561-1
R3876561-2

LCS Sample / File ID:	R3876561-1 / 1229_02	**SDG:**	L1570581
LCSD Sample / File ID:	R3876561-2 / 1229_03	**Analytical Batch:**	WG1980894
Instrument ID:	AIRMS4	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ppbv	*ppbv*	*ppbv*	*%*	*%*	*%*	*%*	*%*
1,2,4-Trichlorobenzene	3.75	4.49	4.25	120	113	55.0 - 142	5.49	20
1,1,1-Trichloroethane	3.75	3.55	3.55	94.7	94.7	68.0 - 125	0.000	20
1,1,2-Trichloroethane	3.75	3.89	3.75	104	100	73.0 - 119	3.66	20
Trichloroethylene	3.75	3.83	3.72	102	99.2	71.0 - 123	2.91	20
1,2,4-Trimethylbenzene	3.75	3.80	3.76	101	100	66.0 - 132	1.06	20
1,3,5-Trimethylbenzene	3.75	3.92	3.78	105	101	67.0 - 130	3.64	20
Vinyl chloride	3.75	3.49	3.46	93.1	92.3	64.0 - 127	0.863	20
Vinyl acetate	3.75	3.02	3.15	80.5	84.0	56.0 - 139	4.21	20
m&p-Xylene	7.50	7.82	7.51	104	100	61.0 - 134	4.04	20
o-Xylene	3.75	3.71	3.60	98.9	96.0	67.0 - 125	3.01	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Lab Sample ID:	R3876561-3	**SDG:**	L1570581
Lab File ID:	1229_04	**Preparation Date/Time:**	12/29/22 12:46
Instrument ID:	AIRMS4	**Analysis Date/Time:**	12/29/22 12:46
Analytical Batch:	WG1980894	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3876561-1	AIRMS4	1229_02	12/29/22 11:19
LCSD	R3876561-2	AIRMS4	1229_03	12/29/22 12:04
785786-INF_1222	L1570581-01	AIRMS4	1229_14	12/29/22 20:13
785-VMP-2_1222	L1570581-02	AIRMS4	1229_15	12/29/22 20:56
785-VMP-2_1222-A	L1570581-03	AIRMS4	1229_16	12/29/22 21:38
785-VMP-4_1222	L1570581-04	AIRMS4	1229_17	12/29/22 22:21
785-VMP-5_1222	L1570581-05	AIRMS4	1229_18	12/29/22 23:03
786-VMP-1_1222	L1570581-06	AIRMS4	1229_19	12/29/22 23:46
786-VMP-2_1222	L1570581-07	AIRMS4	1229_20	12/30/22 00:30
786-VMP-3_1222	L1570581-08	AIRMS4	1229_21	12/30/22 01:14
785-OA-1_1222	L1570581-09	AIRMS4	1229_22	12/30/22 01:56

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	1130_02	**SDG:**	L1570581
Instrument ID:	AIRMS4	**Analytical Method:**	TO-15
Analysis Date/Time:	11/30/22 15:19		

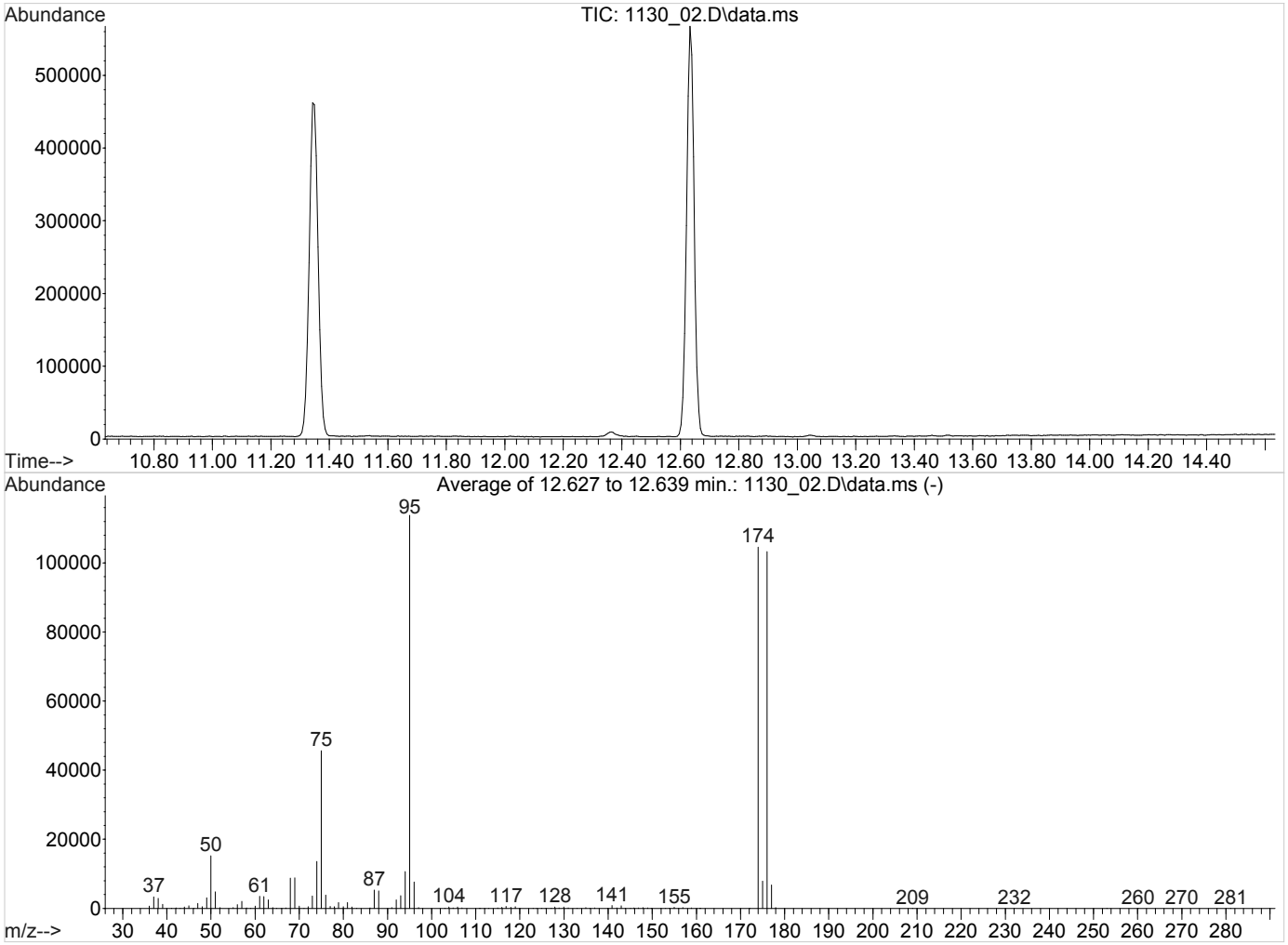
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	13
75	95	30	66	40
95	95	100	100	100
96	95	5	9	7
173	174	0	2	0
174	95	50	120	92
175	174	4	9	8
176	174	93	101	99
177	176	5	9	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-0.19	0.19	1130_07	11/30/22 18:49
STD-0.31	0.31	1130_08	11/30/22 19:29
STD-0.63	0.63	1130_09	11/30/22 20:09
STD-1.25	1.25	1130_10	11/30/22 20:50
STD-2.5	2.5	1130_11	11/30/22 21:31
STD-3.75	3.75	1130_12	11/30/22 22:14
STD-10	10	1130_13	11/30/22 22:55
STD-25	25	1130_14	11/30/22 23:36
STD-50	50	1130_15	12/01/22 00:21
STD-100	100	1130_16	12/01/22 01:11
SSCV	AIRMS41130221130_18606182	1130_18	12/01/22 02:34

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_02.D
Acq On : 30 Nov 2022 3:19 pm
Operator :
Sample : INSTBLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Title : AIRMS4
Last Update : Thu Dec 01 08:21:50 2022



Spectrum Information: Average of 12.627 to 12.639 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.3	15176	PASS
75	95	30	66	40.1	45595	PASS
95	95	100	100	100.0	113819	PASS
96	95	5	9	6.7	7611	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.9	104565	PASS
175	174	4	9	7.5	7879	PASS
176	174	93	101	98.8	103277	PASS
177	176	5	9	6.5	6755	PASS

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	1229_01T	**SDG:**	L1570581
Instrument ID:	AIRMS4	**Analytical Method:**	TO-15
Analysis Date/Time:	12/29/22 10:36		

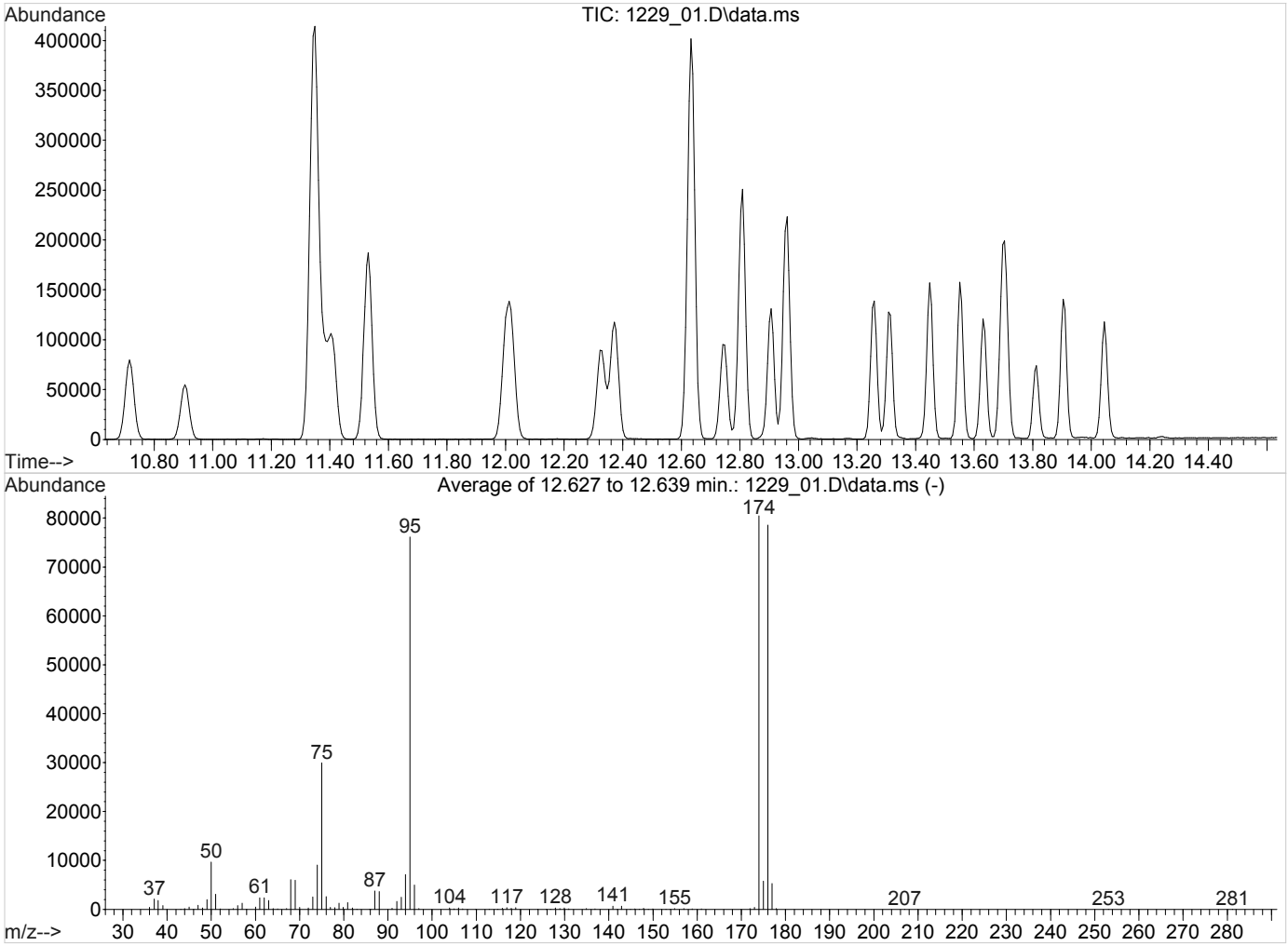
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	13
75	95	30	66	39
95	95	100	100	100
96	95	5	9	6
173	174	0	2	0
174	95	50	120	106
175	174	4	9	7
176	174	93	101	98
177	176	5	9	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	AIRMS41229221229_01606182	1229_01	12/29/22 10:36
LCS	R3876561-1	1229_02	12/29/22 11:19
LCSD	R3876561-2	1229_03	12/29/22 12:04
BLANK	R3876561-3	1229_04	12/29/22 12:46
785786-INF_1222	L1570581-01	1229_14	12/29/22 20:13
785-VMP-2_1222	L1570581-02	1229_15	12/29/22 20:56
785-VMP-2_1222-A	L1570581-03	1229_16	12/29/22 21:38
785-VMP-4_1222	L1570581-04	1229_17	12/29/22 22:21
785-VMP-5_1222	L1570581-05	1229_18	12/29/22 23:03
786-VMP-1_1222	L1570581-06	1229_19	12/29/22 23:46
786-VMP-2_1222	L1570581-07	1229_20	12/30/22 00:30
786-VMP-3_1222	L1570581-08	1229_21	12/30/22 01:14
785-OA-1_1222	L1570581-09	1229_22	12/30/22 01:56
CCV	AIRMS41229221229_24606182	1229_24	12/30/22 03:22

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Title : AIRMS4
Last Update : Thu Dec 01 08:21:50 2022



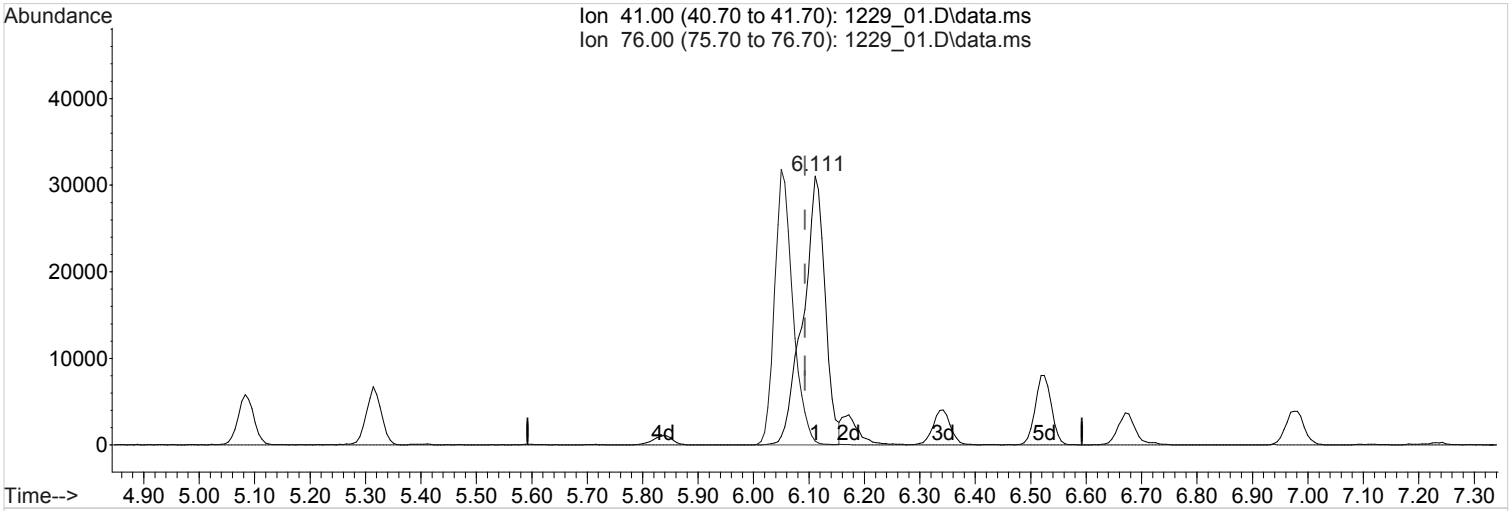
Spectrum Information: Average of 12.627 to 12.639 min.

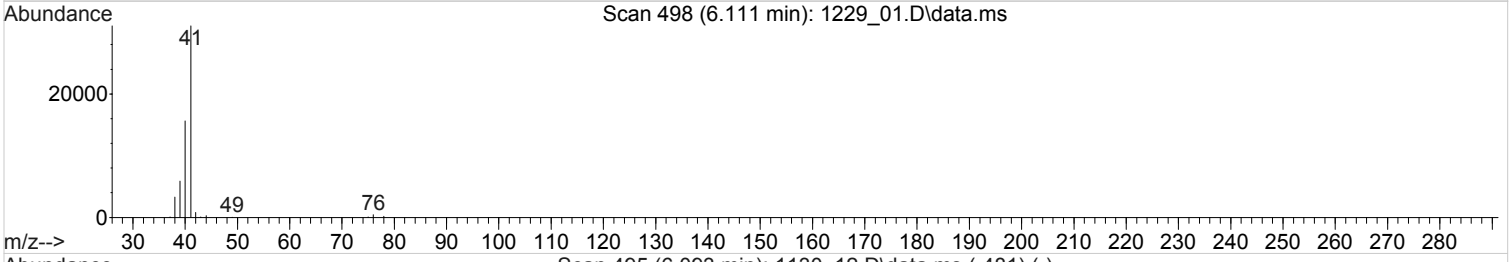
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.7	9661	PASS
75	95	30	66	39.3	29920	PASS
95	95	100	100	100.0	76144	PASS
96	95	5	9	6.5	4983	PASS
173	174	0.00	2	0.5	399	PASS
174	95	50	120	105.7	80480	PASS
175	174	4	9	7.2	5767	PASS
176	174	93	101	97.6	78539	PASS
177	176	5	9	6.7	5283	PASS

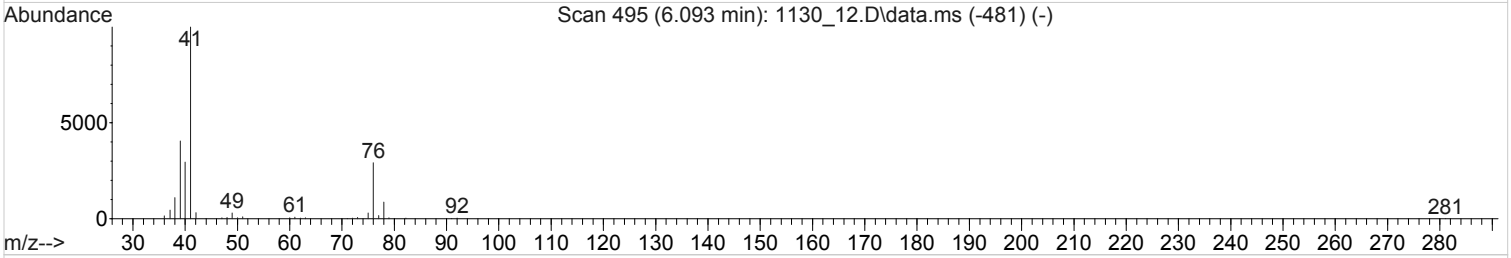
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 11:12:51 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_01.D\data.ms

(25) Allyl Chloride (T,M)

6.111min (+0.018) 13.4781782 ppbv

Qvalue = 1

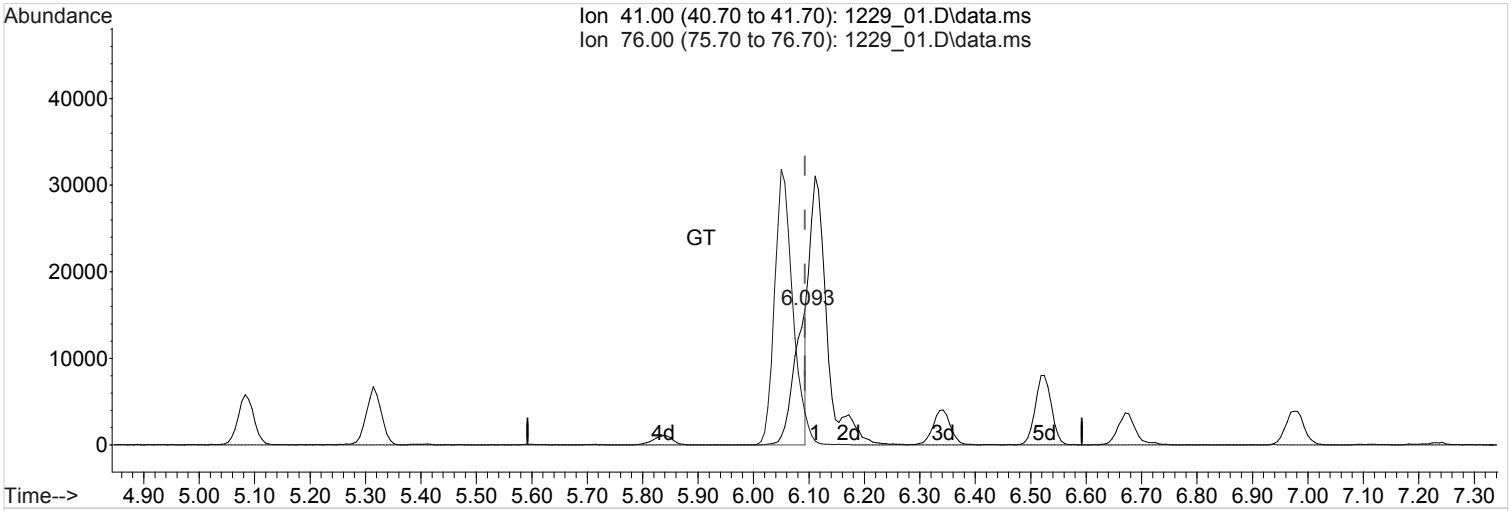
response 85767

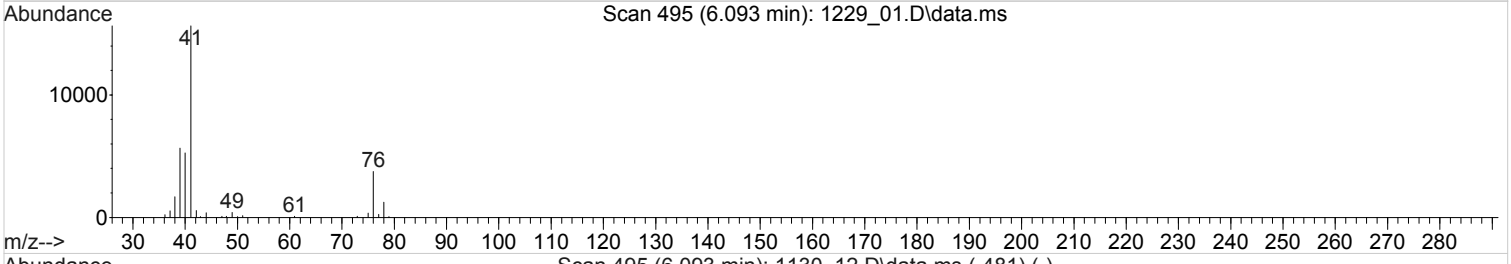
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	84.64#
0.00	0.00	0.00
0.00	0.00	0.00

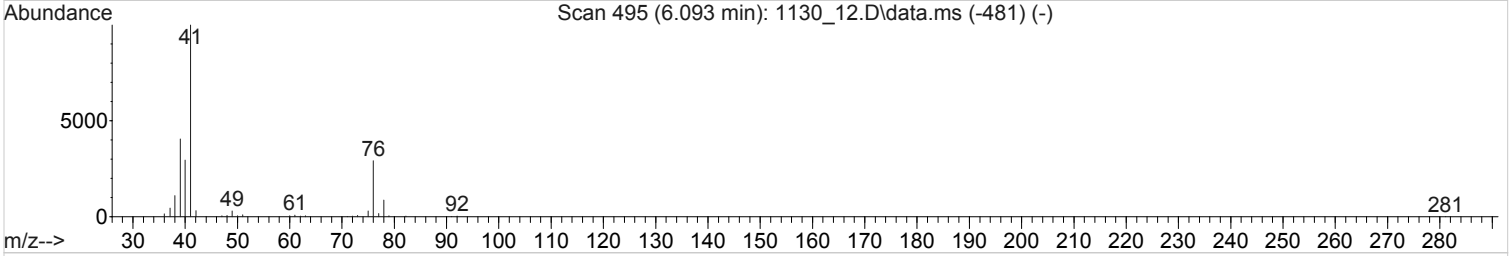
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 11:12:51 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_01.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 3.8360014 ppbv m

response 24410

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	297.37
0.00	0.00	0.00
0.00	0.00	0.00

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1570581	**Analytical Method:**	TO-15
Instrument ID:	AIRMS4	**Calibration Start Date:**	11/30/22 18:49
Std File:	1229_01	**Calibration End Date:**	12/01/22 01:11
		Std Analysis Date:	12/29/22 10:36

Sample ID	File ID	DFB		BCM		CB	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		284231	8.31	79247	7.50	243117	11.34
UPPER LIMIT		522577		136608		466065	
LOWER LIMIT		223962		58546		199742	
LCS R3876561-1 WG1980894 1x	1229_02	272809	8.31	77535	7.50	242736	11.34
LCSD R3876561-2 WG1980894 1x	1229_03	284263	8.31	78775	7.50	249283	11.34
BLANK R3876561-3 WG1980894 1x	1229_04	287423	8.31	80248	7.50	249011	11.34
L1570581-01 WG1980894 1x	1229_14	271771	8.31	75281	7.50	234916	11.34
L1570581-02 WG1980894 1x	1229_15	264207	8.31	75509	7.50	230897	11.34
L1570581-03 WG1980894 1x	1229_16	266174	8.31	73512	7.50	231953	11.34
L1570581-04 WG1980894 1x	1229_17	273070	8.31	75313	7.50	237002	11.34
L1570581-05 WG1980894 1x	1229_18	272316	8.31	76558	7.50	236493	11.34
L1570581-06 WG1980894 1x	1229_19	269382	8.31	75851	7.50	236749	11.34
L1570581-07 WG1980894 1x	1229_20	264840	8.31	73637	7.50	233011	11.34
L1570581-08 WG1980894 1x	1229_21	267287	8.31	74785	7.50	234521	11.34
L1570581-09 WG1980894 1x	1229_22	266531	8.31	74241	7.50	230037	11.34

DFB - 1,4-DIFLUOROBENZENE BCM - BROMOCHLOROMETHANE
CB - CHLOROBENZENE-D5

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
785786-INF_1222

Lab Sample ID:	L1570581-01	**SDG:**	L1570581
Client Sample ID:	785786-INF_1222	**Collected Date/Time:**	12/21/22 15:05
Lab File ID:	1229_14	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 20:13
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 20:13
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.82	5.51	J	1.39	2.85	5.70
Benzene	71-43-2	8.03	0.719	J	0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	7.83	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	1.03	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	0	0.867	U	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	0	0.982	U	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.37	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	2.22	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	1.53	U	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	6.20	0.455	J	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	1.96	J	0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	0	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	0	0.942	U	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570581-01	**SDG:**	L1570581
Client Sample ID:	785786-INF_1222	**Collected Date/Time:**	12/21/22 15:05
Lab File ID:	1229_14	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 20:13
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 20:13
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.59	0.430	J	0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	0	0.982	U	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	1.30	U	0.585	1.30	2.60
o-Xylene	95-47-6	12	0.759	U	0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_14.D
Acq On : 29 Dec 2022 8:13 pm
Operator :
Sample : L1570581-01 1x WG1980894
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 31 07:27:04 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

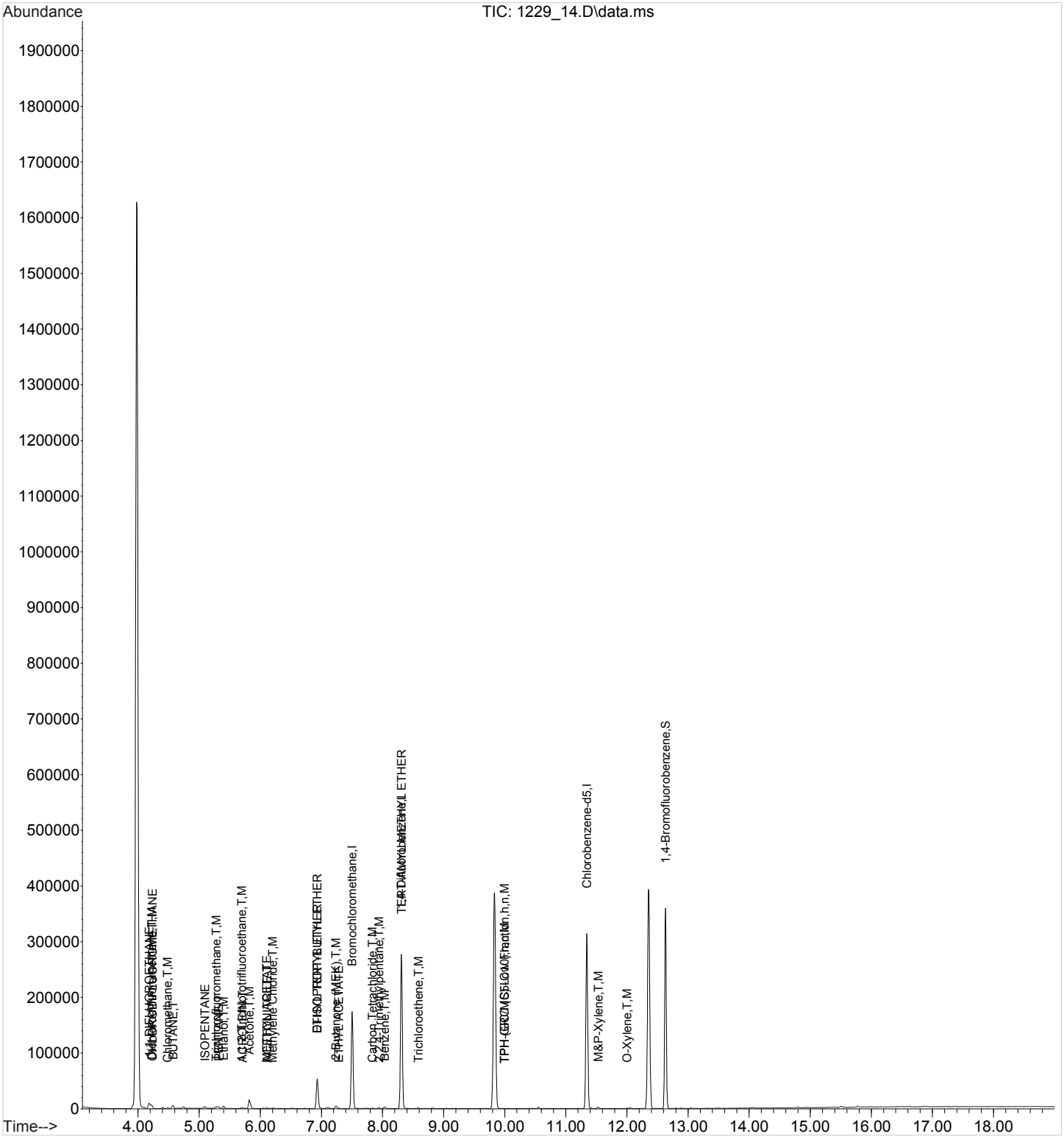
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	75281	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.307	114	271771	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	234916	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	132104	3.2957844	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 82.39%				
Target Compounds							Qvalue
3) BUTANE	4.572	43	4179	0.6049595	ppbv		100
4) 1,1-DIFLUOROETHANE	4.182	51	5615	0.9459240	ppbv		99
5) Dichlorodifluoromethane	4.225	85	5732	0.4487697	ppbv		97
6) CHLORODIFLUOROMETHANE	4.237	51	1484	0.2061318	ppbv		95
8) Chloromethane	4.481	50	2282	0.4969948	ppbv		97
13) ISOPENTANE	5.095	43	1558	0.3265267	ppbv	#	91
15) Trichlorofluoromethane	5.277	101	2594	0.2426079	ppbv		99
16) PENTANE	5.320	43	2197	0.2238527	ppbv	#	96
17) Ethanol	5.399	45	5462	2.2601478	ppbv		100
18) ACROLEIN	5.709	56	294	0.1310542	ppbv		91
19) 1,1,2-Trichlorotrifluo...	5.697	101	850	0.0734808	ppbv		95
21) Acetone	5.819	43	19156	2.3188818	ppbv	#	88
26) METHYL ACETATE	6.105	43	1003	0.1092843	ppbv	#	64
27) ACETONITRILE	6.111	41	620	0.1214516	ppbv	#	76
28) Methylene Chloride	6.202	49	743	0.1304704	ppbv	#	95
36) DI-ISOPROPYL ETHER	6.932	45	9588	0.6167546	ppbv	#	59
37) ETHYL TERT-BUTYL ETHER	6.932	59	1635	0.0992394	ppbv	#	56
38) ETHYL ACETATE	7.285	45	682	0.3978177	ppbv	#	1
39) 2-Butanone (MEK)	7.236	72	1676	0.6635484	ppbv		100
45) Carbon Tetrachloride	7.833	117	819	0.0686290	ppbv		91
46) 2,2,4-Trimethylpentane	7.942	57	1753	0.0694143	ppbv		96
48) Benzene	8.033	78	3452	0.2251610	ppbv		99
49) TERT-AMYL METHYL ETHER	8.313	73	2449	0.1623032	ppbv	#	53
52) Trichloroethene	8.587	95	601	0.0801789	ppbv		93
73) M&P-Xylene	11.531	91	2282	0.1294595	ppbv		95
74) O-Xylene	12.000	91	969	0.0521189	ppbv		90
101) TPH (GC/MS) Low Fraction	10.000	TIC	2237717m	64.0928233	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	2338600m	79.3688678	ppbv		

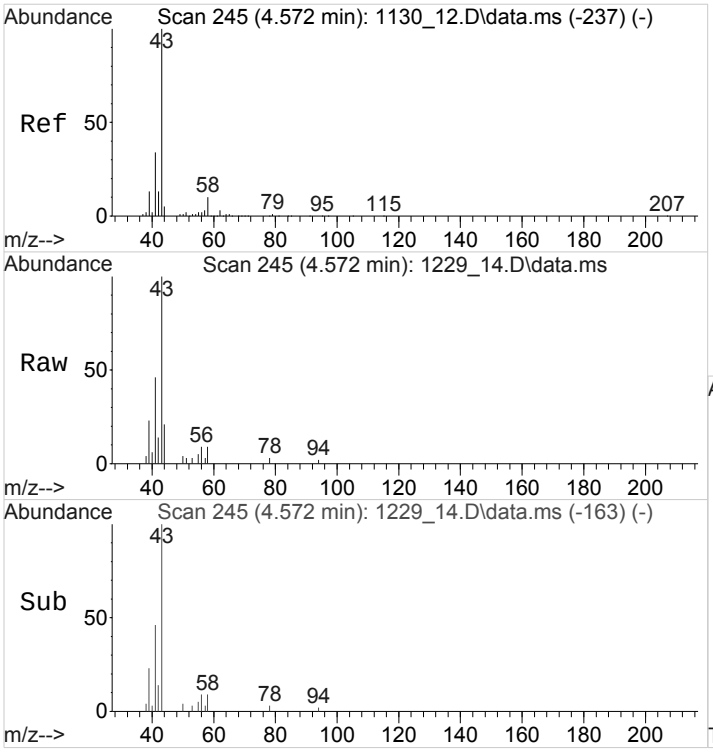
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_14.D
Acq On : 29 Dec 2022 8:13 pm
Operator :
Sample : L1570581-01 1x WG1980894
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 31 07:27:04 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

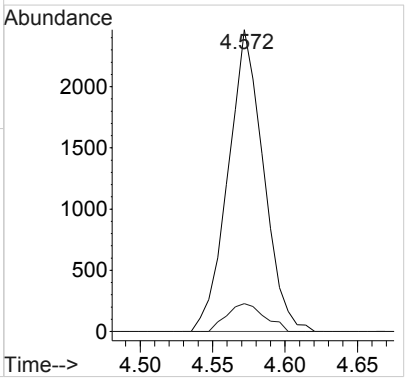


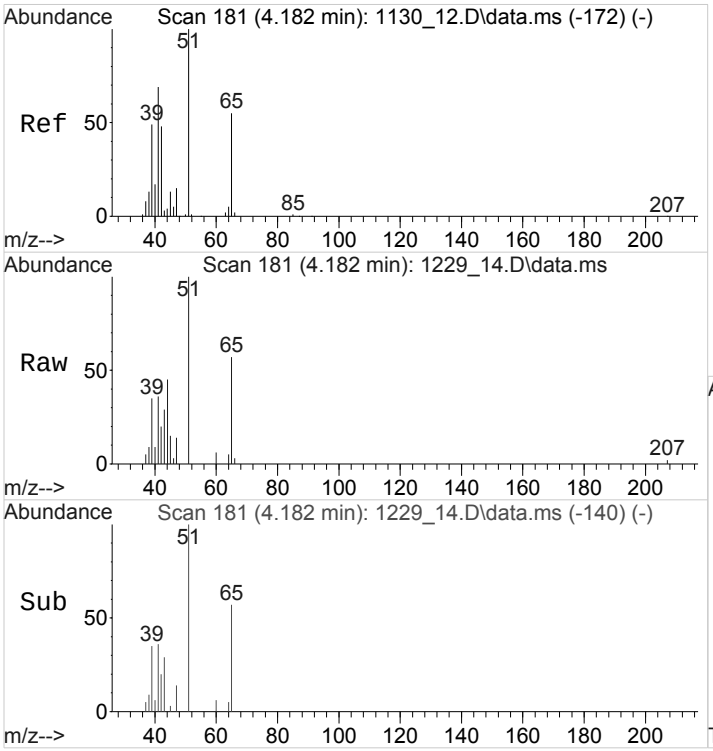


#3
BUTANE
Concen: 0.6049595 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 43 Resp: 4179

Ion	Ratio	Lower	Upper
43	100		
58	9.9	8.0	12.0

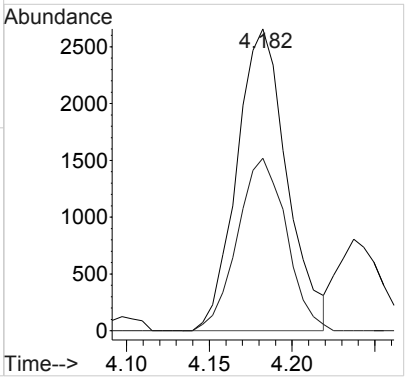




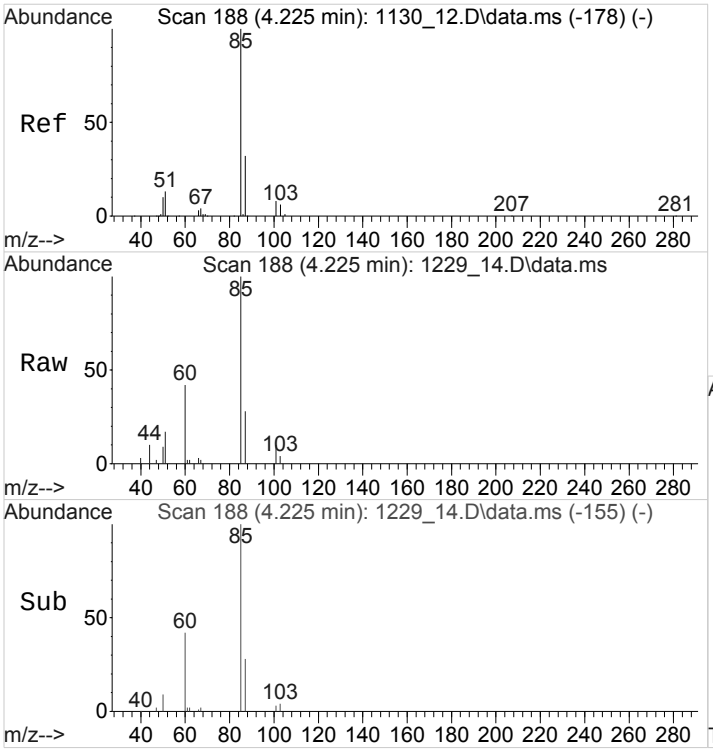
#4
1,1-DIFLUOROETHANE
Concen: 0.9459240 ppbv
RT: 4.182 min Scan# 181
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 51 Resp: 5615

Ion	Ratio	Lower	Upper
51	100		
65	55.7	44.1	66.1



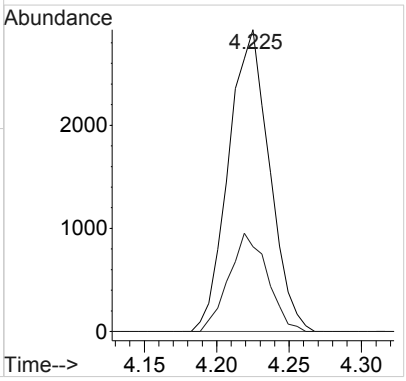
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	25 of 500

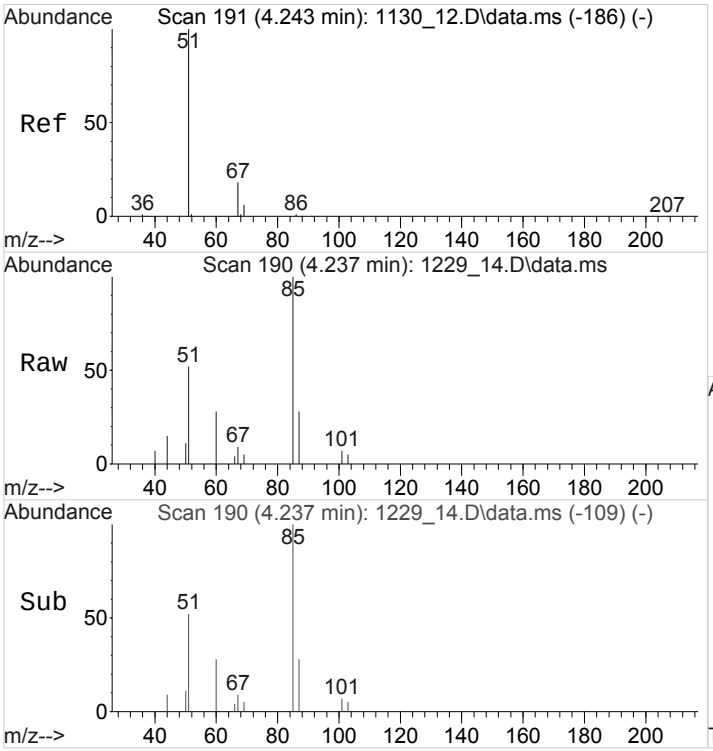


#5
Dichlorodifluoromethane
Concen: 0.4487697 ppbv
RT: 4.225 min Scan# 188
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 85 Resp: 5732

Ion	Ratio	Lower	Upper
85	100		
87	30.8	25.8	38.6

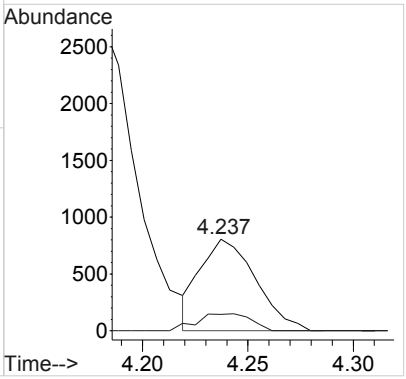




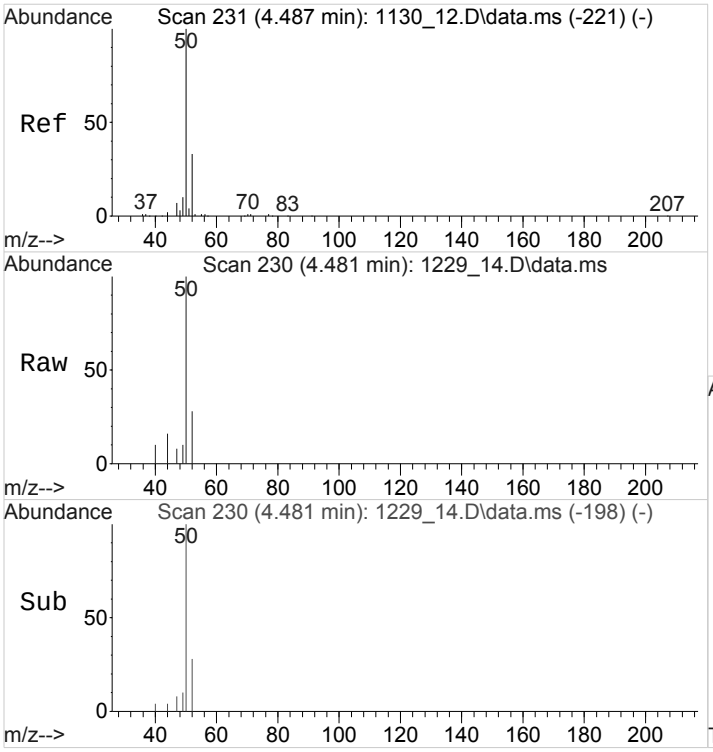
#6
CHLORODIFLUOROMETHANE
Concen: 0.2061318 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 51 Resp: 1484

Ion	Ratio	Lower	Upper
51	100		
67	18.1	13.0	19.4



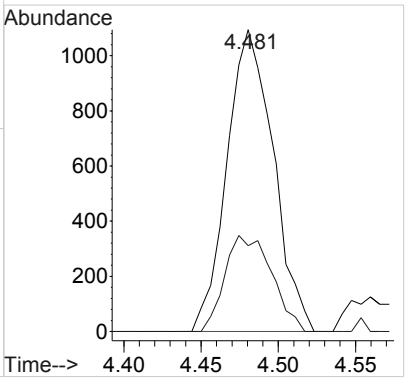
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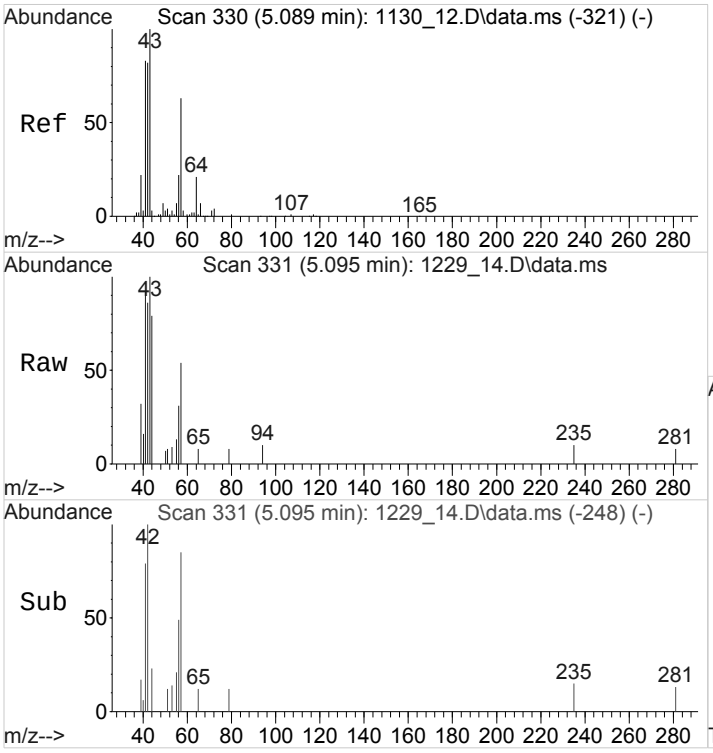


#8
Chloromethane
Concen: 0.4969948 ppbv
RT: 4.481 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 50 Resp: 2282

Ion	Ratio	Lower	Upper
50	100		
52	32.2	27.1	40.7

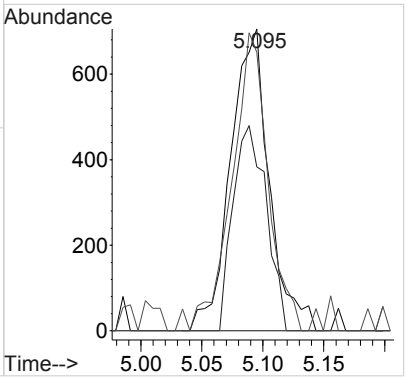




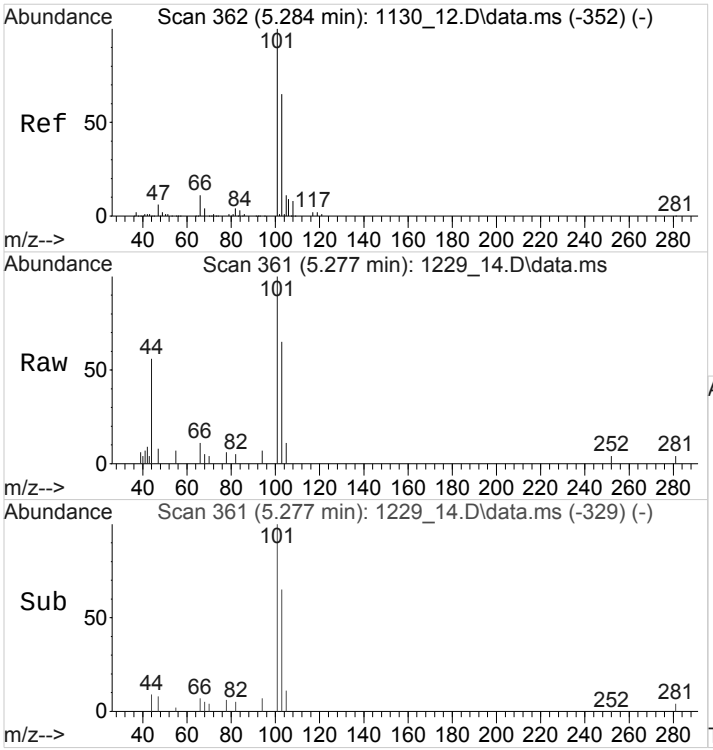
#13
ISOPENTANE
Concen: 0.3265267 ppbv
RT: 5.095 min Scan# 331
Delta R.T. 0.006 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 43 Resp: 1558

Ion	Ratio	Lower	Upper
43	100		
57	58.7	51.7	77.5
41	92.7	66.4	99.6
72	0.0	3.2	4.8#



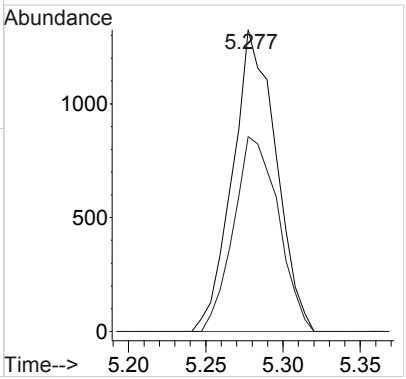
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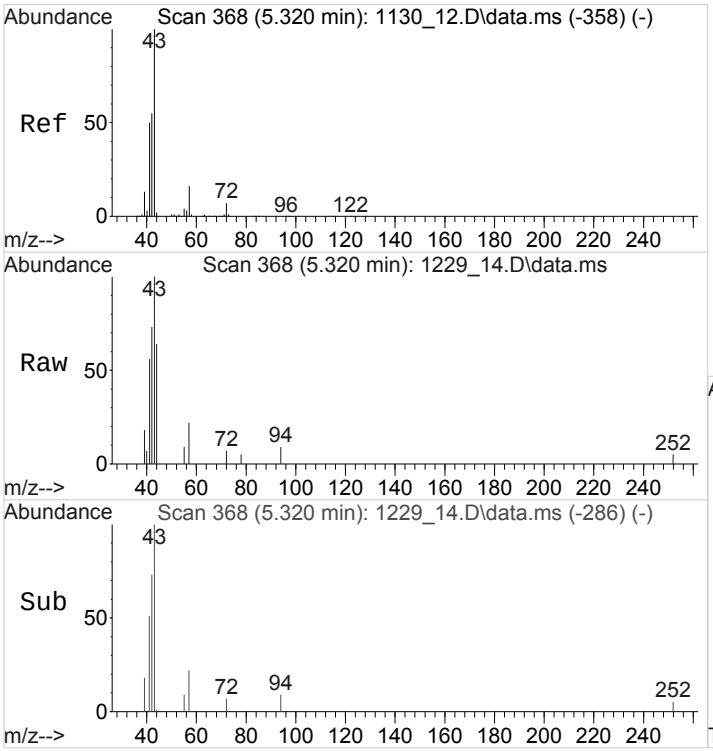


#15
Trichlorofluoromethane
Concen: 0.2426079 ppbv
RT: 5.277 min Scan# 361
Delta R.T. -0.006 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion:101 Resp: 2594

Ion	Ratio	Lower	Upper
101	100		
103	66.6	52.8	79.2

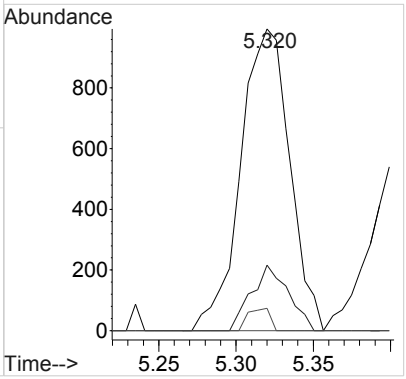




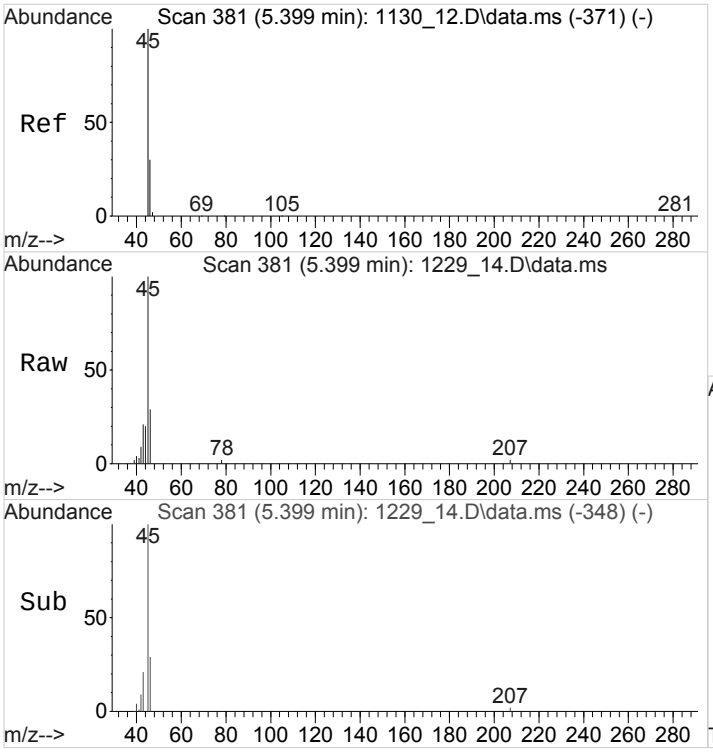
#16
PENTANE
Concen: 0.2238527 ppbv
RT: 5.320 min Scan# 368
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 43 Resp: 2197

Ion	Ratio	Lower	Upper
43	100		
57	16.4	13.0	19.4
72	3.4	5.8	8.8#



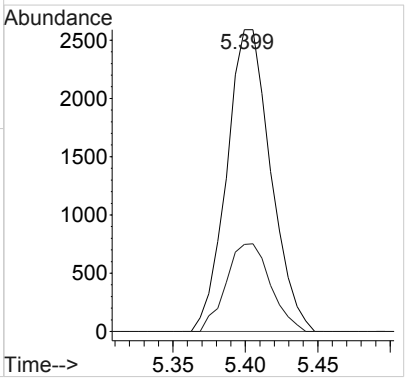
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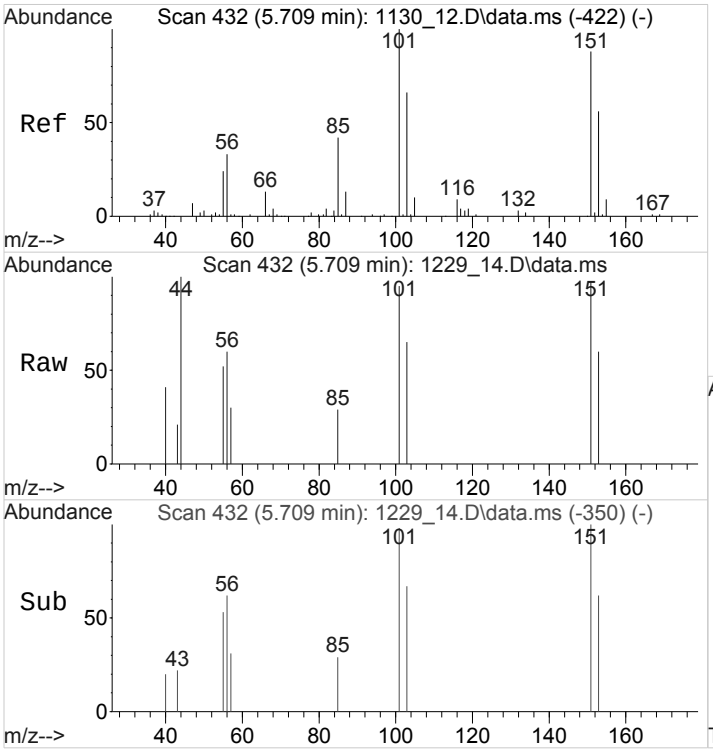


#17
Ethanol
Concen: 2.2601478 ppbv
RT: 5.399 min Scan# 381
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 45 Resp: 5462

Ion	Ratio	Lower	Upper
45	100		
46	29.3	23.6	35.4

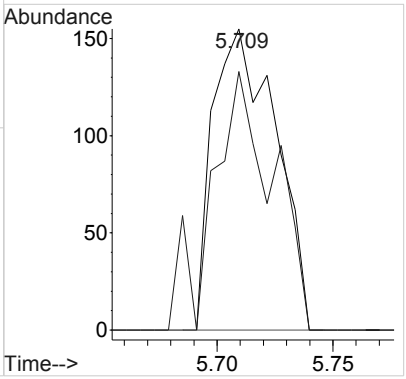




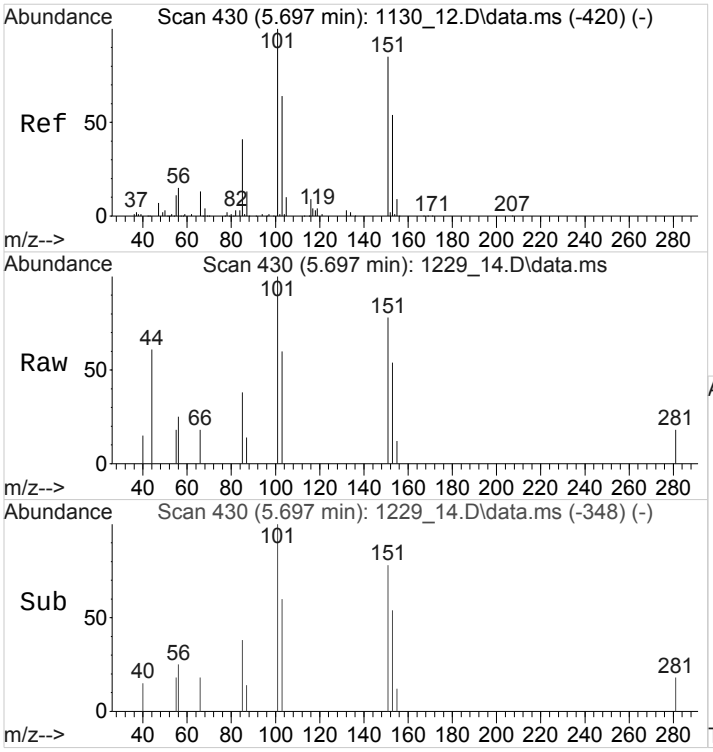
#18
ACROLEIN
Concen: 0.1310542 ppbv
RT: 5.709 min Scan# 432
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 56 Resp: 294

Ion	Ratio	Lower	Upper
56	100		
55	83.3	60.4	90.6



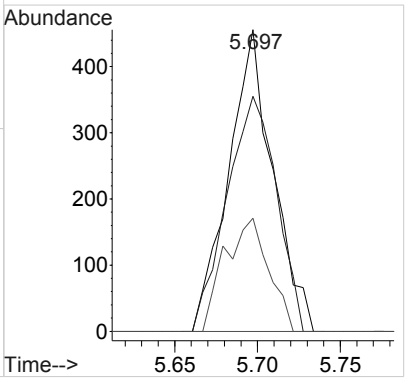
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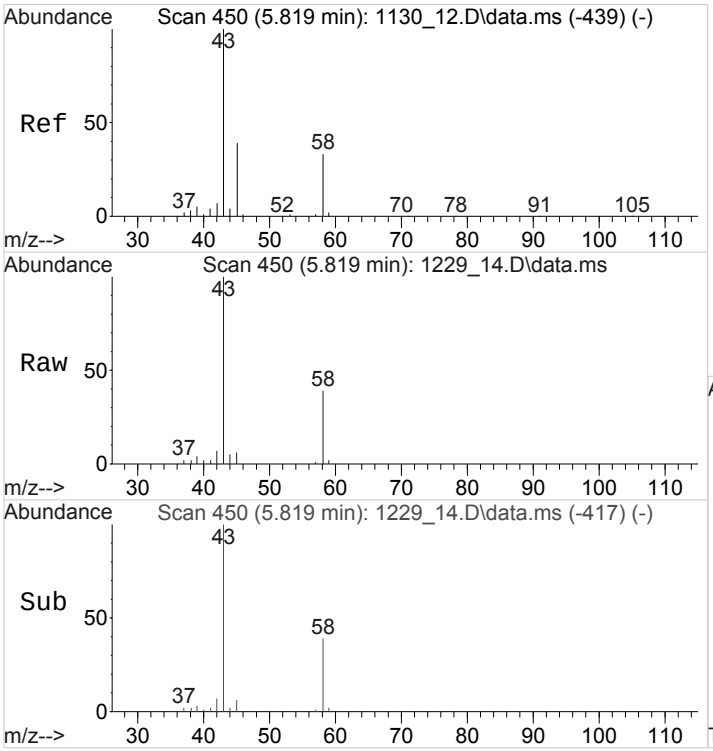


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.0734808 ppbv
RT: 5.697 min Scan# 430
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion:101 Resp: 850

Ion	Ratio	Lower	Upper
101	100		
151	87.3	67.4	101.2
85	37.2	34.4	51.6

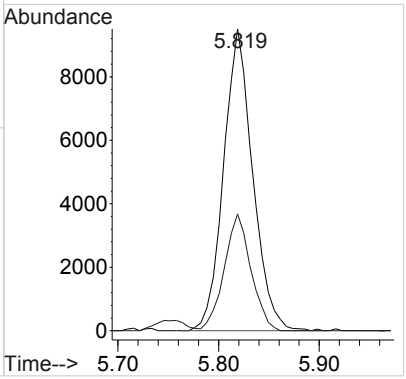




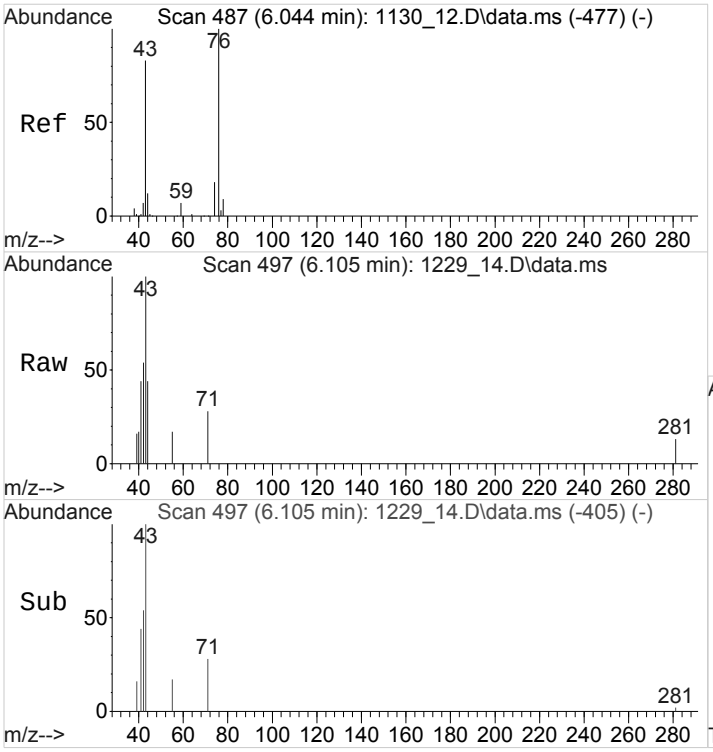
#21
Acetone
Concen: 2.3188818 ppbv
RT: 5.819 min Scan# 450
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 43 Resp: 19156

Ion	Ratio	Lower	Upper
43	100		
58	35.3	23.1	34.7#



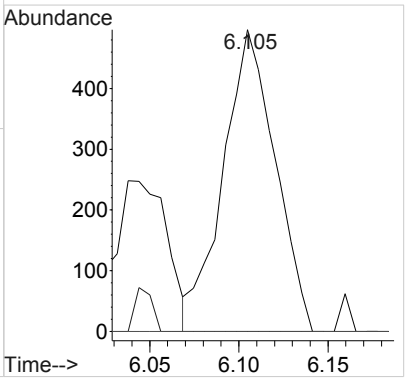
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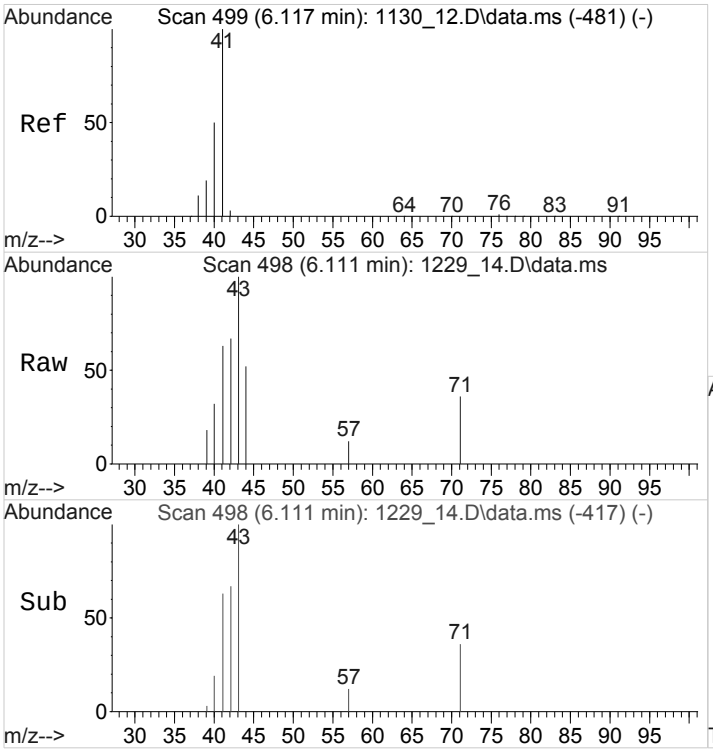


#26
METHYL ACETATE
Concen: 0.1092843 ppbv
RT: 6.105 min Scan# 497
Delta R.T. 0.061 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 43 Resp: 1003

Ion	Ratio	Lower	Upper
43	100		
74	4.8	17.4	26.0#
29	0.0	0.0	0.0

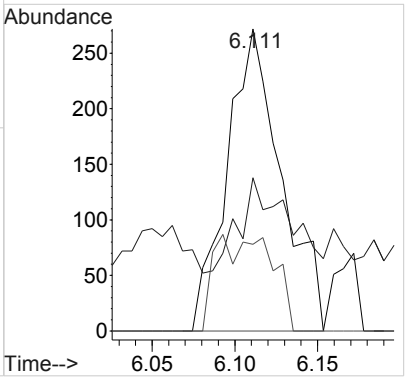


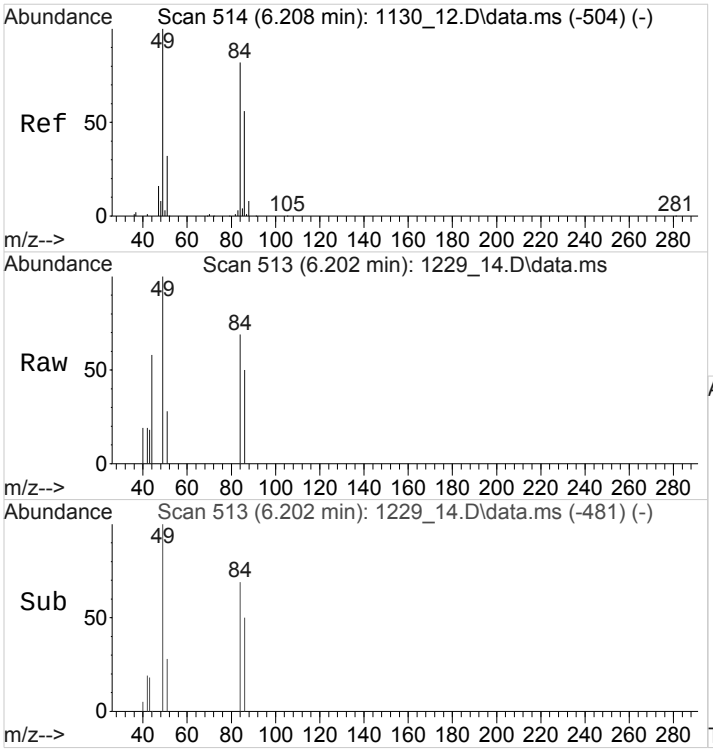


#27
ACETONITRILE
Concen: 0.1214516 ppbv
RT: 6.111 min Scan# 498
Delta R.T. -0.006 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 41 Resp: 620

Ion	Ratio	Lower	Upper
41	100		
40	28.5	32.7	49.1#
39	12.9	22.7	34.1#

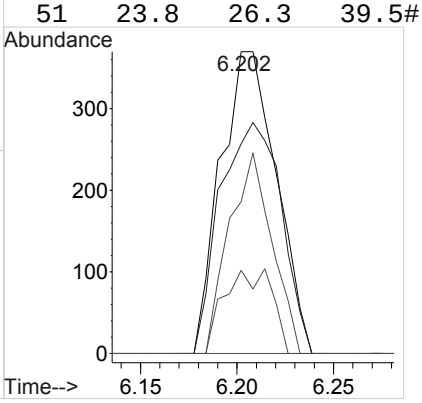


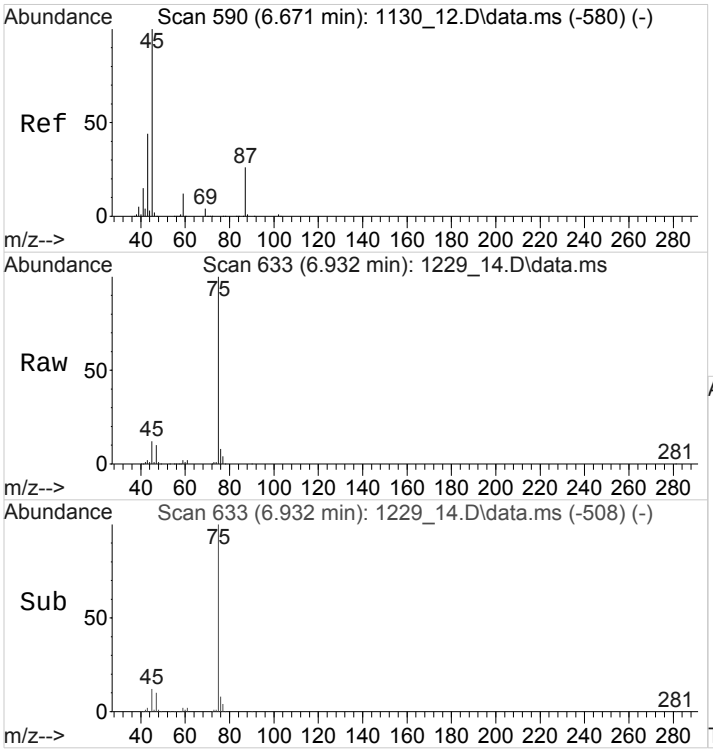


#28
Methylene Chloride
Concen: 0.1304704 ppbv
RT: 6.202 min Scan# 513
Delta R.T. -0.006 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 49 Resp: 743

Ion	Ratio	Lower	Upper
49	100		
84	83.7	65.0	97.6
86	51.1	41.8	62.6
51	23.8	26.3	39.5#

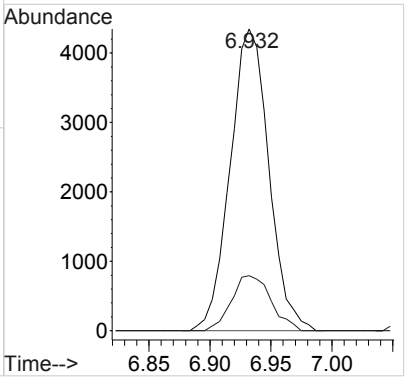


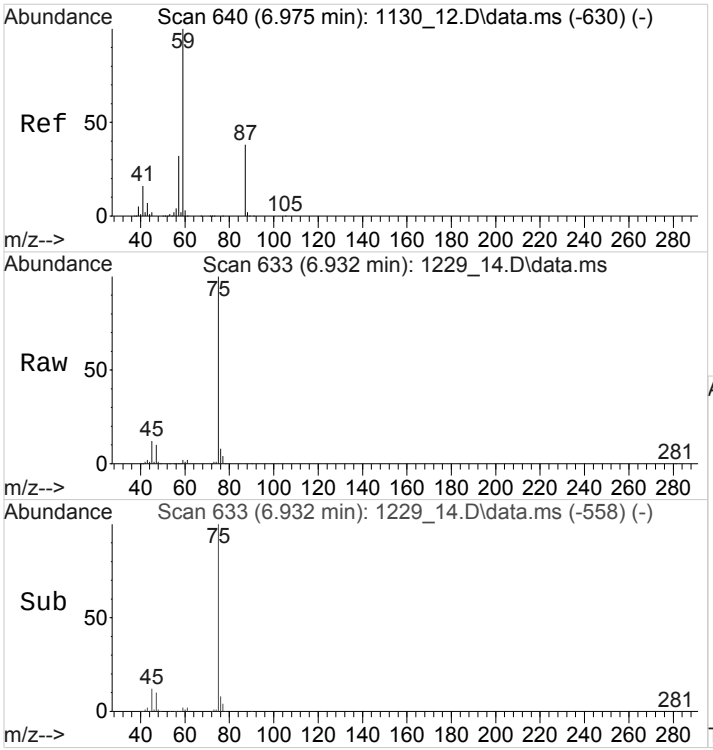


#36
DI-ISOPROPYL ETHER
Concen: 0.6167546 ppbv
RT: 6.932 min Scan# 633
Delta R.T. 0.262 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 45 Resp: 9588

Ion	Ratio	Lower	Upper
45	100		
43	18.6	36.7	55.1#

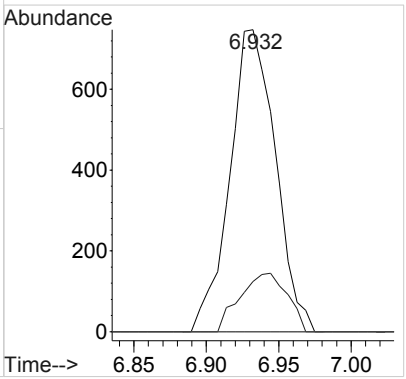


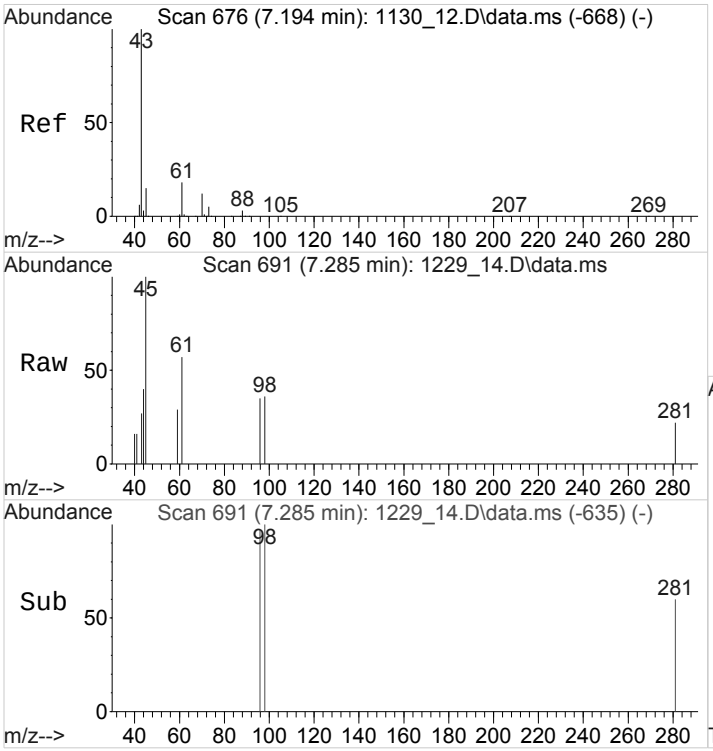


#37
ETHYL TERT-BUTYL ETHER
Concen: 0.0992394 ppbv
RT: 6.932 min Scan# 633
Delta R.T. -0.043 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 59 Resp: 1635

Ion	Ratio	Lower	Upper
59	100		
57	20.1	26.6	39.8#
87	0.0	30.4	45.6#

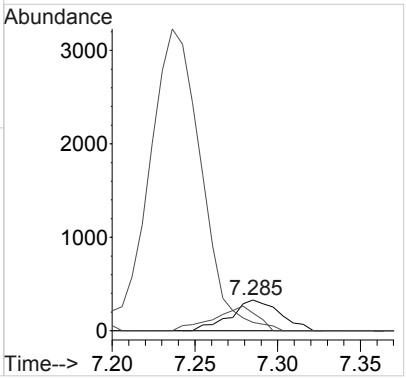




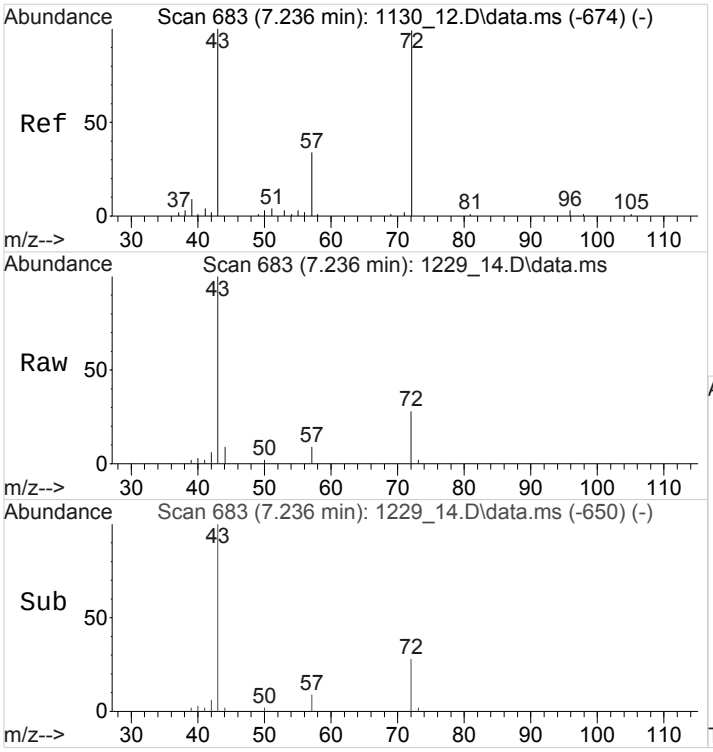
#38
ETHYL ACETATE
Concen: 0.3978177 ppbv
RT: 7.285 min Scan# 691
Delta R.T. 0.091 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 45 Resp: 682

Ion	Ratio	Lower	Upper
45	100		
70	0.0	60.5	90.7#
43	0.0	543.4	815.0#
61	69.4	89.8	134.6#



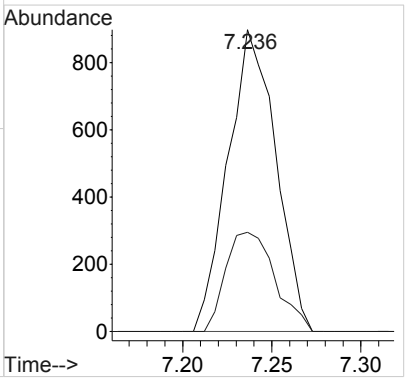
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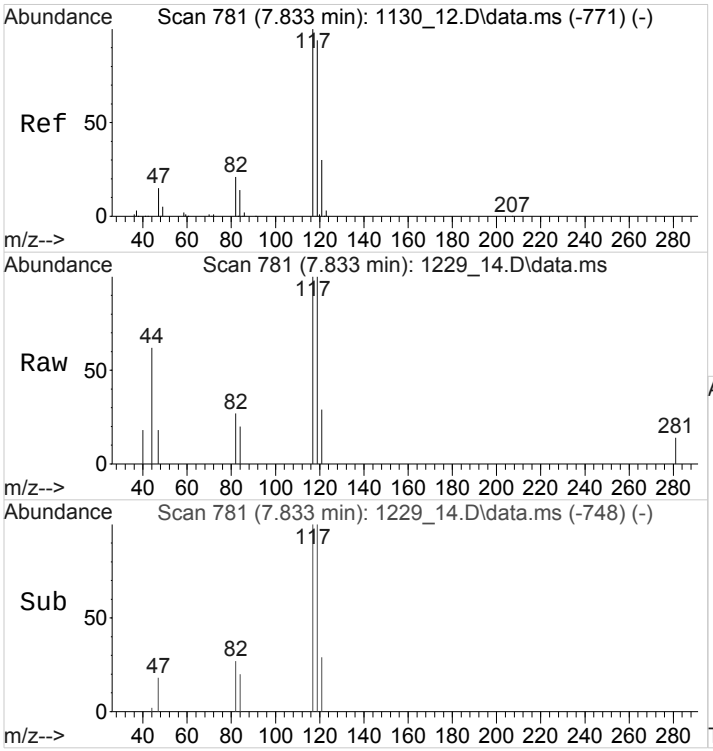


#39
2-Butanone (MEK)
Concen: 0.6635484 ppbv
RT: 7.236 min Scan# 683
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 72 Resp: 1676

Ion	Ratio	Lower	Upper
72	100		
57	33.8	27.3	40.9

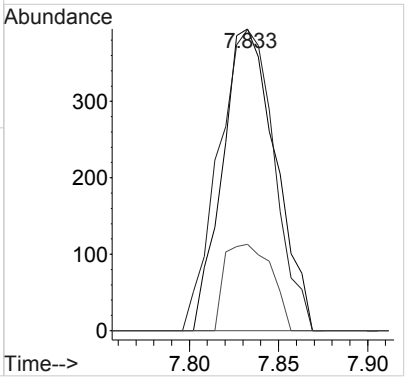




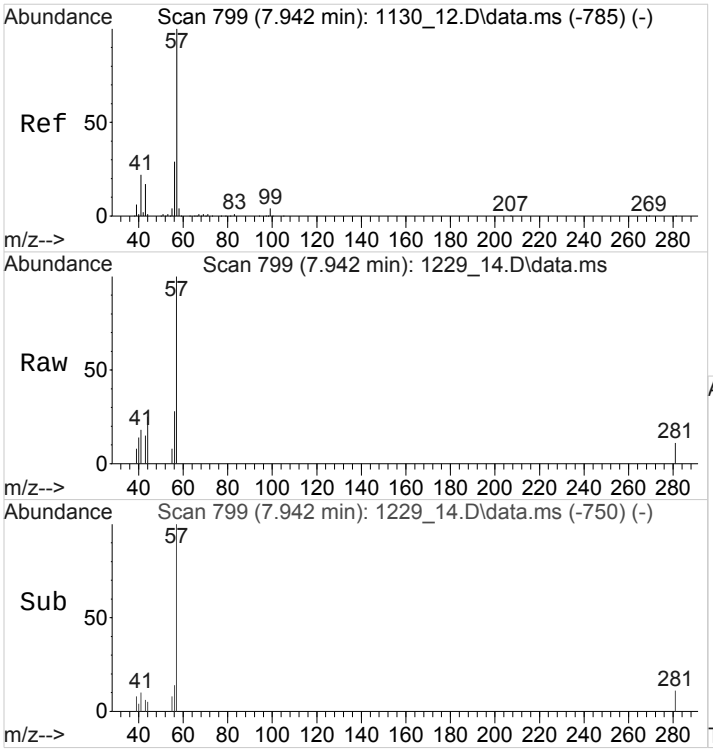
#45
Carbon Tetrachloride
Concen: 0.0686290 ppbv
RT: 7.833 min Scan# 781
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion:117 Resp: 819

Ion	Ratio	Lower	Upper
117	100		
119	104.6	77.3	115.9
121	25.3	25.0	37.4



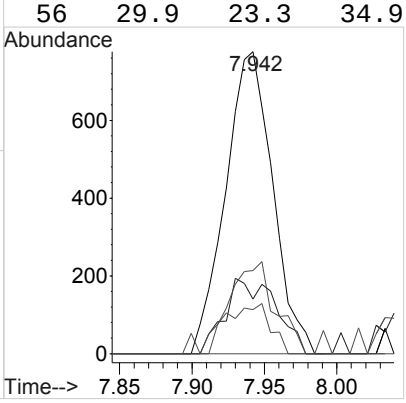
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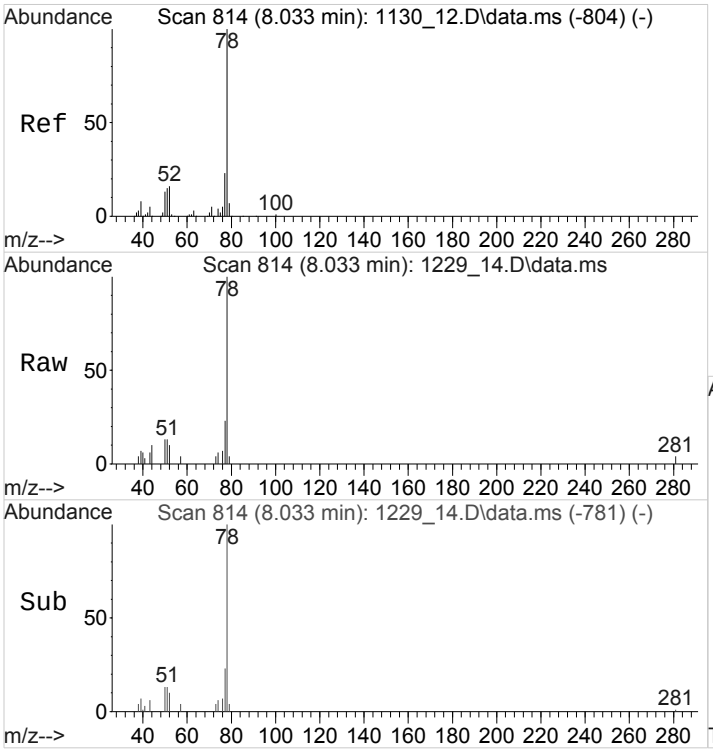


#46
2,2,4-Trimethylpentane
Concen: 0.0694143 ppbv
RT: 7.942 min Scan# 799
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 57 Resp: 1753

Ion	Ratio	Lower	Upper
57	100		
41	27.0	18.2	27.2
43	15.4	13.3	19.9
56	29.9	23.3	34.9

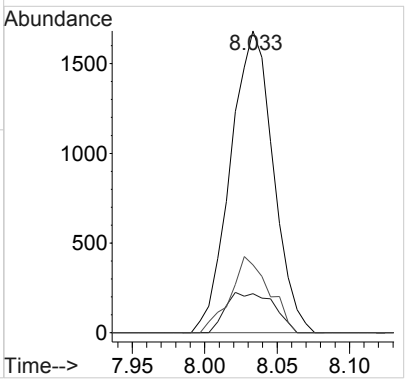




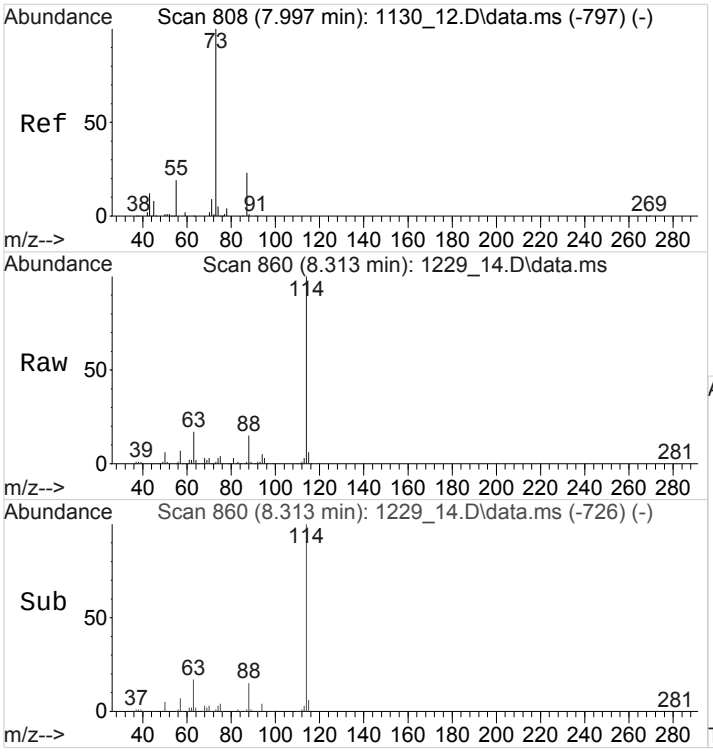
#48
Benzene
Concen: 0.2251610 ppbv
RT: 8.033 min Scan# 814
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 78 Resp: 3452

Ion	Ratio	Lower	Upper
78	100		
51	14.9	12.1	18.1
77	23.0	18.8	28.2



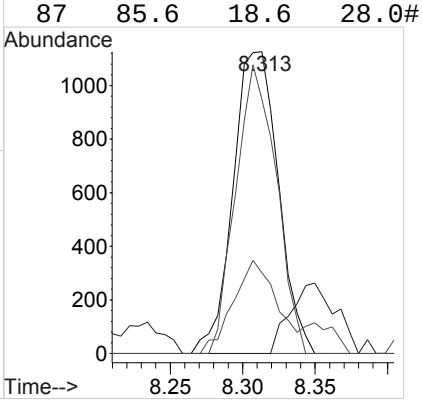
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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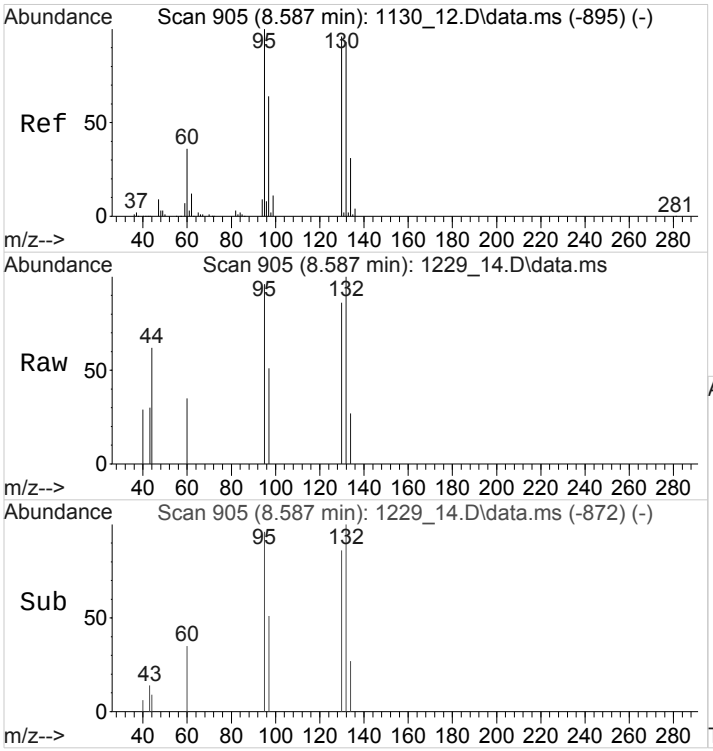


#49
TERT-AMYL METHYL ETHER
Concen: 0.1623032 ppbv
RT: 8.313 min Scan# 860
Delta R.T. 0.316 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 73 Resp: 2449

Ion	Ratio	Lower	Upper
73	100		
43	23.9	24.9	37.3#
55	29.8	18.8	28.2#
87	85.6	18.6	28.0#

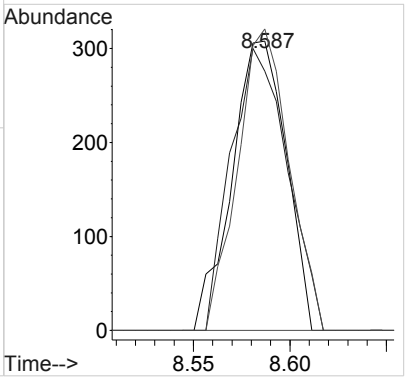




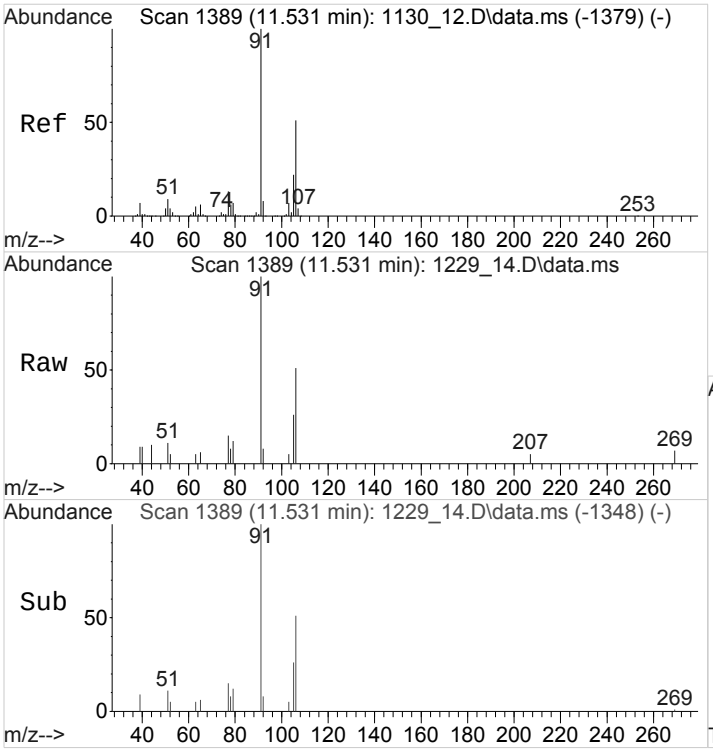
#52
Trichloroethene
Concen: 0.0801789 ppbv
RT: 8.587 min Scan# 905
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 95 Resp: 601

Ion	Ratio	Lower	Upper
95	100		
130	101.5	76.9	115.3
132	99.0	73.3	109.9



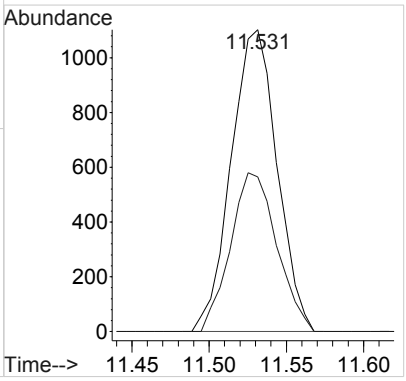
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	36 of 500

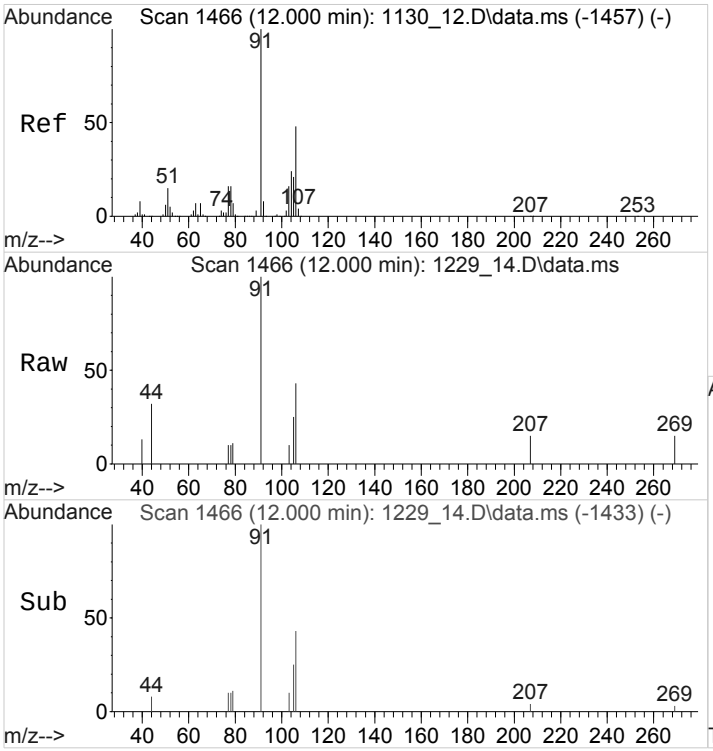


#73
M&P-Xylene
Concen: 0.1294595 ppbv
RT: 11.531 min Scan# 1389
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 91 Resp: 2282

Ion	Ratio	Lower	Upper
91	100		
106	53.0	39.7	59.5

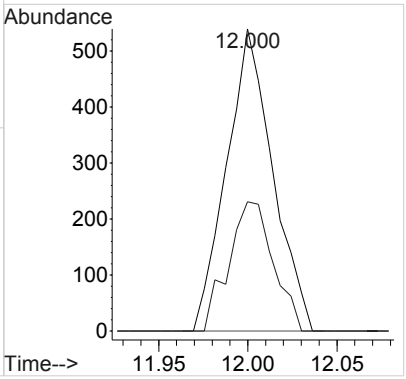




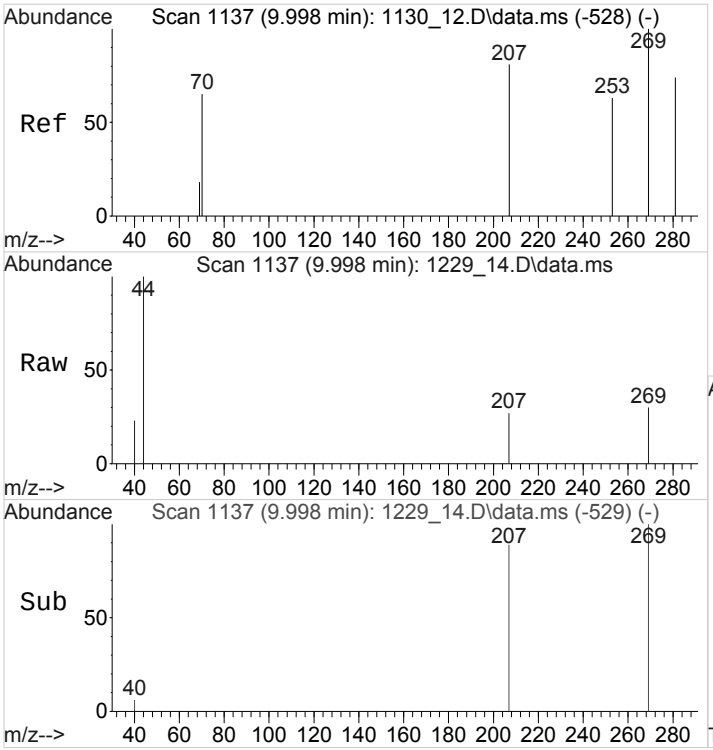
#74
O-Xylene
Concen: 0.0521189 ppbv
RT: 12.000 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion: 91 Resp: 969

Ion	Ratio	Lower	Upper
91	100		
106	41.4	38.4	57.6

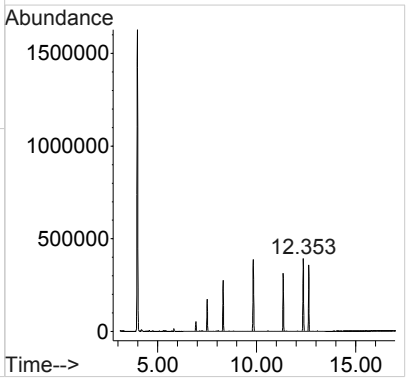


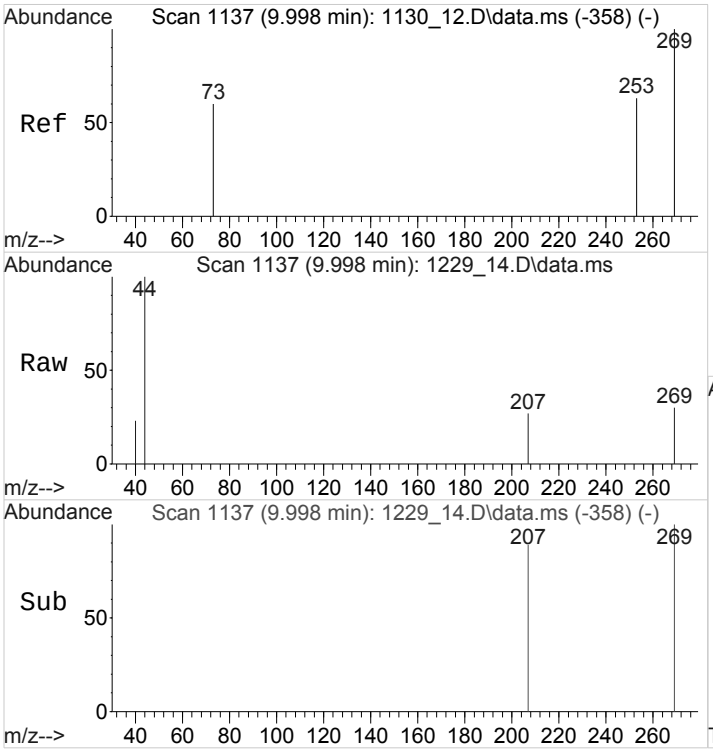
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	37 of 500



#101
TPH (GC/MS) Low Fraction
Concen: 64.0928233 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

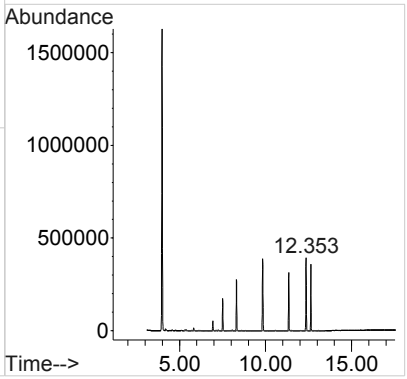
Tgt Ion:TIC Resp: 2237717





#102
TPH-GRO (C5-C10)
Concen: 79.3688678 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_14.D
Acq: 29 Dec 2022 8:13 pm

Tgt Ion:TIC Resp: 2338600



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	38 of 500

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
785-VMP-2_1222

Lab Sample ID:	L1570581-02	**SDG:**	L1570581
Client Sample ID:	785-VMP-2_1222	**Collected Date/Time:**	12/21/22 15:45
Lab File ID:	1229_15	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 20:56
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 20:56
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.82	5.51	J	1.39	2.85	5.70
Benzene	71-43-2	8.03	4.50		0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	6.06	0.598	J	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	0	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	1.00	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	6.40	0.361	J	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	11.40	3.57		0.362	0.867	1.73
4-Ethyltoluene	622-96-8	12.88	2.89		0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.33	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	2.23	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	2.34	J	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	6.20	0.549	J	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	3.36	J	0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	9.57	0.475	J	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	0	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	9.82	25.3		0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570581-02	**SDG:**	L1570581
Client Sample ID:	785-VMP-2_1222	**Collected Date/Time:**	12/21/22 15:45
Lab File ID:	1229_15	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 20:56
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 20:56
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.59	12.8		0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	13.31	2.91		0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	12.96	0.952	J	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	12.7		0.585	1.30	2.60
o-Xylene	95-47-6	12	4.23		0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_15.D
Acq On : 29 Dec 2022 8:56 pm
Operator :
Sample : L1570581-02 1x WG1980894
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 31 07:28:46 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	75509	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	264207	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	230897	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	138404	3.5130617	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 87.83%				
Target Compounds						Qvalue	
3) BUTANE	4.572	43	47416	6.8432993	ppbv		100
4) 1,1-DIFLUOROETHANE	4.176	51	3567	0.5990958	ppbv		97
5) Dichlorodifluoromethane	4.219	85	5767	0.4501466	ppbv		100
6) CHLORODIFLUOROMETHANE	4.237	51	1668	0.2309903	ppbv	#	92
8) Chloromethane	4.481	50	2238	0.4859404	ppbv		98
13) ISOPENTANE	5.089	43	27718	5.7916156	ppbv		95
15) Trichlorofluoromethane	5.284	101	2532	0.2360942	ppbv		98
16) PENTANE	5.320	43	26804	2.7228175	ppbv		99
17) Ethanol	5.399	45	24621	10.1572817	ppbv		99
18) ACROLEIN	5.716	56	1065	0.4733039	ppbv		99
19) 1,1,2-Trichlorotrifluo...	5.697	101	3535	0.3046709	ppbv		96
21) Acetone	5.819	43	19254	2.3237072	ppbv		99
23) 2-Propanol	5.843	45	22808	2.4928792	ppbv		92
24) Carbon Disulfide	6.056	76	3935	0.1919246	ppbv		98
26) METHYL ACETATE	6.105	43	25922	2.8158654	ppbv	#	55
27) ACETONITRILE	6.105	41	9835	1.9207582	ppbv	#	65
28) Methylene Chloride	6.202	49	902	0.1579125	ppbv		96
29) TERT-BUTYL ALCOHOL	6.178	59	1049	0.1089073	ppbv	#	13
31) Trans-1,2-Dichloroethene	6.403	61	752	0.0910167	ppbv	#	13
33) n-Hexane	6.525	57	11768	1.5291301	ppbv		97
36) DI-ISOPROPYL ETHER	6.847	45	1042	0.0668250	ppbv		90
38) ETHYL ACETATE	7.188	45	119	0.0692043	ppbv	#	1
39) 2-Butanone (MEK)	7.236	72	2891	1.1411254	ppbv		97
43) Cyclohexane	7.717	84	3421	0.5551202	ppbv	#	19
46) 2,2,4-Trimethylpentane	7.942	57	41519	1.6390820	ppbv		94
48) Benzene	8.033	78	21028	1.4108443	ppbv		100
51) Heptane	8.058	43	7567	0.9252297	ppbv		98
52) Trichloroethene	8.587	95	17329	2.3780335	ppbv		94
54) METHYL CYCLOHEXANE	8.733	83	5471	0.5553200	ppbv		97
60) 4-Methyl-2-Pentanone (...	9.573	43	1231	0.1157615	ppbv	#	88
61) n-OCTANE	9.712	43	4153	0.3228506	ppbv		97
62) Toluene	9.822	91	128183	6.7108634	ppbv		99
70) NONANE	11.349	43	7407	0.5439990	ppbv		96
72) Ethylbenzene	11.404	91	18203	0.8233821	ppbv		100
73) M&P-Xylene	11.525	91	50648	2.9233097	ppbv		99
74) O-Xylene	12.000	91	17836	0.9760295	ppbv		99
80) n-DECANE	12.809	43	6650	0.5745561	ppbv		96
82) n-Propylbenzene	12.803	91	3985	0.1425240	ppbv		98
83) 4-Ethyltoluene	12.876	105	13502	0.5880575	ppbv		98
86) 1,3,5-Trimethylbenzene	12.955	105	3668	0.1938960	ppbv		97
87) Tert-Butylbenzene	13.308	119	1511	0.0863466	ppbv	#	84
88) 1,2,4-Trimethylbenzene	13.308	105	10928	0.5917289	ppbv		97
93) 1,2,3-TRIMETHYLBENZENE	13.691	105	2604	0.1449567	ppbv		99
101) TPH (GC/MS) Low Fraction	10.000	TIC	1854437m	54.0394163	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	2170476m	74.9451541	ppbv		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_15.D
Acq On : 29 Dec 2022 8:56 pm
Operator :
Sample : L1570581-02 1x WG1980894
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 31 07:28:46 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

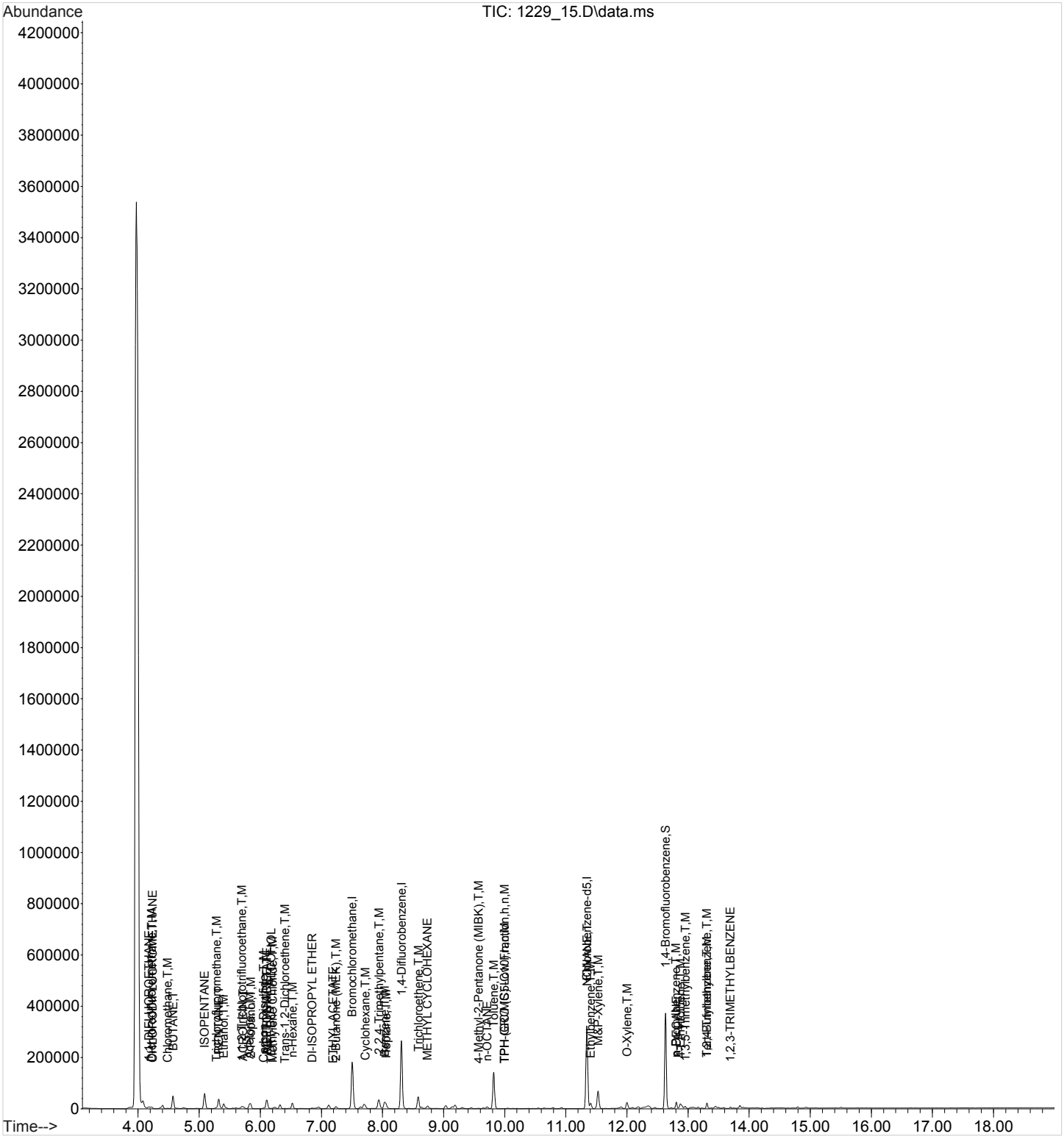
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

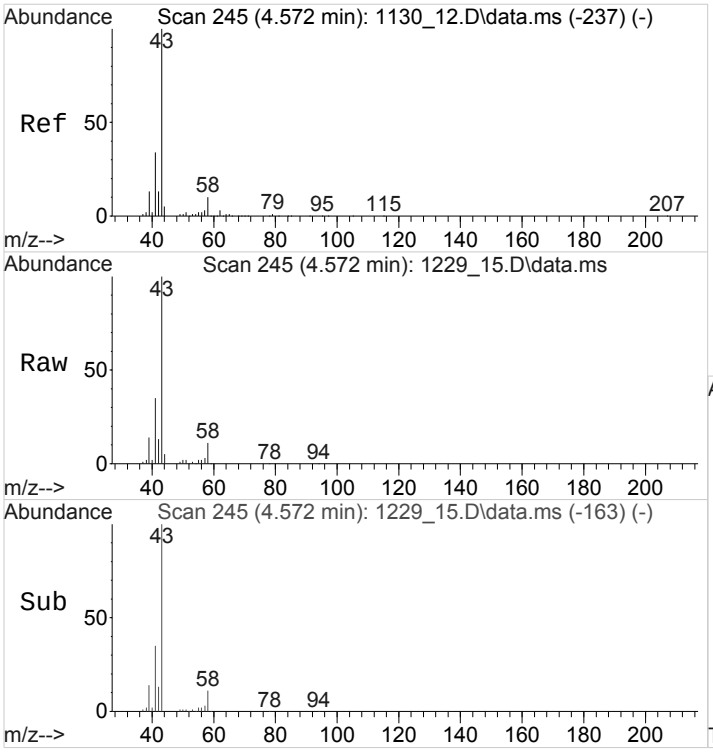
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_15.D
Acq On : 29 Dec 2022 8:56 pm
Operator :
Sample : L1570581-02 1x WG1980894
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 31 07:28:46 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

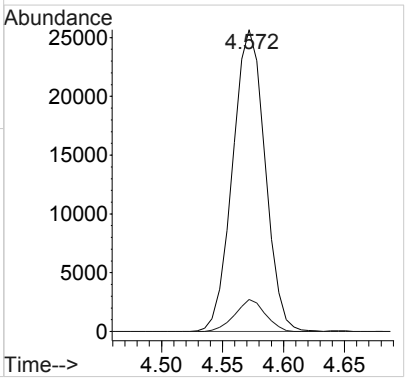


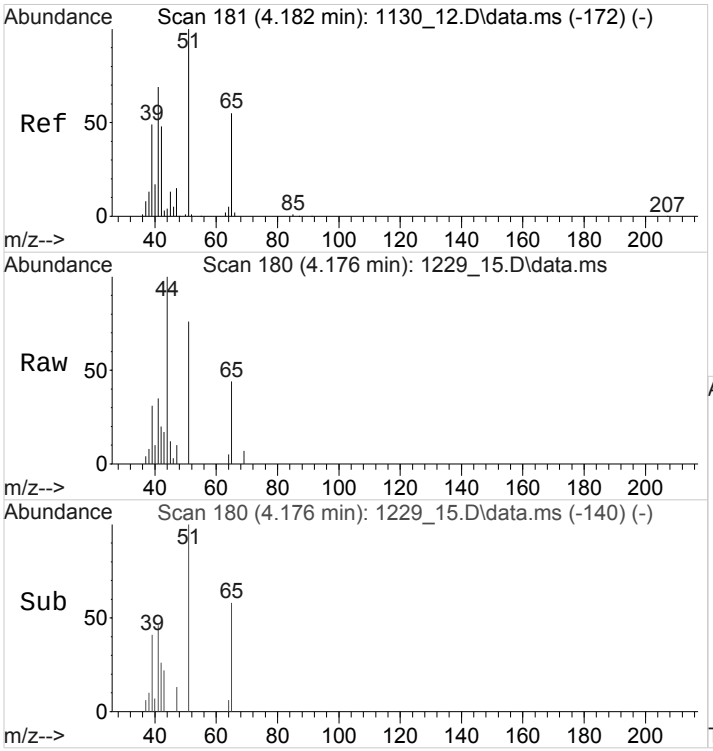


#3
BUTANE
Concen: 6.8432993 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 43 Resp: 47416

Ion	Ratio	Lower	Upper
43	100		
58	9.9	8.0	12.0

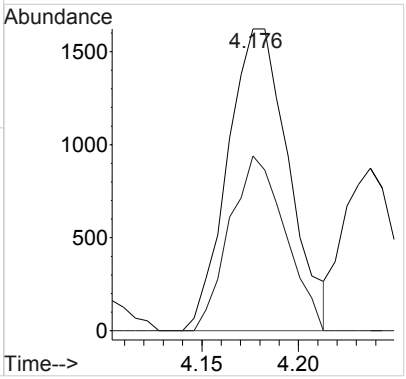


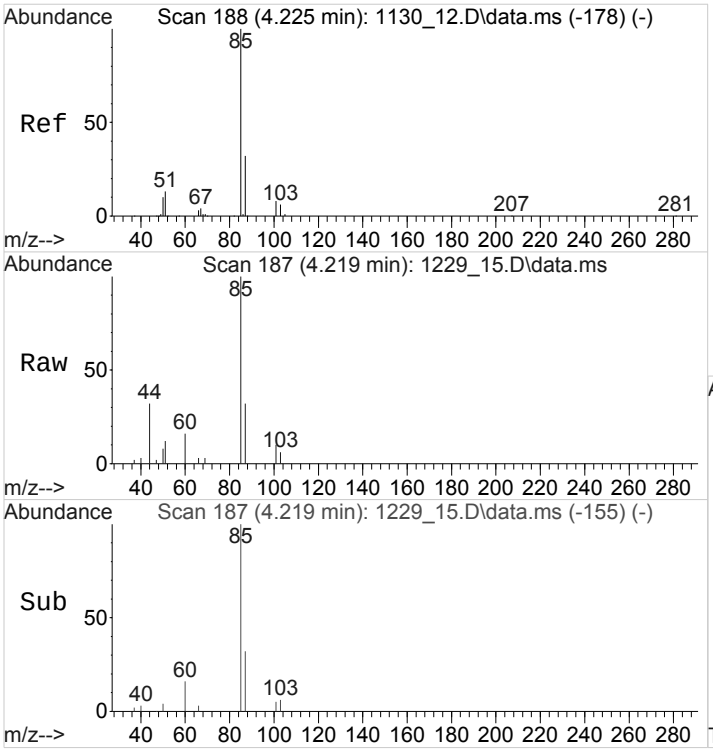


#4
1,1-DIFLUOROETHANE
Concen: 0.5990958 ppbv
RT: 4.176 min Scan# 180
Delta R.T. -0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 51 Resp: 3567

Ion	Ratio	Lower	Upper
51	100		
65	52.7	44.1	66.1

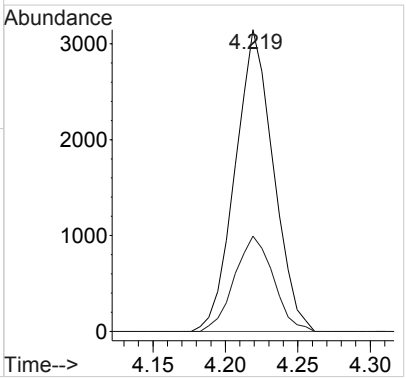


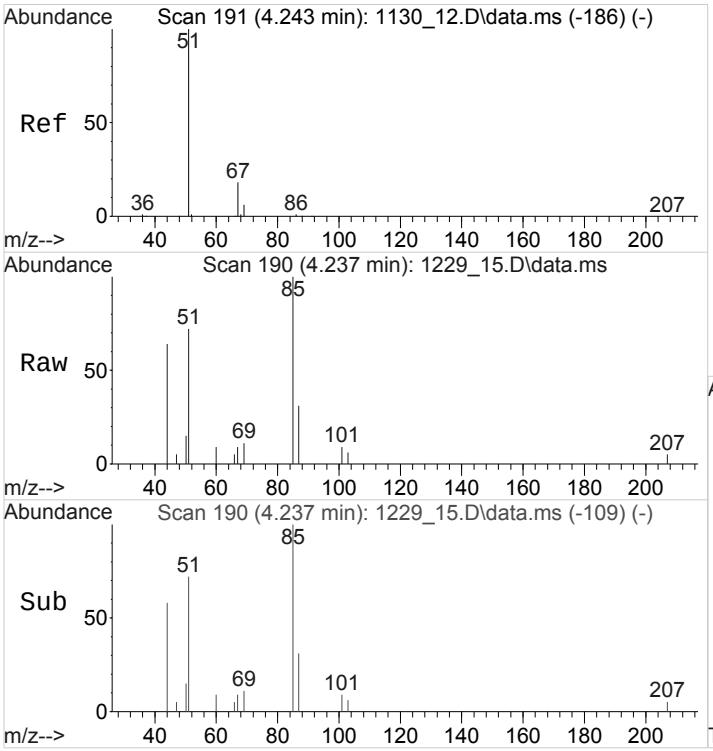


#5
Dichlorodifluoromethane
Concen: 0.4501466 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 85 Resp: 5767

Ion	Ratio	Lower	Upper
85	100		
87	32.2	25.8	38.6

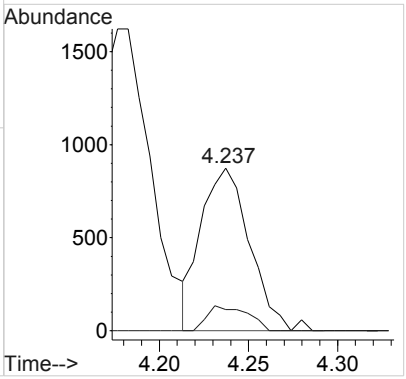




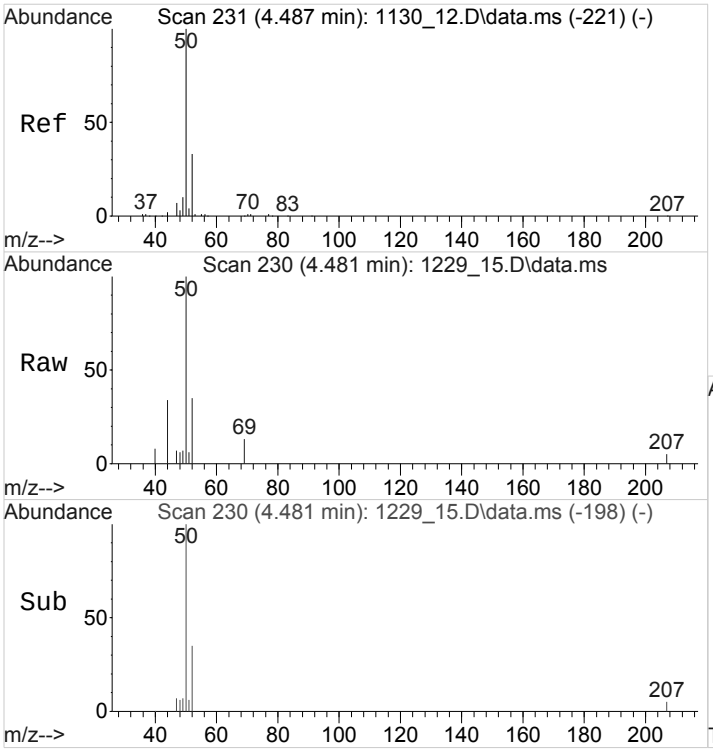
#6
CHLORODIFLUOROMETHANE
Concen: 0.2309903 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 51 Resp: 1668

Ion	Ratio	Lower	Upper
51	100		
67	12.7	13.0	19.4#



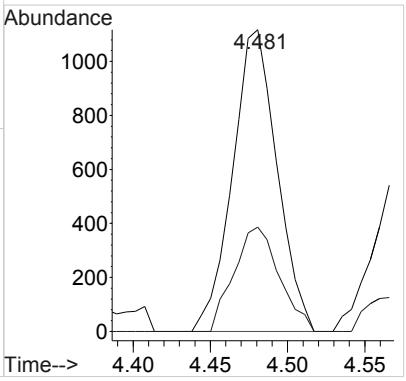
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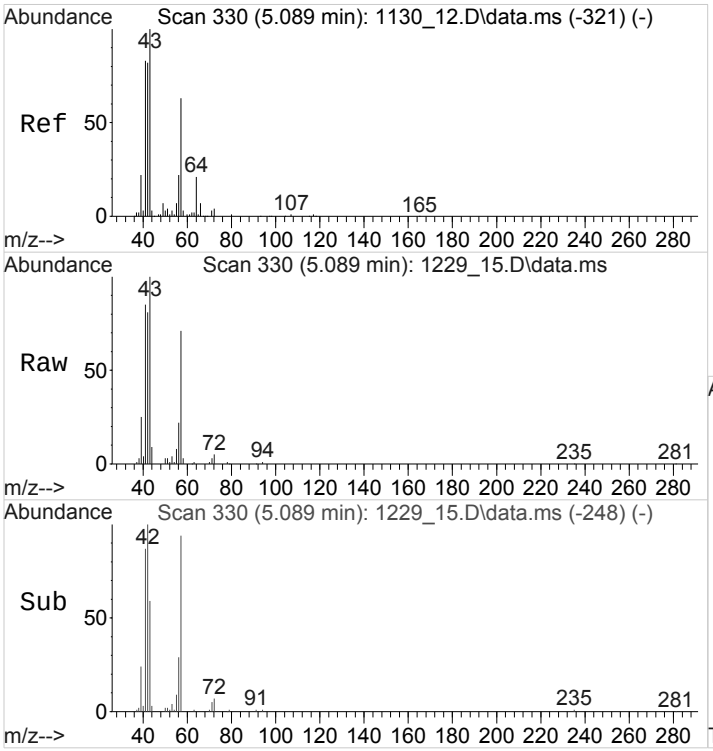


#8
Chloromethane
Concen: 0.4859404 ppbv
RT: 4.481 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 50 Resp: 2238

Ion	Ratio	Lower	Upper
50	100		
52	35.3	27.1	40.7

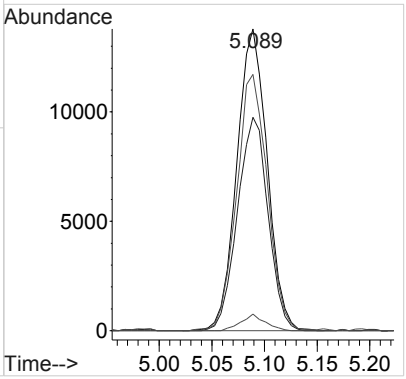




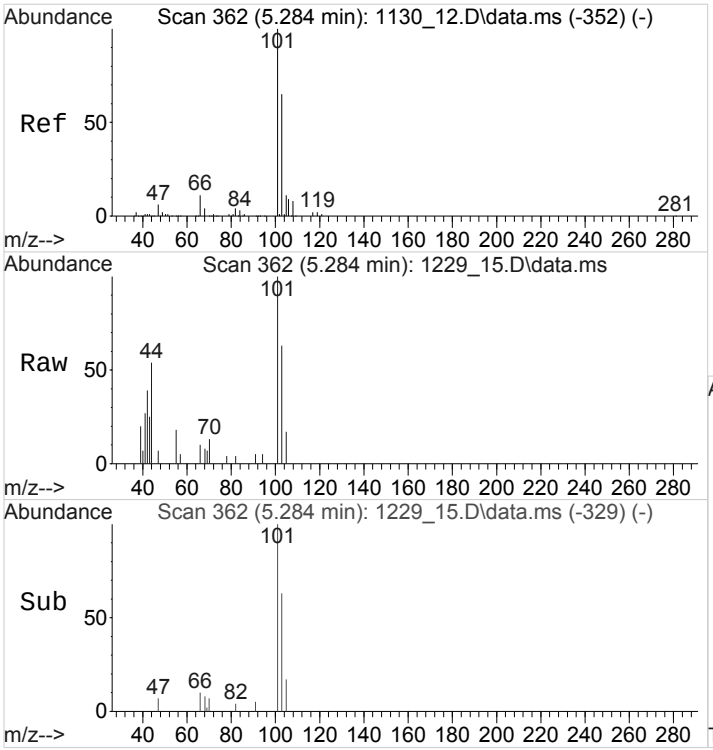
#13
ISOPENTANE
Concen: 5.7916156 ppbv
RT: 5.089 min Scan# 330
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 43 Resp: 27718

Ion	Ratio	Lower	Upper
43	100		
57	71.1	51.7	77.5
41	86.2	66.4	99.6
72	4.4	3.2	4.8



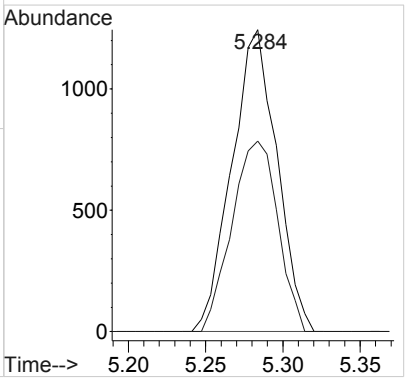
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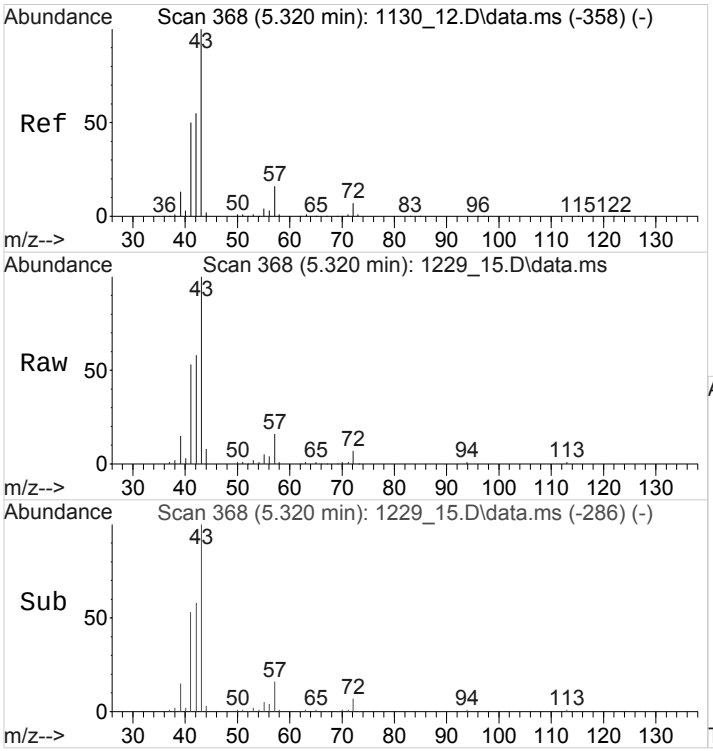


#15
Trichlorofluoromethane
Concen: 0.2360942 ppbv
RT: 5.284 min Scan# 362
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion:101 Resp: 2532

Ion	Ratio	Lower	Upper
101	100		
103	64.3	52.8	79.2

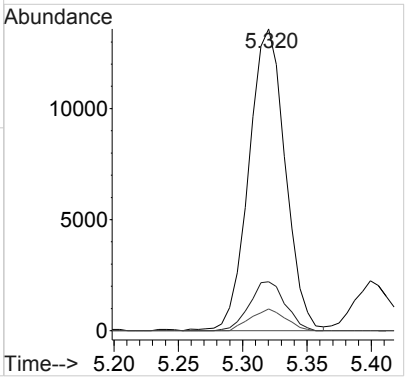




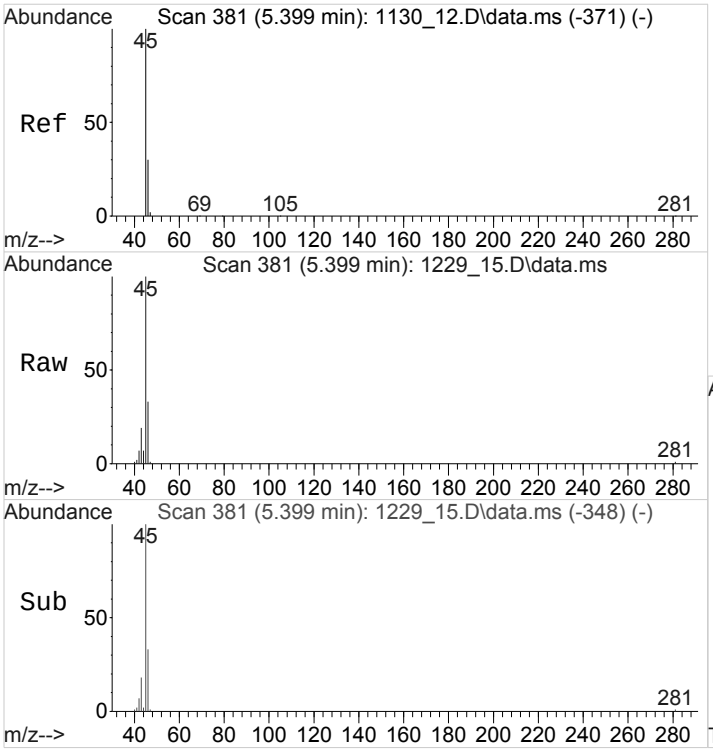
#16
PENTANE
Concen: 2.7228175 ppbv
RT: 5.320 min Scan# 368
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 43 Resp: 26804

Ion	Ratio	Lower	Upper
43	100		
57	16.1	13.0	19.4
72	7.0	5.8	8.8



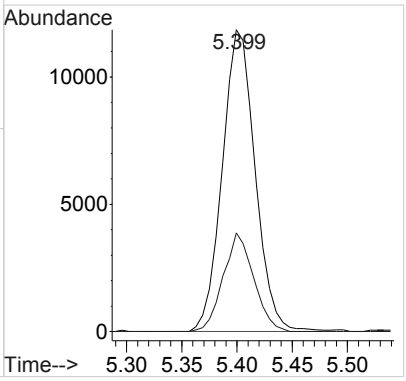
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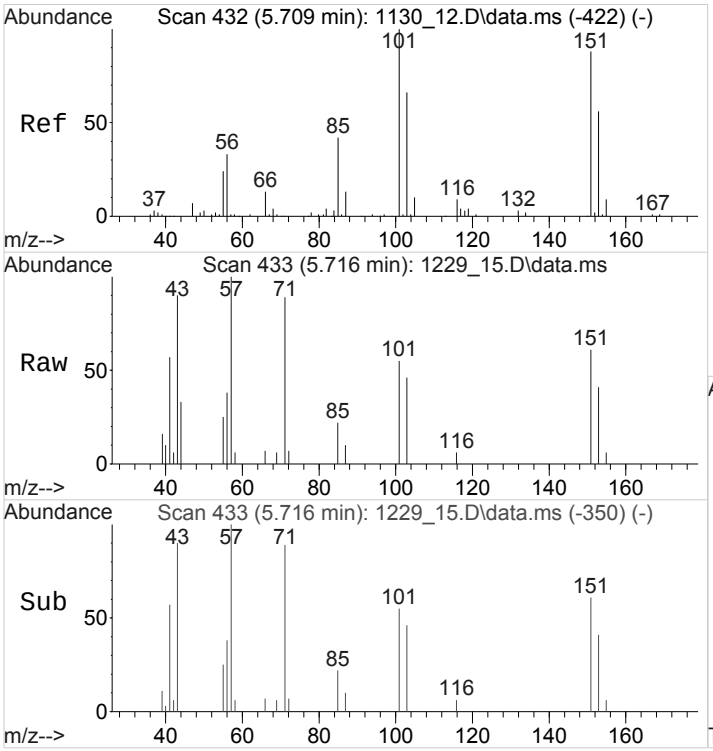


#17
Ethanol
Concen: 10.1572817 ppbv
RT: 5.399 min Scan# 381
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 45 Resp: 24621

Ion	Ratio	Lower	Upper
45	100		
46	30.2	23.6	35.4

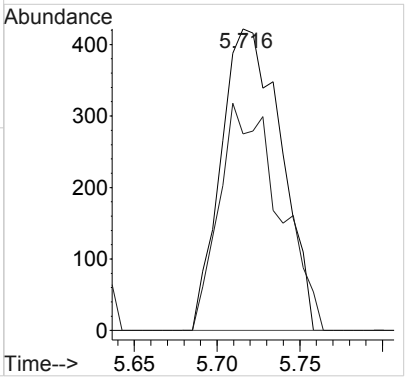




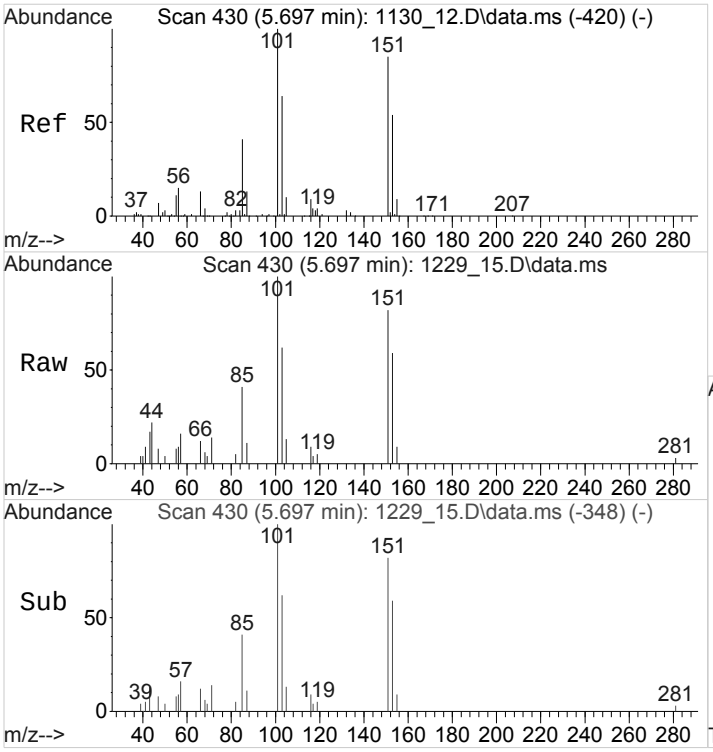
#18
ACROLEIN
Concen: 0.4733039 ppbv
RT: 5.716 min Scan# 433
Delta R.T. 0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 56 Resp: 1065

Ion	Ratio	Lower	Upper
56	100		
55	74.9	60.4	90.6



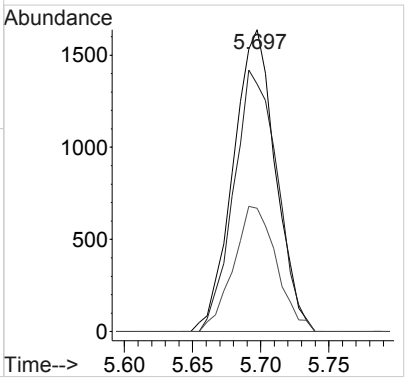
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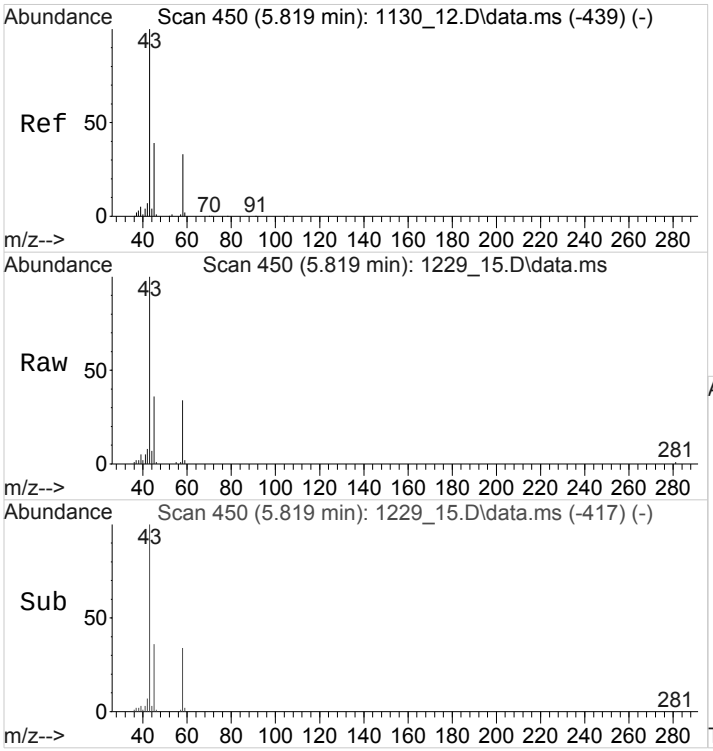


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.3046709 ppbv
RT: 5.697 min Scan# 430
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion:101 Resp: 3535

Ion	Ratio	Lower	Upper
101	100		
151	89.1	67.4	101.2
85	42.1	34.4	51.6

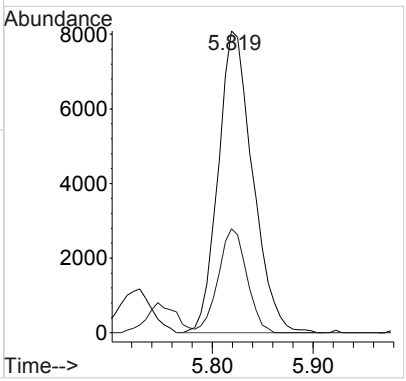




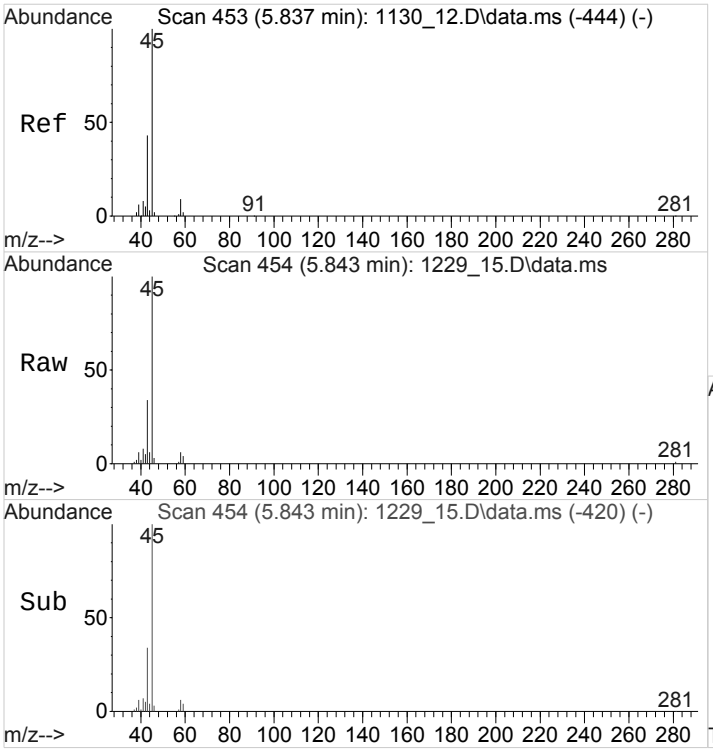
#21
Acetone
Concen: 2.3237072 ppbv
RT: 5.819 min Scan# 450
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 43 Resp: 19254

Ion	Ratio	Lower	Upper
43	100		
58	28.5	23.1	34.7



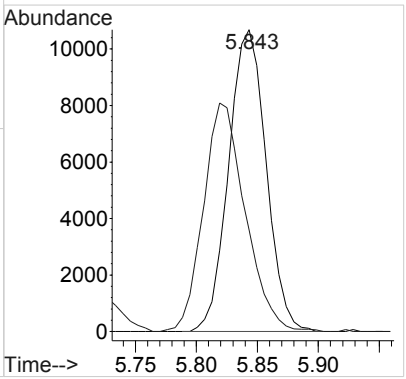
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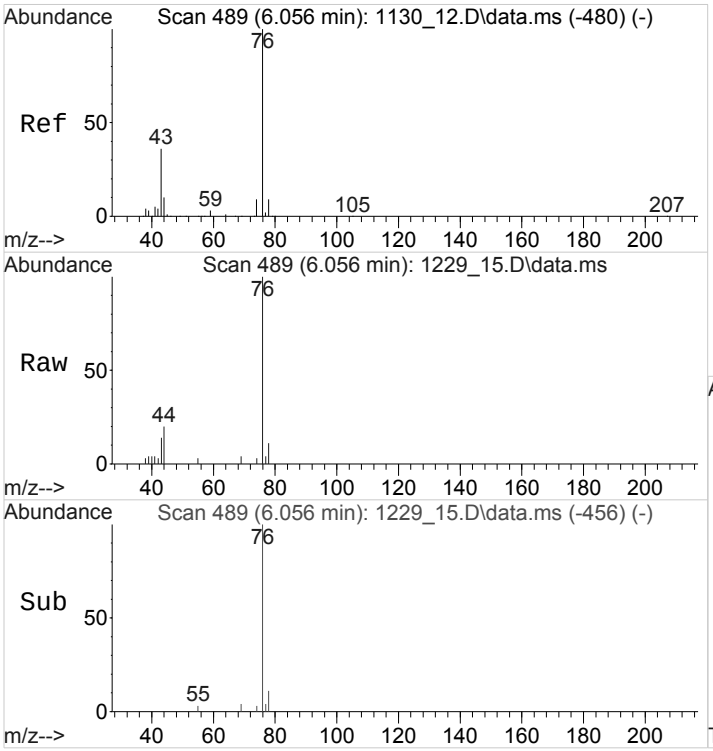


#23
2-Propanol
Concen: 2.4928792 ppbv
RT: 5.843 min Scan# 454
Delta R.T. 0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 45 Resp: 22808

Ion	Ratio	Lower	Upper
45	100		
43	84.4	73.5	110.3

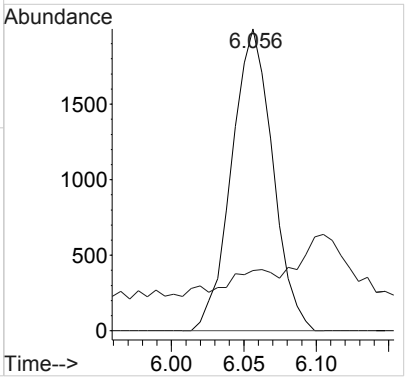




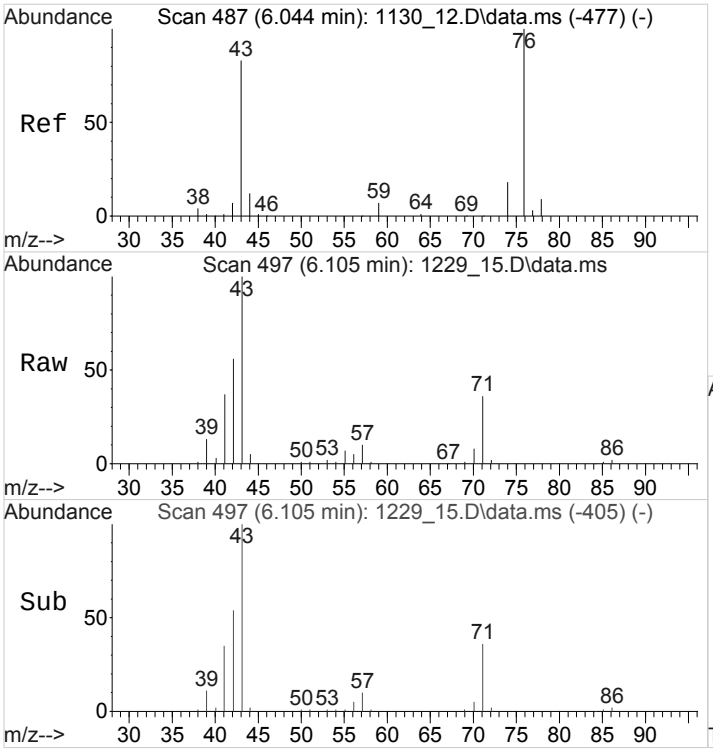
#24
Carbon Disulfide
Concen: 0.1919246 ppbv
RT: 6.056 min Scan# 489
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 76 Resp: 3935

Ion	Ratio	Lower	Upper
76	100		
44	11.4	8.4	12.6



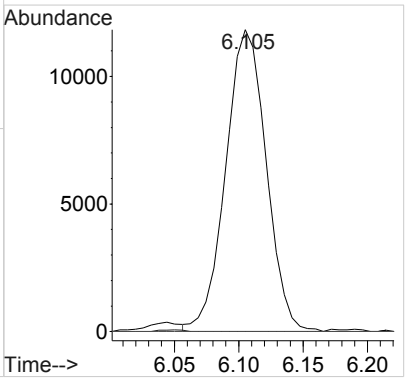
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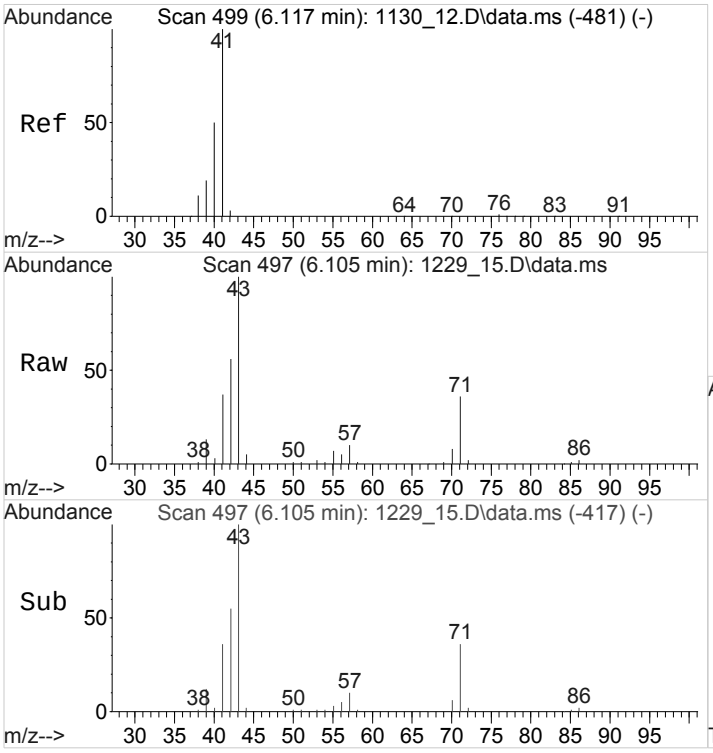


#26
METHYL ACETATE
Concen: 2.8158654 ppbv
RT: 6.105 min Scan# 497
Delta R.T. 0.061 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 43 Resp: 25922

Ion	Ratio	Lower	Upper
43	100		
74	0.3	17.4	26.0#
29	0.0	0.0	0.0

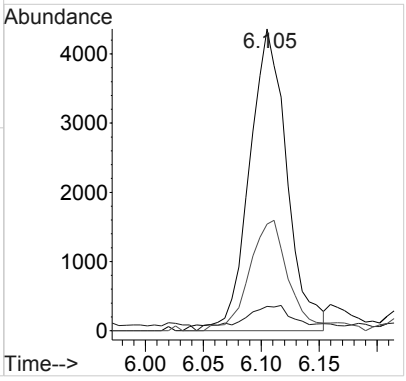


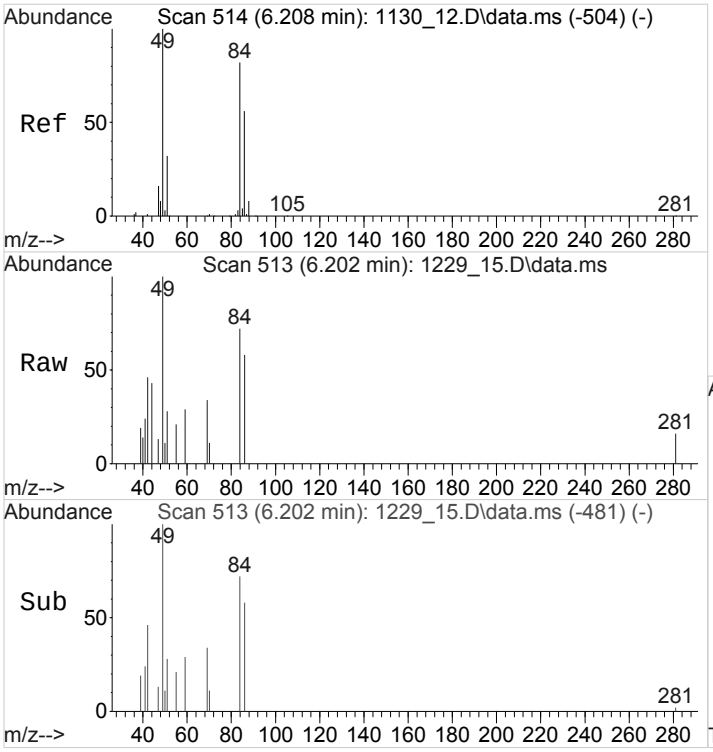


#27
ACETONITRILE
Concen: 1.9207582 ppbv
RT: 6.105 min Scan# 497
Delta R.T. -0.012 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 41 Resp: 9835

Ion	Ratio	Lower	Upper
41	100		
40	12.9	32.7	49.1#
39	39.5	22.7	34.1#

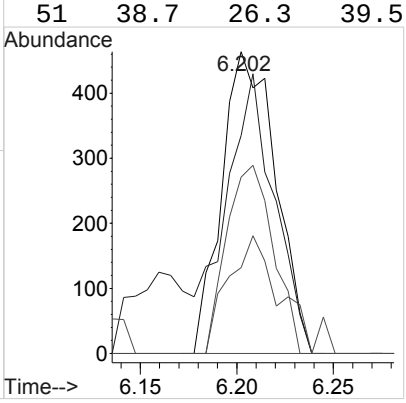


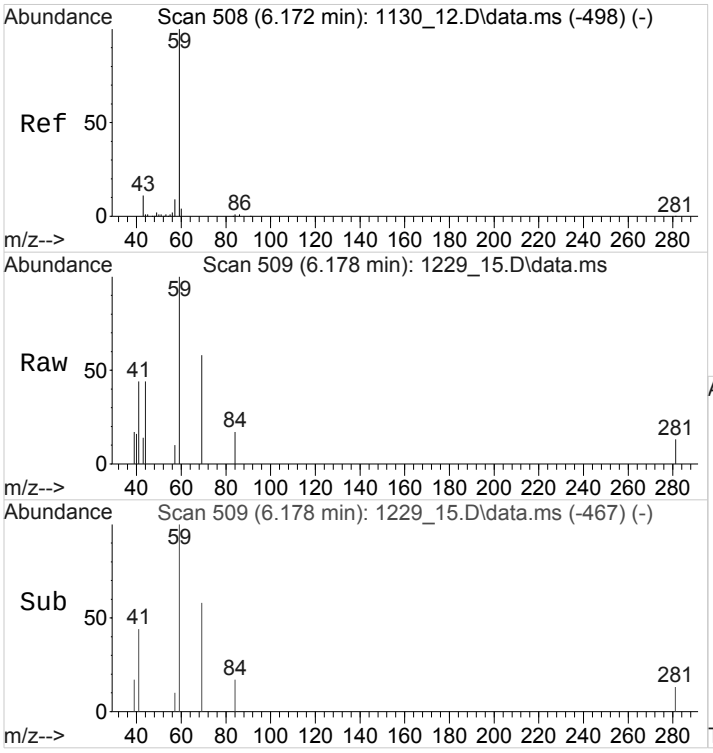


#28
Methylene Chloride
Concen: 0.1579125 ppbv
RT: 6.202 min Scan# 513
Delta R.T. -0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 49 Resp: 902

Ion	Ratio	Lower	Upper
49	100		
84	82.6	65.0	97.6
86	54.2	41.8	62.6
51	38.7	26.3	39.5

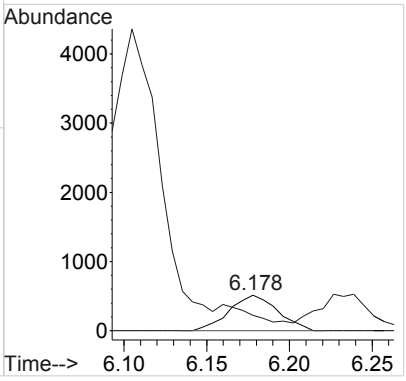




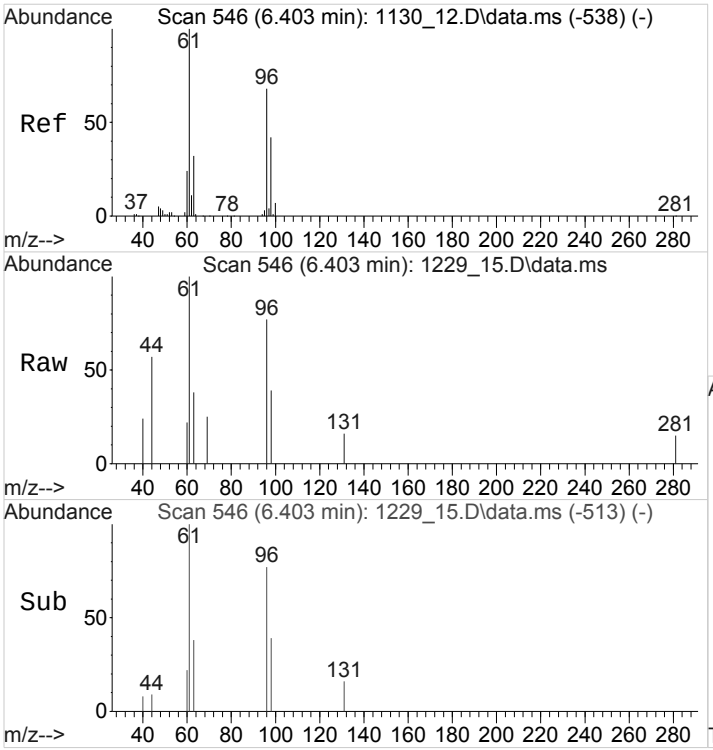
#29
TERT-BUTYL ALCOHOL
Concen: 0.1089073 ppbv
RT: 6.178 min Scan# 509
Delta R.T. 0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 59 Resp: 1049

Ion	Ratio	Lower	Upper
59	100		
41	110.8	216.4	324.6#



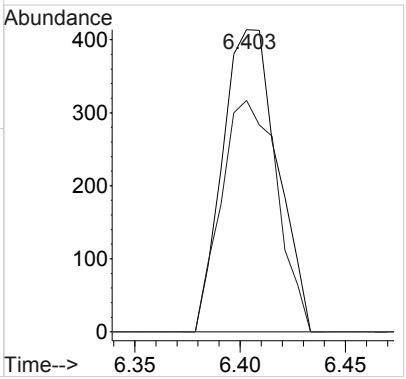
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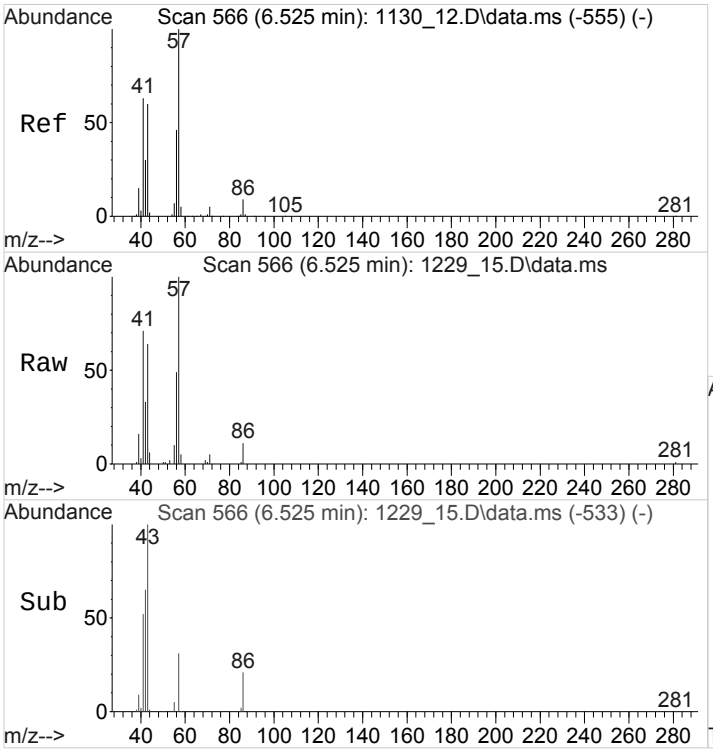


#31
Trans-1,2-Dichloroethene
Concen: 0.0910167 ppbv
RT: 6.403 min Scan# 546
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 61 Resp: 752

Ion	Ratio	Lower	Upper
61	100		
96	78.3	54.1	81.1
73	0.0	124.1	186.1#

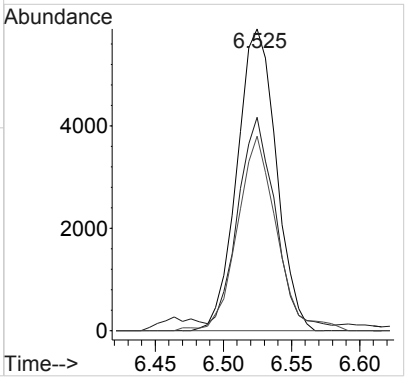


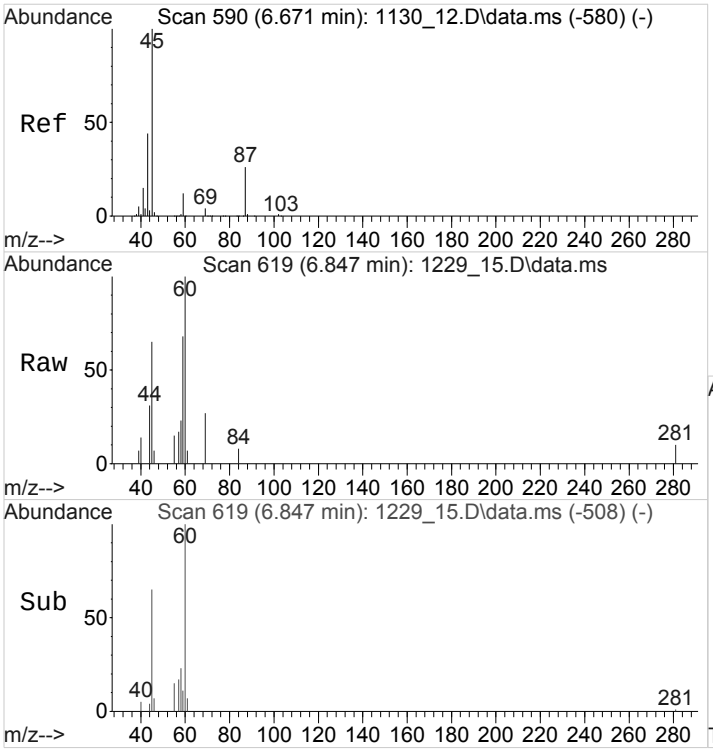


#33
n-Hexane
Concen: 1.5291301 ppbv
RT: 6.525 min Scan# 566
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 57 Resp: 11768

Ion	Ratio	Lower	Upper
57	100		
41	65.1	50.9	76.3
43	64.3	48.4	72.6

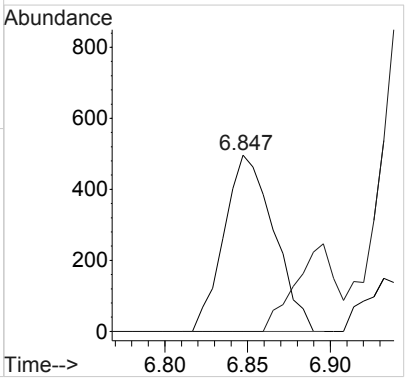


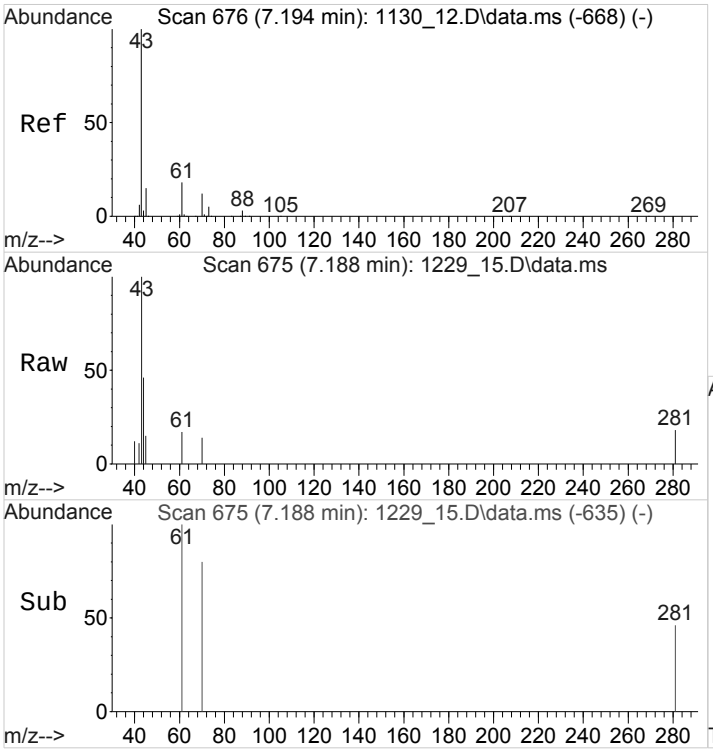


#36
DI-ISOPROPYL ETHER
Concen: 0.0668250 ppbv
RT: 6.847 min Scan# 619
Delta R.T. 0.177 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 45 Resp: 1042

Ion	Ratio	Lower	Upper
45	100		
43	39.5	36.7	55.1

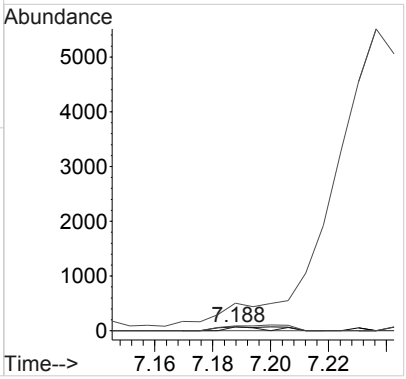




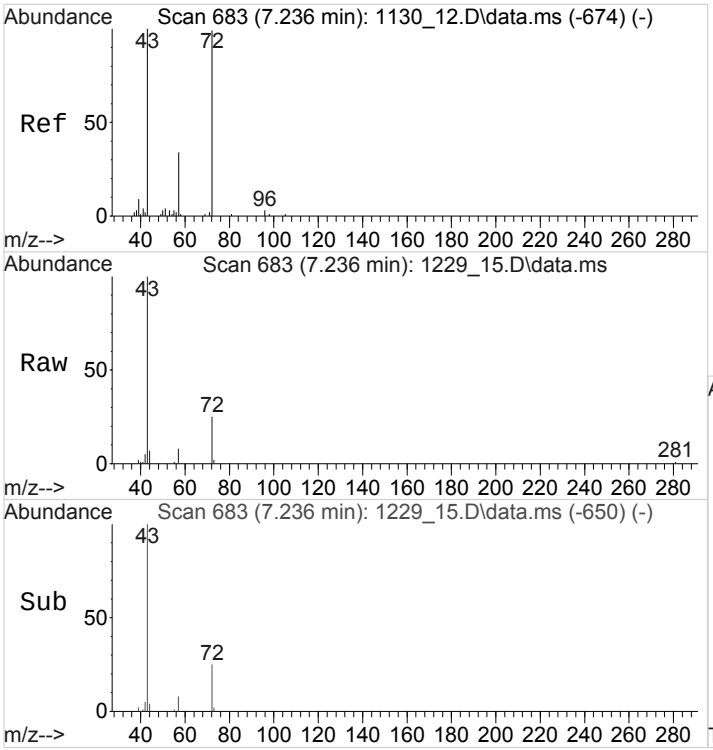
#38
ETHYL ACETATE
Concen: 0.0692043 ppbv
RT: 7.188 min Scan# 675
Delta R.T. -0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 45 Resp: 119

Ion	Ratio	Lower	Upper
45	100		
70	37.8	60.5	90.7#
43	0.0	543.4	815.0#
61	137.0	89.8	134.6#



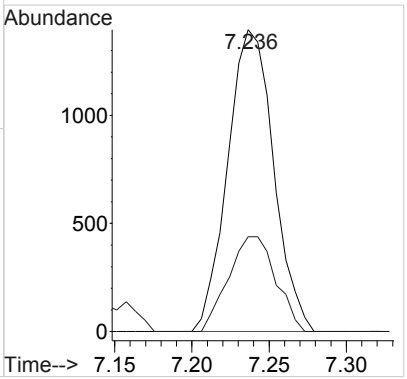
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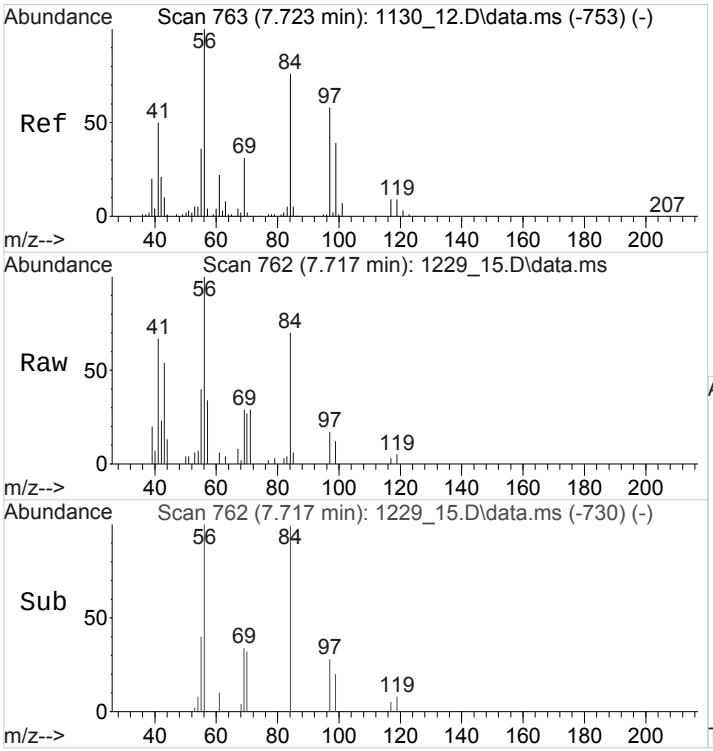


#39
2-Butanone (MEK)
Concen: 1.1411254 ppbv
RT: 7.236 min Scan# 683
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 72 Resp: 2891

Ion	Ratio	Lower	Upper
72	100		
57	32.4	27.3	40.9

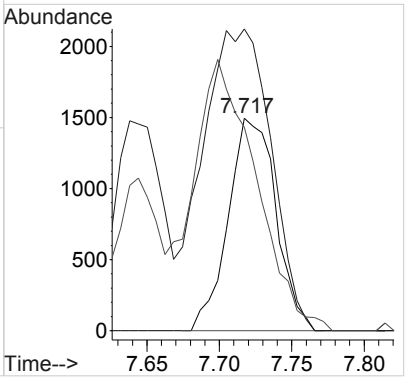




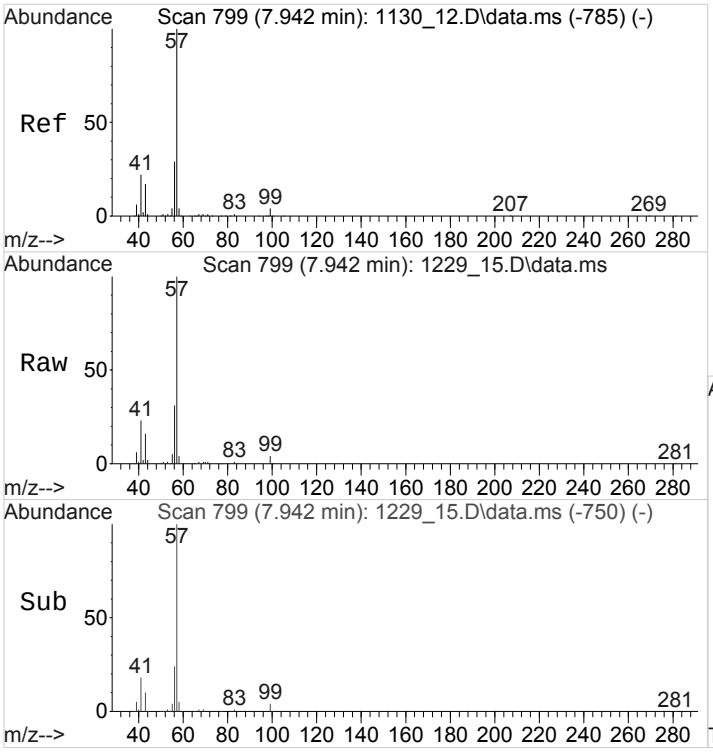
#43
Cyclohexane
Concen: 0.5551202 ppbv
RT: 7.717 min Scan# 762
Delta R.T. -0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 84 Resp: 3421

Ion	Ratio	Lower	Upper
84	100		
56	203.8	106.5	159.7#
41	161.9	52.0	78.0#



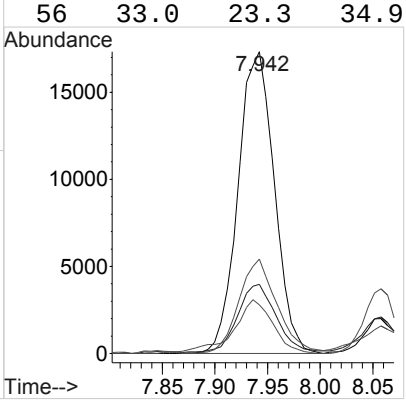
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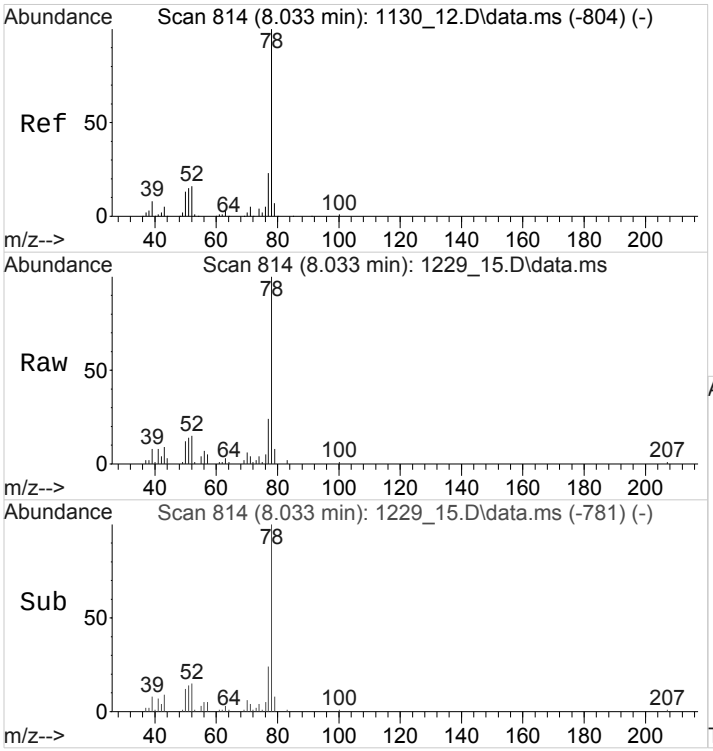


#46
2,2,4-Trimethylpentane
Concen: 1.6390820 ppbv
RT: 7.942 min Scan# 799
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 57 Resp: 41519

Ion	Ratio	Lower	Upper
57	100		
41	24.5	18.2	27.2
43	19.6	13.3	19.9
56	33.0	23.3	34.9

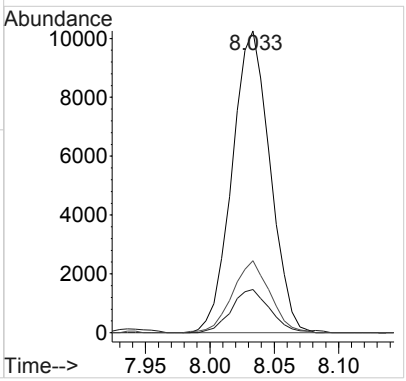




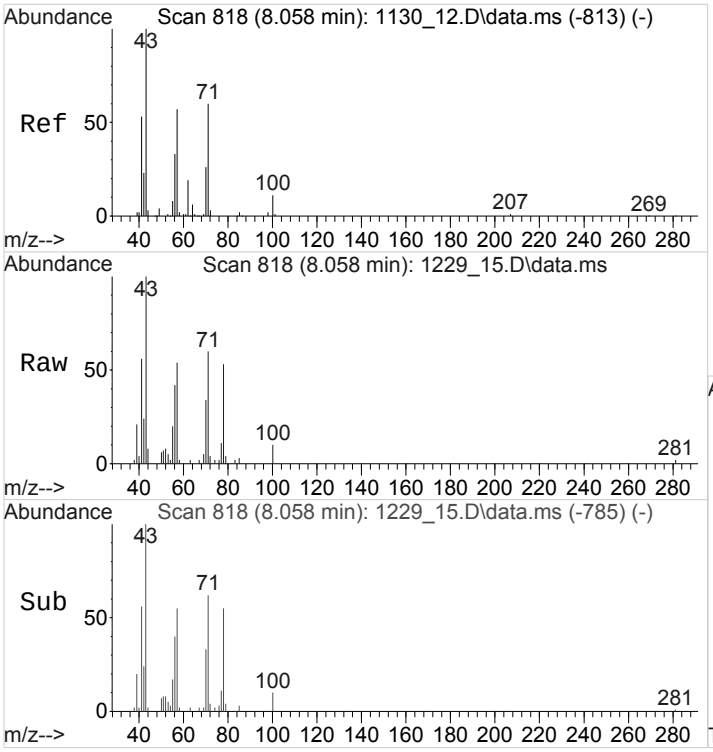
#48
Benzene
Concen: 1.4108443 ppbv
RT: 8.033 min Scan# 814
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 78 Resp: 21028

Ion	Ratio	Lower	Upper
78	100		
51	14.9	12.1	18.1
77	23.6	18.8	28.2



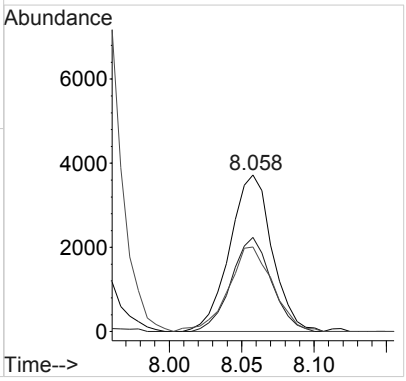
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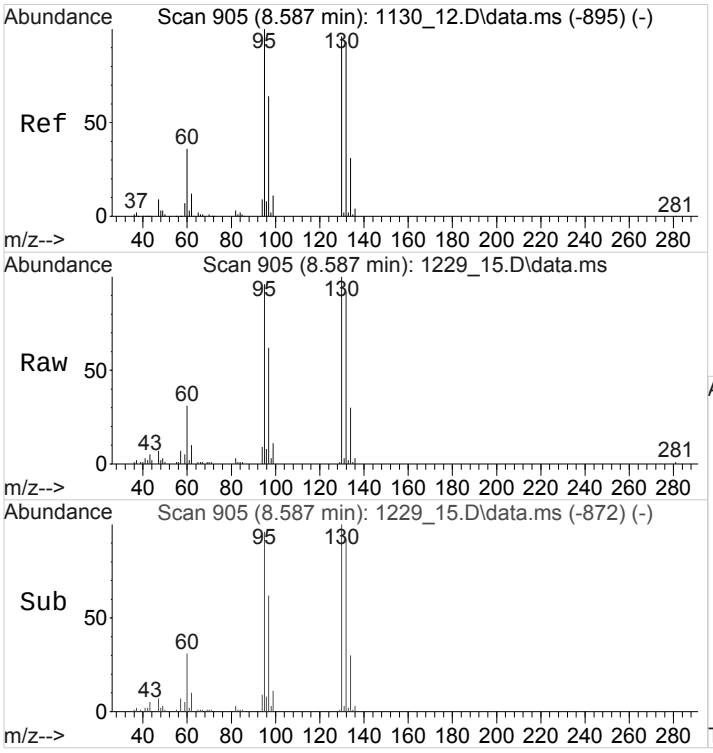


#51
Heptane
Concen: 0.9252297 ppbv
RT: 8.058 min Scan# 818
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 43 Resp: 7567

Ion	Ratio	Lower	Upper
43	100		
71	56.9	47.0	70.4
57	56.7	43.9	65.9

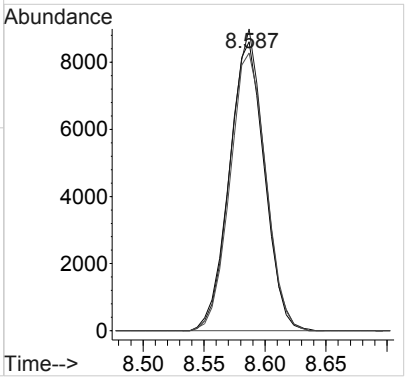




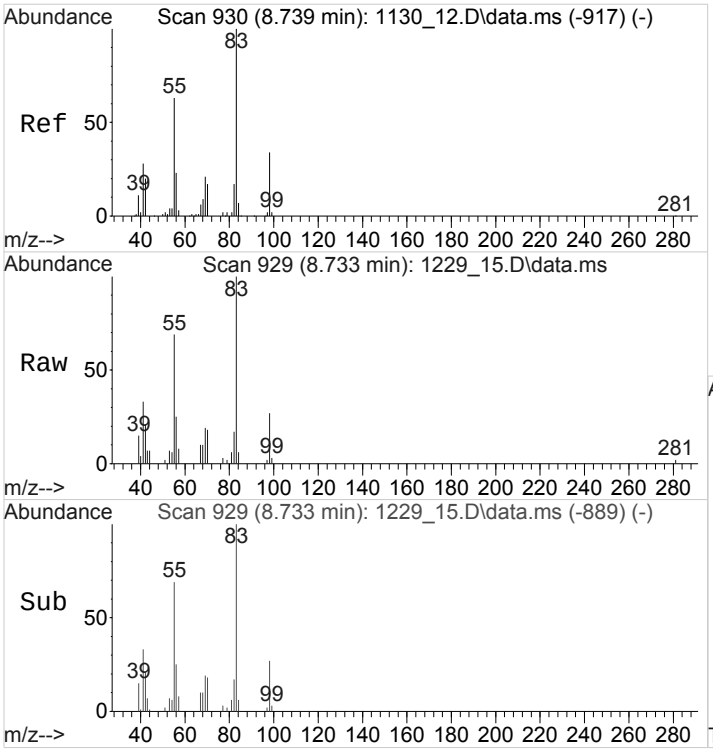
#52
Trichloroethene
Concen: 2.3780335 ppbv
RT: 8.587 min Scan# 905
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 95 Resp: 17329

Ion	Ratio	Lower	Upper
95	100		
130	101.9	76.9	115.3
132	97.3	73.3	109.9



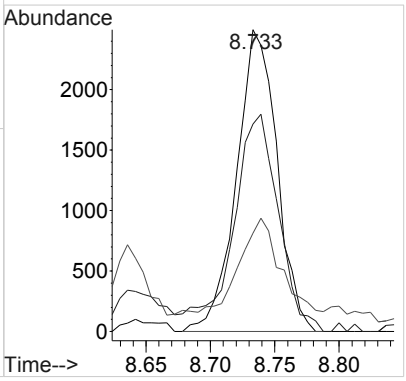
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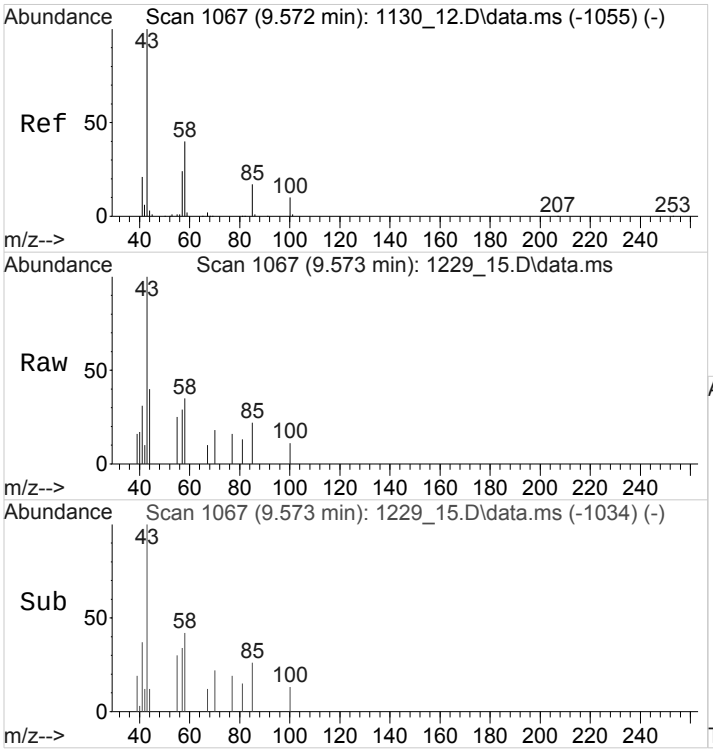


#54
METHYL CYCLOHEXANE
Concen: 0.5553200 ppbv
RT: 8.733 min Scan# 929
Delta R.T. -0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 83 Resp: 5471

Ion	Ratio	Lower	Upper
83	100		
55	80.0	66.6	99.8
41	32.5	26.8	40.2

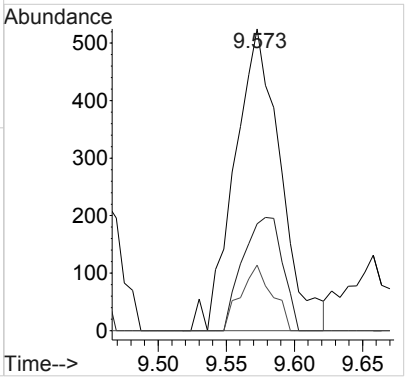


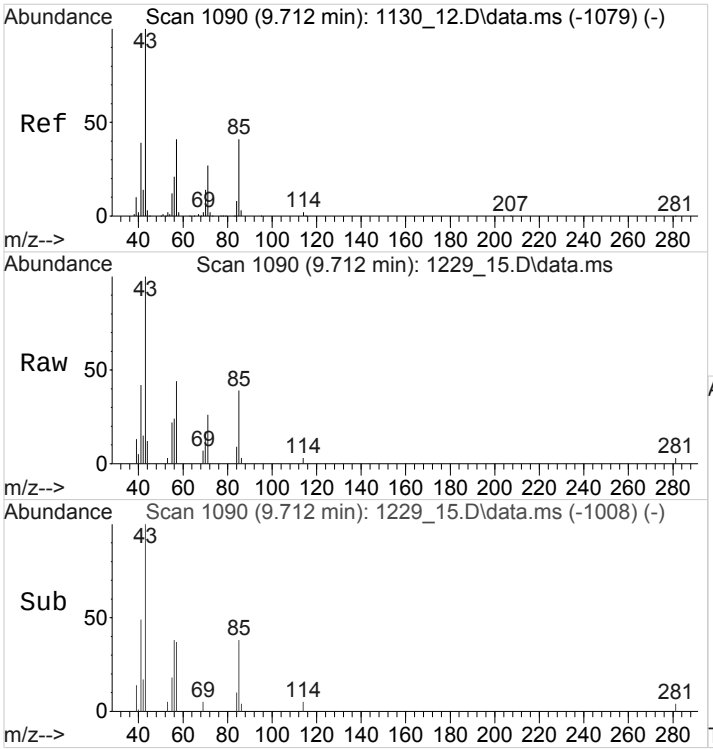


#60
4-Methyl-2-Pentanone (MIBK)
Concen: 0.1157615 ppbv
RT: 9.573 min Scan# 1067
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 43 Resp: 1231

Ion	Ratio	Lower	Upper
43	100		
58	32.5	33.0	49.6#
85	14.9	14.7	22.1

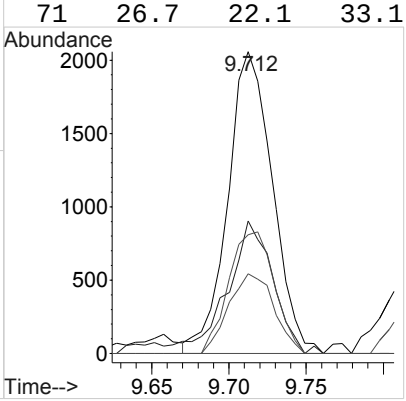


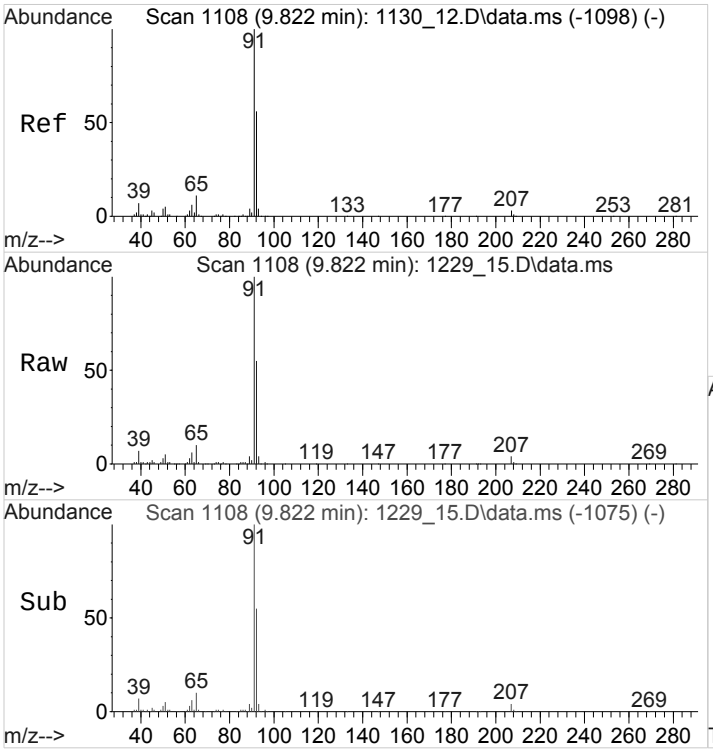


#61
n-OCTANE
Concen: 0.3228506 ppbv
RT: 9.712 min Scan# 1090
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 43 Resp: 4153

Ion	Ratio	Lower	Upper
43	100		
57	45.0	33.1	49.7
85	41.1	33.1	49.7
71	26.7	22.1	33.1

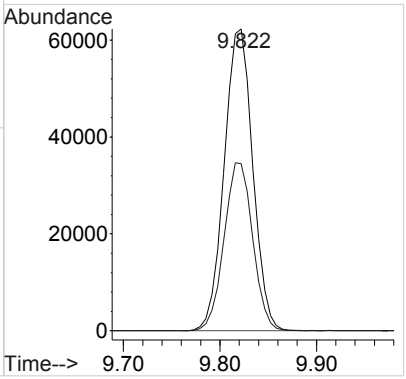




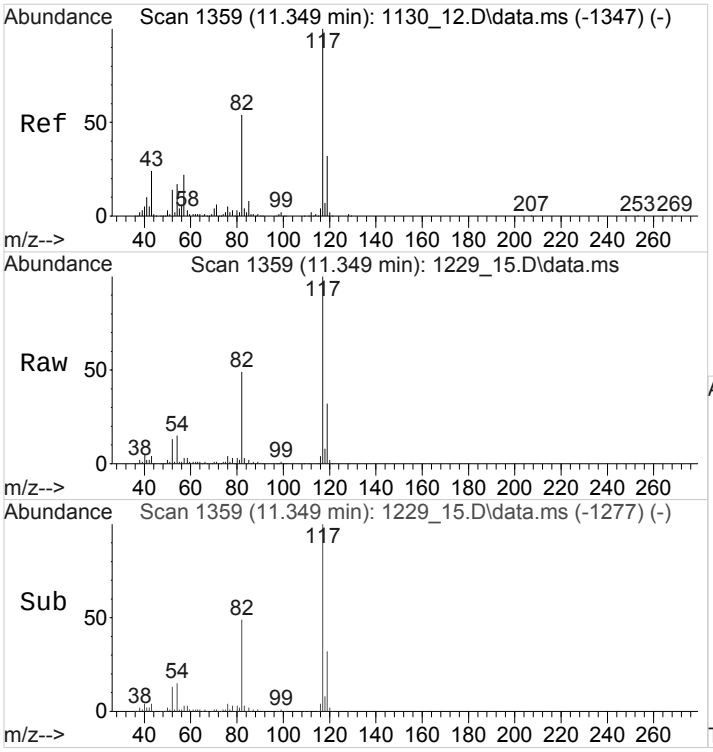
#62
Toluene
Concen: 6.7108634 ppbv
RT: 9.822 min Scan# 1108
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 91 Resp: 128183

Ion	Ratio	Lower	Upper
91	100		
92	55.7	44.1	66.1



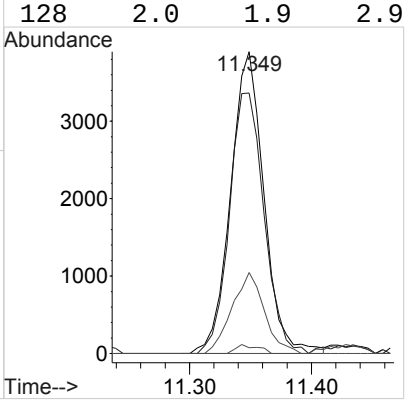
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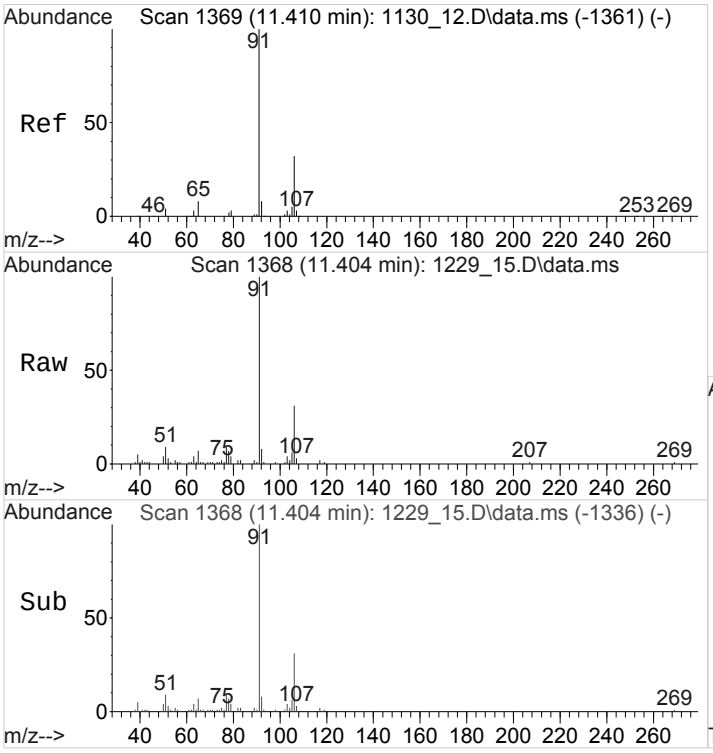


#70
NONANE
Concen: 0.5439990 ppbv
RT: 11.349 min Scan# 1359
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 43 Resp: 7407

Ion	Ratio	Lower	Upper
43	100		
57	89.4	74.6	112.0
71	26.1	20.0	30.0
128	2.0	1.9	2.9

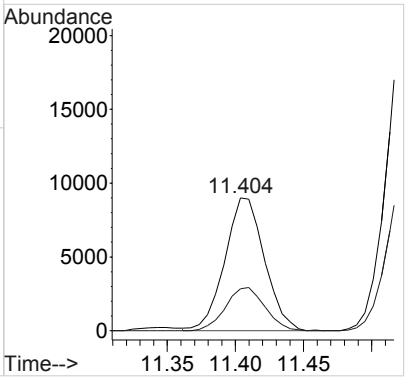




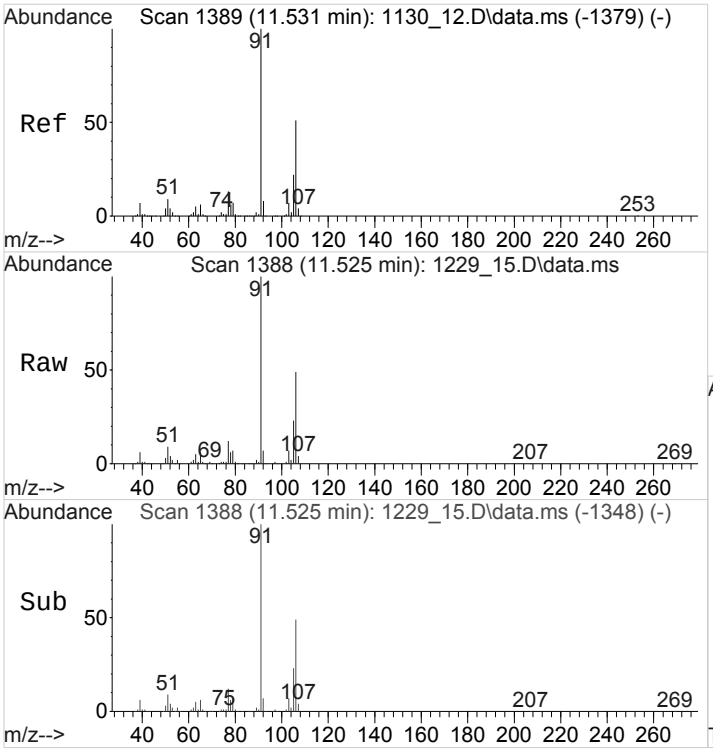
#72
Ethylbenzene
Concen: 0.8233821 ppbv
RT: 11.404 min Scan# 1368
Delta R.T. -0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 91 Resp: 18203

Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.6	38.4



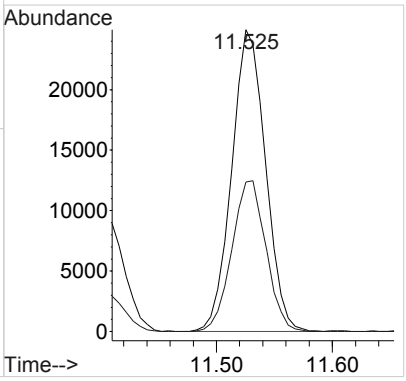
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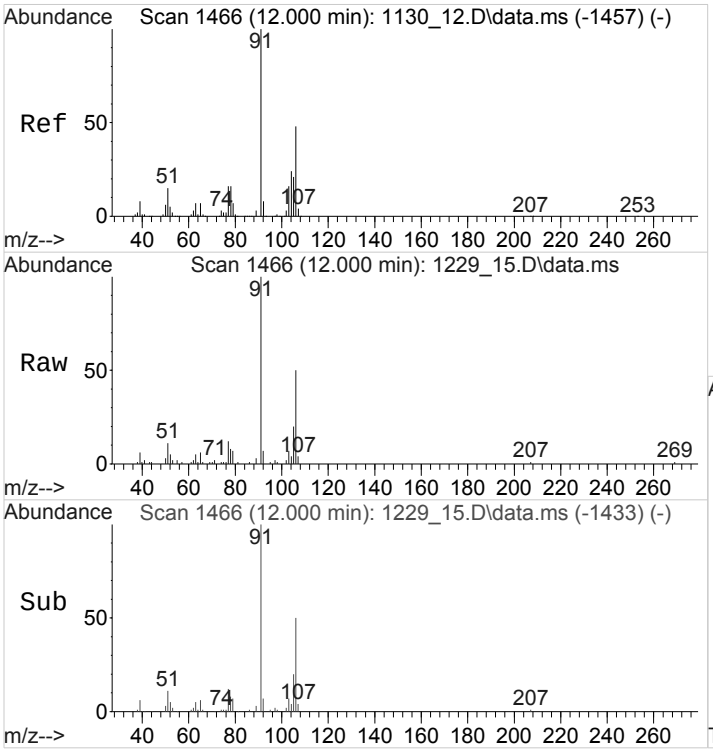


#73
M&P-Xylene
Concen: 2.9233097 ppbv
RT: 11.525 min Scan# 1388
Delta R.T. -0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 91 Resp: 50648

Ion	Ratio	Lower	Upper
91	100		
106	50.4	39.7	59.5

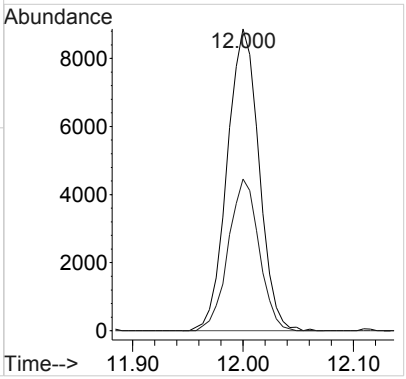




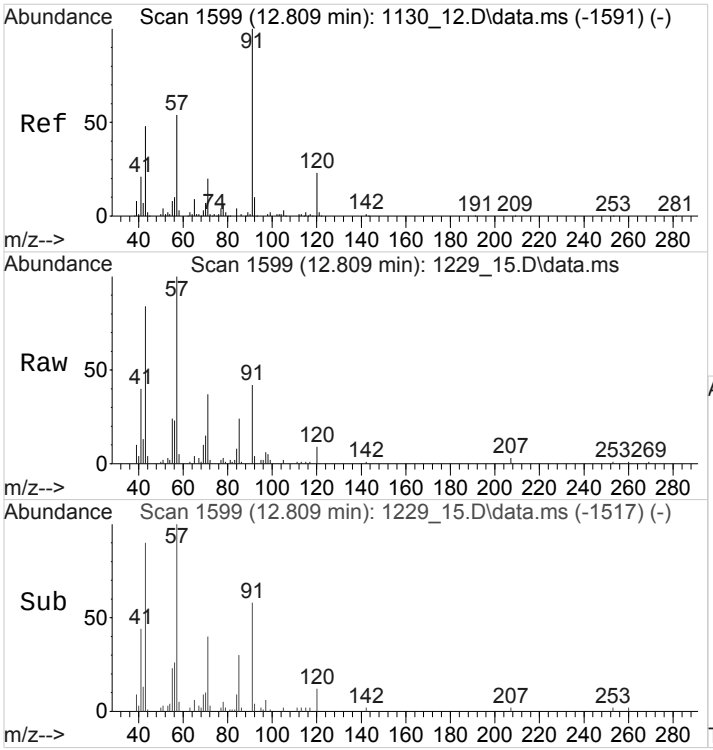
#74
O-Xylene
Concen: 0.9760295 ppbv
RT: 12.000 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 91 Resp: 17836

Ion	Ratio	Lower	Upper
91	100		
106	48.6	38.4	57.6



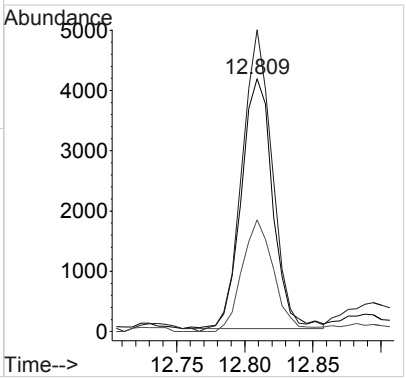
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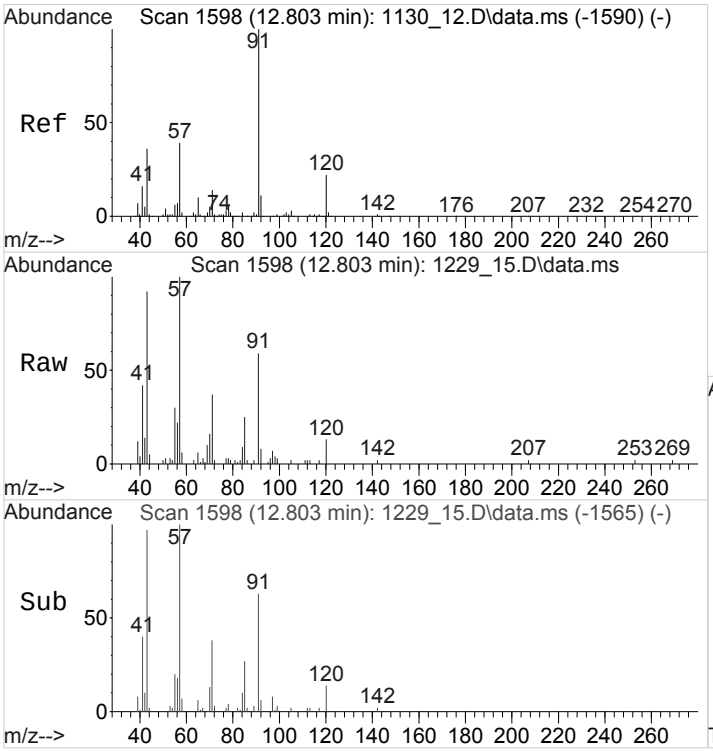


#80
n-DECANE
Concen: 0.5745561 ppbv
RT: 12.809 min Scan# 1599
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 43 Resp: 6650

Ion	Ratio	Lower	Upper
43	100		
57	116.1	89.7	134.5
71	45.0	34.1	51.1

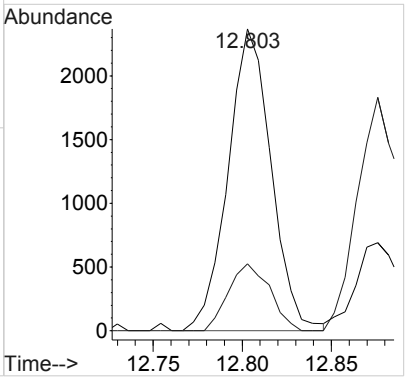


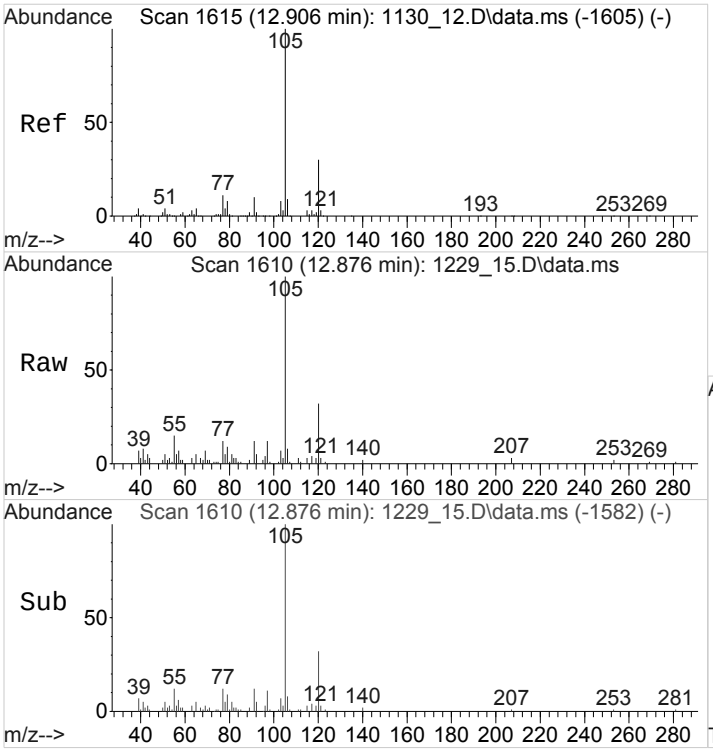


#82
n-Propylbenzene
Concen: 0.1425240 ppbv
RT: 12.803 min Scan# 1598
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion: 91 Resp: 3985

Ion	Ratio	Lower	Upper
91	100		
120	21.3	17.8	26.6

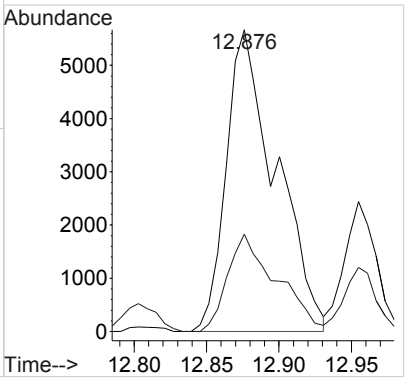


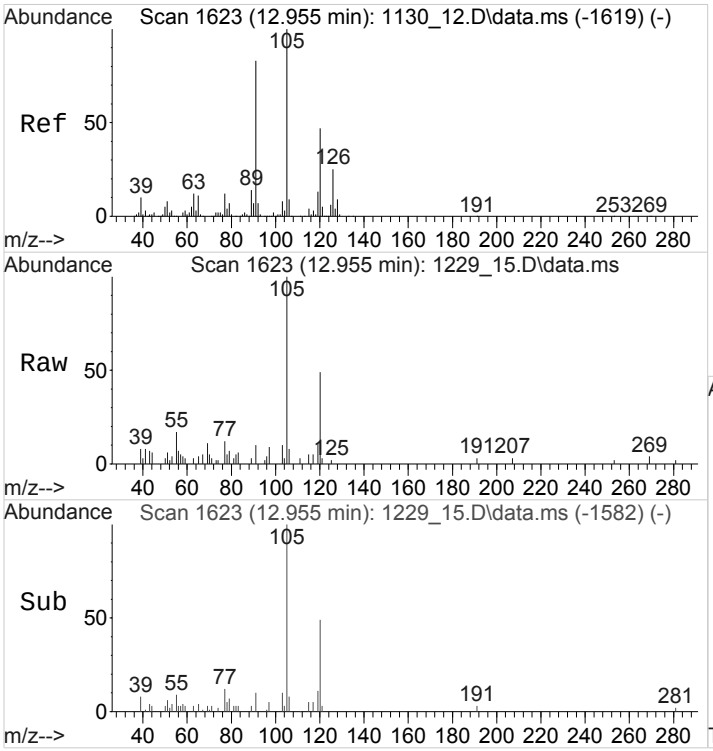


#83
4-Ethyltoluene
Concen: 0.5880575 ppbv
RT: 12.876 min Scan# 1610
Delta R.T. -0.030 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion:105 Resp: 13502

Ion	Ratio	Lower	Upper
105	100		
120	31.7	24.6	36.8

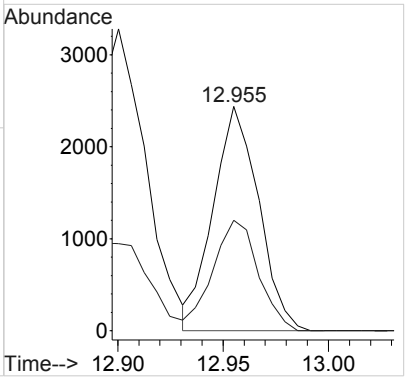




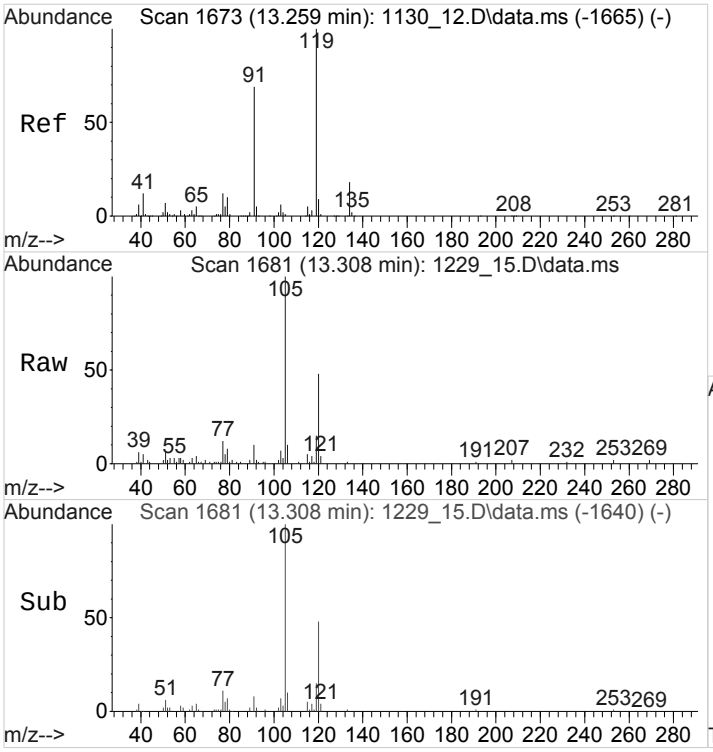
#86
1,3,5-Trimethylbenzene
Concen: 0.1938960 ppbv
RT: 12.955 min Scan# 1623
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion:105 Resp: 3668

Ion	Ratio	Lower	Upper
105	100		
120	49.2	37.7	56.5



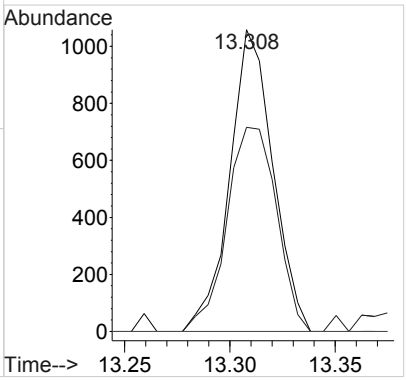
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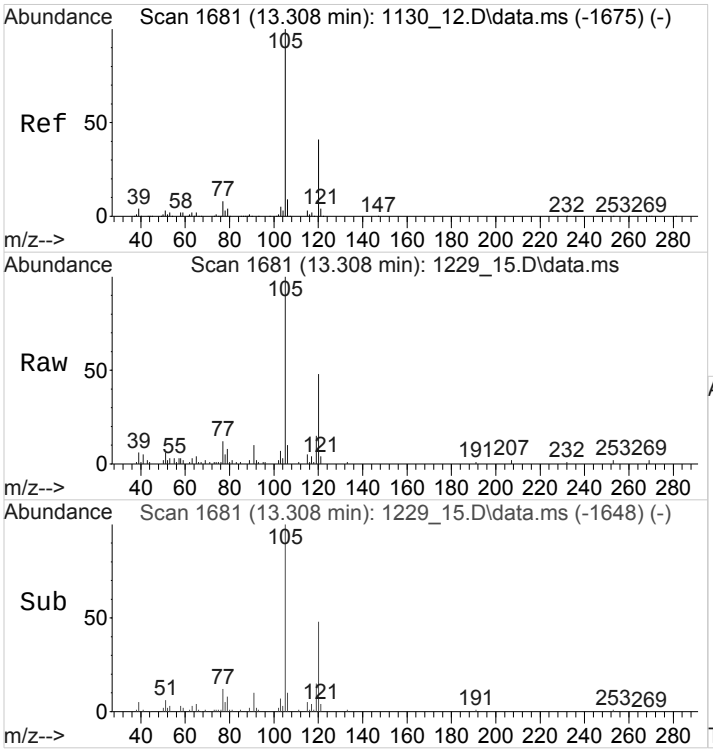


#87
Tert-Butylbenzene
Concen: 0.0863466 ppbv
RT: 13.308 min Scan# 1681
Delta R.T. 0.049 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion:119 Resp: 1511

Ion	Ratio	Lower	Upper
119	100		
91	78.0	55.4	83.2
134	0.0	13.8	20.6#

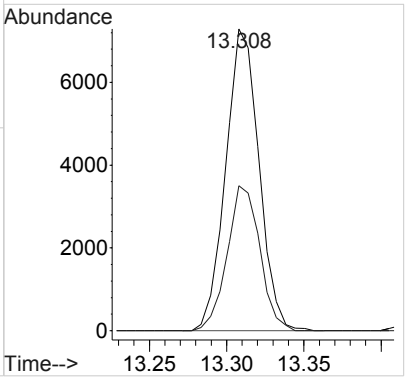


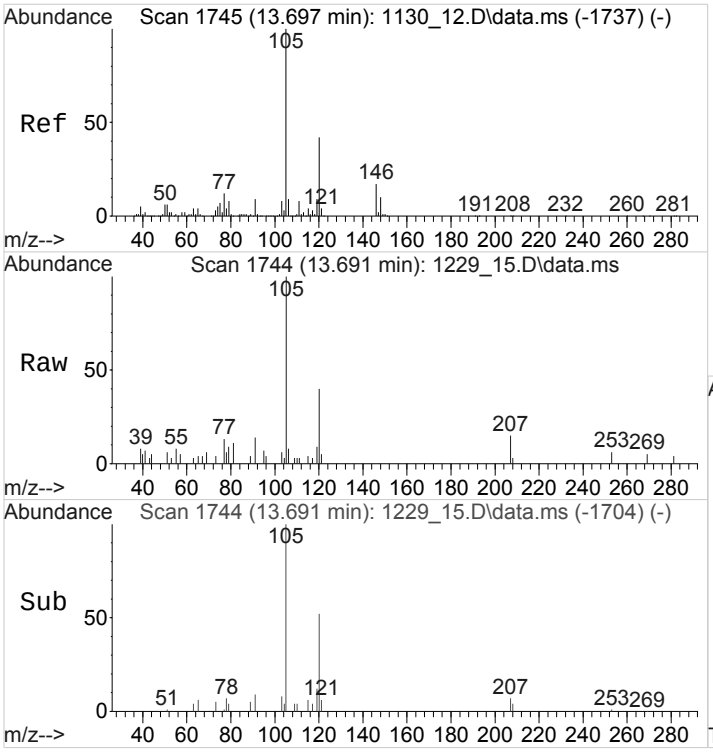


#88
1,2,4-Trimethylbenzene
Concen: 0.5917289 ppbv
RT: 13.308 min Scan# 1681
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion:105 Resp: 10928

Ion	Ratio	Lower	Upper
105	100		
120	47.1	35.9	53.9

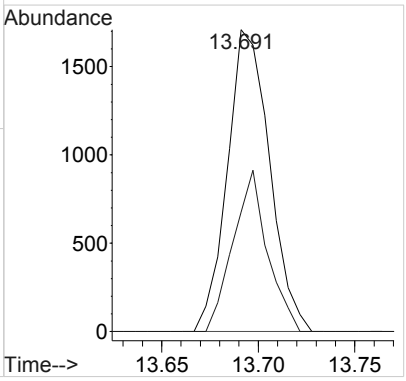


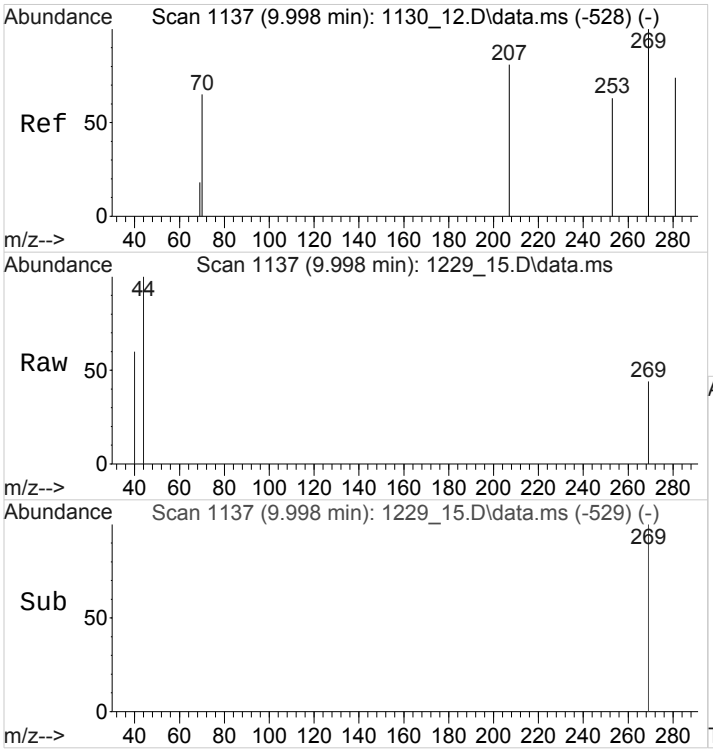


#93
1,2,3-TRIMETHYLBENZENE
Concen: 0.1449567 ppbv
RT: 13.691 min Scan# 1744
Delta R.T. -0.006 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion:105 Resp: 2604

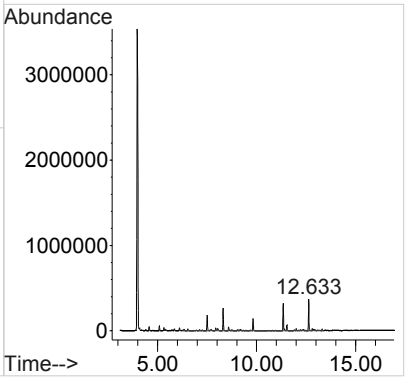
Ion	Ratio	Lower	Upper
105	100		
120	43.4	34.0	51.0



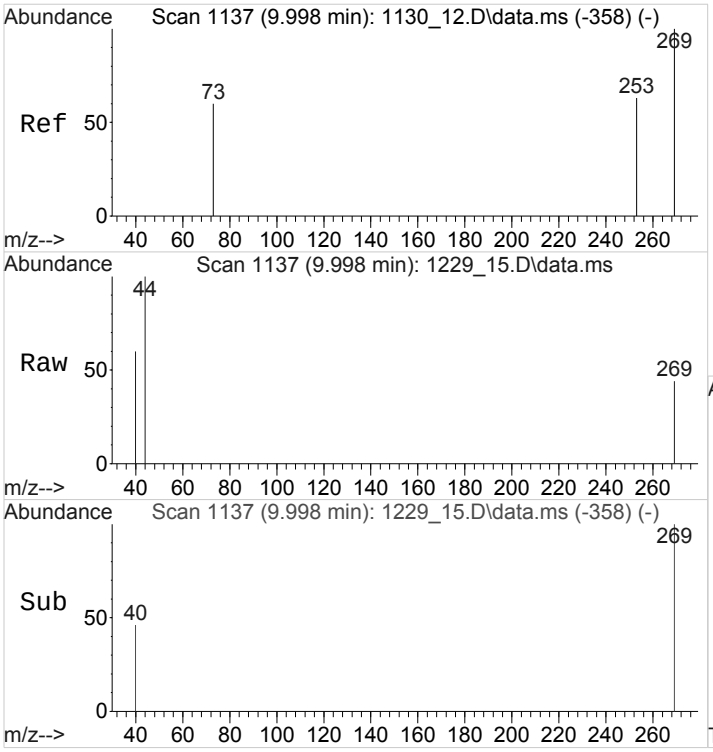


#101
TPH (GC/MS) Low Fraction
Concen: 54.0394163 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion:TIC Resp: 1854437

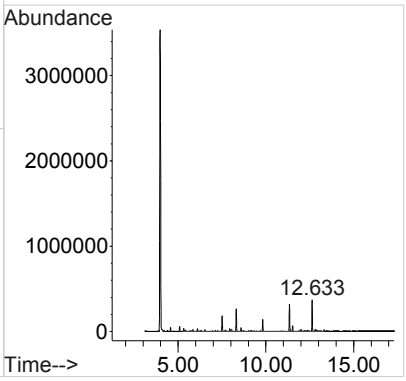


ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	65 of 500



#102
TPH-GRO (C5-C10)
Concen: 74.9451541 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_15.D
Acq: 29 Dec 2022 8:56 pm

Tgt Ion:TIC Resp: 2170476



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	66 of 500

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
785-VMP-2_1222-A

Lab Sample ID:	L1570581-03	**SDG:**	L1570581
Client Sample ID:	785-VMP-2_1222-A	**Collected Date/Time:**	12/21/22 15:45
Lab File ID:	1229_16	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 21:38
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 21:38
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.82	9.39		1.39	2.85	5.70
Benzene	71-43-2	8.03	5.02		0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	6.06	1.14	J	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	0	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	1.24		0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	7.28	0.622	J	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	6.40	0.367	J	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	11.41	3.39		0.362	0.867	1.73
4-Ethyltoluene	622-96-8	12.88	2.57		0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.40	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	2.36	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	2.75	J	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	6.20	0.431	J	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	4.33		0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	9.58	0.438	J	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	10.39	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	9.82	27.5		0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
785-VMP-2_1222-A

Lab Sample ID:	L1570581-03	**SDG:**	L1570581
Client Sample ID:	785-VMP-2_1222-A	**Collected Date/Time:**	12/21/22 15:45
Lab File ID:	1229_16	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 21:38
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 21:38
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.59	13.8		0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	13.31	2.89		0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	12.95	0.854	J	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	11.8		0.585	1.30	2.60
o-Xylene	95-47-6	12	4.06		0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_16.D
Acq On : 29 Dec 2022 9:38 pm
Operator :
Sample : L1570581-03 1x WG1980894
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 31 07:30:56 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	73512	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	266174	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	231953	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	139264	3.5187977	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 87.97%				
Target Compounds							Qvalue
3) BUTANE	4.572	43	53368	7.9115583	ppbv		100
4) 1,1-DIFLUOROETHANE	4.189	51	3042	0.5247988	ppbv		99
5) Dichlorodifluoromethane	4.219	85	5958	0.4776887	ppbv		99
6) CHLORODIFLUOROMETHANE	4.231	51	1644	0.2338514	ppbv		99
8) Chloromethane	4.481	50	2694	0.6008430	ppbv		100
13) ISOPENTANE	5.089	43	34782	7.4650526	ppbv		93
15) Trichlorofluoromethane	5.284	101	2599	0.2489249	ppbv		99
16) PENTANE	5.320	43	33078	3.4514266	ppbv		100
17) Ethanol	5.399	45	19483	8.2559703	ppbv		97
18) ACROLEIN	5.722	56	1580	0.7212536	ppbv		93
19) 1,1,2-Trichlorotrifluo...	5.697	101	4054	0.3588936	ppbv		95
21) Acetone	5.819	43	31831	3.9459466	ppbv		93
23) 2-Propanol	5.843	45	19387	2.1765323	ppbv	#	24
24) Carbon Disulfide	6.056	76	7333	0.3673737	ppbv		99
26) METHYL ACETATE	6.105	43	30855	3.4427811	ppbv	#	54
27) ACETONITRILE	6.105	41	13205	2.6489711	ppbv	#	64
28) Methylene Chloride	6.202	49	689	0.1238995	ppbv	#	84
29) TERT-BUTYL ALCOHOL	6.178	59	1893	0.2018703	ppbv	#	1
31) Trans-1,2-Dichloroethene	6.403	61	744	0.0924947	ppbv	#	13
33) n-Hexane	6.525	57	14542	1.9409145	ppbv		94
36) DI-ISOPROPYL ETHER	6.853	45	2354	0.1550665	ppbv	#	69
39) 2-Butanone (MEK)	7.236	72	3636	1.4741770	ppbv		95
40) cis-1,2-Dichloroethene	7.279	61	1199	0.1565553	ppbv	#	79
43) Cyclohexane	7.723	84	3859	0.6432047	ppbv	#	13
46) 2,2,4-Trimethylpentane	7.942	57	46109	1.8697347	ppbv		95
48) Benzene	8.033	78	23563	1.5692437	ppbv		100
51) Heptane	8.052	43	8256	1.0020150	ppbv		97
52) Trichloroethene	8.587	95	18842	2.5665525	ppbv		91
54) METHYL CYCLOHEXANE	8.733	83	5559	0.5600825	ppbv	#	91
60) 4-Methyl-2-Pentanone (...	9.579	43	1149	0.1072519	ppbv		92
61) n-OCTANE	9.712	43	4099	0.3162979	ppbv		95
62) Toluene	9.822	91	140188	7.2851332	ppbv		99
65) Tetrachloroethene	10.394	166	517	0.0538431	ppbv		93
70) NONANE	11.349	43	7075	0.5157757	ppbv		97
72) Ethylbenzene	11.410	91	17359	0.7816305	ppbv		99
73) M&P-Xylene	11.525	91	47451	2.7263160	ppbv		97
74) O-Xylene	12.000	91	17179	0.9357970	ppbv		100
80) n-DECANE	12.809	43	6146	0.5285933	ppbv		96
82) n-Propylbenzene	12.803	91	3621	0.1289159	ppbv		97
83) 4-Ethyltoluene	12.876	105	12051	0.5224721	ppbv		97
86) 1,3,5-Trimethylbenzene	12.955	105	3302	0.1737540	ppbv		92
87) Tert-Butylbenzene	13.308	119	1441	0.0819716	ppbv	#	82
88) 1,2,4-Trimethylbenzene	13.308	105	10920	0.5886037	ppbv		99
93) 1,2,3-TRIMETHYLBENZENE	13.691	105	2476	0.1372038	ppbv		96
101) TPH (GC/MS) Low Fraction	10.000	TIC	2142110m	62.1382092	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	2564805m	88.1579137	ppbv		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_16.D
Acq On : 29 Dec 2022 9:38 pm
Operator :
Sample : L1570581-03 1x WG1980894
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 31 07:30:56 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

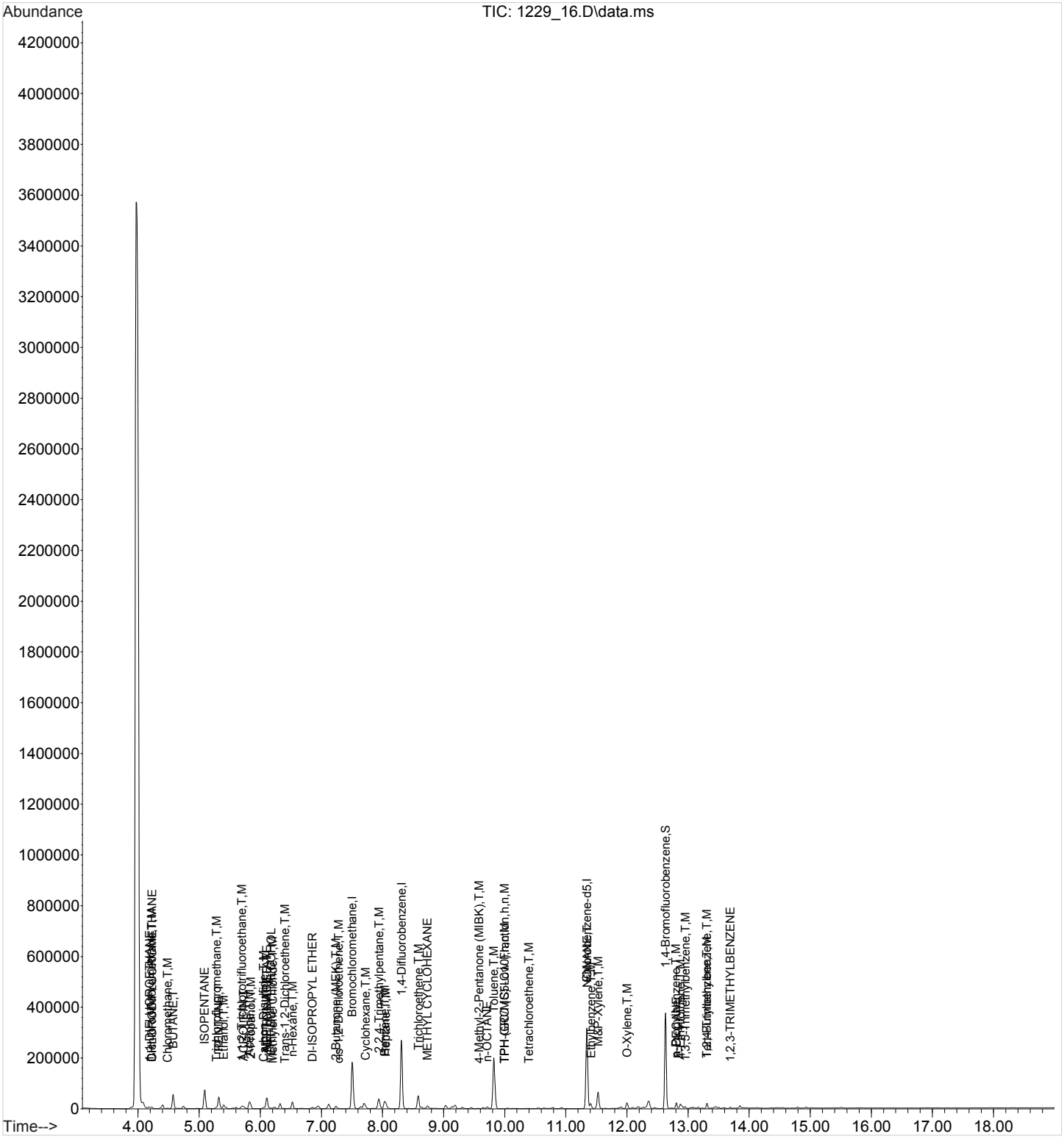
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

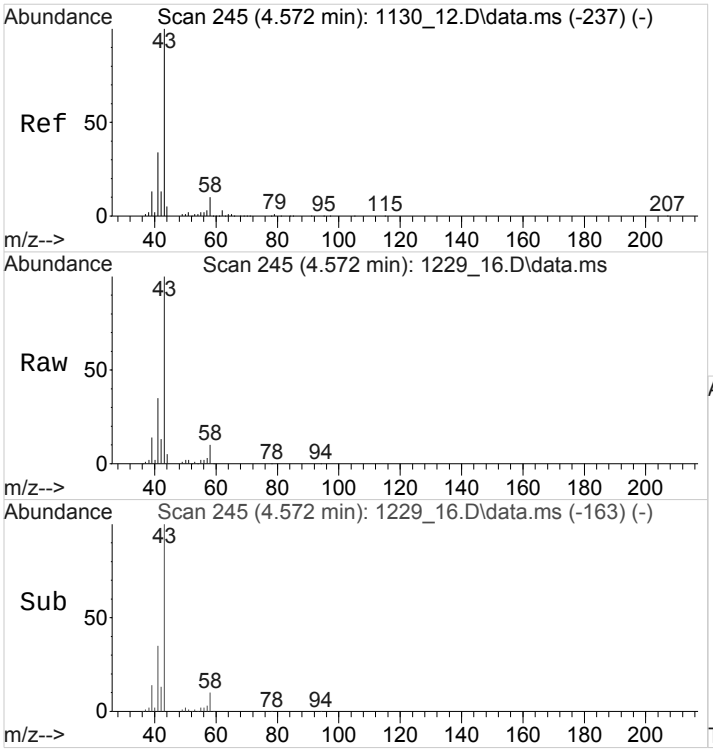
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_16.D
Acq On : 29 Dec 2022 9:38 pm
Operator :
Sample : L1570581-03 1x WG1980894
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 31 07:30:56 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

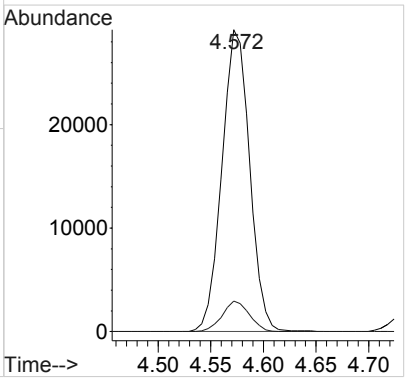


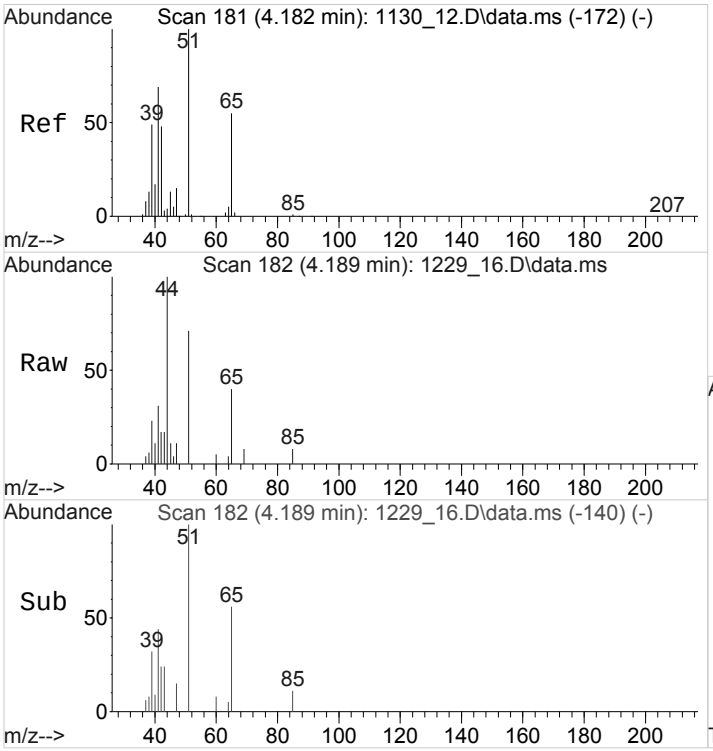


#3
BUTANE
Concen: 7.9115583 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 43 Resp: 53368

Ion	Ratio	Lower	Upper
43	100		
58	9.8	8.0	12.0

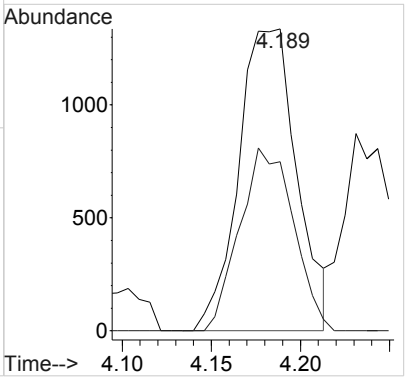




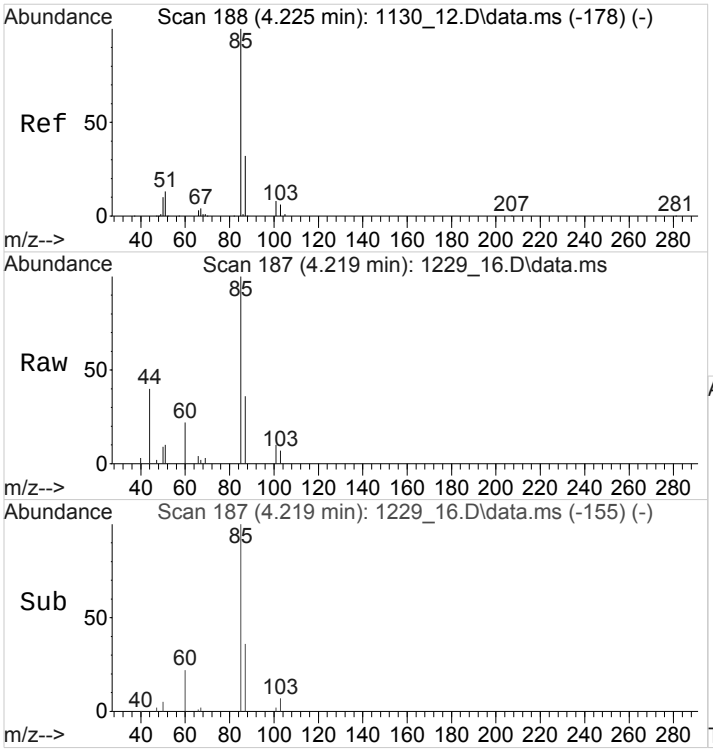
#4
1,1-DIFLUOROETHANE
Concen: 0.5247988 ppbv
RT: 4.189 min Scan# 182
Delta R.T. 0.006 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 51 Resp: 3042

Ion	Ratio	Lower	Upper
51	100		
65	55.8	44.1	66.1



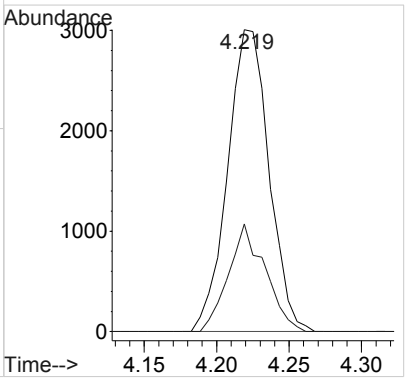
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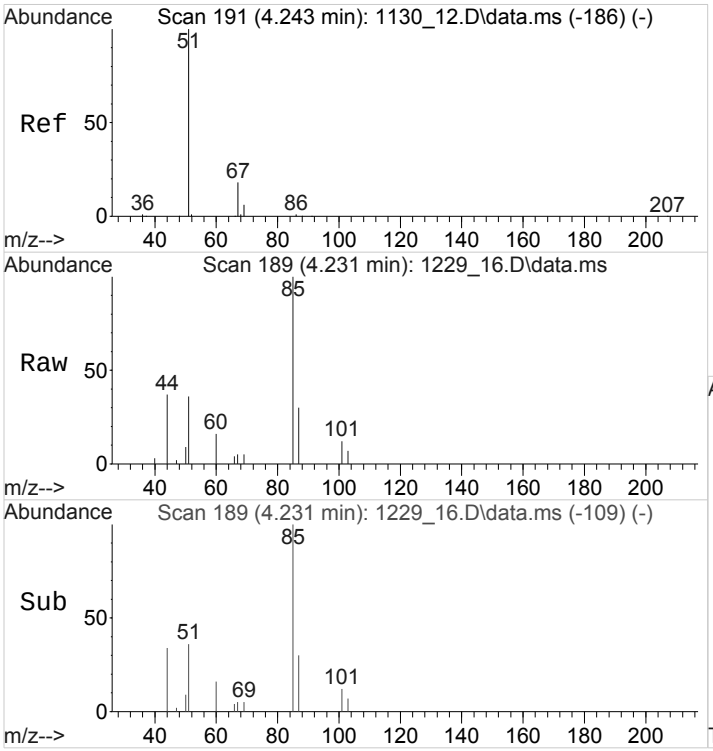


#5
Dichlorodifluoromethane
Concen: 0.4776887 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 85 Resp: 5958

Ion	Ratio	Lower	Upper
85	100		
87	31.6	25.8	38.6

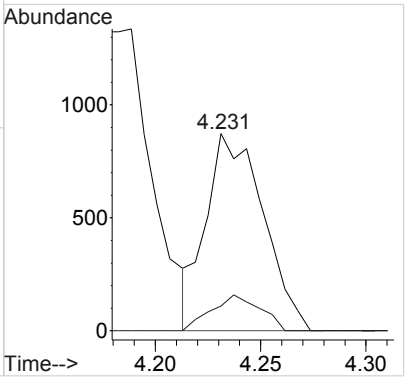




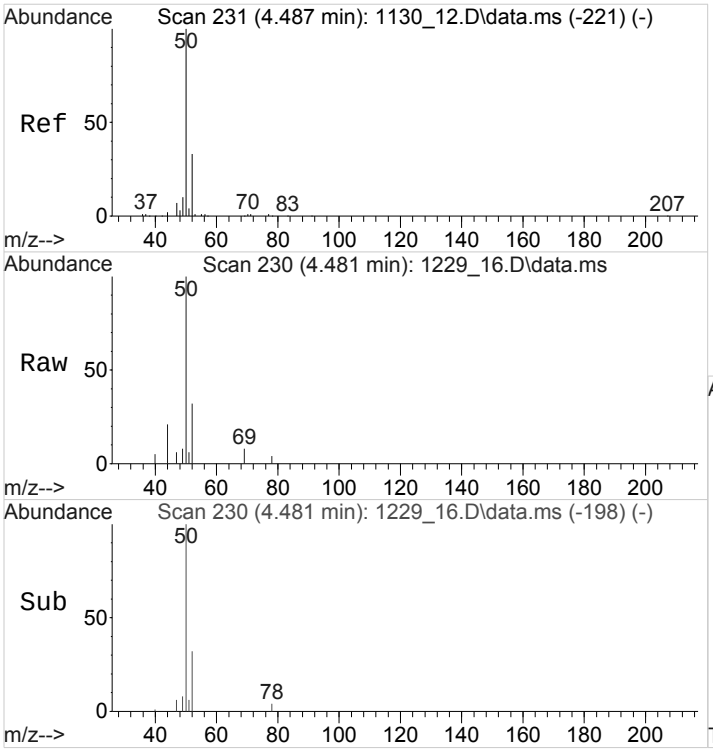
#6
CHLORODIFLUOROMETHANE
Concen: 0.2338514 ppbv
RT: 4.231 min Scan# 189
Delta R.T. -0.012 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 51 Resp: 1644

Ion	Ratio	Lower	Upper
51	100		
67	15.6	13.0	19.4



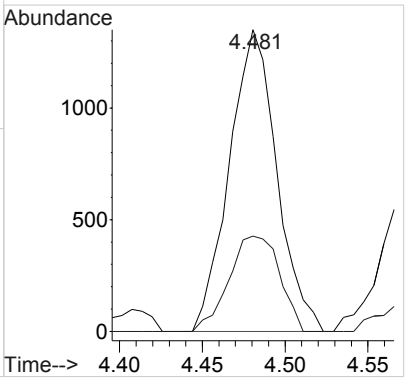
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	73 of 500

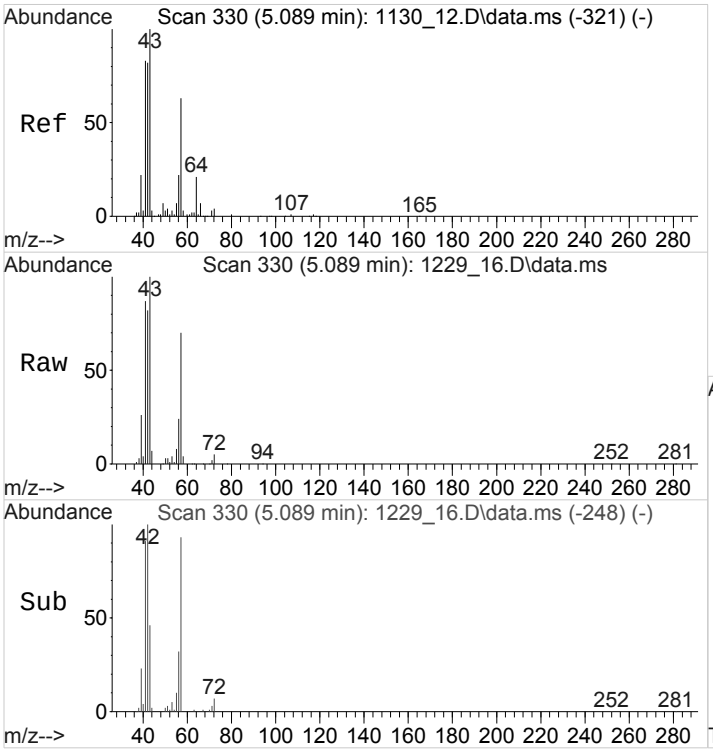


#8
Chloromethane
Concen: 0.6008430 ppbv
RT: 4.481 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 50 Resp: 2694

Ion	Ratio	Lower	Upper
50	100		
52	33.8	27.1	40.7

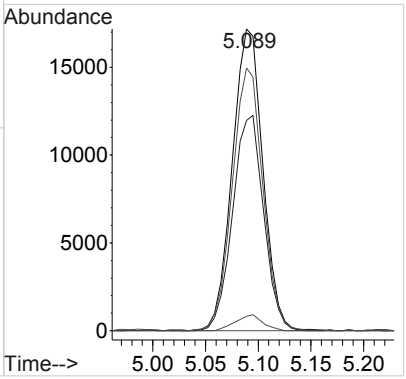


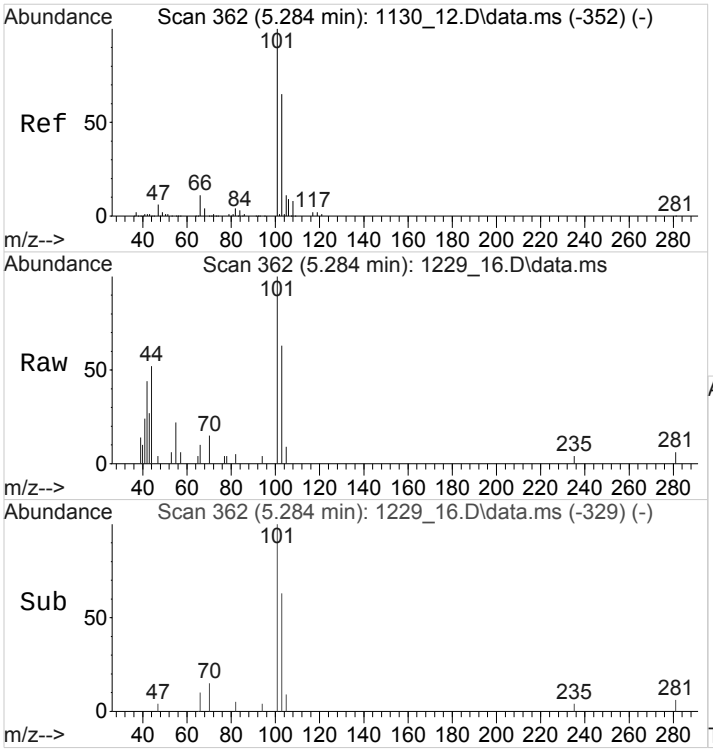


#13
ISOPENTANE
Concen: 7.4650526 ppbv
RT: 5.089 min Scan# 330
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 43 Resp: 34782

Ion	Ratio	Lower	Upper
43	100		
57	72.1	51.7	77.5
41	87.0	66.4	99.6
72	4.7	3.2	4.8

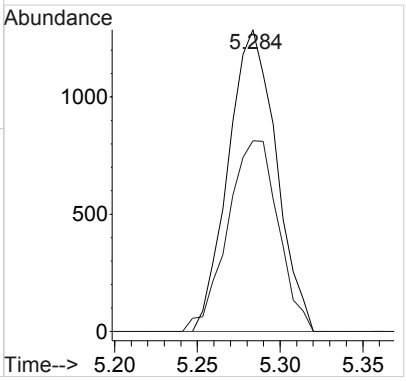


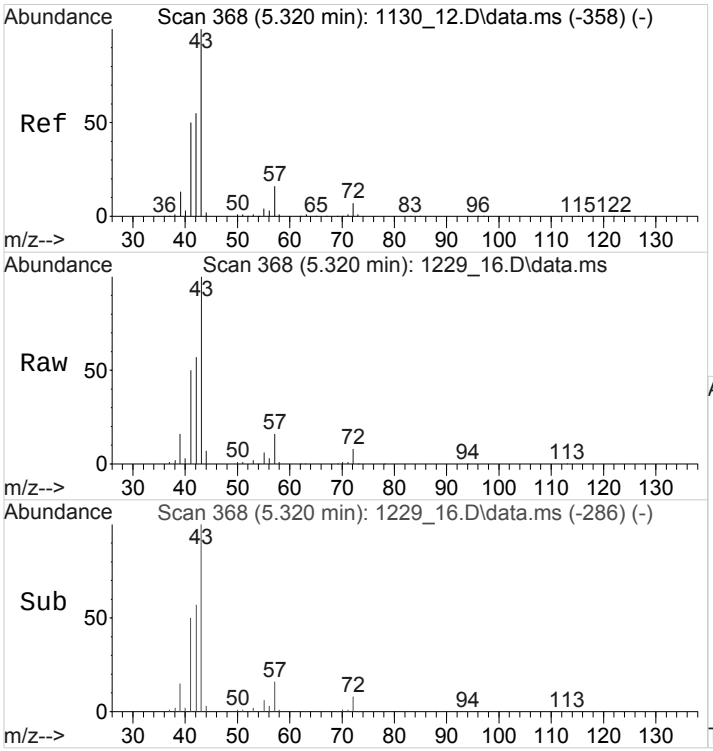


#15
Trichlorofluoromethane
Concen: 0.2489249 ppbv
RT: 5.284 min Scan# 362
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion:101 Resp: 2599

Ion	Ratio	Lower	Upper
101	100		
103	66.8	52.8	79.2

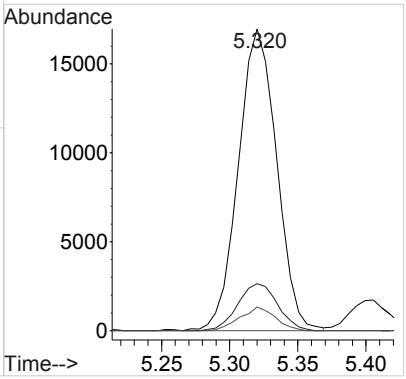




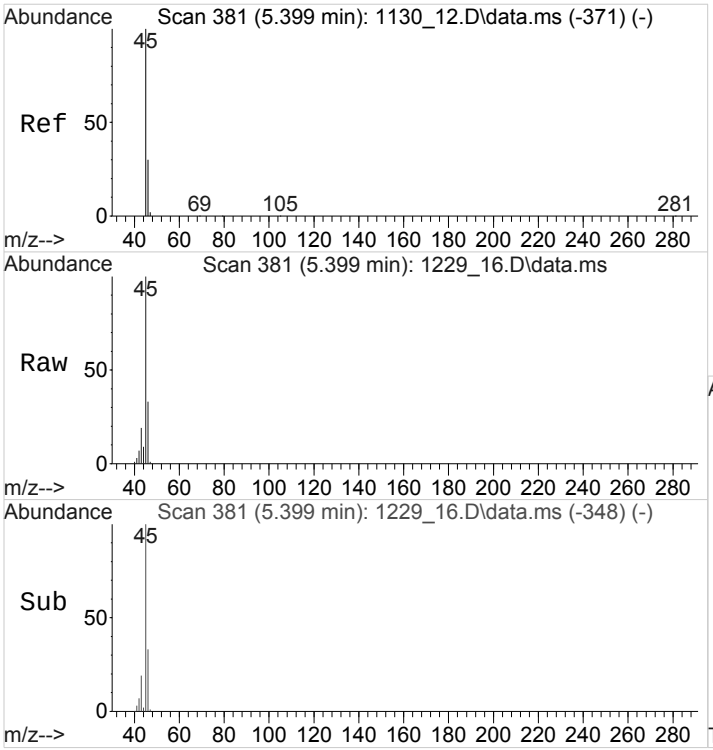
#16
PENTANE
Concen: 3.4514266 ppbv
RT: 5.320 min Scan# 368
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 43 Resp: 33078

Ion	Ratio	Lower	Upper
43	100		
57	16.2	13.0	19.4
72	7.3	5.8	8.8



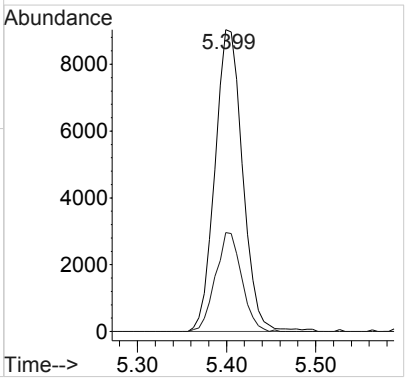
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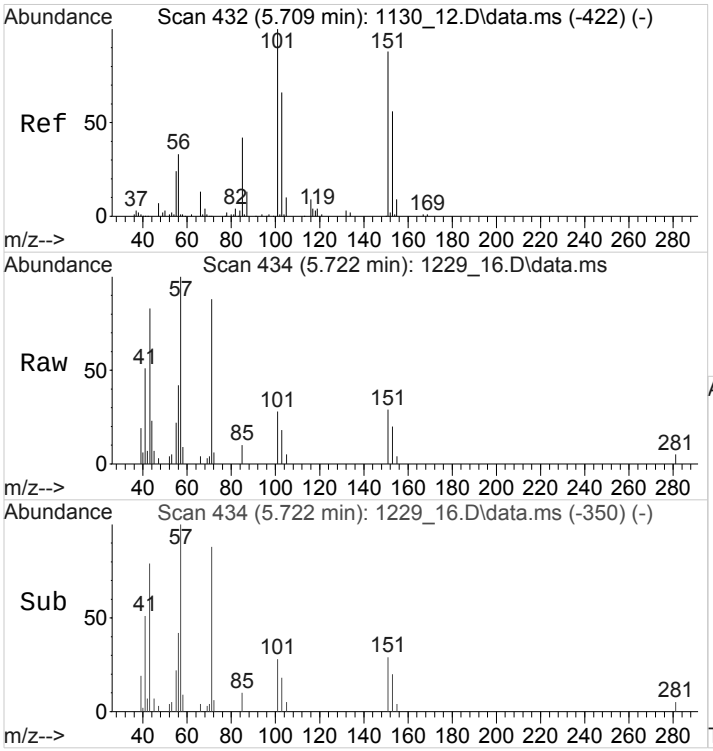


#17
Ethanol
Concen: 8.2559703 ppbv
RT: 5.399 min Scan# 381
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 45 Resp: 19483

Ion	Ratio	Lower	Upper
45	100		
46	31.0	23.6	35.4

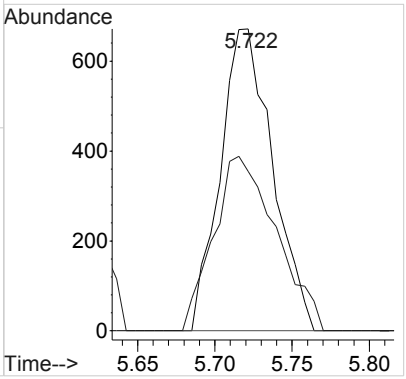


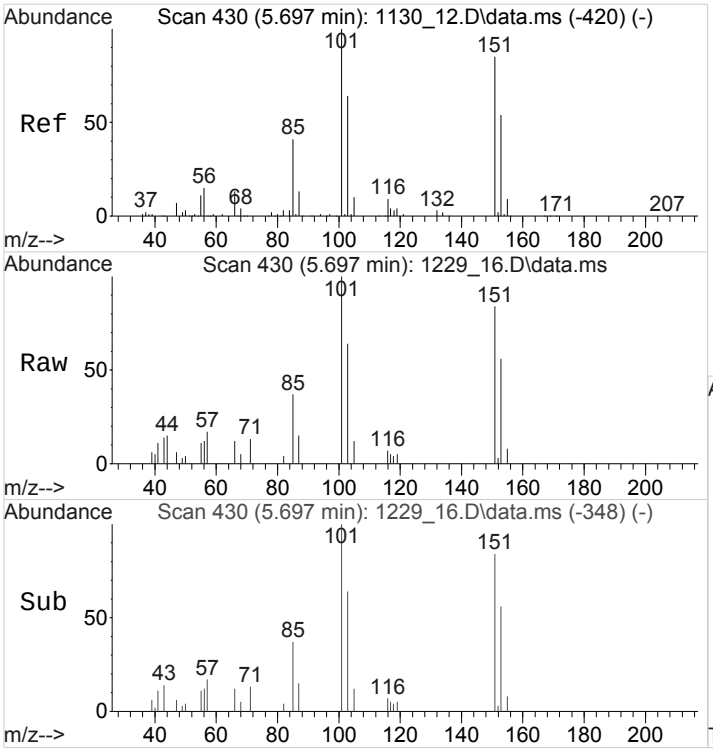


#18
ACROLEIN
Concen: 0.7212536 ppbv
RT: 5.722 min Scan# 434
Delta R.T. 0.012 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 56 Resp: 1580

Ion	Ratio	Lower	Upper
56	100		
55	69.4	60.4	90.6

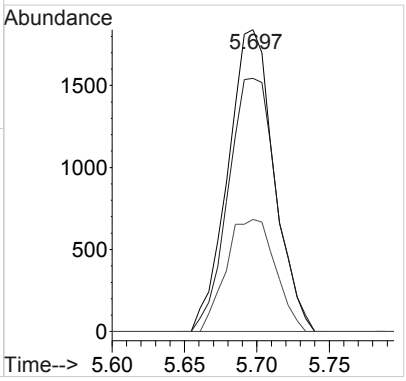


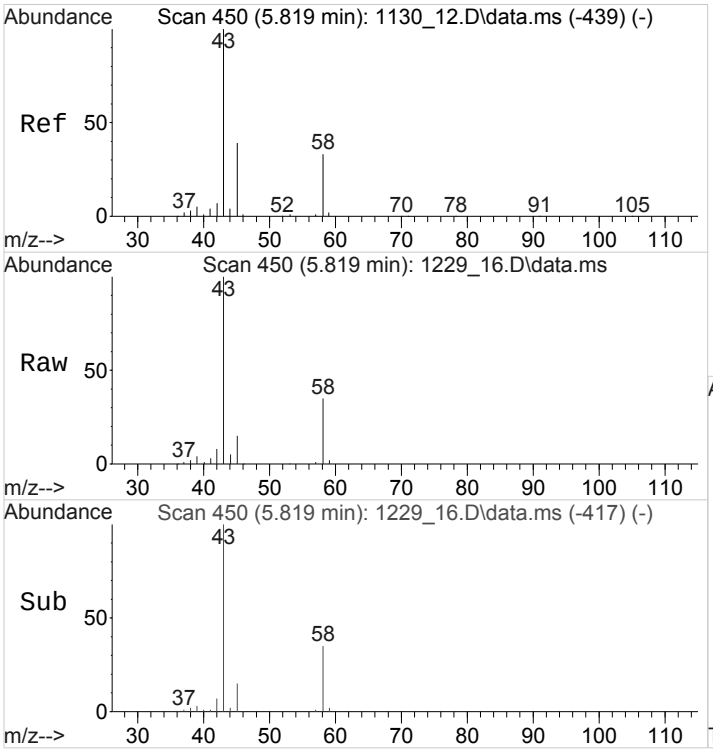


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.3588936 ppbv
RT: 5.697 min Scan# 430
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion:101 Resp: 4054

Ion	Ratio	Lower	Upper
101	100		
151	88.3	67.4	101.2
85	39.8	34.4	51.6

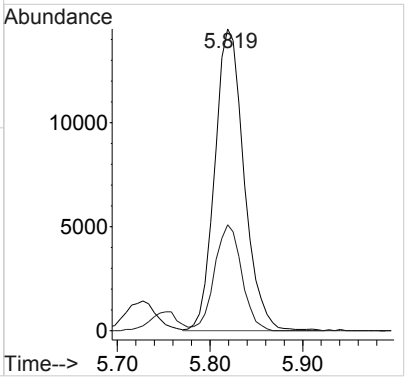




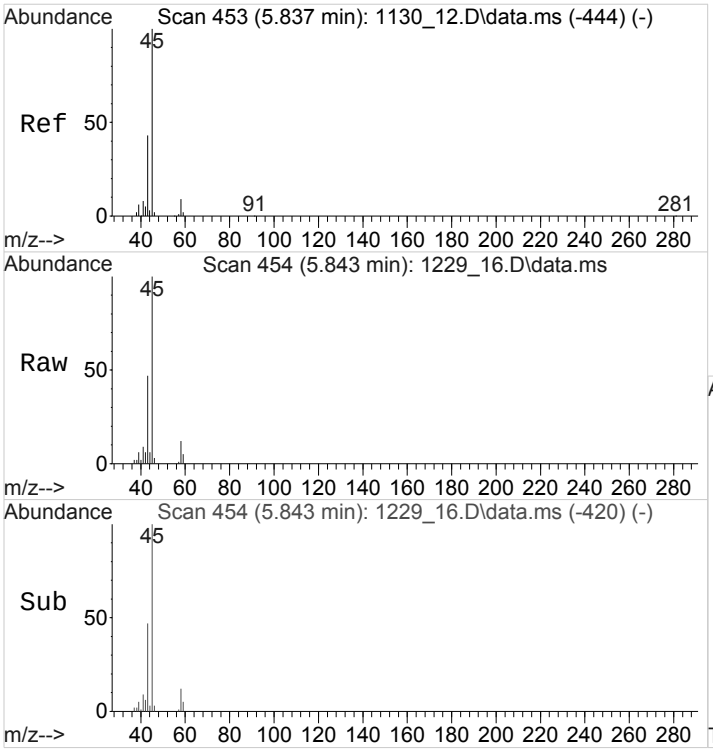
#21
Acetone
Concen: 3.9459466 ppbv
RT: 5.819 min Scan# 450
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 43 Resp: 31831

Ion	Ratio	Lower	Upper
43	100		
58	32.5	23.1	34.7



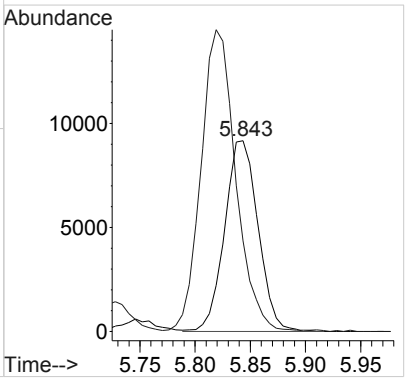
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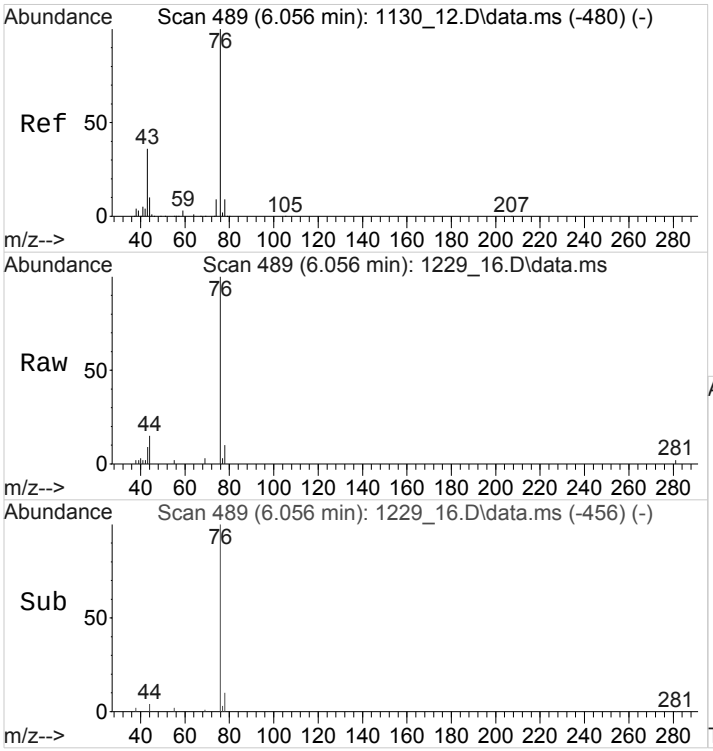


#23
2-Propanol
Concen: 2.1765323 ppbv
RT: 5.843 min Scan# 454
Delta R.T. 0.006 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 45 Resp: 19387

Ion	Ratio	Lower	Upper
45	100		
43	164.2	73.5	110.3#

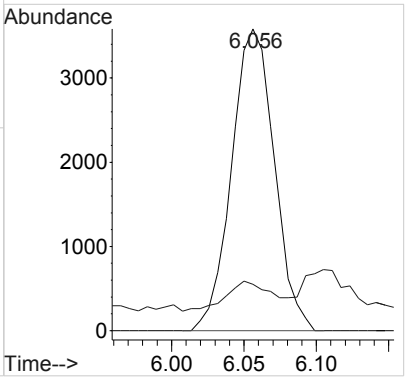




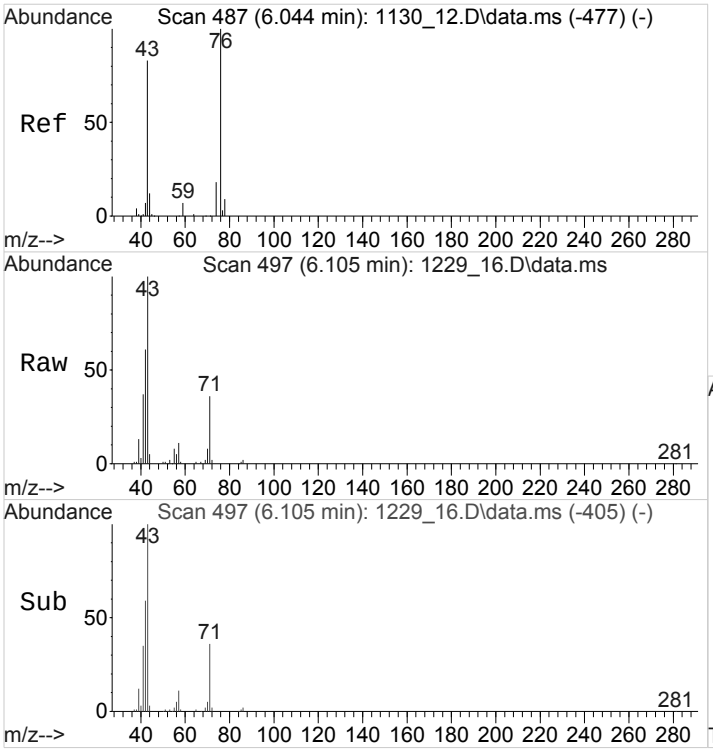
#24
Carbon Disulfide
Concen: 0.3673737 ppbv
RT: 6.056 min Scan# 489
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 76 Resp: 7333

Ion	Ratio	Lower	Upper
76	100		
44	11.0	8.4	12.6



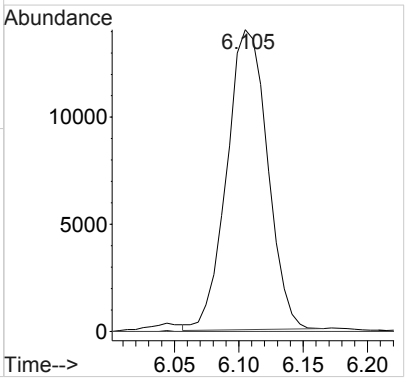
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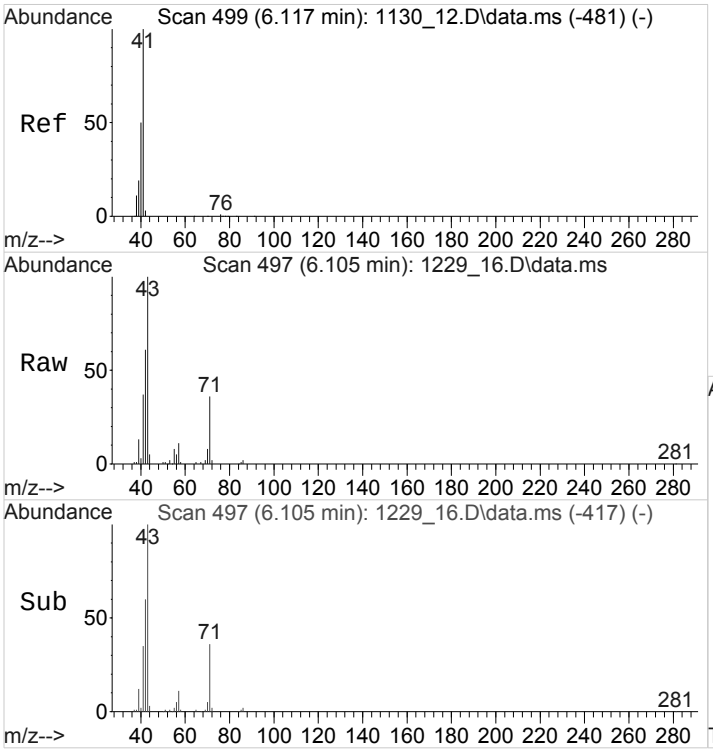


#26
METHYL ACETATE
Concen: 3.4427811 ppbv
RT: 6.105 min Scan# 497
Delta R.T. 0.061 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 43 Resp: 30855

Ion	Ratio	Lower	Upper
43	100		
74	0.1	17.4	26.0#
29	0.0	0.0	0.0

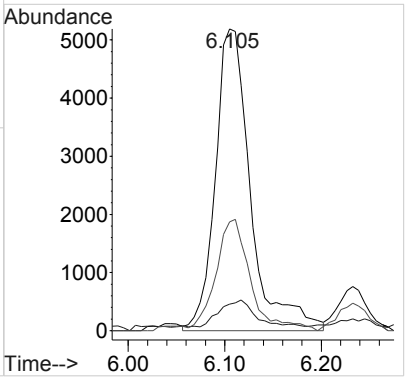


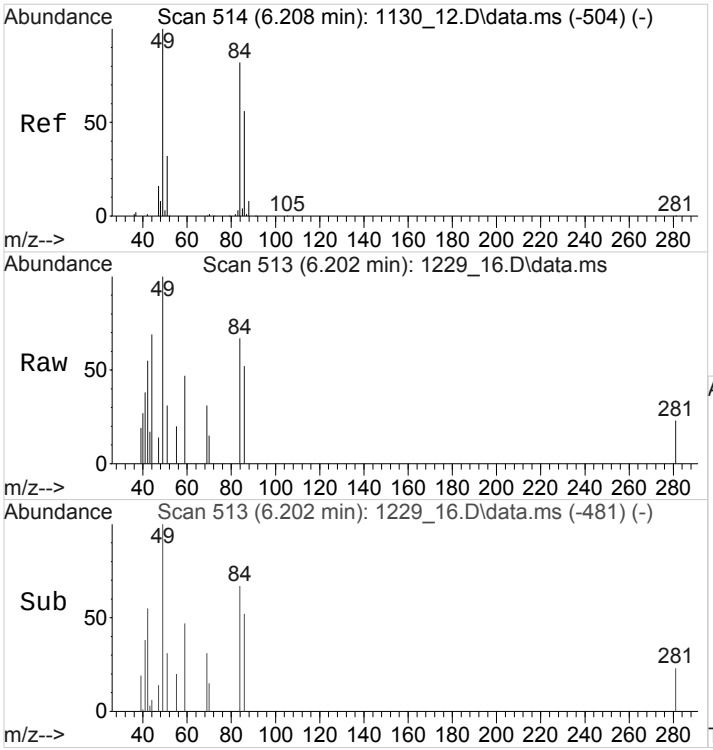


#27
ACETONITRILE
Concen: 2.6489711 ppbv
RT: 6.105 min Scan# 497
Delta R.T. -0.012 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 41 Resp: 13205

Ion	Ratio	Lower	Upper
41	100		
40	8.8	32.7	49.1#
39	36.1	22.7	34.1#

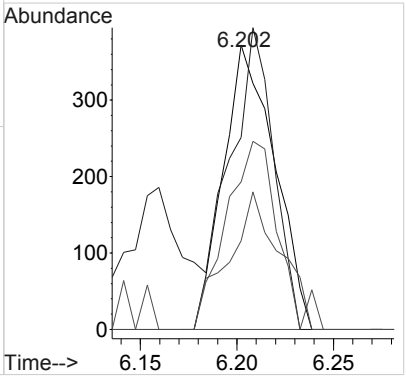


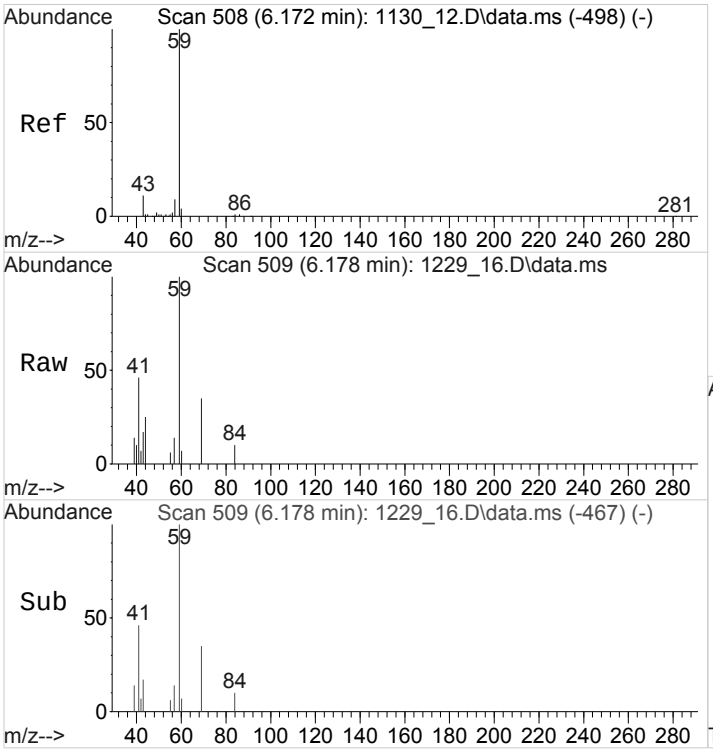


#28
Methylene Chloride
Concen: 0.1238995 ppbv
RT: 6.202 min Scan# 513
Delta R.T. -0.006 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 49 Resp: 689

Ion	Ratio	Lower	Upper
49	100		
84	88.1	65.0	97.6
86	67.1	41.8	62.6#
51	48.5	26.3	39.5#

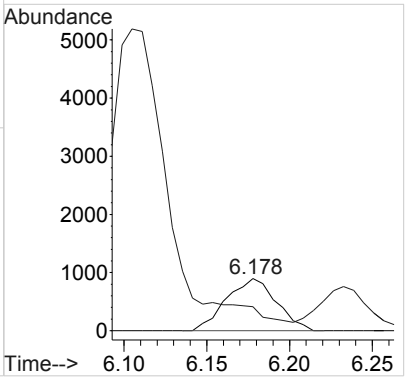




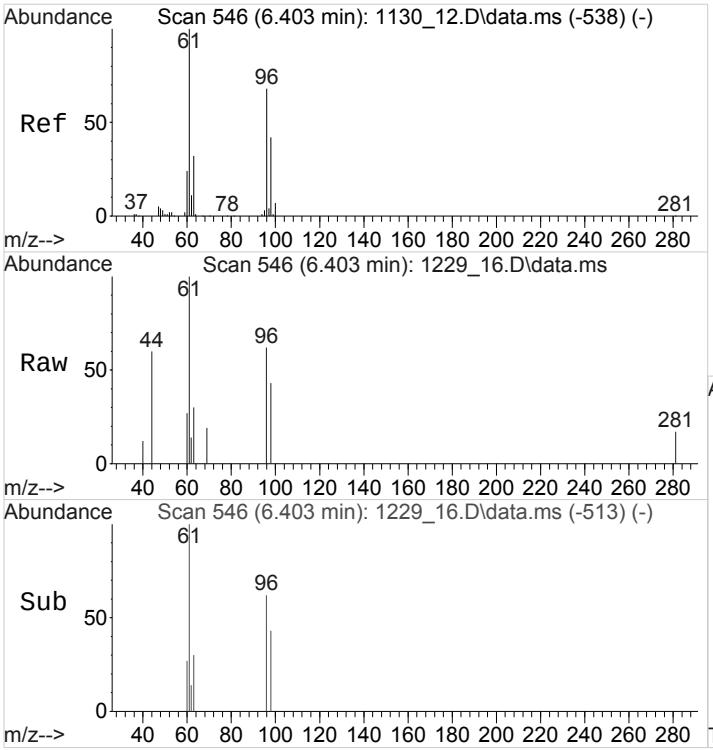
#29
TERT-BUTYL ALCOHOL
Concen: 0.2018703 ppbv
RT: 6.178 min Scan# 509
Delta R.T. 0.006 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 59 Resp: 1893

Ion	Ratio	Lower	Upper
59	100		
41	83.6	216.4	324.6#



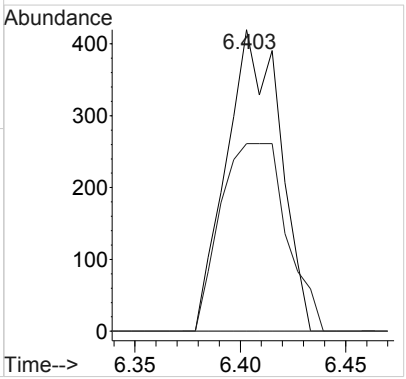
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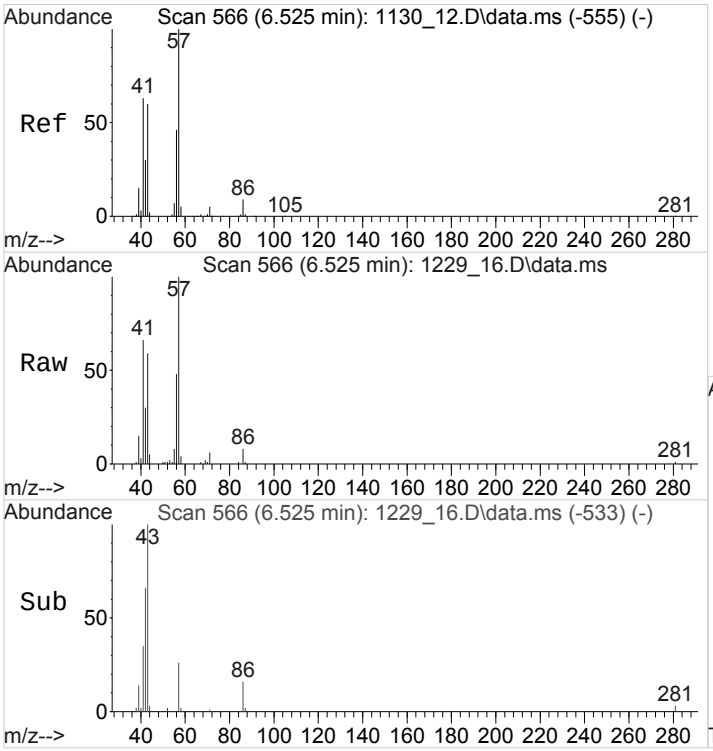


#31
Trans-1,2-Dichloroethene
Concen: 0.0924947 ppbv
RT: 6.403 min Scan# 546
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 61 Resp: 744

Ion	Ratio	Lower	Upper
61	100		
96	76.6	54.1	81.1
73	0.0	124.1	186.1#

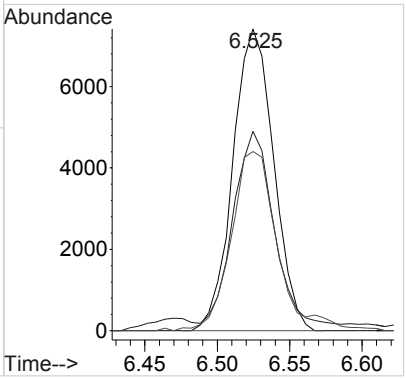




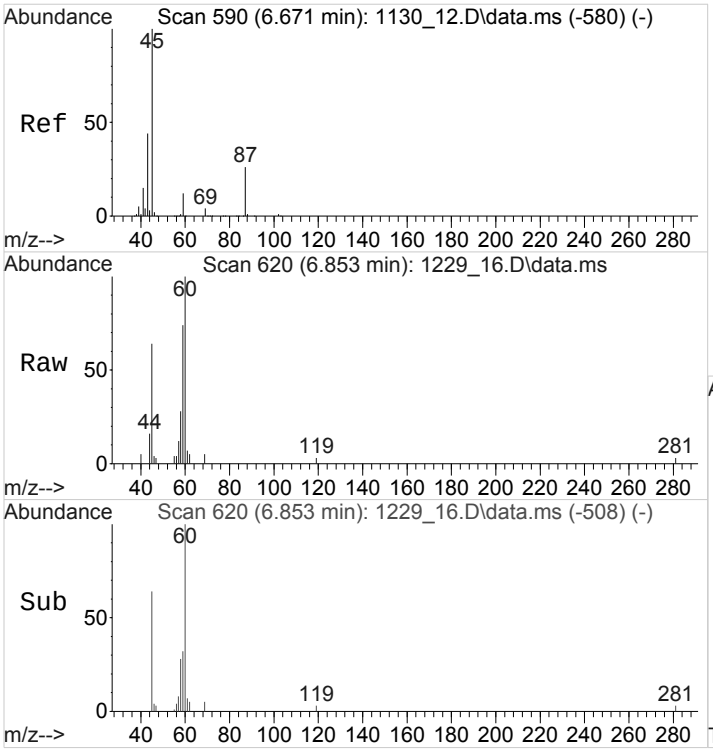
#33
n-Hexane
Concen: 1.9409145 ppbv
RT: 6.525 min Scan# 566
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 57 Resp: 14542

Ion	Ratio	Lower	Upper
57	100		
41	66.8	50.9	76.3
43	67.2	48.4	72.6



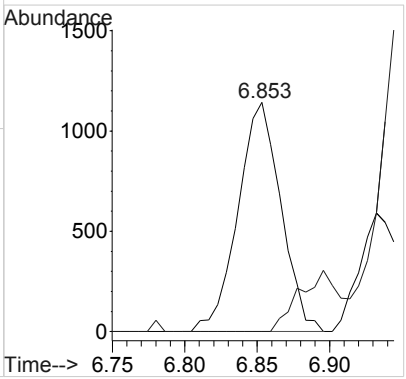
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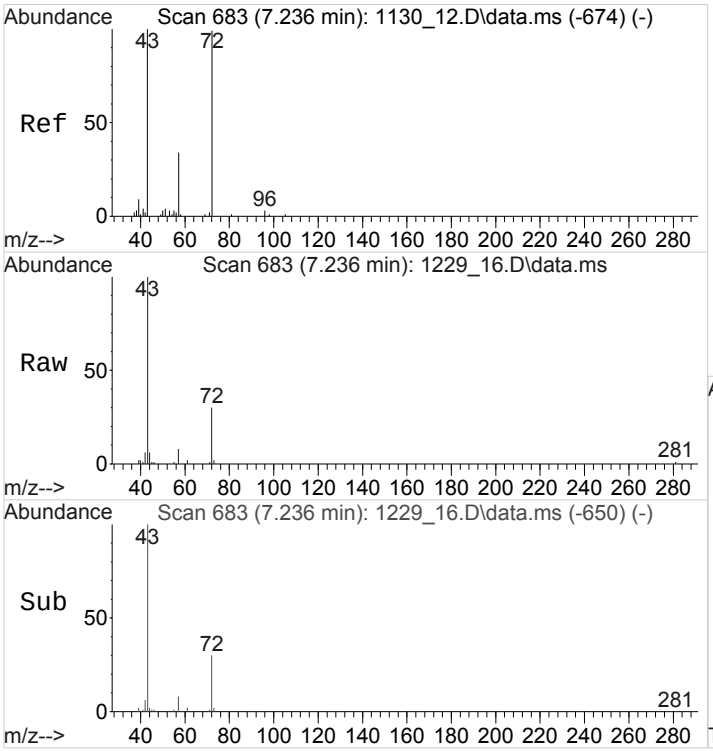


#36
DI-ISOPROPYL ETHER
Concen: 0.1550665 ppbv
RT: 6.853 min Scan# 620
Delta R.T. 0.183 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 45 Resp: 2354

Ion	Ratio	Lower	Upper
45	100		
43	25.7	36.7	55.1#

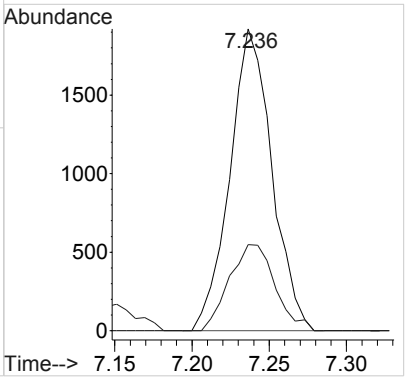




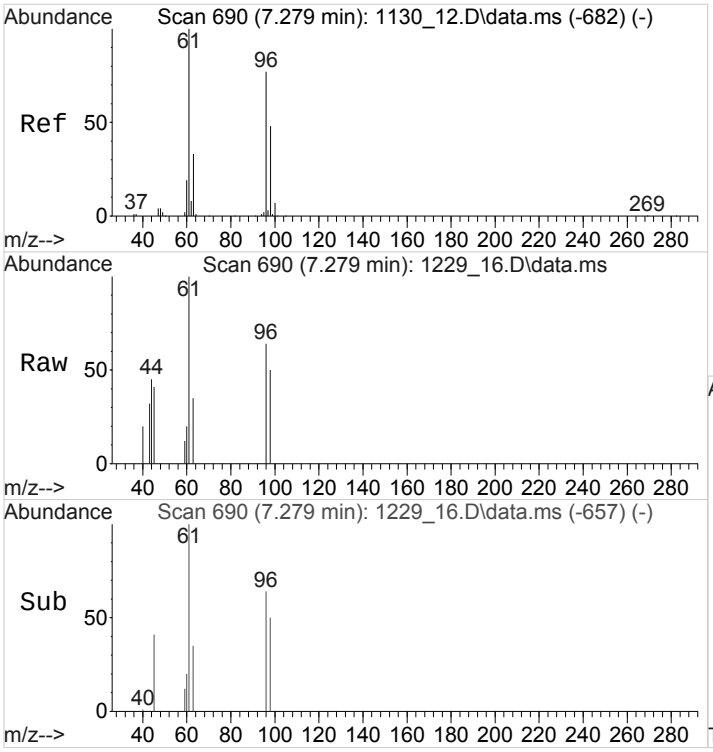
#39
2-Butanone (MEK)
Concen: 1.4741770 ppbv
RT: 7.236 min Scan# 683
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 72 Resp: 3636

Ion	Ratio	Lower	Upper
72	100		
57	31.1	27.3	40.9



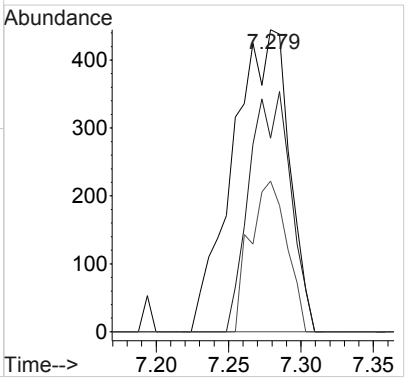
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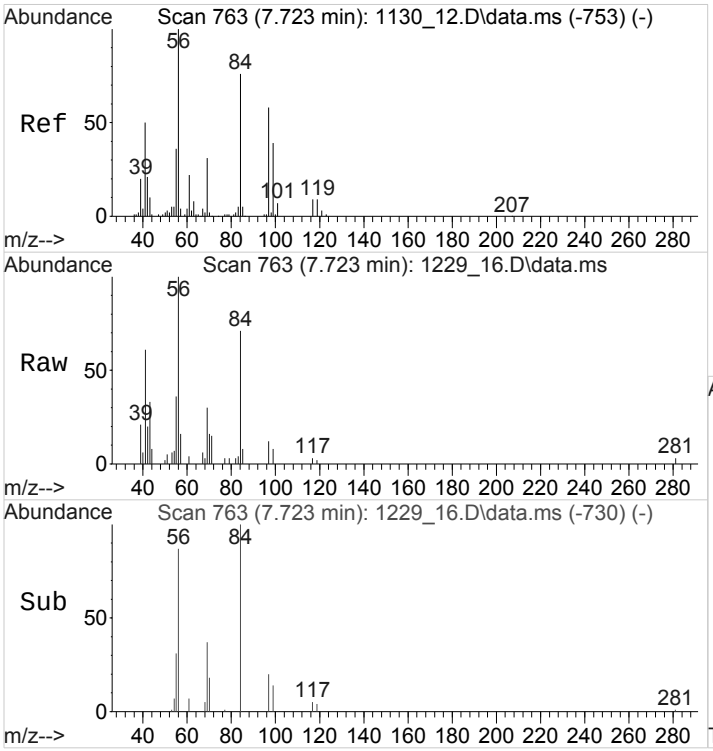


#40
cis-1,2-Dichloroethene
Concen: 0.1565553 ppbv
RT: 7.279 min Scan# 690
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 61 Resp: 1199

Ion	Ratio	Lower	Upper
61	100		
96	58.5	60.6	91.0#
98	32.8	38.3	57.5#

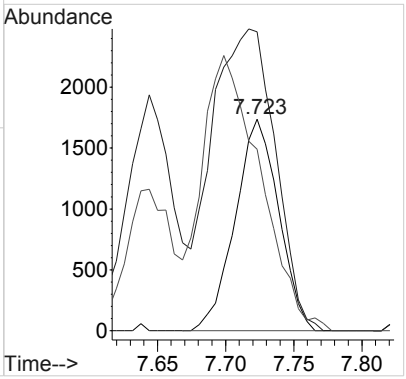


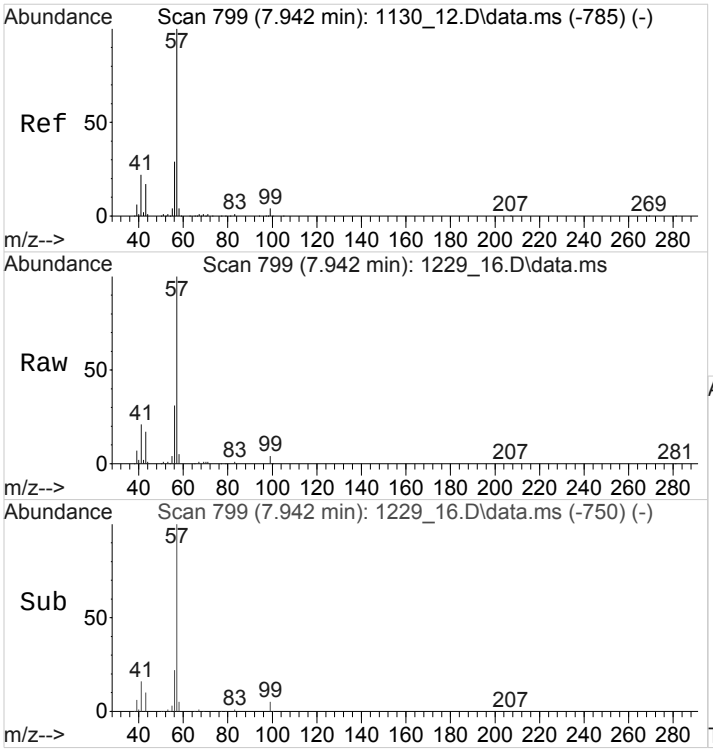


#43
Cyclohexane
Concen: 0.6432047 ppbv
RT: 7.723 min Scan# 763
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 84 Resp: 3859

Ion	Ratio	Lower	Upper
84	100		
56	206.1	106.5	159.7#
41	173.3	52.0	78.0#

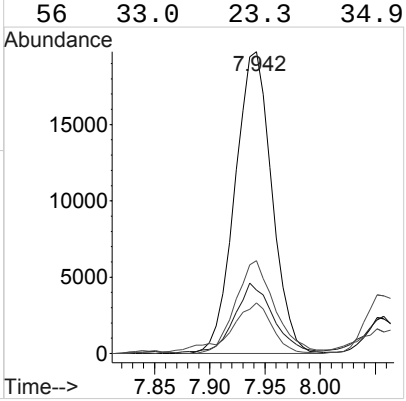


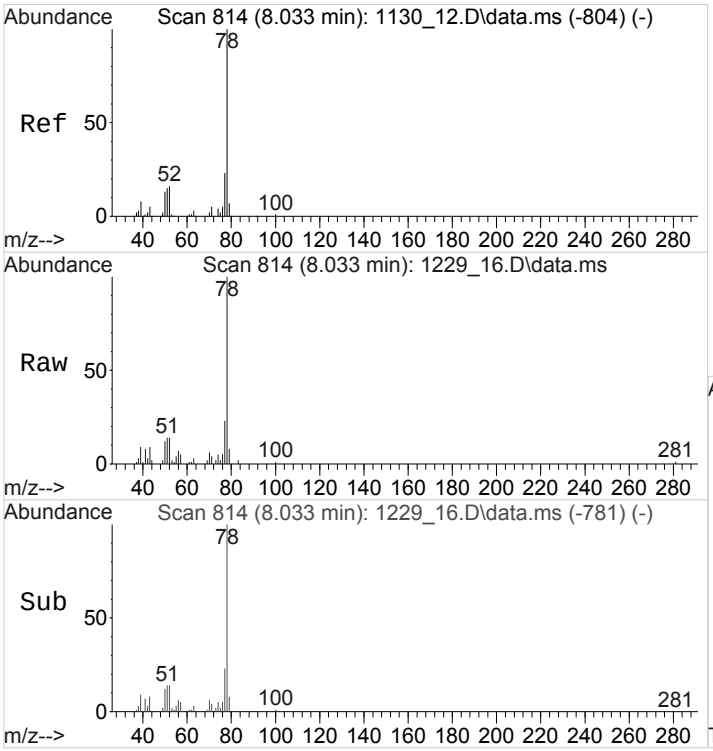


#46
2,2,4-Trimethylpentane
Concen: 1.8697347 ppbv
RT: 7.942 min Scan# 799
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 57 Resp: 46109

Ion	Ratio	Lower	Upper
57	100		
41	24.0	18.2	27.2
43	19.2	13.3	19.9
56	33.0	23.3	34.9

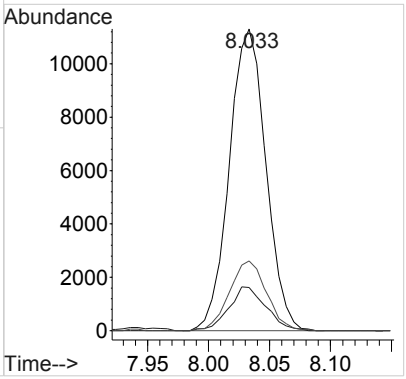




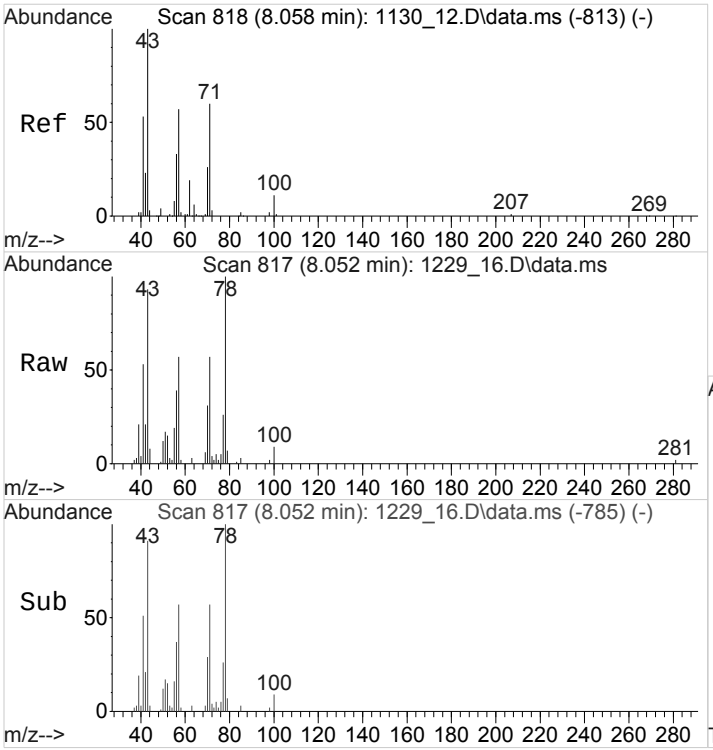
#48
Benzene
Concen: 1.5692437 ppbv
RT: 8.033 min Scan# 814
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 78 Resp: 23563

Ion	Ratio	Lower	Upper
78	100		
51	14.8	12.1	18.1
77	23.6	18.8	28.2



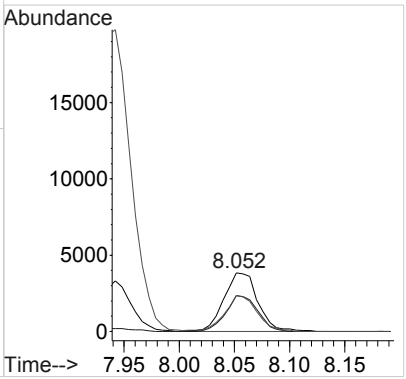
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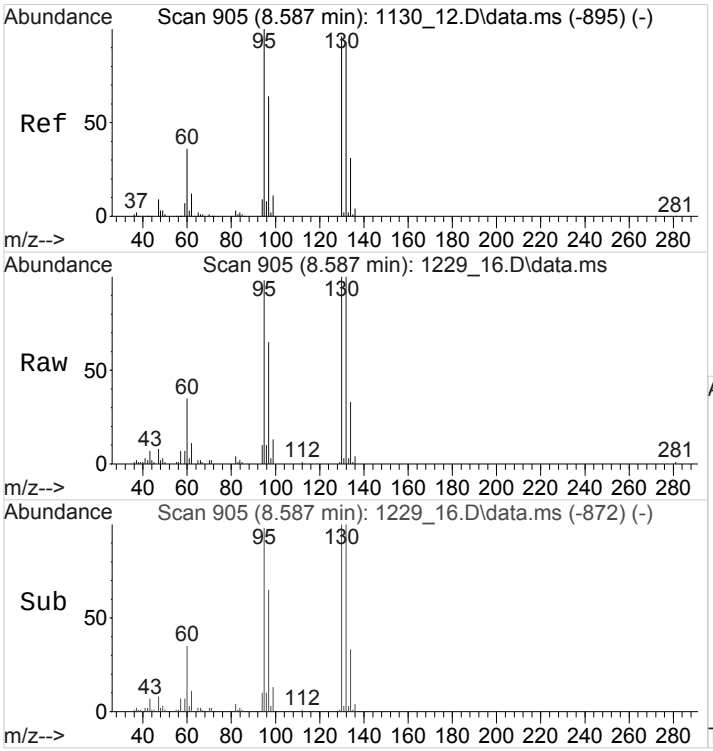


#51
Heptane
Concen: 1.0020150 ppbv
RT: 8.052 min Scan# 817
Delta R.T. -0.006 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 43 Resp: 8256

Ion	Ratio	Lower	Upper
43	100		
71	57.2	47.0	70.4
57	58.2	43.9	65.9

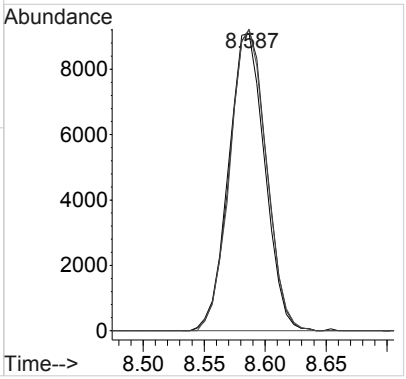




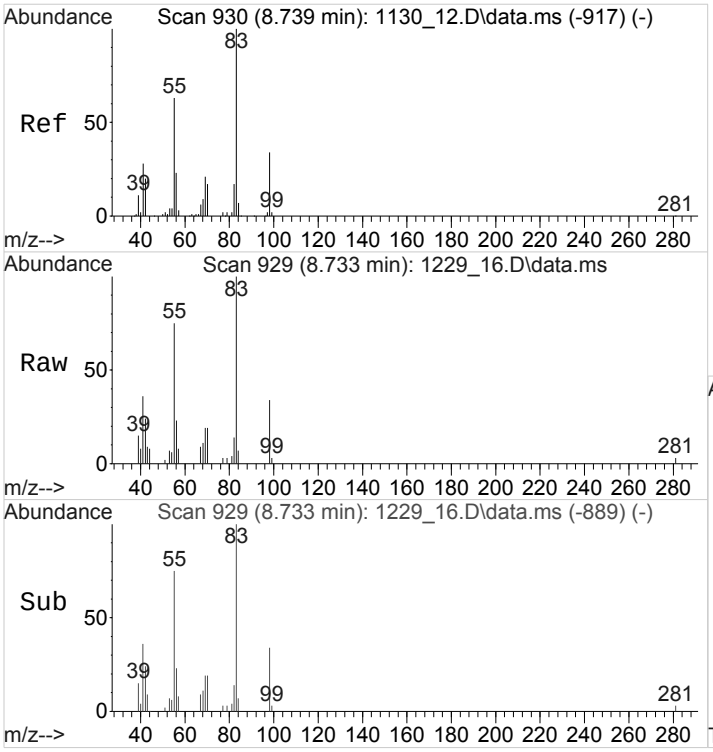
#52
Trichloroethene
Concen: 2.5665525 ppbv
RT: 8.587 min Scan# 905
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 95 Resp: 18842

Ion	Ratio	Lower	Upper
95	100		
130	102.7	76.9	115.3
132	101.5	73.3	109.9



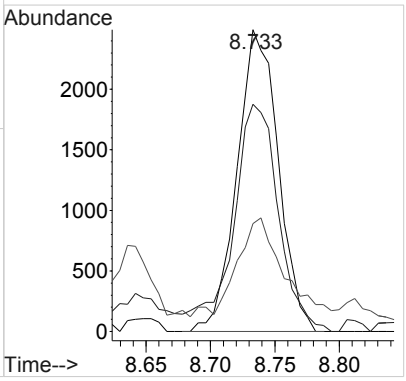
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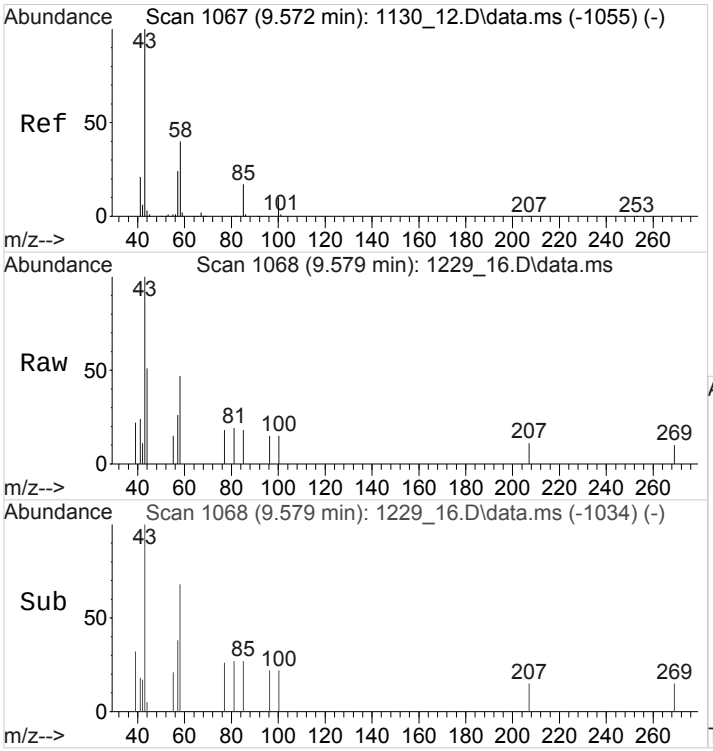


#54
METHYL CYCLOHEXANE
Concen: 0.5600825 ppbv
RT: 8.733 min Scan# 929
Delta R.T. -0.006 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 83 Resp: 5559

Ion	Ratio	Lower	Upper
83	100		
55	82.5	66.6	99.8
41	50.9	26.8	40.2#

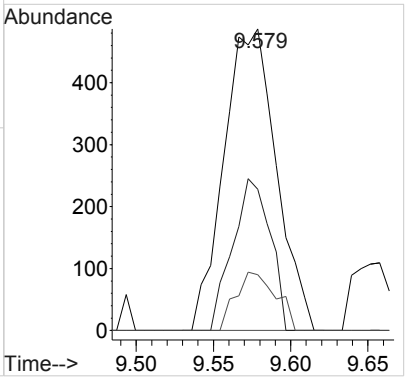


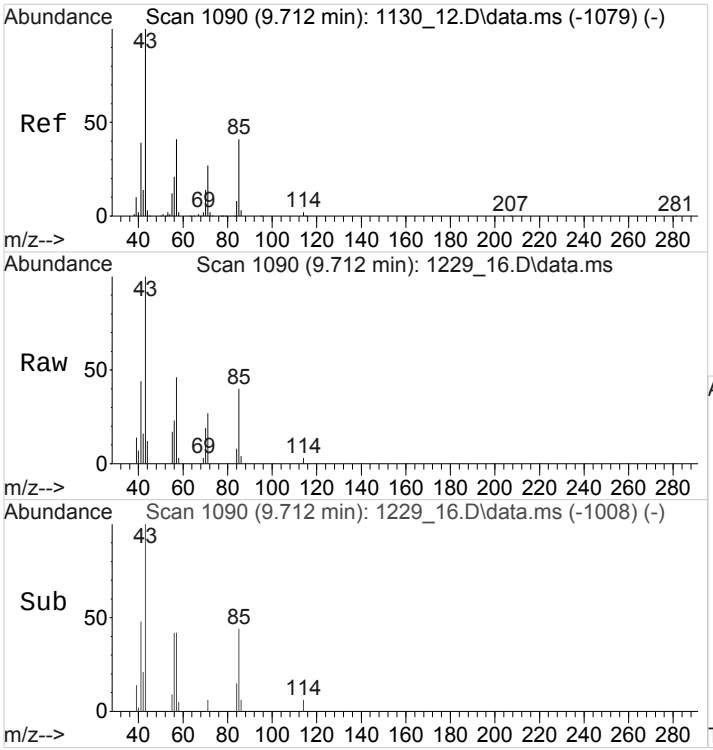


#60
4-Methyl-2-Pentanone (MIBK)
Concen: 0.1072519 ppbv
RT: 9.579 min Scan# 1068
Delta R.T. 0.006 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 43 Resp: 1149

Ion	Ratio	Lower	Upper
43	100		
58	36.1	33.0	49.6
85	14.9	14.7	22.1

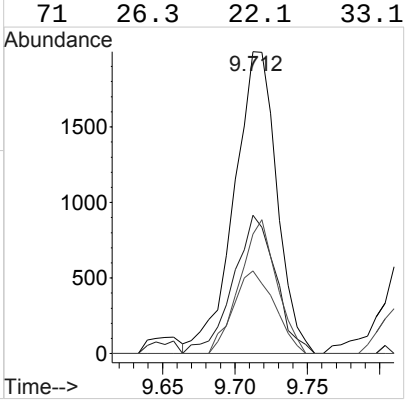


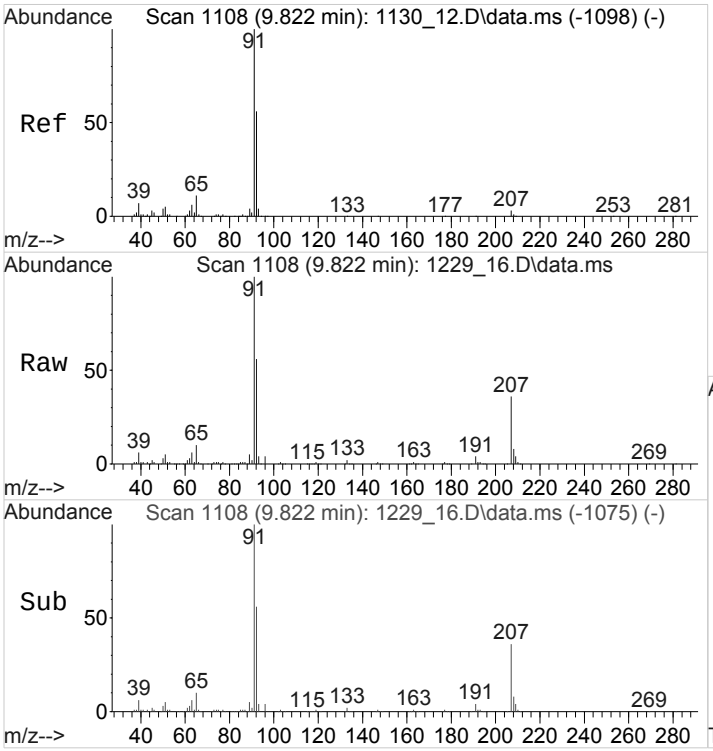


#61
n-OCTANE
Concen: 0.3162979 ppbv
RT: 9.712 min Scan# 1090
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 43 Resp: 4099

Ion	Ratio	Lower	Upper
43	100		
57	45.4	33.1	49.7
85	38.5	33.1	49.7
71	26.3	22.1	33.1

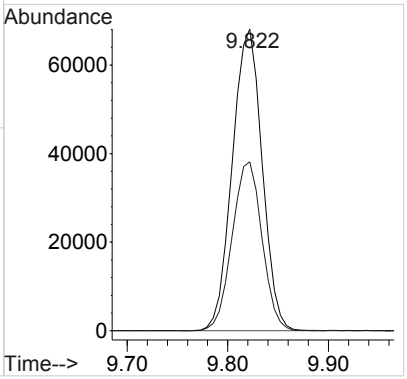




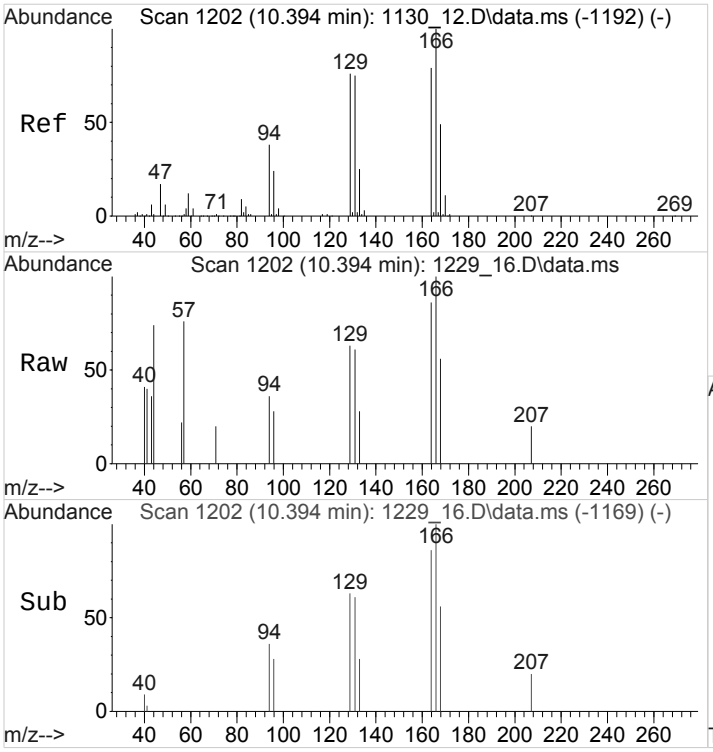
#62
Toluene
Concen: 7.2851332 ppbv
RT: 9.822 min Scan# 1108
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 91 Resp: 140188

Ion	Ratio	Lower	Upper
91	100		
92	56.0	44.1	66.1



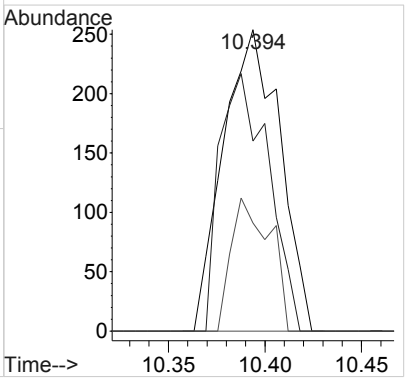
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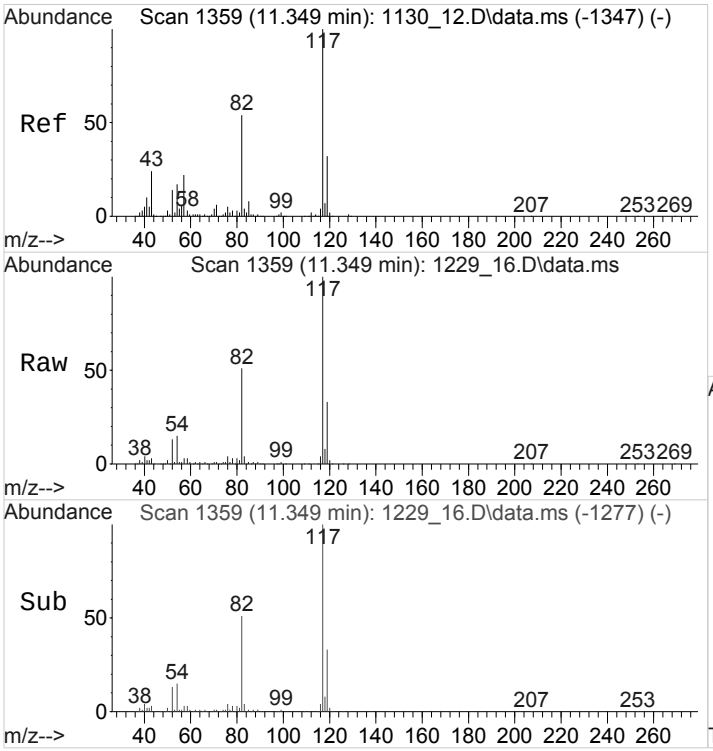


#65
Tetrachloroethene
Concen: 0.0538431 ppbv
RT: 10.394 min Scan# 1202
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion:166 Resp: 517

Ion	Ratio	Lower	Upper
166	100		
129	73.9	62.1	93.1
94	30.6	30.3	45.5

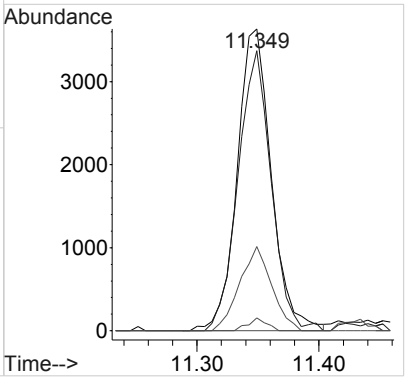




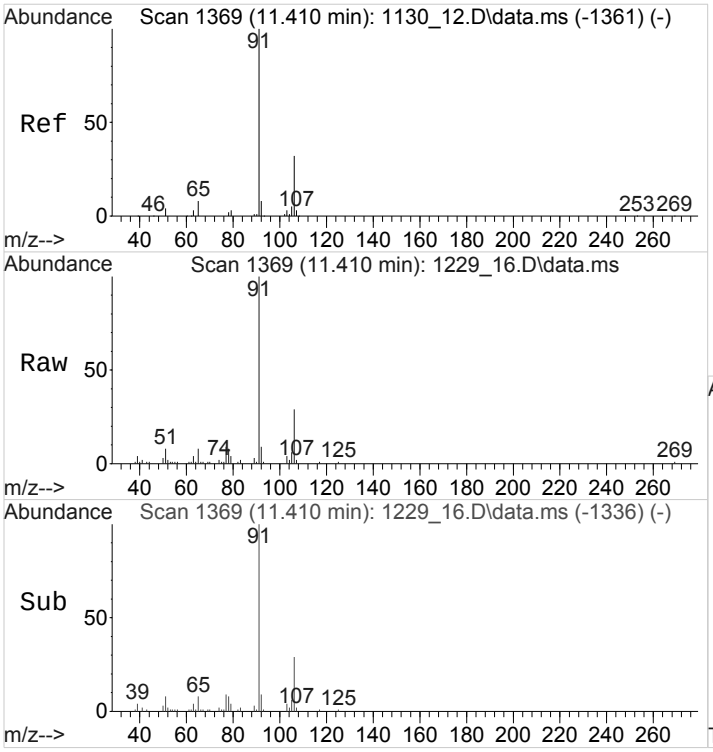
#70
NONANE
Concen: 0.5157757 ppbv
RT: 11.349 min Scan# 1359
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 43 Resp: 7075

Ion	Ratio	Lower	Upper
43	100		
57	89.6	74.6	112.0
71	26.1	20.0	30.0
128	2.3	1.9	2.9



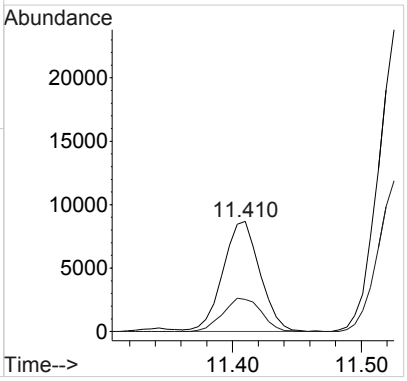
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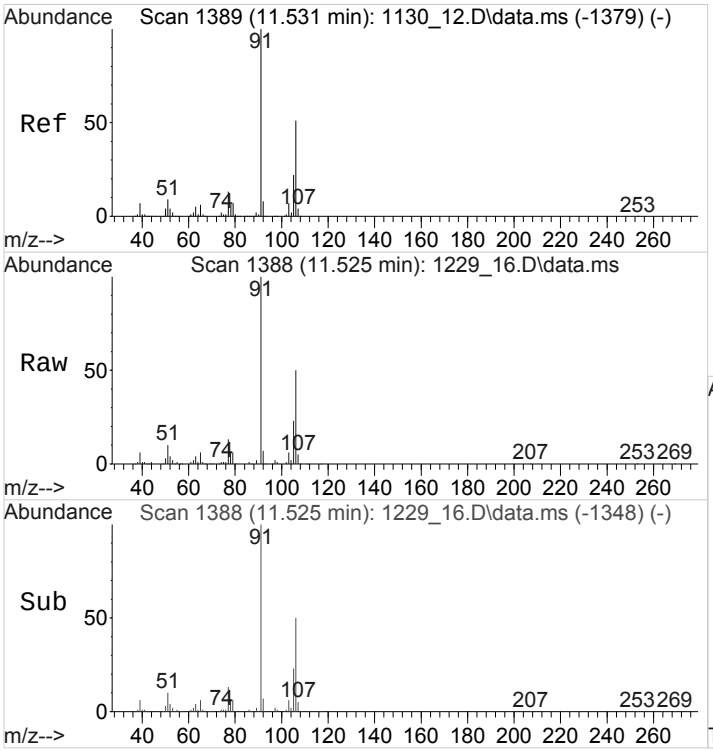


#72
Ethylbenzene
Concen: 0.7816305 ppbv
RT: 11.410 min Scan# 1369
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 91 Resp: 17359

Ion	Ratio	Lower	Upper
91	100		
106	31.4	25.6	38.4

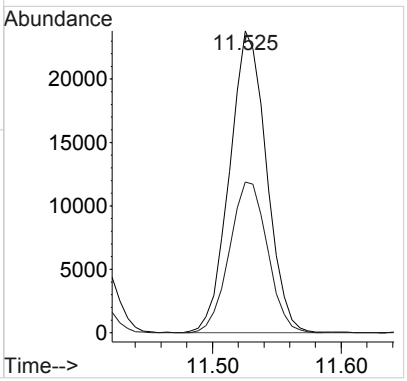




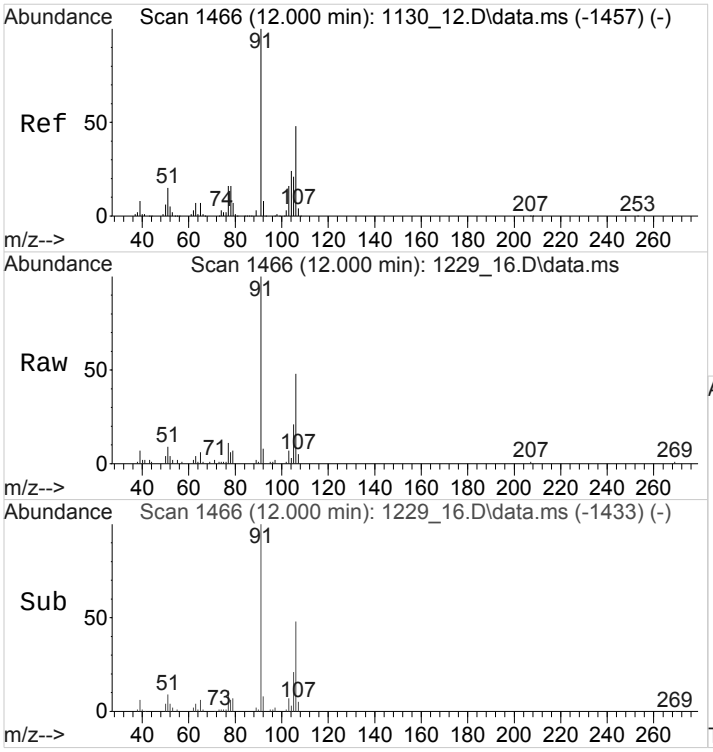
#73
M&P-Xylene
Concen: 2.7263160 ppbv
RT: 11.525 min Scan# 1388
Delta R.T. -0.006 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 91 Resp: 47451

Ion	Ratio	Lower	Upper
91	100		
106	51.4	39.7	59.5



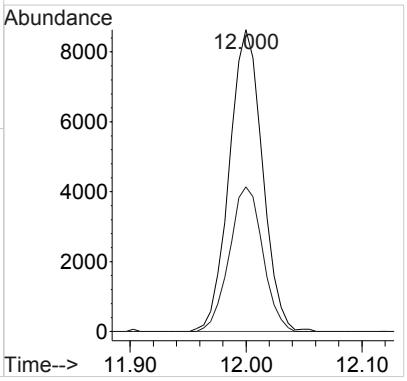
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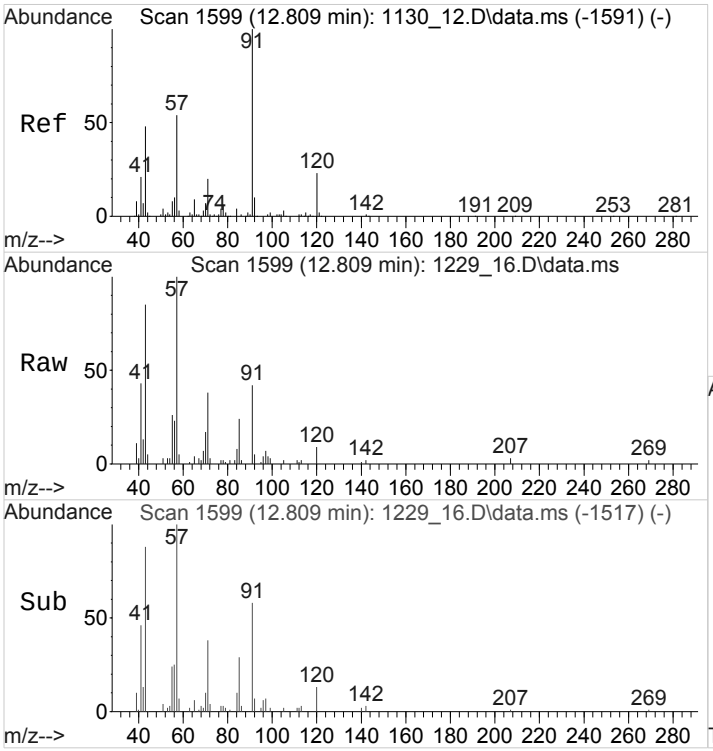


#74
O-Xylene
Concen: 0.9357970 ppbv
RT: 12.000 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 91 Resp: 17179

Ion	Ratio	Lower	Upper
91	100		
106	48.3	38.4	57.6

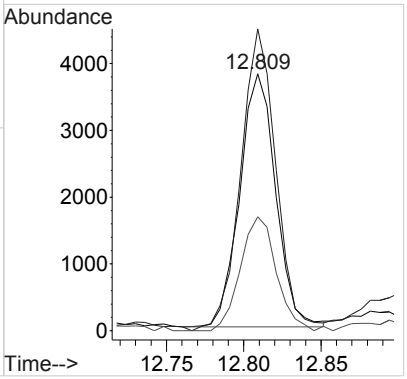




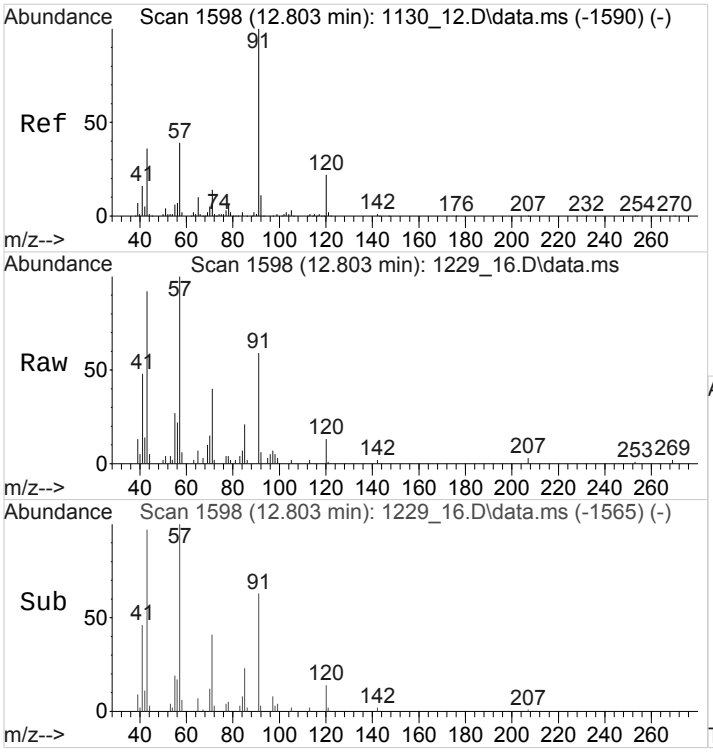
#80
n-DECANE
Concen: 0.5285933 ppbv
RT: 12.809 min Scan# 1599
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 43 Resp: 6146

Ion	Ratio	Lower	Upper
43	100		
57	117.0	89.7	134.5
71	44.8	34.1	51.1



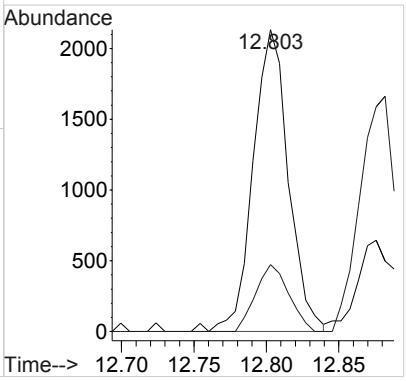
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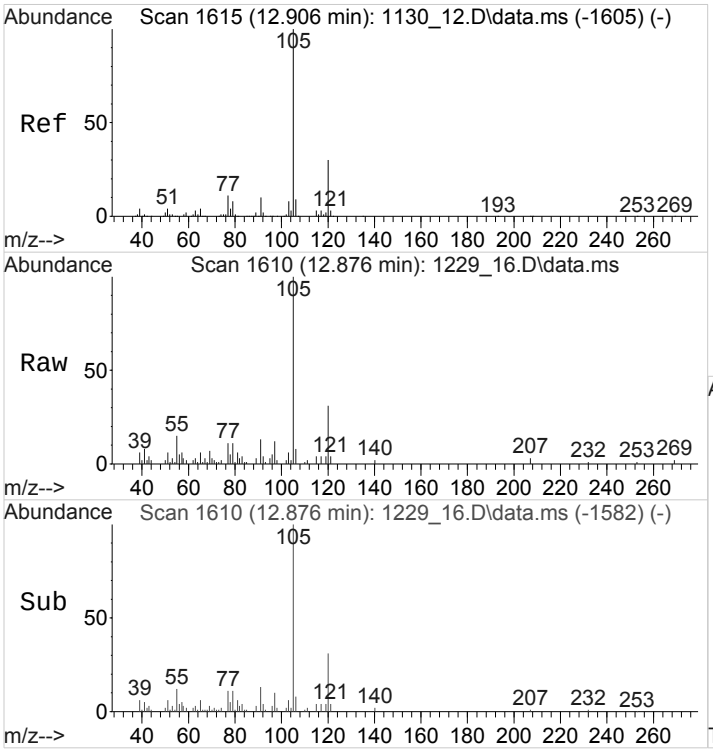


#82
n-Propylbenzene
Concen: 0.1289159 ppbv
RT: 12.803 min Scan# 1598
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion: 91 Resp: 3621

Ion	Ratio	Lower	Upper
91	100		
120	20.9	17.8	26.6

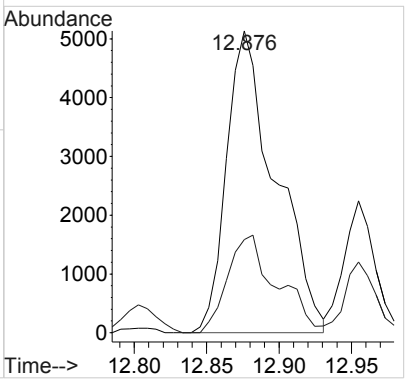




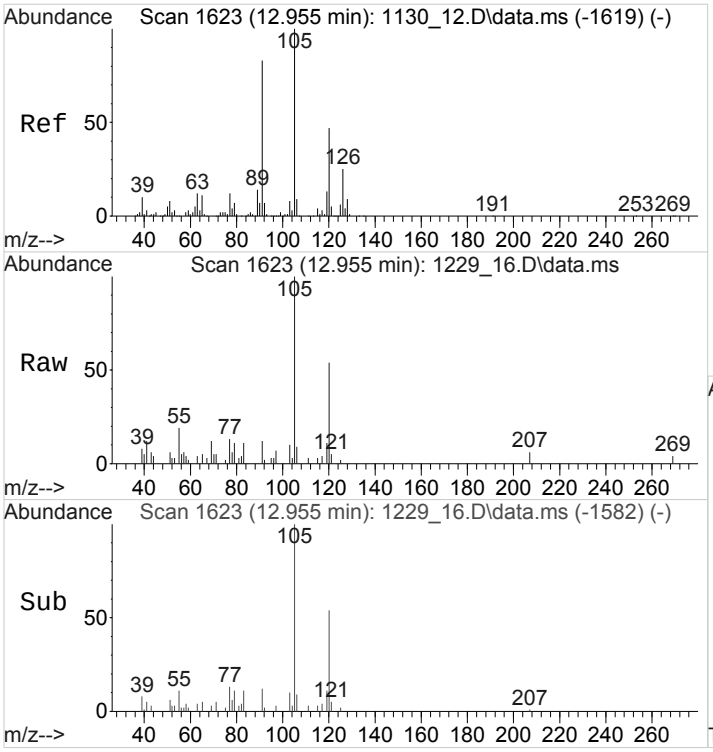
#83
4-Ethyltoluene
Concen: 0.5224721 ppbv
RT: 12.876 min Scan# 1610
Delta R.T. -0.030 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion:105 Resp: 12051

Ion	Ratio	Lower	Upper
105	100		
120	32.2	24.6	36.8



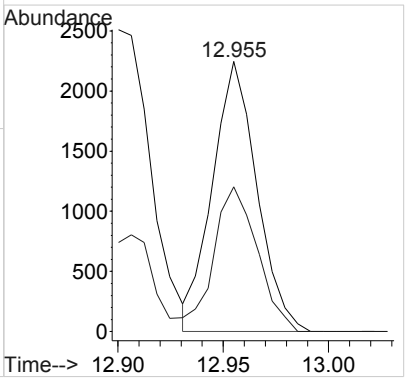
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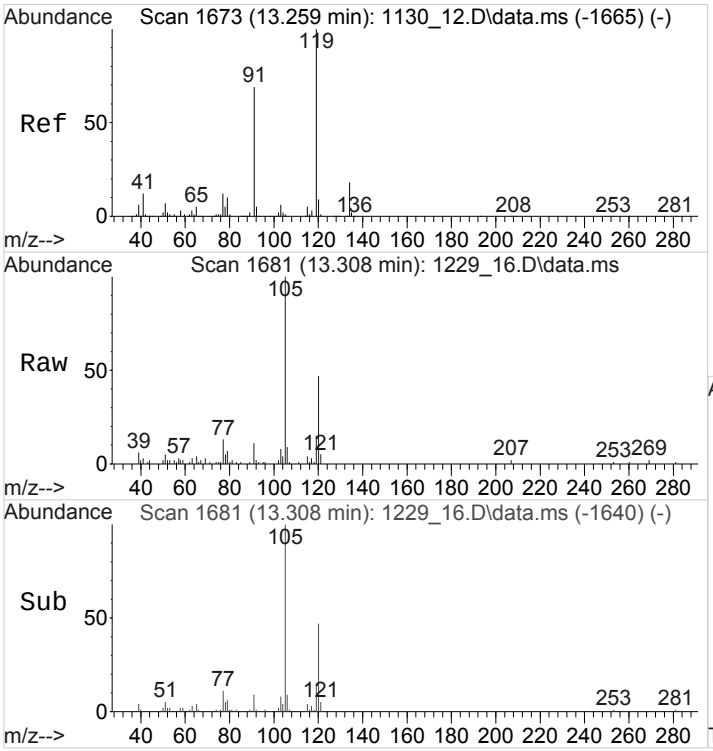


#86
1,3,5-Trimethylbenzene
Concen: 0.1737540 ppbv
RT: 12.955 min Scan# 1623
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion:105 Resp: 3302

Ion	Ratio	Lower	Upper
105	100		
120	52.3	37.7	56.5

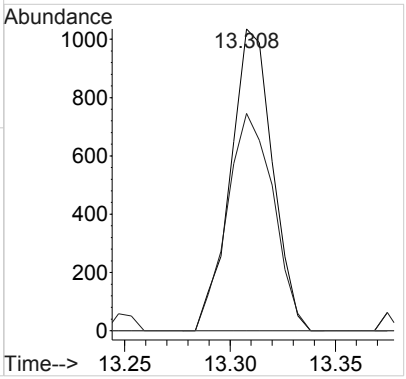




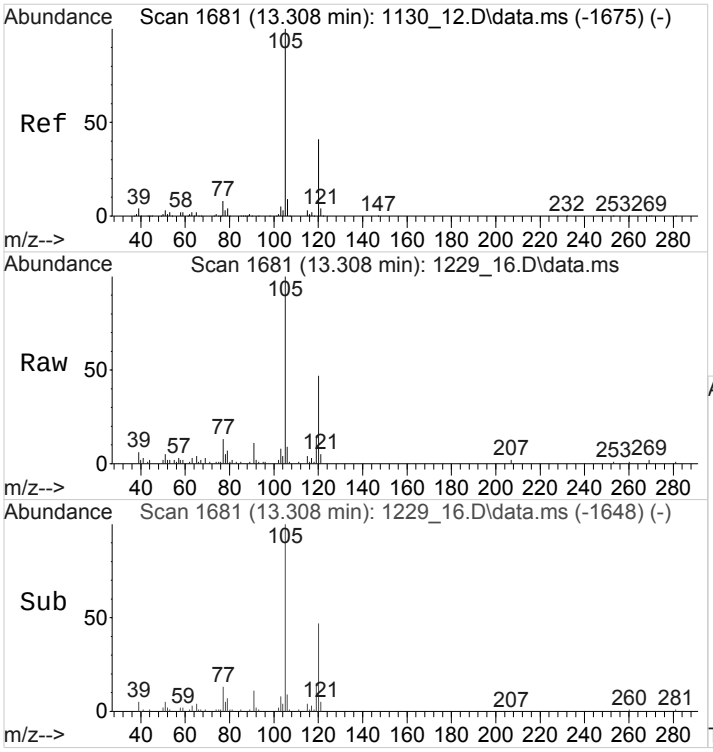
#87
Tert-Butylbenzene
Concen: 0.0819716 ppbv
RT: 13.308 min Scan# 1681
Delta R.T. 0.049 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion:119 Resp: 1441

Ion	Ratio	Lower	Upper
119	100		
91	79.5	55.4	83.2
134	0.0	13.8	20.6#



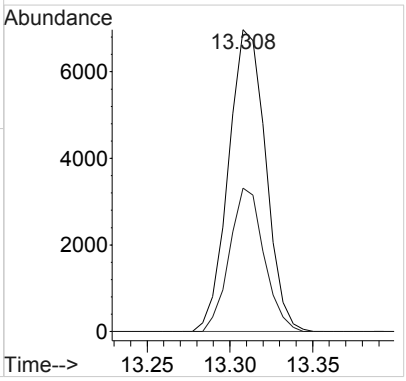
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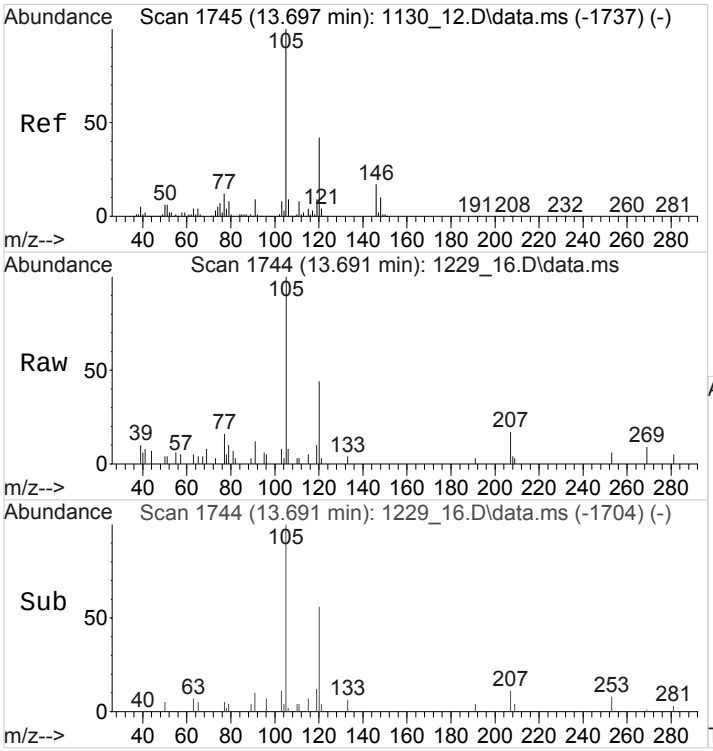


#88
1,2,4-Trimethylbenzene
Concen: 0.5886037 ppbv
RT: 13.308 min Scan# 1681
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion:105 Resp: 10920

Ion	Ratio	Lower	Upper
105	100		
120	44.1	35.9	53.9

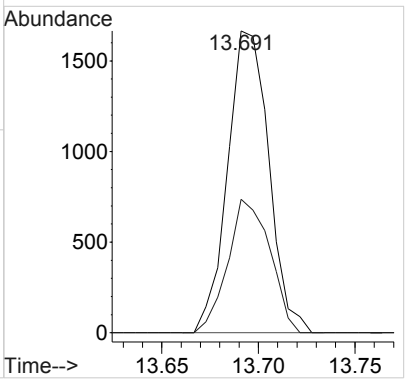




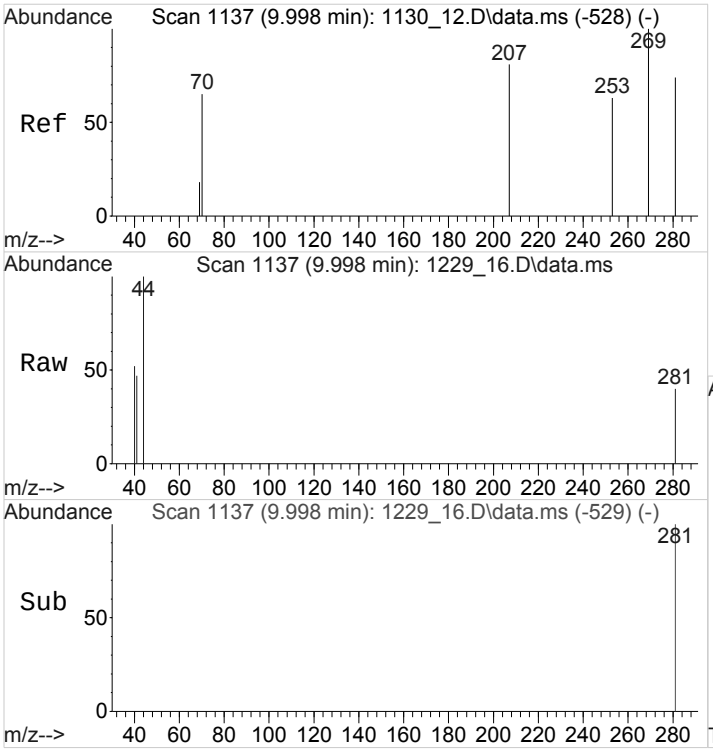
#93
1,2,3-TRIMETHYLBENZENE
Concen: 0.1372038 ppbv
RT: 13.691 min Scan# 1744
Delta R.T. -0.006 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion:105 Resp: 2476

Ion	Ratio	Lower	Upper
105	100		
120	45.2	34.0	51.0

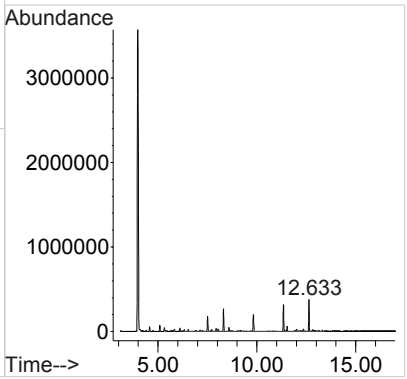


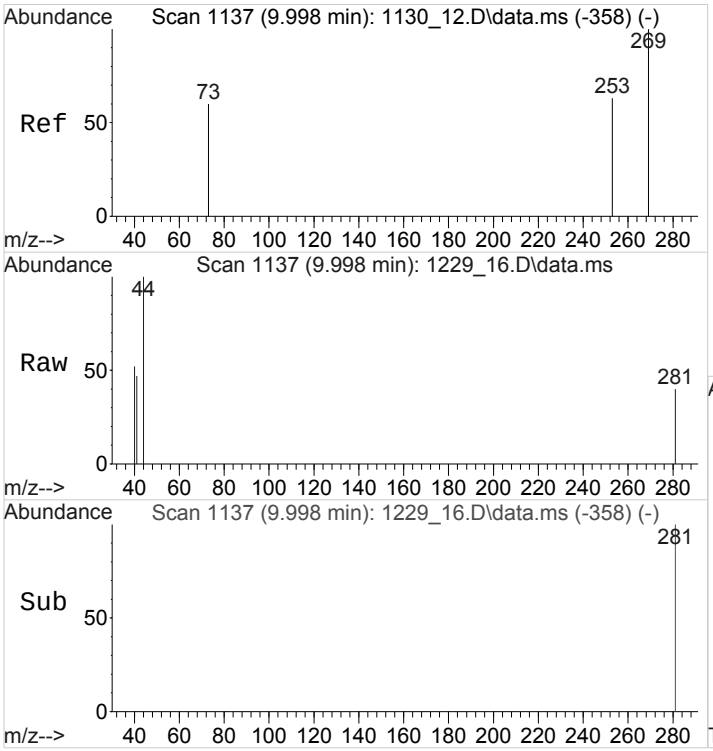
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	93 of 500



#101
TPH (GC/MS) Low Fraction
Concen: 62.1382092 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

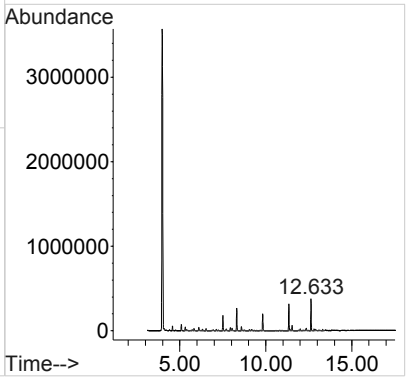
Tgt Ion:TIC Resp: 2142110





#102
TPH-GRO (C5-C10)
Concen: 88.1579137 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 9:38 pm

Tgt Ion:TIC Resp: 2564805



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
785-VMP-4_1222

Lab Sample ID:	L1570581-04	**SDG:**	L1570581
Client Sample ID:	785-VMP-4_1222	**Collected Date/Time:**	12/21/22 15:35
Lab File ID:	1229_17	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 22:21
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 22:21
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.81	23.2		1.39	2.85	5.70
Benzene	71-43-2	8.03	2.33		0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	0	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	0.622	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	14.04	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	6.40	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	11.41	2.12		0.362	0.867	1.73
4-Ethyltoluene	622-96-8	12.88	1.26	J	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.52	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	2.40	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.69	1.19	J	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	6.21	6.18		0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	6.87		0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	9.57	1.20	J	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	12.02	0.472	J	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	0	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	0	0.942	U	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570581-04	**SDG:**	L1570581
Client Sample ID:	785-VMP-4_1222	**Collected Date/Time:**	12/21/22 15:35
Lab File ID:	1229_17	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 22:21
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 22:21
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.59	2.77		0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	13.31	1.41	J	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	12.96	0.431	J	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	7.28		0.585	1.30	2.60
o-Xylene	95-47-6	12	2.33		0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_17.D
Acq On : 29 Dec 2022 10:21 pm
Operator :
Sample : L1570581-04 1x WG1980894
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 31 07:32:44 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

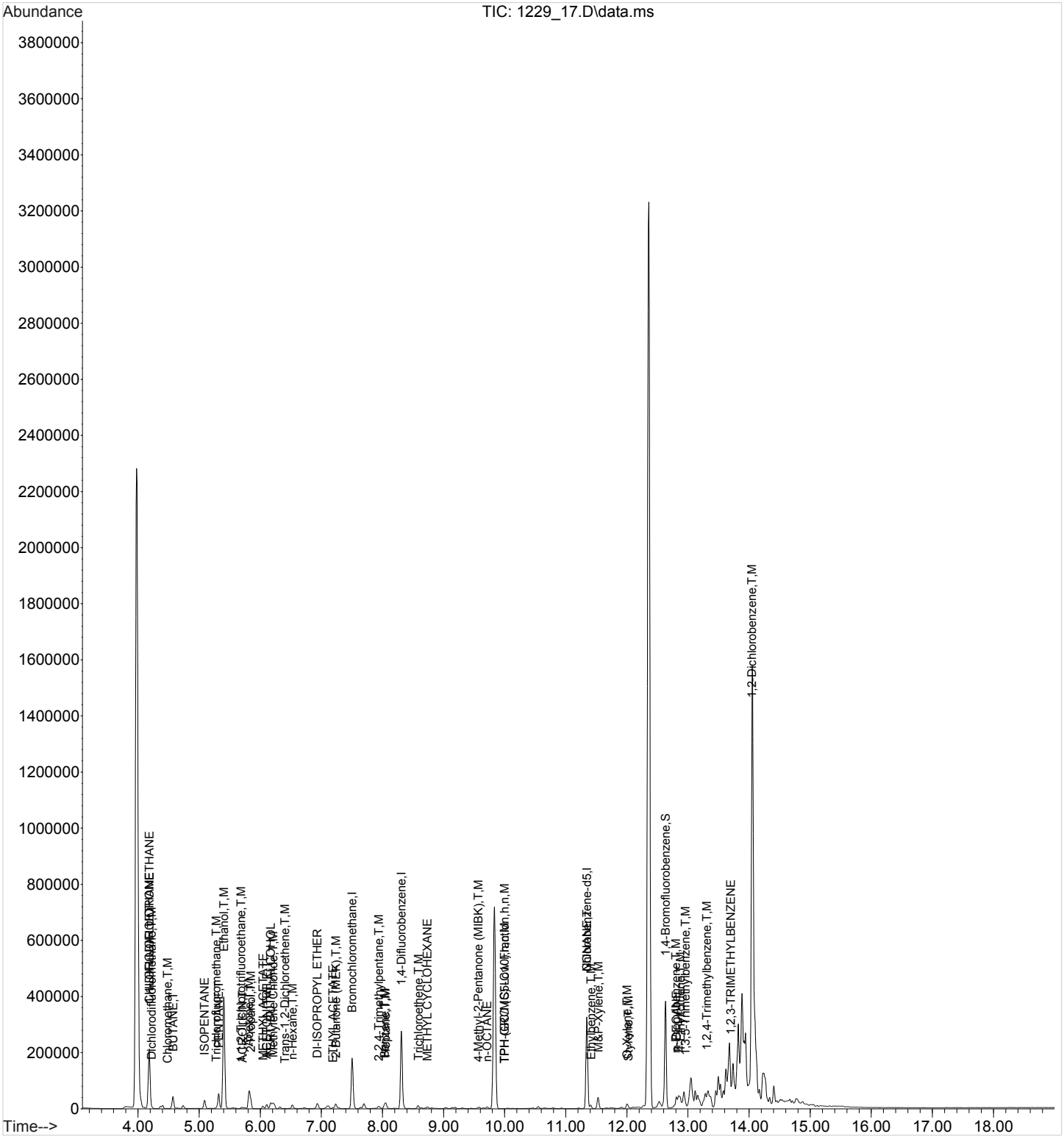
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	75313	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.307	114	273070	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	237002	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	134651	3.3297605	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 83.24%			
Target Compounds						Qvalue
3) BUTANE	4.572	43	37337	5.4026746	ppbv	100
4) 1,1-DIFLUOROETHANE	4.183	51	207506	34.9423889	ppbv	97
5) Dichlorodifluoromethane	4.219	85	6202	0.4853606	ppbv	100
6) CHLORODIFLUOROMETHANE	4.183	51	208529	28.9529555	ppbv #	62
8) Chloromethane	4.481	50	1382	0.3008567	ppbv	94
13) ISOPENTANE	5.089	43	13821	2.8953834	ppbv #	94
15) Trichlorofluoromethane	5.278	101	2897	0.2708313	ppbv	99
16) PENTANE	5.320	43	38610	3.9323077	ppbv	99
17) Ethanol	5.405	45	539784	223.2649707	ppbv	98
18) ACROLEIN	5.710	56	1201	0.5351336	ppbv #	81
19) 1,1,2-Trichlorotrifluo...	5.685	101	1795	0.1551082	ppbv	93
21) Acetone	5.813	43	80680	9.7623664	ppbv	93
23) 2-Propanol	5.843	45	45261	4.9598318	ppbv #	9
26) METHYL ACETATE	6.044	43	11176	1.2171905	ppbv #	99
27) ACETONITRILE	6.105	41	4251	0.8323734	ppbv #	67
28) Methylene Chloride	6.208	49	10126	1.7773652	ppbv	95
29) TERT-BUTYL ALCOHOL	6.172	59	25486	2.6528446	ppbv #	1
31) Trans-1,2-Dichloroethene	6.403	61	442	0.0536357	ppbv #	30
33) n-Hexane	6.525	57	7100	0.9249727	ppbv #	79
36) DI-ISOPROPYL ETHER	6.932	45	3438	0.2210577	ppbv	92
38) ETHYL ACETATE	7.188	45	836	0.4874403	ppbv #	1
39) 2-Butanone (MEK)	7.236	72	5897	2.3337007	ppbv	97
46) 2,2,4-Trimethylpentane	7.936	57	10540	0.4171797	ppbv #	90
48) Benzene	8.033	78	11213	0.7279026	ppbv	100
51) Heptane	8.052	43	8869	1.0492303	ppbv	99
52) Trichloroethene	8.587	95	3892	0.5167585	ppbv	94
54) METHYL CYCLOHEXANE	8.733	83	3361	0.3300772	ppbv	94
60) 4-Methyl-2-Pentanone (...	9.566	43	3212	0.2922484	ppbv #	90
61) n-OCTANE	9.713	43	3521	0.2648354	ppbv	94
70) NONANE	11.343	43	3872	0.2751449	ppbv #	98
72) Ethylbenzene	11.410	91	11123	0.4901700	ppbv	99
73) M&P-Xylene	11.531	91	29885	1.6804750	ppbv	96
74) O-Xylene	12.000	91	10082	0.5375000	ppbv	99
77) Styrene	12.024	104	1666	0.1109661	ppbv #	54
80) n-DECANE	12.809	43	11130	0.9368547	ppbv #	32
82) n-Propylbenzene	12.803	91	1795	0.0625447	ppbv	95
83) 4-Ethyltoluene	12.876	105	6021	0.2554798	ppbv	95
86) 1,3,5-Trimethylbenzene	12.955	105	1707	0.0879102	ppbv	96
88) 1,2,4-Trimethylbenzene	13.308	105	5435	0.2867133	ppbv	96
93) 1,2,3-TRIMETHYLBENZENE	13.697	105	1367	0.0741365	ppbv	94
96) 1,2-Dichlorobenzene	14.044	146	595	0.0514023	ppbv #	1
101) TPH (GC/MS) Low Fraction	10.000	TIC	12883743m	365.7690583	ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	14136272m	475.5430059	ppbv	

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

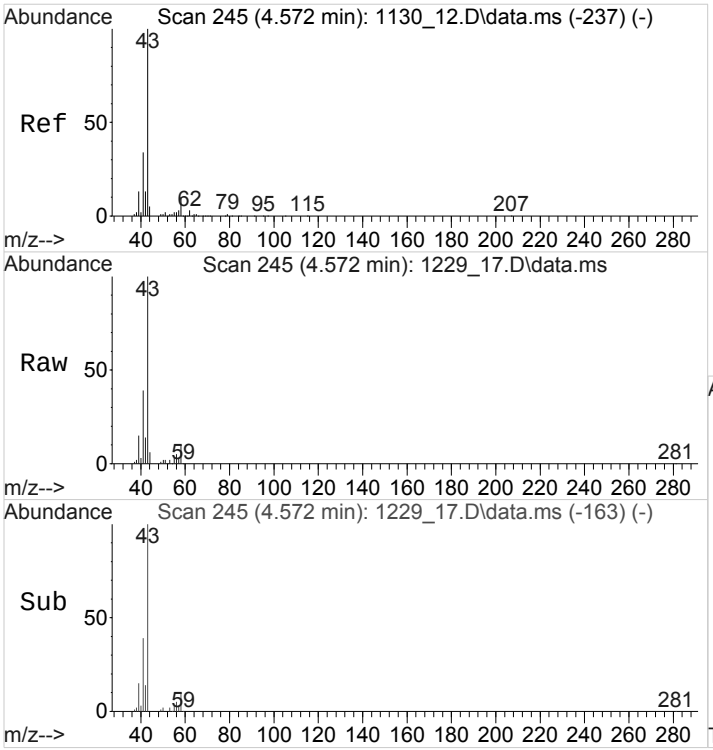
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_17.D
Acq On : 29 Dec 2022 10:21 pm
Operator :
Sample : L1570581-04 1x WG1980894
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 31 07:32:44 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration



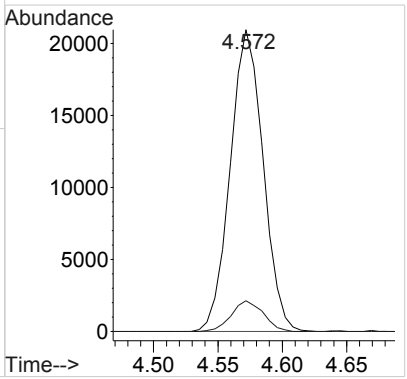
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BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	98 of 500

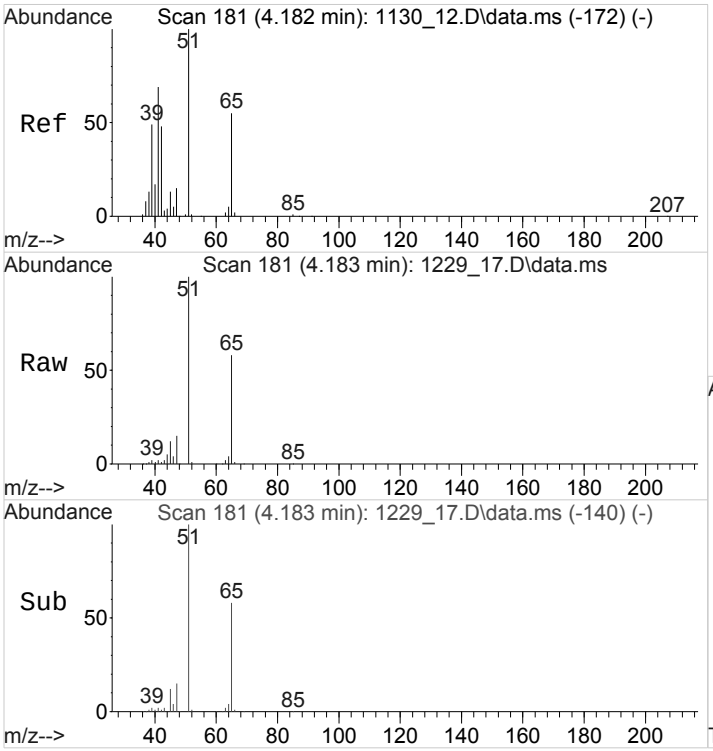


#3
BUTANE
Concen: 5.4026746 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 43 Resp: 37337

Ion	Ratio	Lower	Upper
43	100		
58	9.9	8.0	12.0

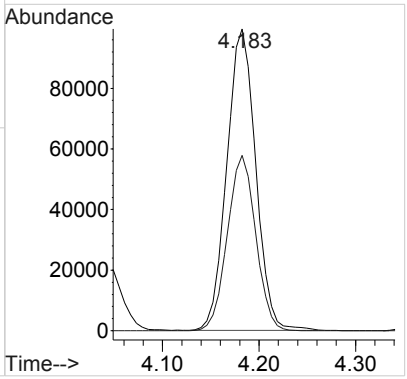




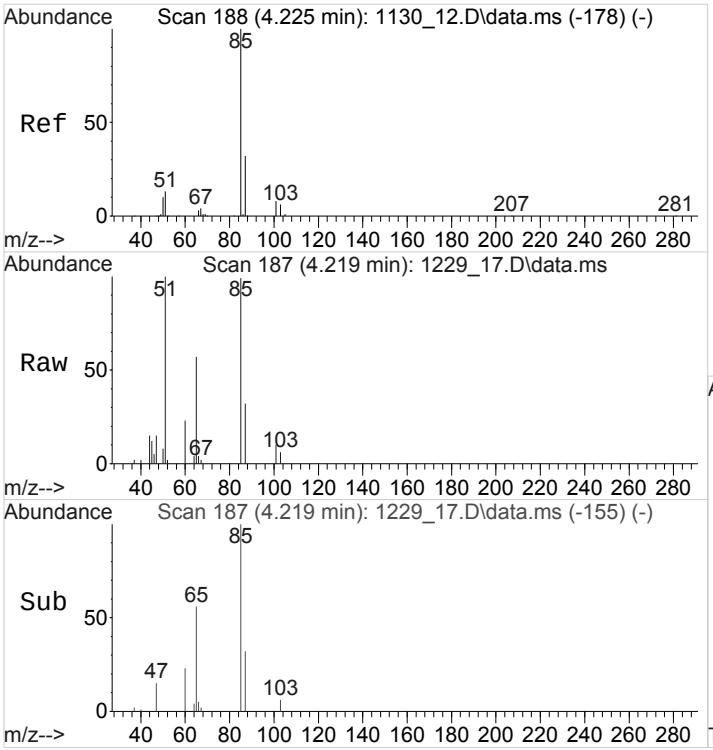
#4
1,1-DIFLUOROETHANE
Concen: 34.9423889 ppbv
RT: 4.183 min Scan# 181
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 51 Resp: 207506

Ion	Ratio	Lower	Upper
51	100		
65	57.0	44.1	66.1



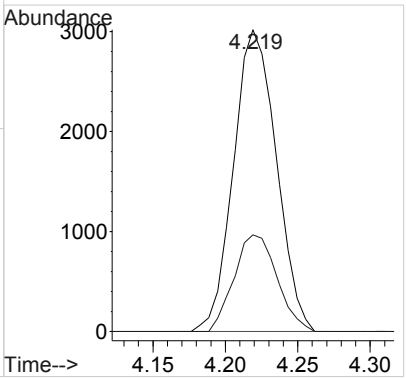
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	99 of 500

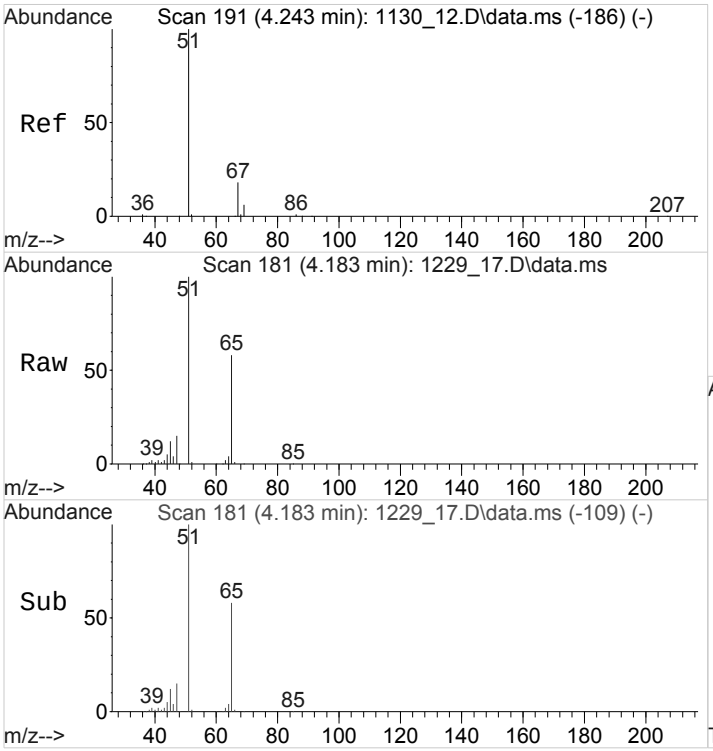


#5
Dichlorodifluoromethane
Concen: 0.4853606 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 85 Resp: 6202

Ion	Ratio	Lower	Upper
85	100		
87	32.1	25.8	38.6

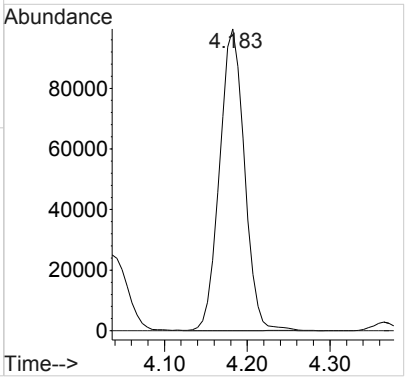


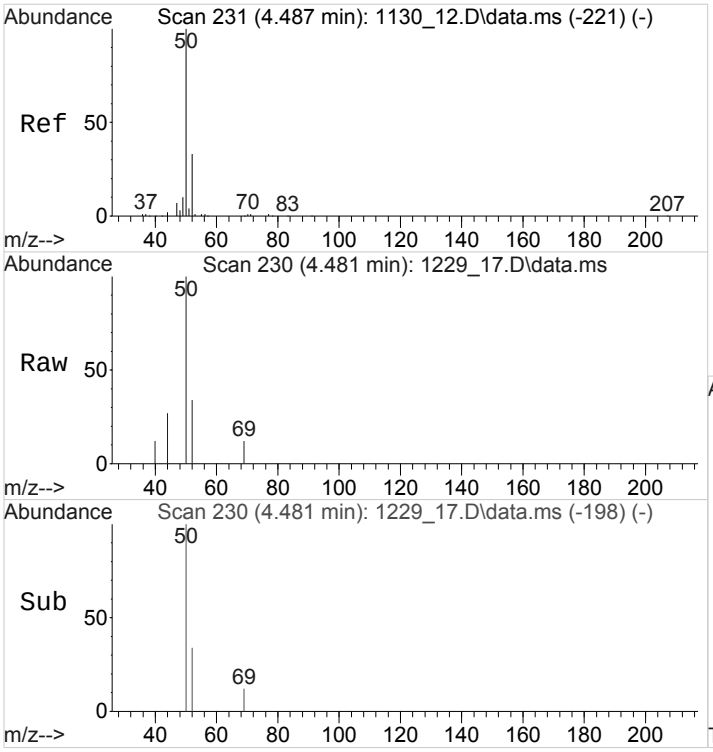


#6
CHLORODIFLUOROMETHANE
Concen: 28.9529555 ppbv
RT: 4.183 min Scan# 181
Delta R.T. -0.061 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 51 Resp: 208529

Ion	Ratio	Lower	Upper
51	100		
67	0.2	13.0	19.4#

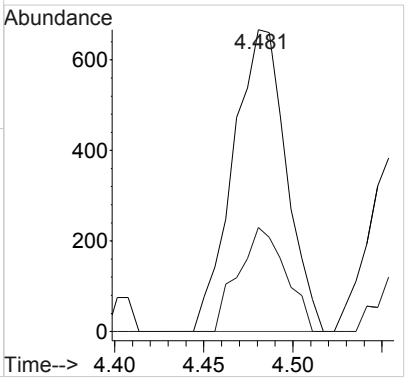


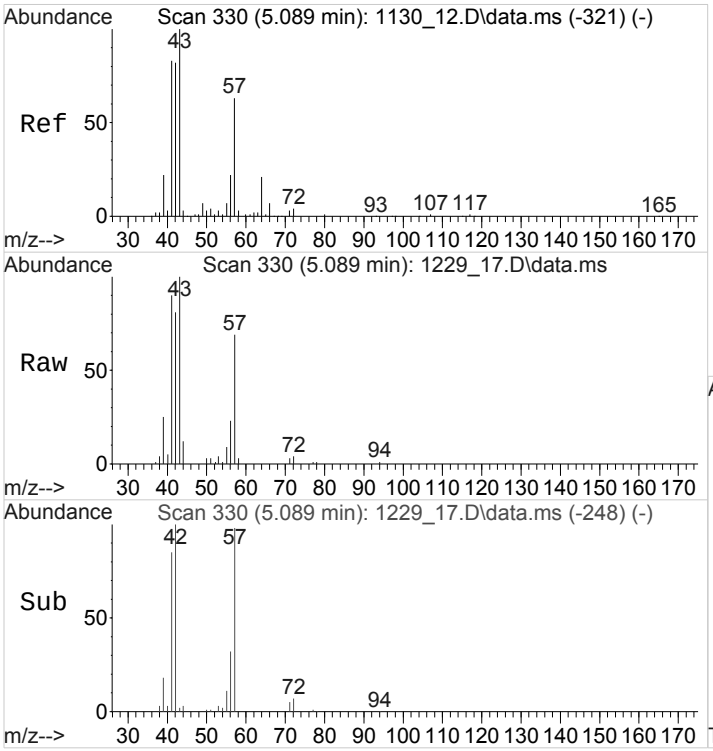


#8
Chloromethane
Concen: 0.3008567 ppbv
RT: 4.481 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 50 Resp: 1382

Ion	Ratio	Lower	Upper
50	100		
52	30.7	27.1	40.7

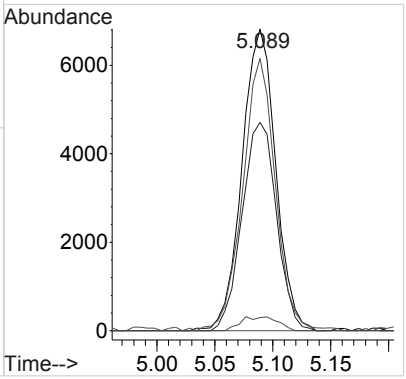




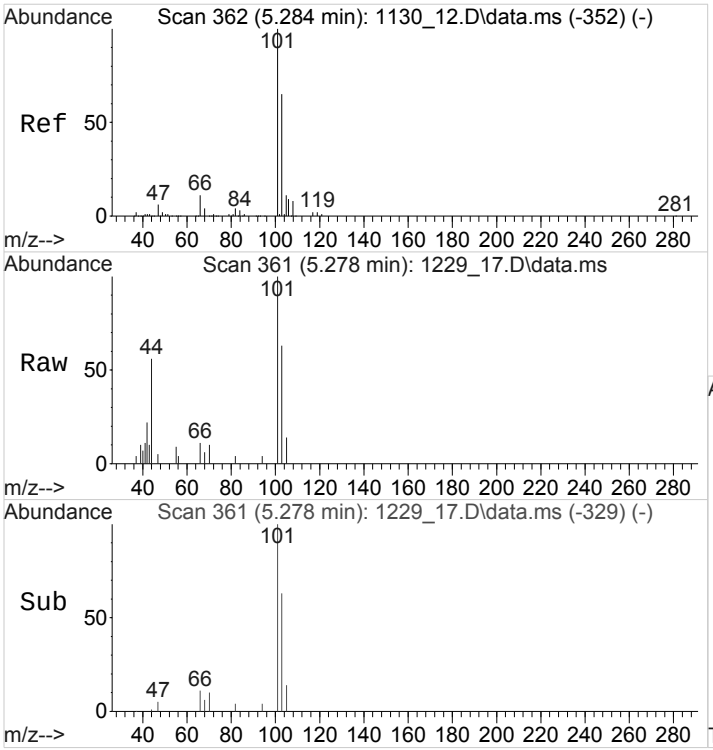
#13
ISOPENTANE
Concen: 2.8953834 ppbv
RT: 5.089 min Scan# 330
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 43 Resp: 13821

Ion	Ratio	Lower	Upper
43	100		
57	70.5	51.7	77.5
41	87.5	66.4	99.6
72	5.0	3.2	4.8#



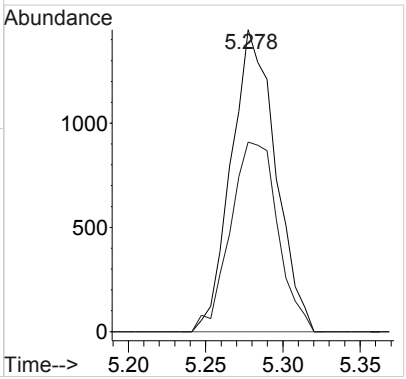
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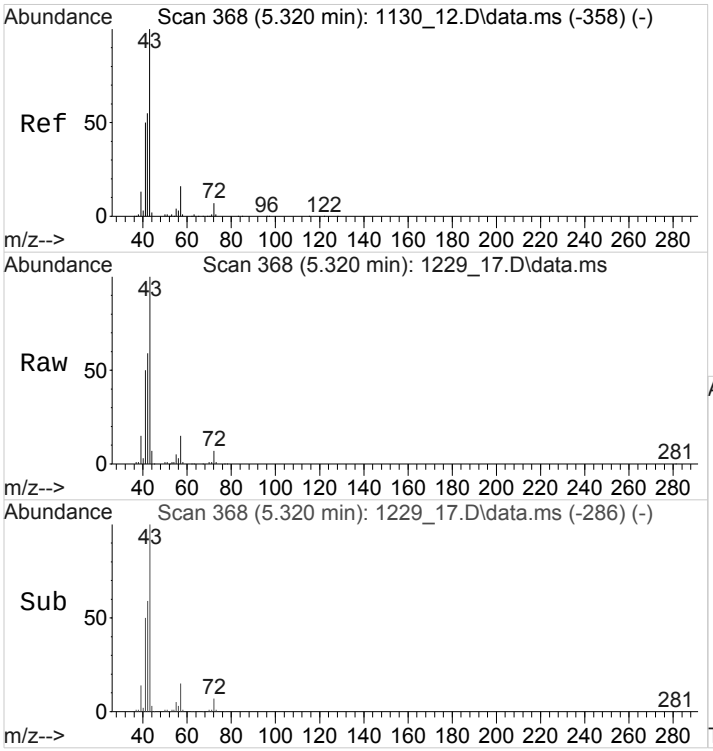


#15
Trichlorofluoromethane
Concen: 0.2708313 ppbv
RT: 5.278 min Scan# 361
Delta R.T. -0.006 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion:101 Resp: 2897

Ion	Ratio	Lower	Upper
101	100		
103	67.1	52.8	79.2

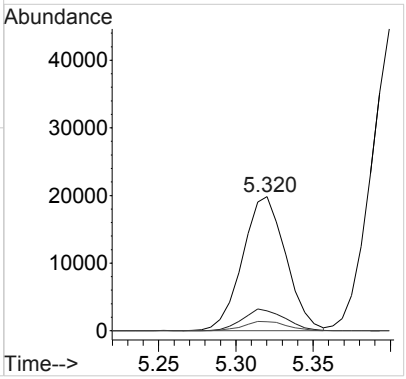




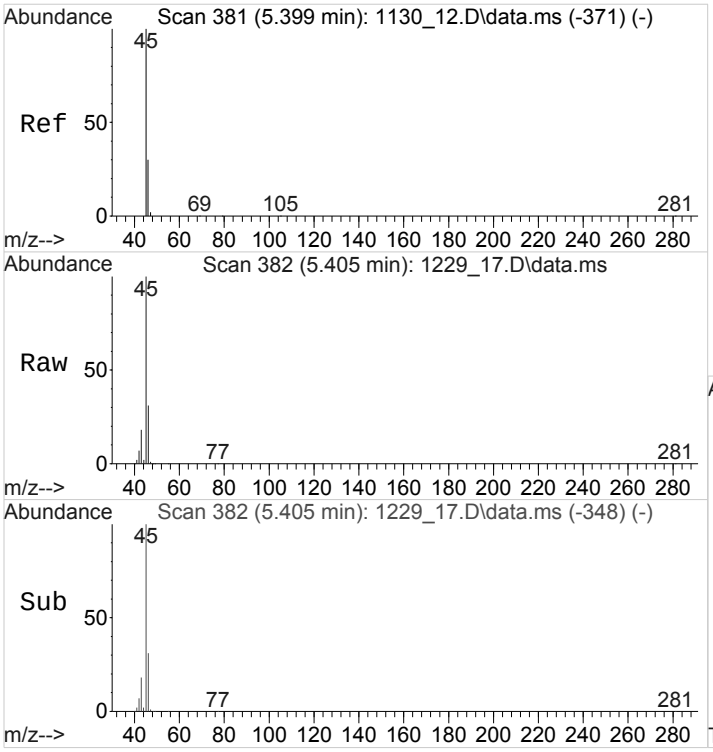
#16
PENTANE
Concen: 3.9323077 ppbv
RT: 5.320 min Scan# 368
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 43 Resp: 38610

Ion	Ratio	Lower	Upper
43	100		
57	15.9	13.0	19.4
72	6.9	5.8	8.8



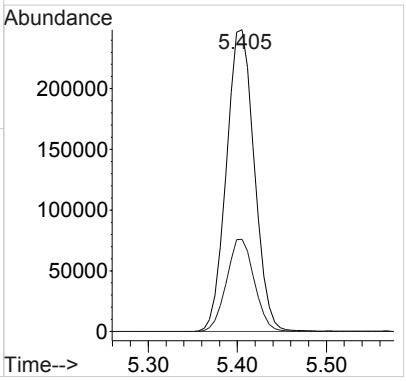
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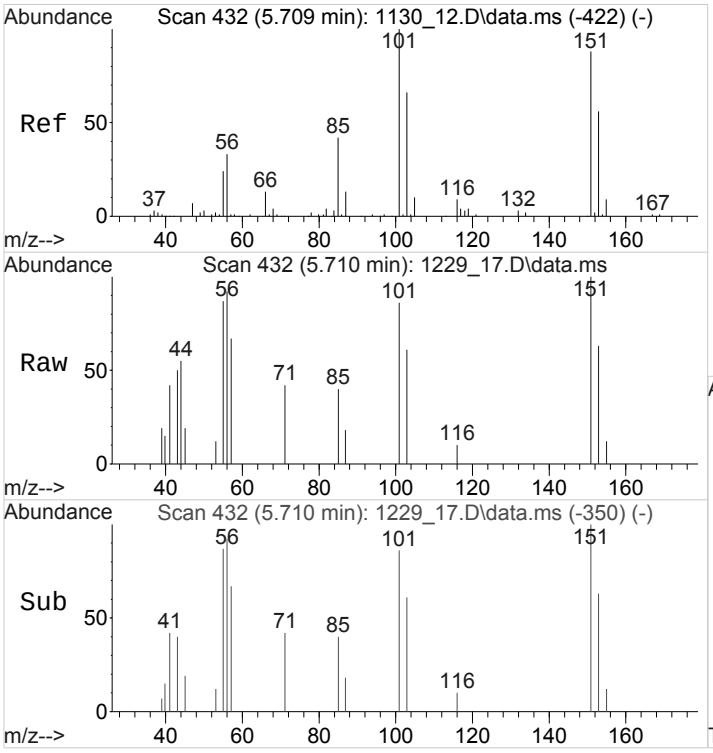


#17
Ethanol
Concen: 223.2649707 ppbv
RT: 5.405 min Scan# 382
Delta R.T. 0.006 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 45 Resp: 539784

Ion	Ratio	Lower	Upper
45	100		
46	30.4	23.6	35.4

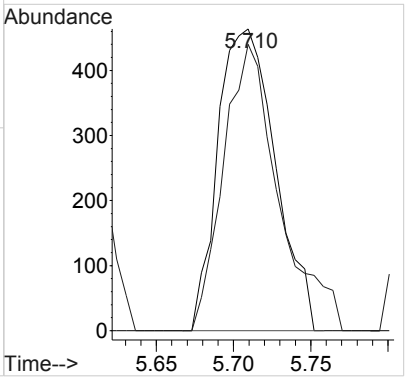




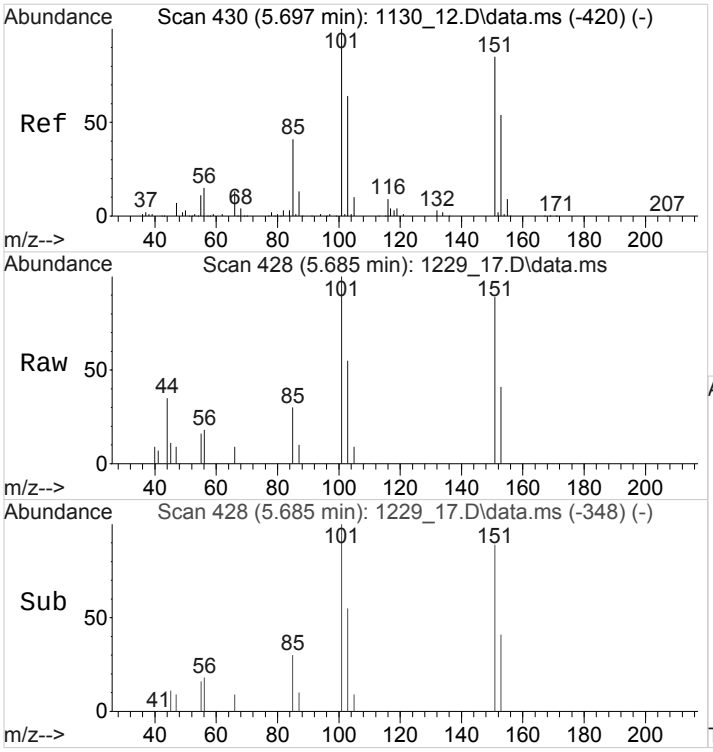
#18
ACROLEIN
Concen: 0.5351336 ppbv
RT: 5.710 min Scan# 432
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 56 Resp: 1201

Ion	Ratio	Lower	Upper
56	100		
55	91.5	60.4	90.6#



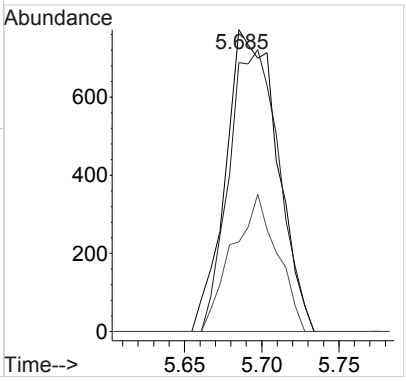
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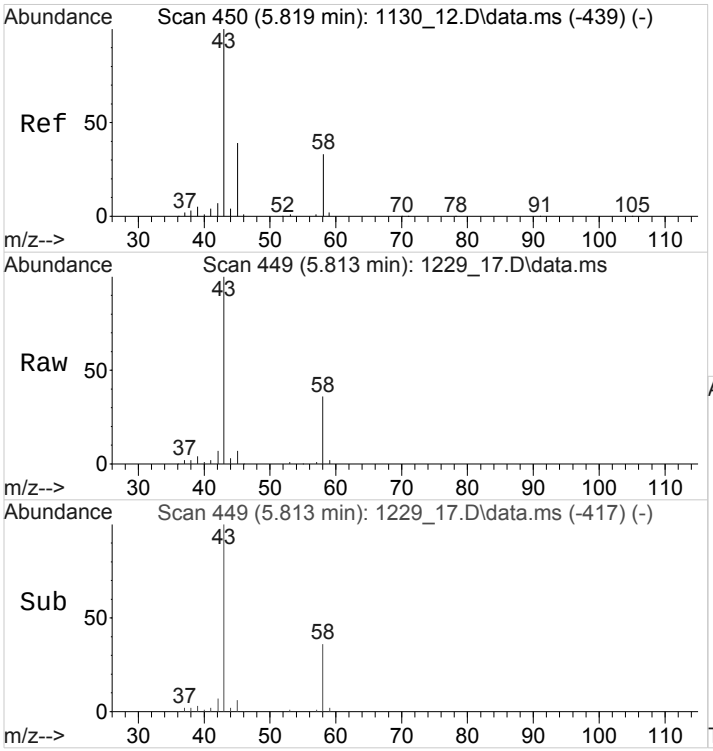


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.1551082 ppbv
RT: 5.685 min Scan# 428
Delta R.T. -0.012 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion:101 Resp: 1795

Ion	Ratio	Lower	Upper
101	100		
151	91.2	67.4	101.2
85	39.5	34.4	51.6

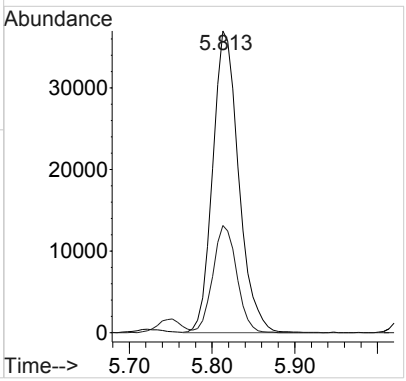




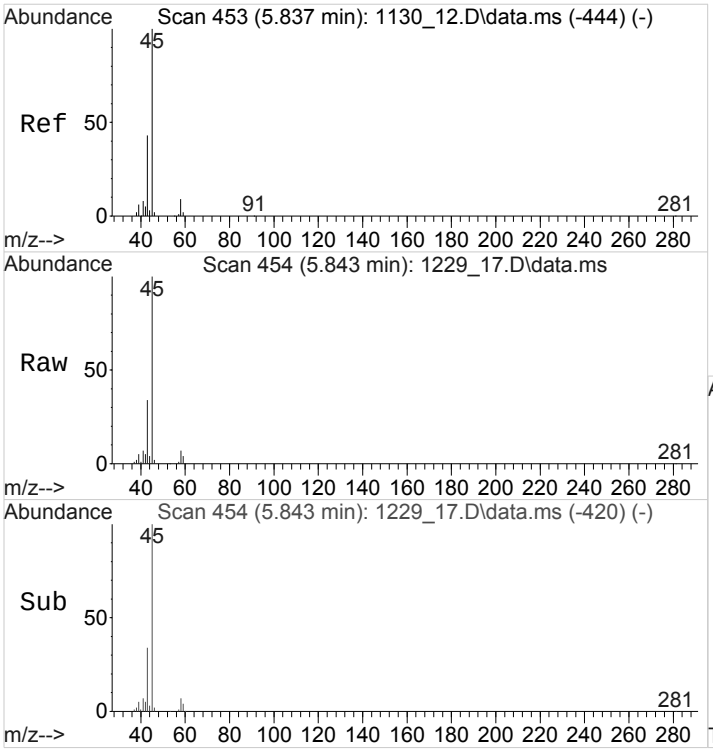
#21
Acetone
Concen: 9.7623664 ppbv
RT: 5.813 min Scan# 449
Delta R.T. -0.006 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 43 Resp: 80680

Ion	Ratio	Lower	Upper
43	100		
58	32.7	23.1	34.7



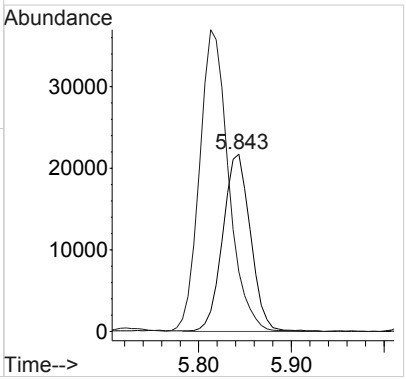
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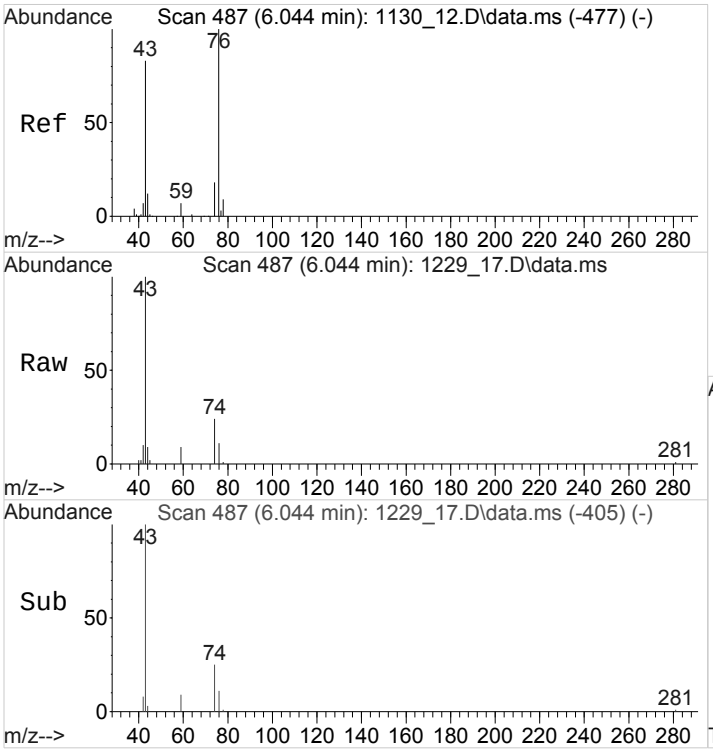


#23
2-Propanol
Concen: 4.9598318 ppbv
RT: 5.843 min Scan# 454
Delta R.T. 0.006 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 45 Resp: 45261

Ion	Ratio	Lower	Upper
45	100		
43	178.3	73.5	110.3#

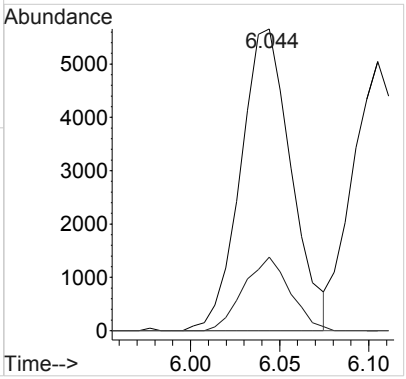




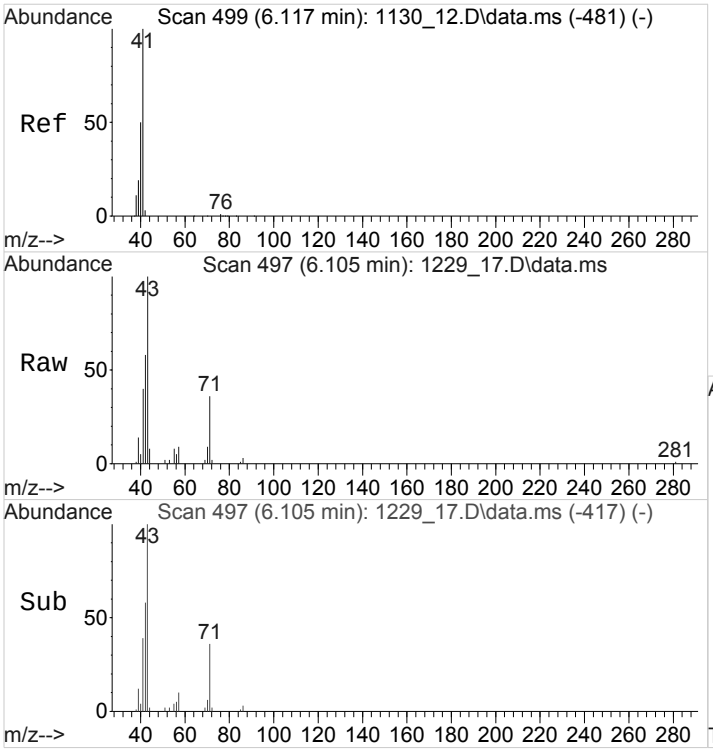
#26
METHYL ACETATE
Concen: 1.2171905 ppbv
RT: 6.044 min Scan# 487
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 43 Resp: 11176

Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.4	26.0
29	0.0	0.0	0.0



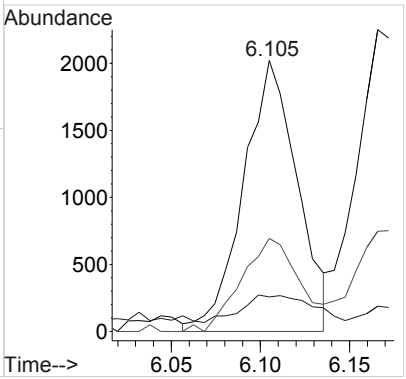
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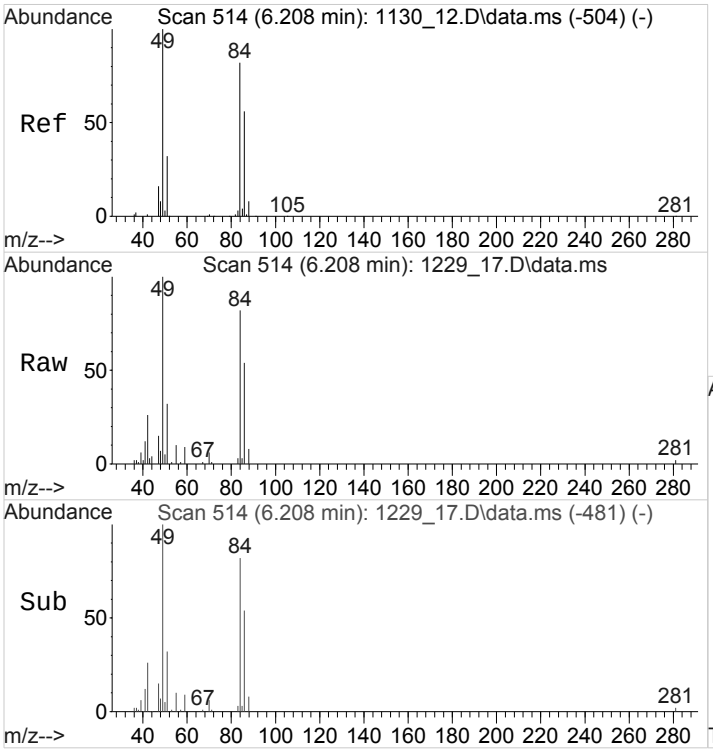


#27
ACETONITRILE
Concen: 0.8323734 ppbv
RT: 6.105 min Scan# 497
Delta R.T. -0.012 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 41 Resp: 4251

Ion	Ratio	Lower	Upper
41	100		
40	13.2	32.7	49.1#
39	37.1	22.7	34.1#

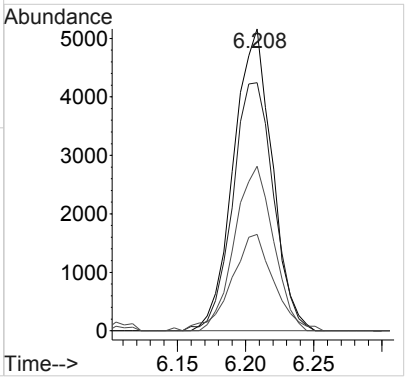




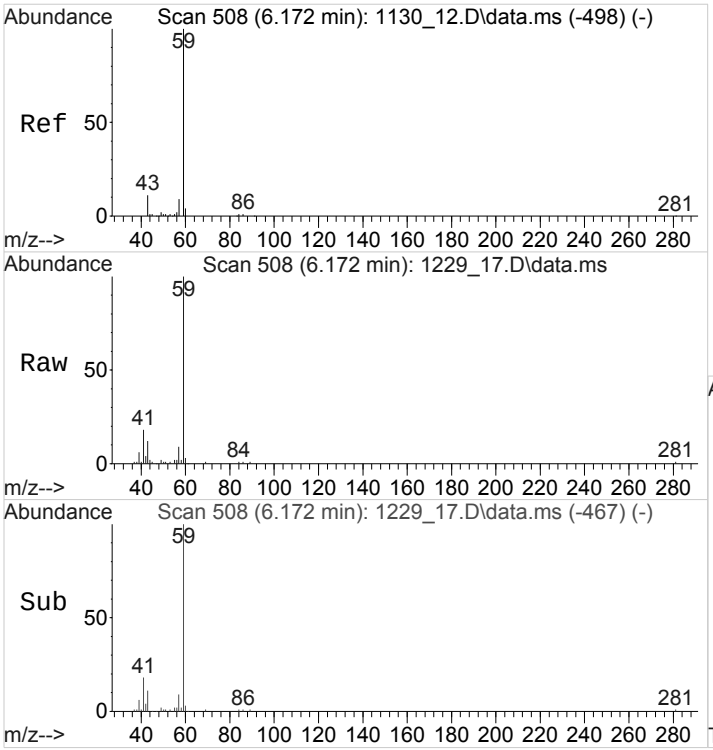
#28
Methylene Chloride
Concen: 1.7773652 ppbv
RT: 6.208 min Scan# 514
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 49 Resp: 10126

Ion	Ratio	Lower	Upper
49	100		
84	87.2	65.0	97.6
86	54.8	41.8	62.6
51	35.1	26.3	39.5



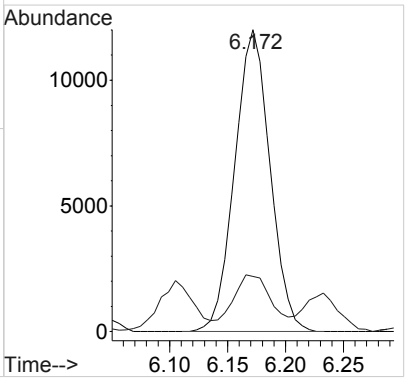
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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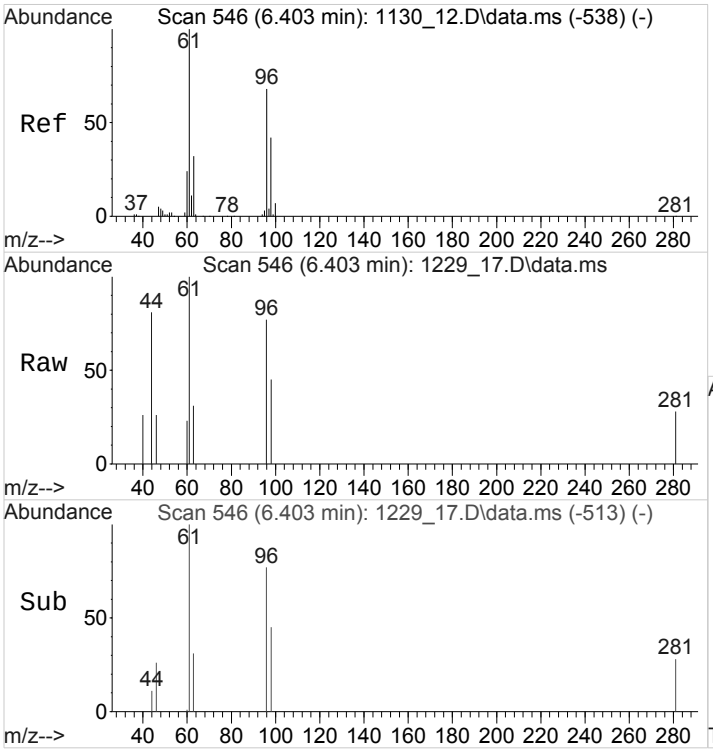


#29
TERT-BUTYL ALCOHOL
Concen: 2.6528446 ppbv
RT: 6.172 min Scan# 508
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 59 Resp: 25486

Ion	Ratio	Lower	Upper
59	100		
41	20.8	216.4	324.6#

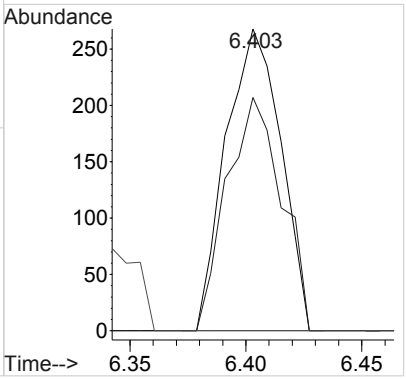




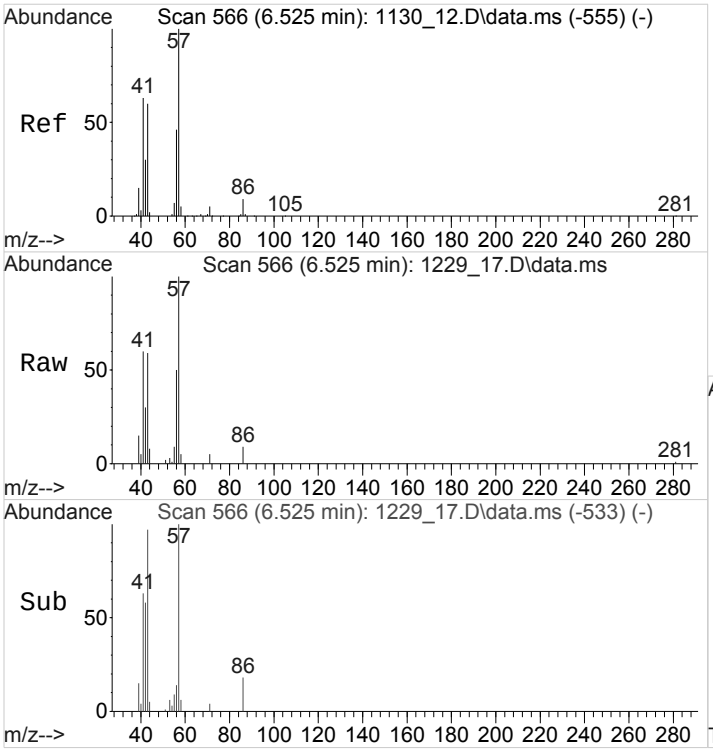
#31
Trans-1,2-Dichloroethene
Concen: 0.0536357 ppbv
RT: 6.403 min Scan# 546
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 61 Resp: 442

Ion	Ratio	Lower	Upper
61	100		
96	77.1	54.1	81.1
73	31.9	124.1	186.1#



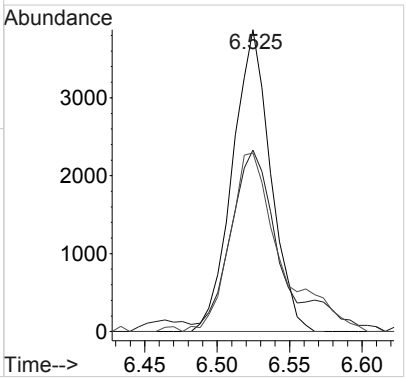
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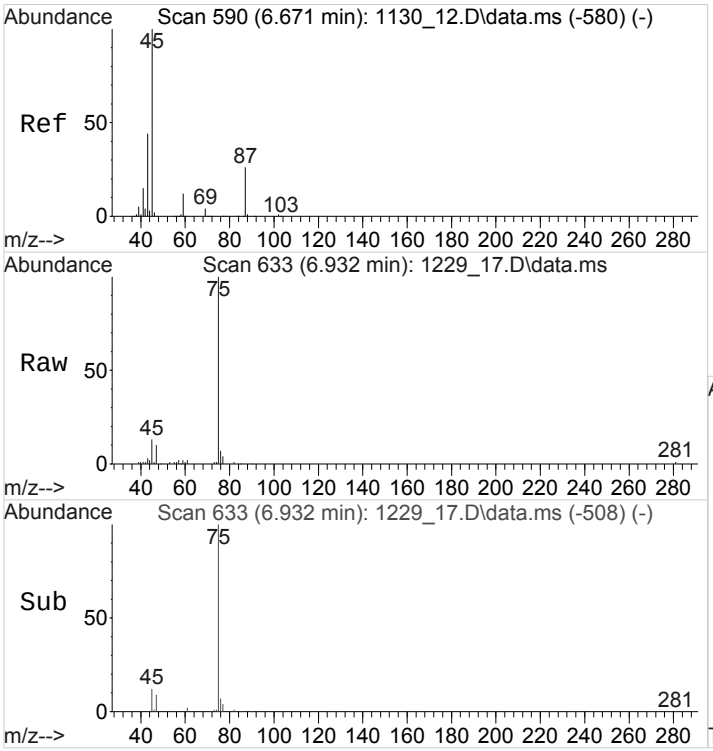


#33
n-Hexane
Concen: 0.9249727 ppbv
RT: 6.525 min Scan# 566
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 57 Resp: 7100

Ion	Ratio	Lower	Upper
57	100		
41	78.4	50.9	76.3#
43	78.5	48.4	72.6#

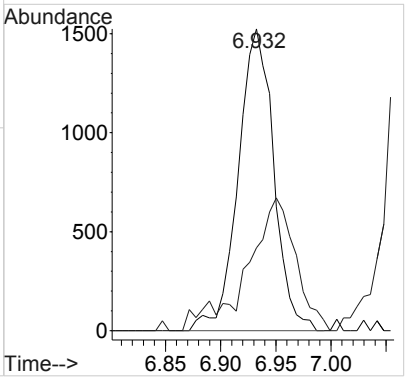




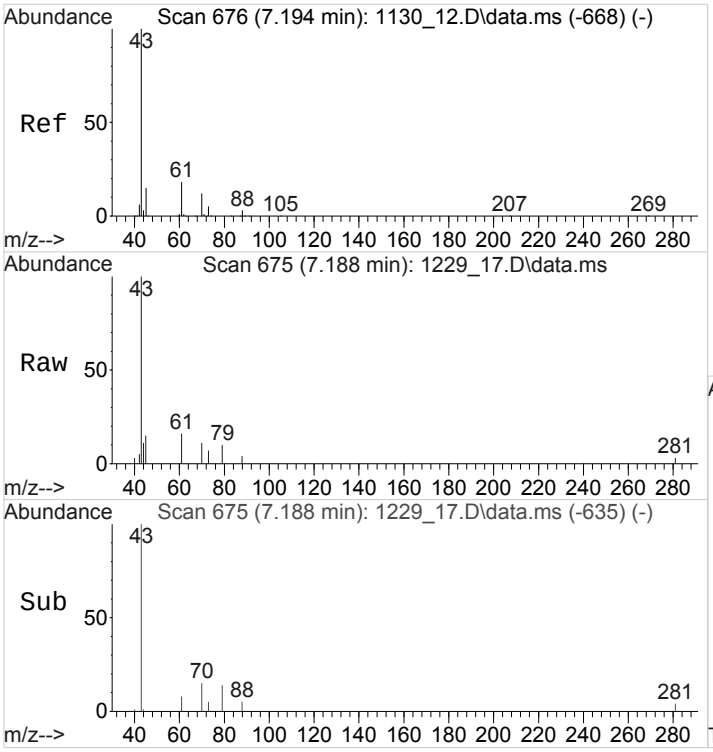
#36
DI-ISOPROPYL ETHER
Concen: 0.2210577 ppbv
RT: 6.932 min Scan# 633
Delta R.T. 0.262 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 45 Resp: 3438

Ion	Ratio	Lower	Upper
45	100		
43	51.4	36.7	55.1



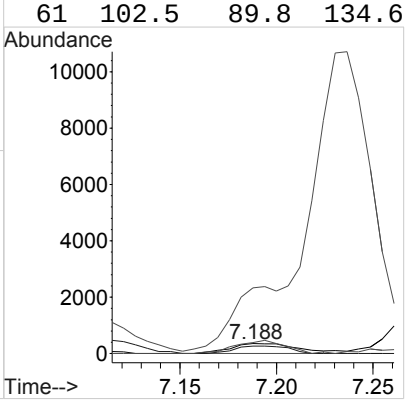
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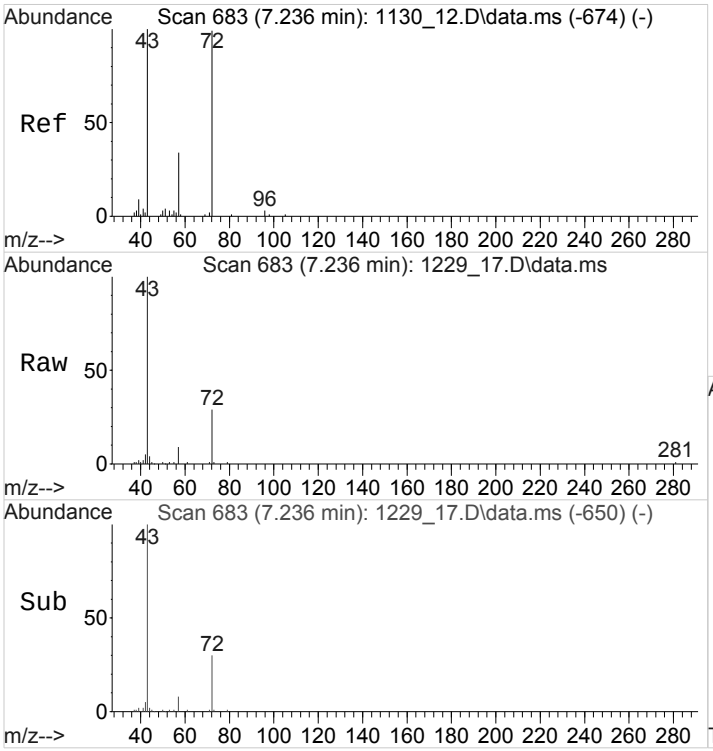


#38
ETHYL ACETATE
Concen: 0.4874403 ppbv
RT: 7.188 min Scan# 675
Delta R.T. -0.006 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 45 Resp: 836

Ion	Ratio	Lower	Upper
45	100		
70	62.0	60.5	90.7
43	0.0	543.4	815.0#
61	102.5	89.8	134.6

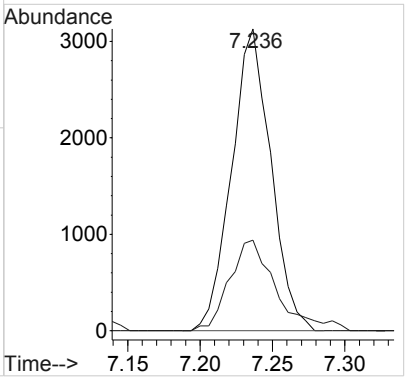




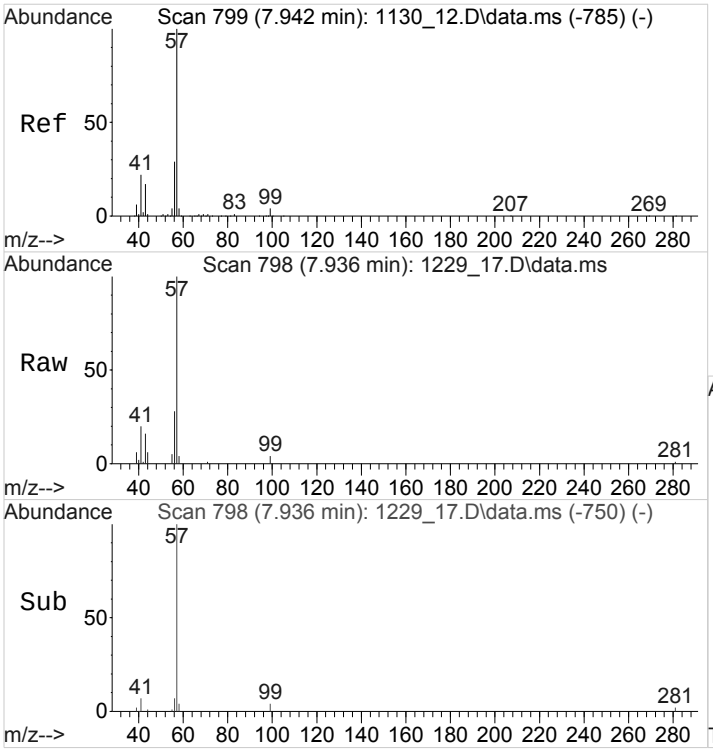
#39
2-Butanone (MEK)
Concen: 2.3337007 ppbv
RT: 7.236 min Scan# 683
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 72 Resp: 5897

Ion	Ratio	Lower	Upper
72	100		
57	35.6	27.3	40.9



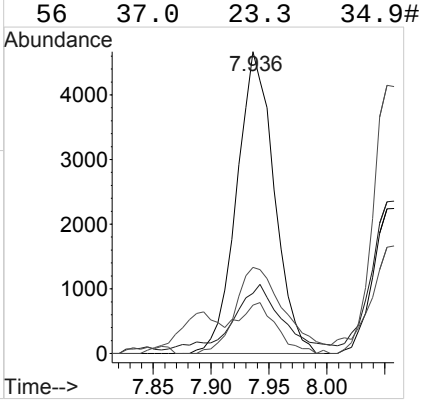
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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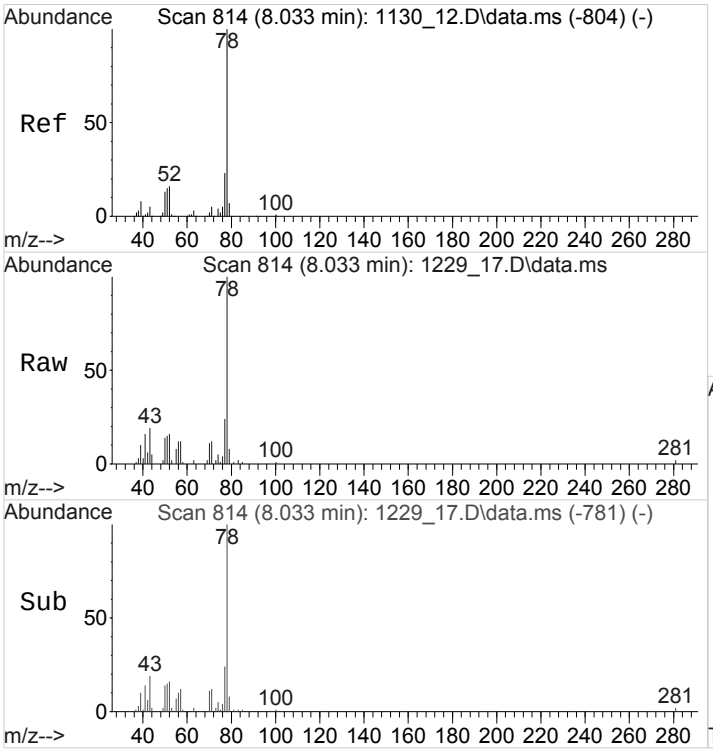


#46
2,2,4-Trimethylpentane
Concen: 0.4171797 ppbv
RT: 7.936 min Scan# 798
Delta R.T. -0.006 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 57 Resp: 10540

Ion	Ratio	Lower	Upper
57	100		
41	28.1	18.2	27.2#
43	17.5	13.3	19.9
56	37.0	23.3	34.9#

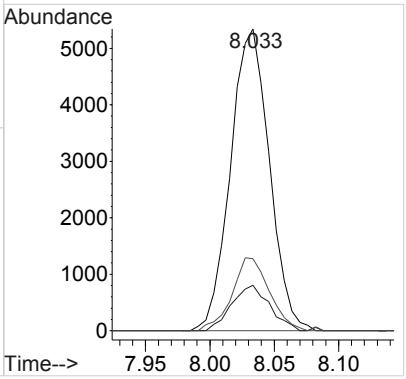




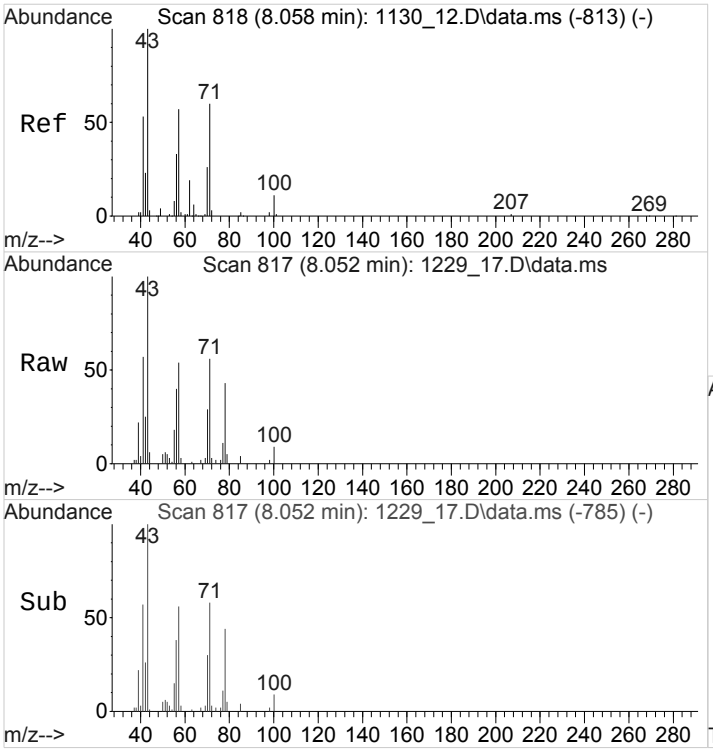
#48
Benzene
Concen: 0.7279026 ppbv
RT: 8.033 min Scan# 814
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 78 Resp: 11213

Ion	Ratio	Lower	Upper
78	100		
51	14.8	12.1	18.1
77	23.5	18.8	28.2



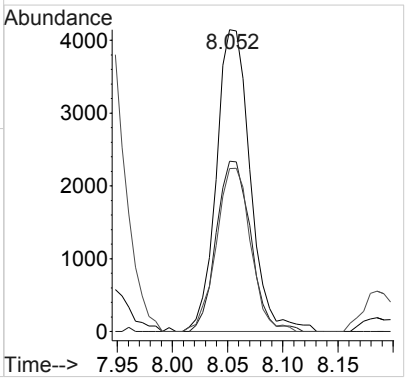
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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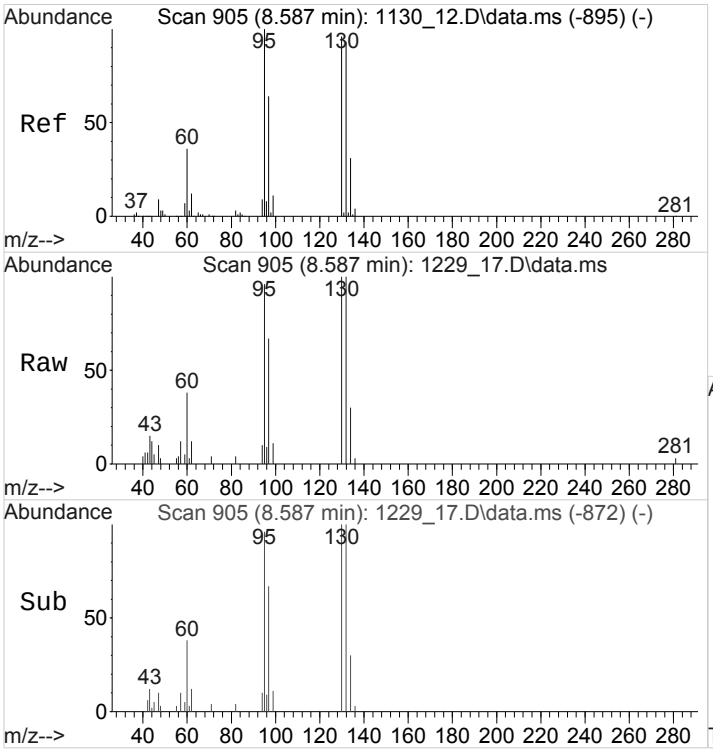


#51
Heptane
Concen: 1.0492303 ppbv
RT: 8.052 min Scan# 817
Delta R.T. -0.006 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 43 Resp: 8869

Ion	Ratio	Lower	Upper
43	100		
71	57.3	47.0	70.4
57	54.9	43.9	65.9

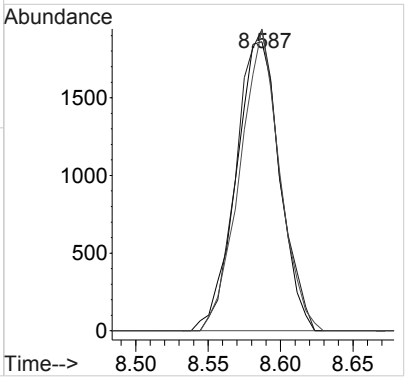




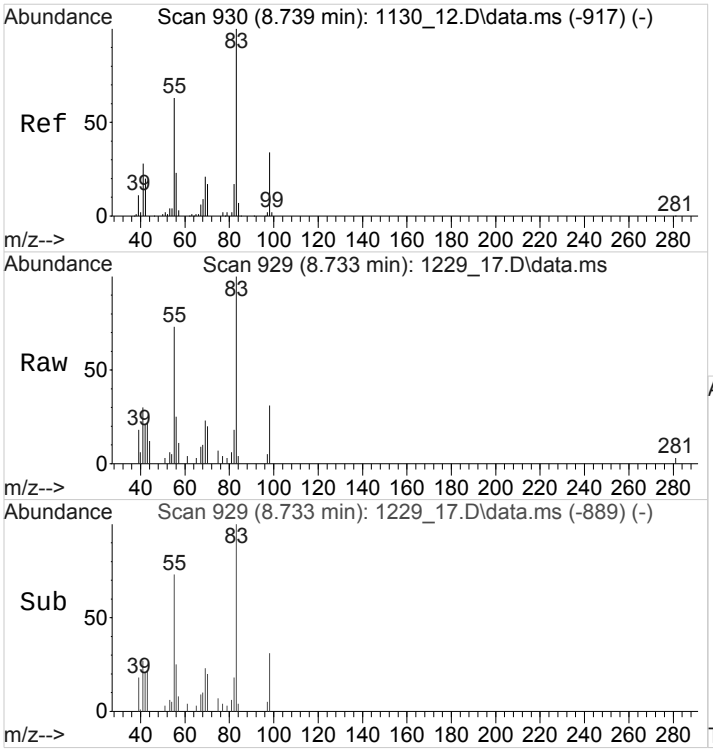
#52
Trichloroethene
Concen: 0.5167585 ppbv
RT: 8.587 min Scan# 905
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 95 Resp: 3892

Ion	Ratio	Lower	Upper
95	100		
130	102.8	76.9	115.3
132	95.5	73.3	109.9



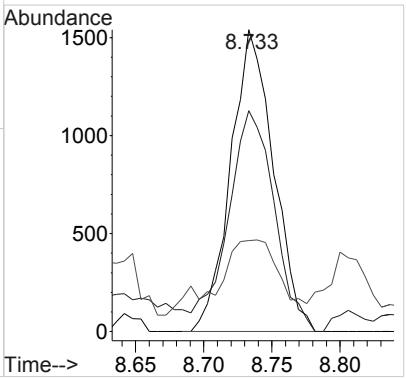
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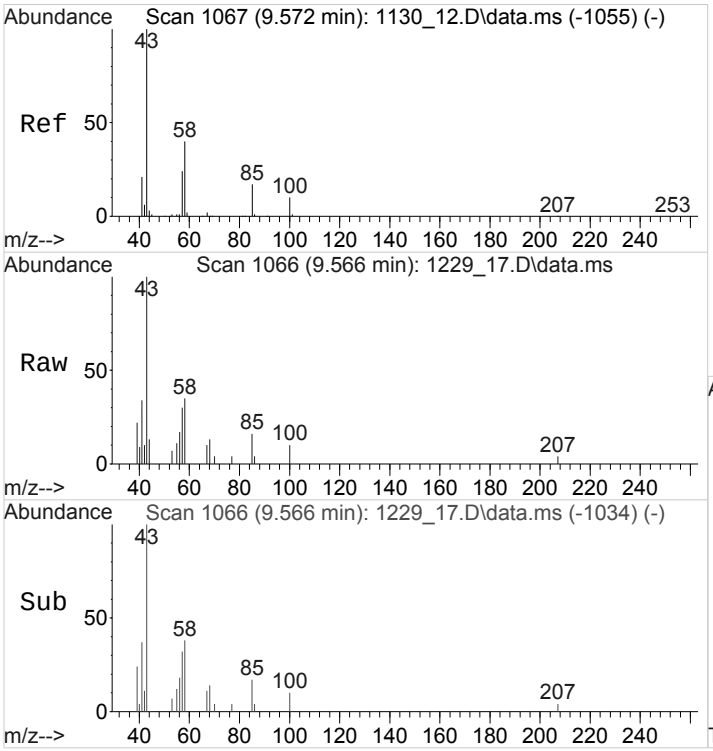


#54
METHYL CYCLOHEXANE
Concen: 0.3300772 ppbv
RT: 8.733 min Scan# 929
Delta R.T. -0.006 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 83 Resp: 3361

Ion	Ratio	Lower	Upper
83	100		
55	79.0	66.6	99.8
41	39.2	26.8	40.2

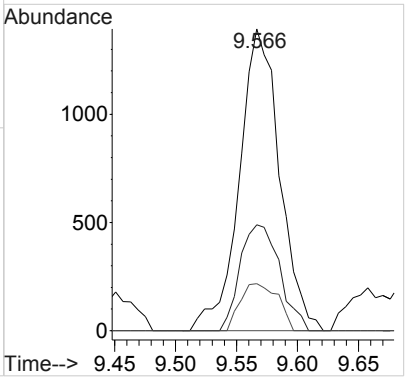




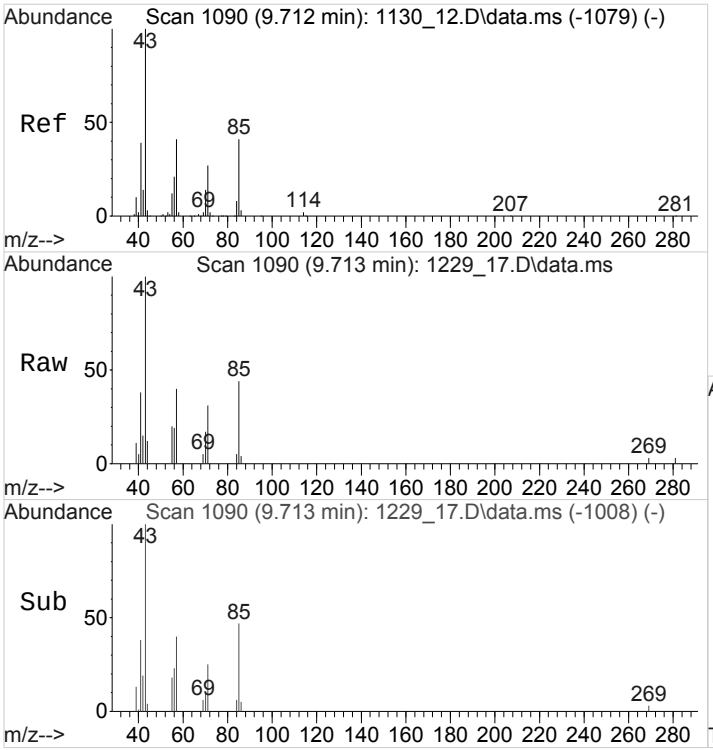
#60
4-Methyl-2-Pentanone (MIBK)
Concen: 0.2922484 ppbv
RT: 9.566 min Scan# 1066
Delta R.T. -0.006 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 43 Resp: 3212

Ion	Ratio	Lower	Upper
43	100		
58	34.4	33.0	49.6
85	14.6	14.7	22.1#



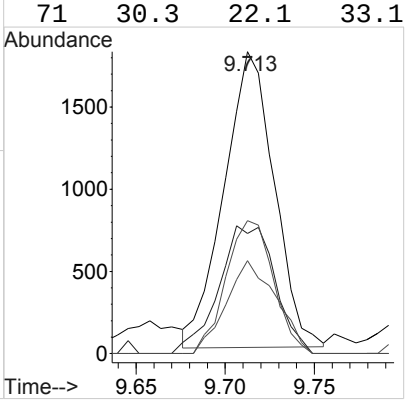
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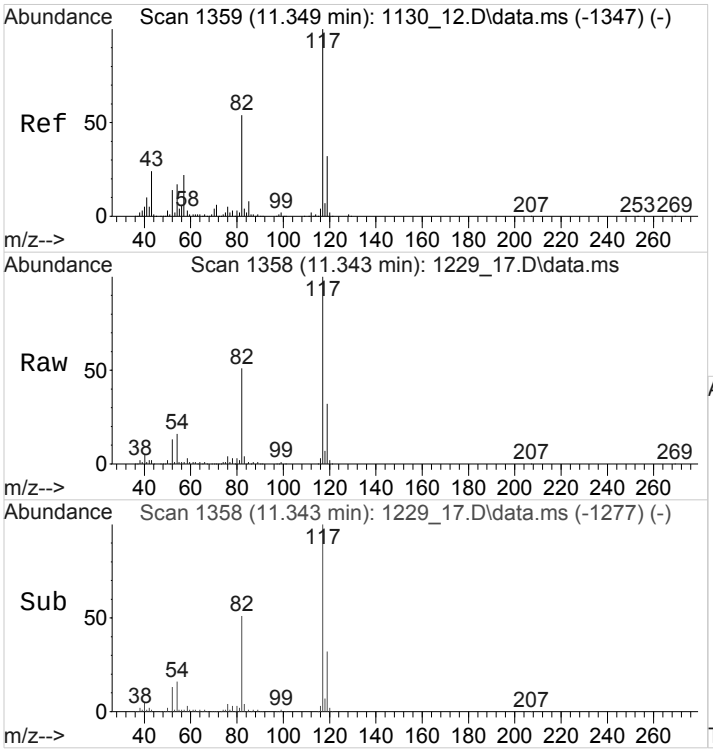


#61
n-OCTANE
Concen: 0.2648354 ppbv
RT: 9.713 min Scan# 1090
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 43 Resp: 3521

Ion	Ratio	Lower	Upper
43	100		
57	48.3	33.1	49.7
85	43.2	33.1	49.7
71	30.3	22.1	33.1

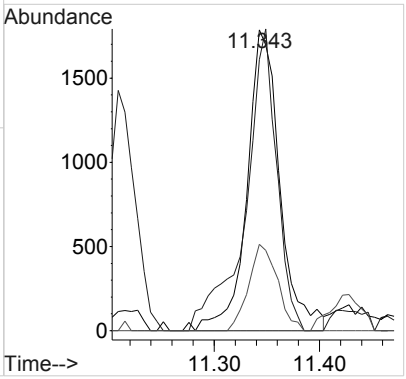




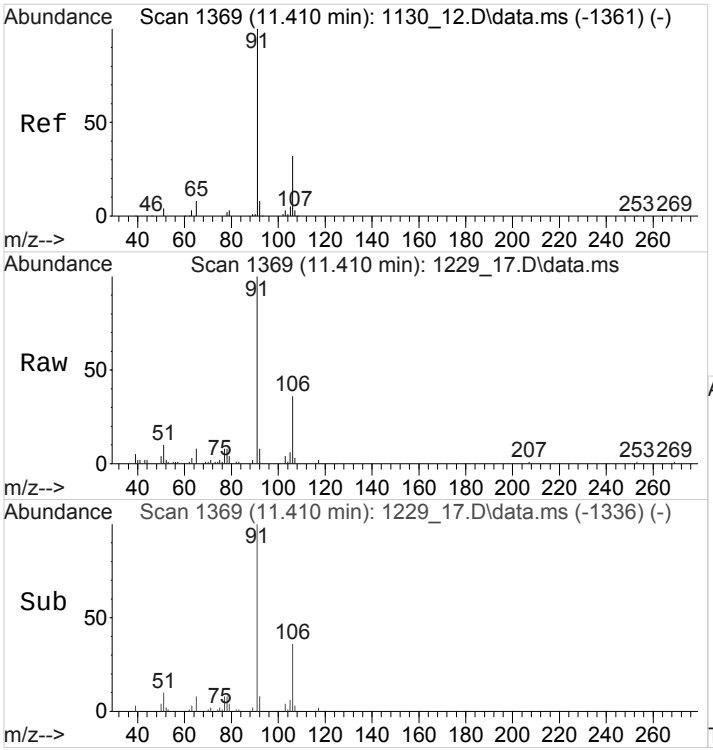
#70
NONANE
Concen: 0.2751449 ppbv
RT: 11.343 min Scan# 1358
Delta R.T. -0.006 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 43 Resp: 3872

Ion	Ratio	Lower	Upper
43	100		
57	95.5	74.6	112.0
71	25.2	20.0	30.0
128	0.0	1.9	2.9#



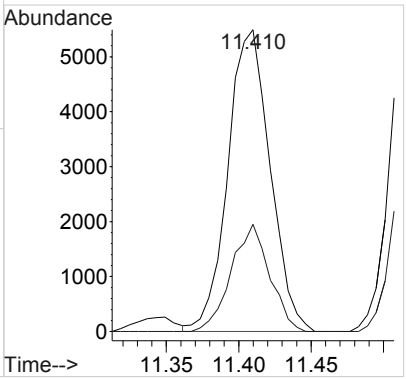
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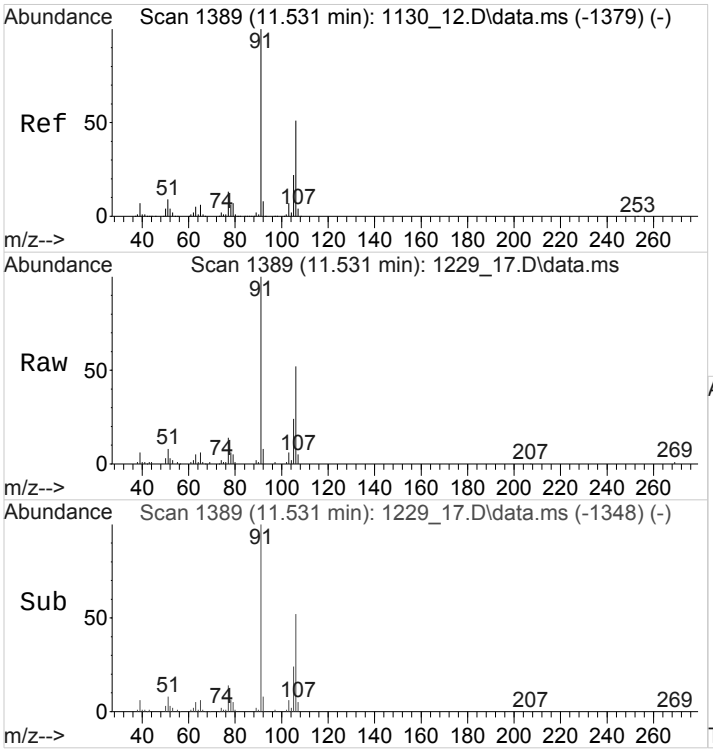


#72
Ethylbenzene
Concen: 0.4901700 ppbv
RT: 11.410 min Scan# 1369
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 91 Resp: 11123

Ion	Ratio	Lower	Upper
91	100		
106	32.3	25.6	38.4

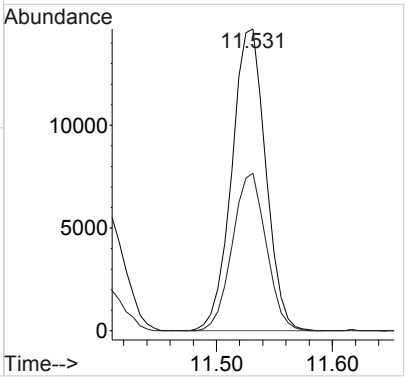




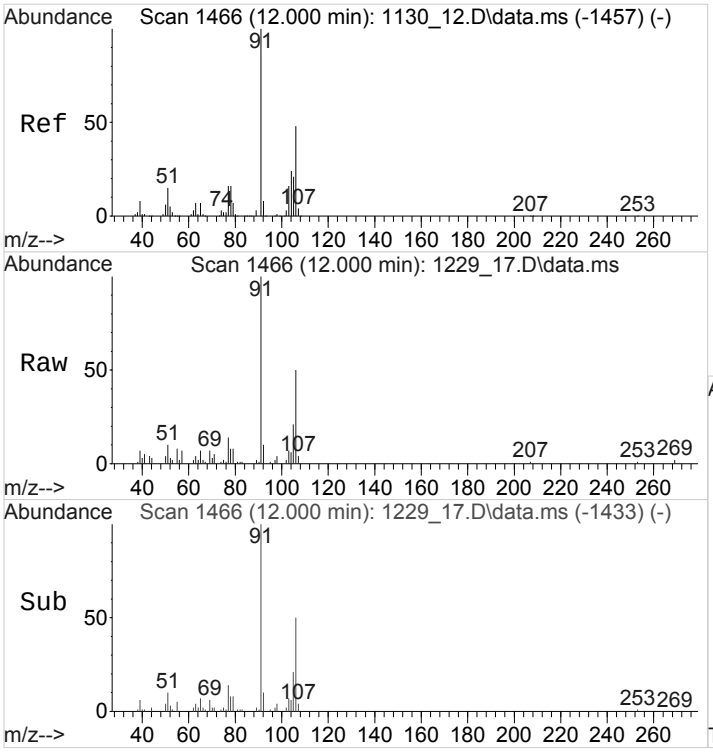
#73
M&P-Xylene
Concen: 1.6804750 ppbv
RT: 11.531 min Scan# 1389
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 91 Resp: 29885

Ion	Ratio	Lower	Upper
91	100		
106	52.0	39.7	59.5



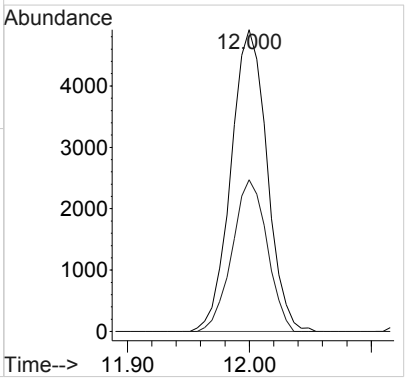
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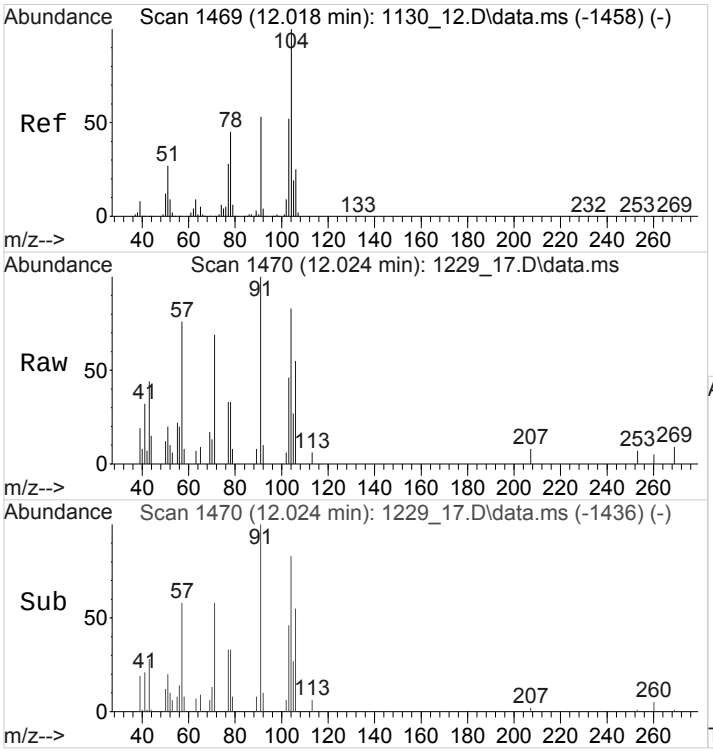


#74
O-Xylene
Concen: 0.5375000 ppbv
RT: 12.000 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 91 Resp: 10082

Ion	Ratio	Lower	Upper
91	100		
106	48.7	38.4	57.6

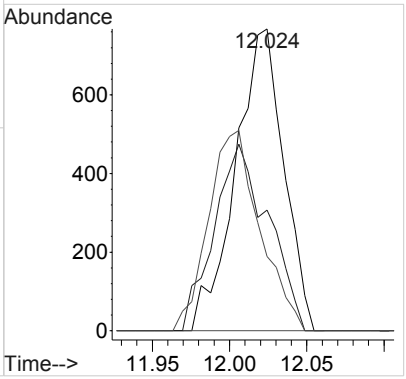




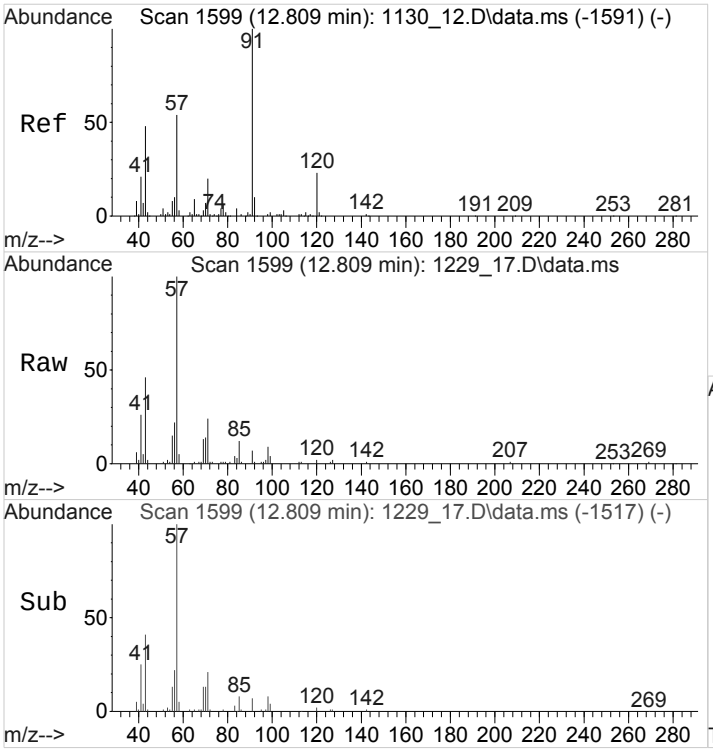
#77
Styrene
Concen: 0.1109661 ppbv
RT: 12.024 min Scan# 1470
Delta R.T. 0.006 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion:104 Resp: 1666

Ion	Ratio	Lower	Upper
104	100		
78	69.3	38.6	58.0#
51	70.5	26.1	39.1#



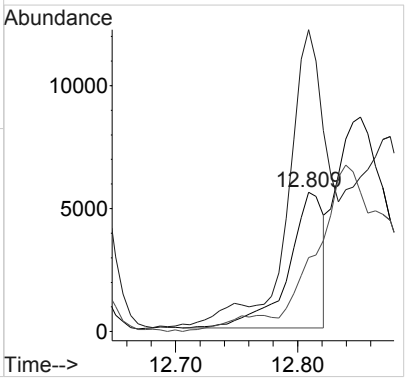
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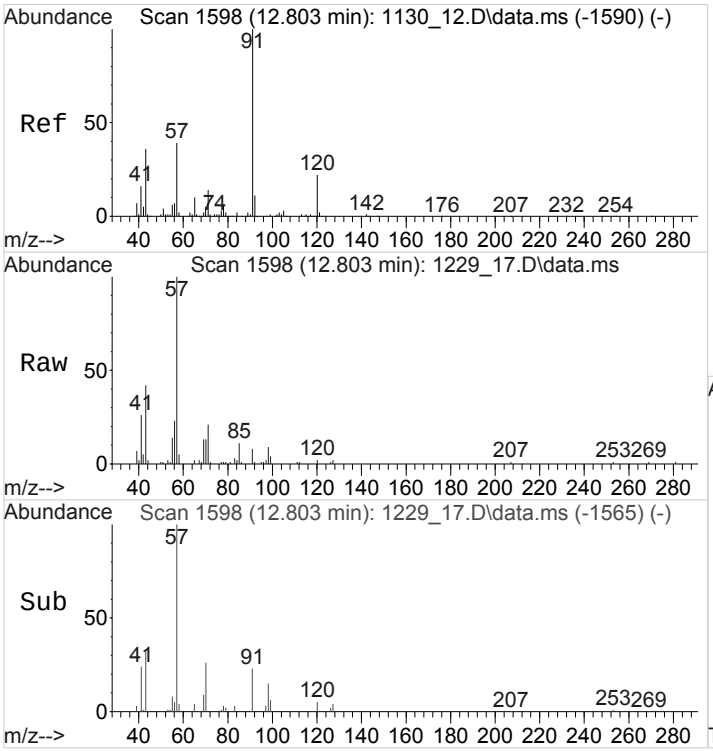


#80
n-DECANE
Concen: 0.9368547 ppbv
RT: 12.809 min Scan# 1599
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 43 Resp: 11130

Ion	Ratio	Lower	Upper
43	100		
57	196.2	89.7	134.5#
71	17.7	34.1	51.1#

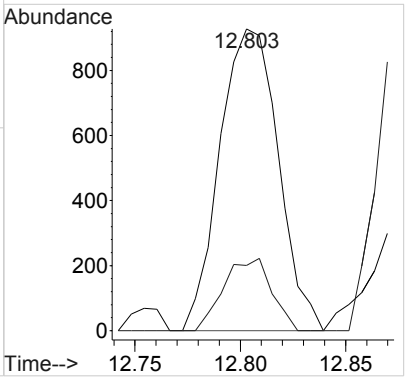


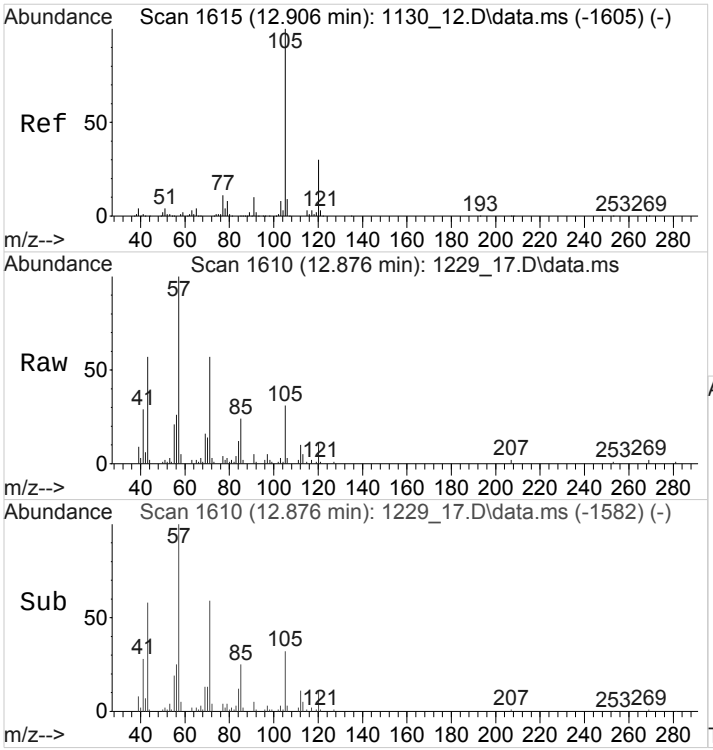


#82
n-Propylbenzene
Concen: 0.0625447 ppbv
RT: 12.803 min Scan# 1598
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion: 91 Resp: 1795

Ion	Ratio	Lower	Upper
91	100		
120	19.6	17.8	26.6

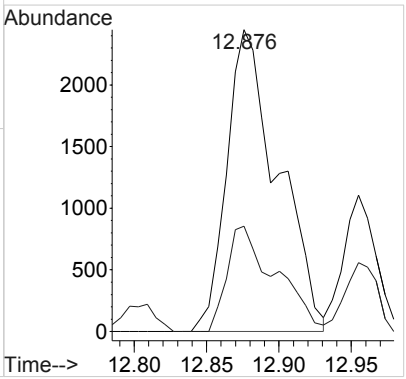


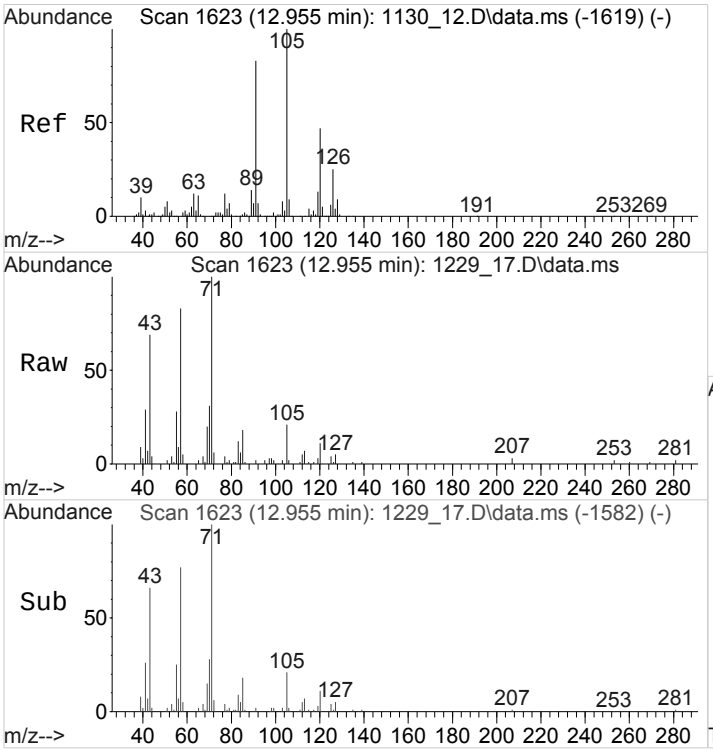


#83
4-Ethyltoluene
Concen: 0.2554798 ppbv
RT: 12.876 min Scan# 1610
Delta R.T. -0.030 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion:105 Resp: 6021

Ion	Ratio	Lower	Upper
105	100		
120	33.2	24.6	36.8

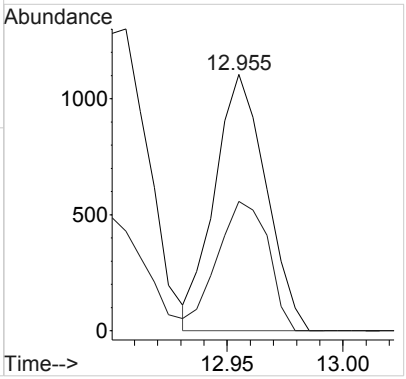




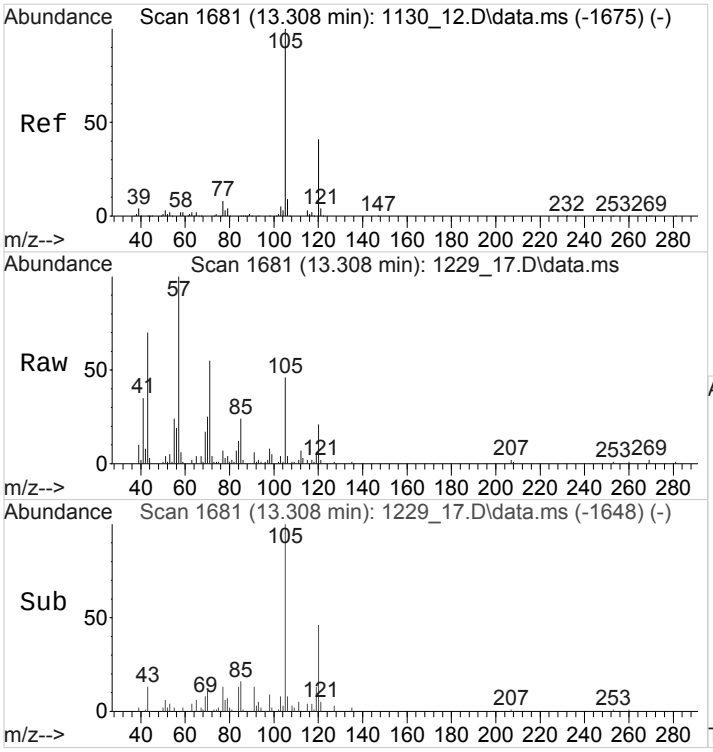
#86
1,3,5-Trimethylbenzene
Concen: 0.0879102 ppbv
RT: 12.955 min Scan# 1623
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion:105 Resp: 1707

Ion	Ratio	Lower	Upper
105	100		
120	50.0	37.7	56.5



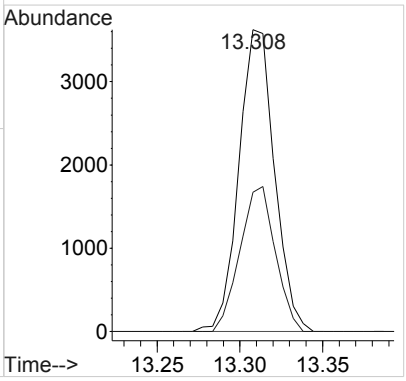
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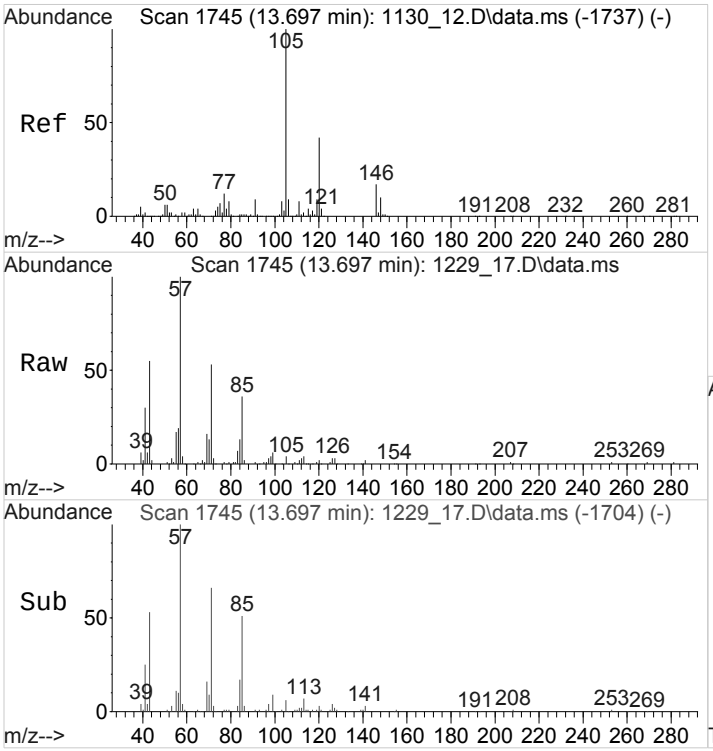


#88
1,2,4-Trimethylbenzene
Concen: 0.2867133 ppbv
RT: 13.308 min Scan# 1681
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion:105 Resp: 5435

Ion	Ratio	Lower	Upper
105	100		
120	47.7	35.9	53.9

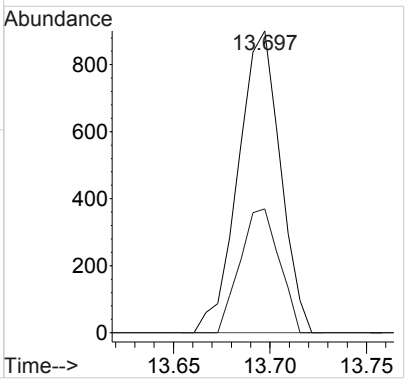




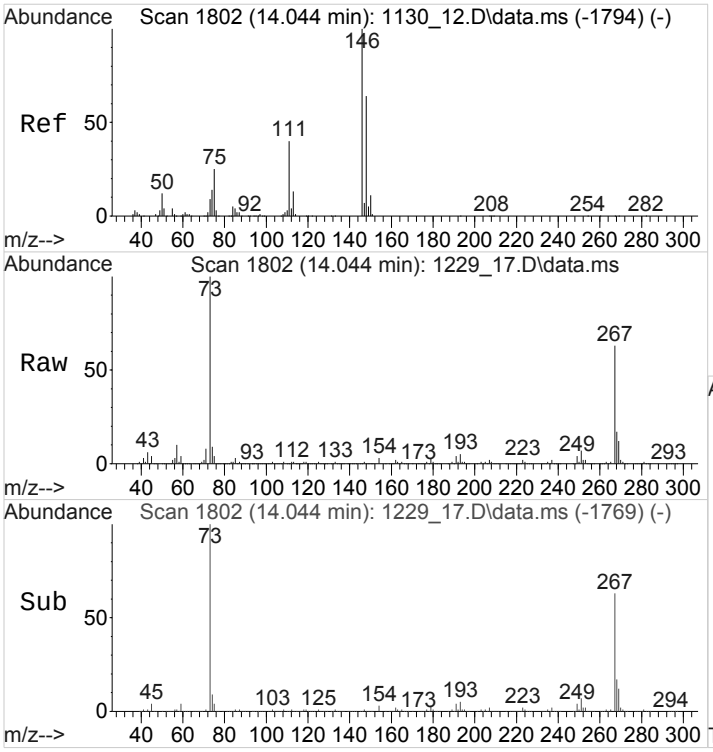
#93
1,2,3-TRIMETHYLBENZENE
Concen: 0.0741365 ppbv
RT: 13.697 min Scan# 1745
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion:105 Resp: 1367

Ion	Ratio	Lower	Upper
105	100		
120	38.4	34.0	51.0



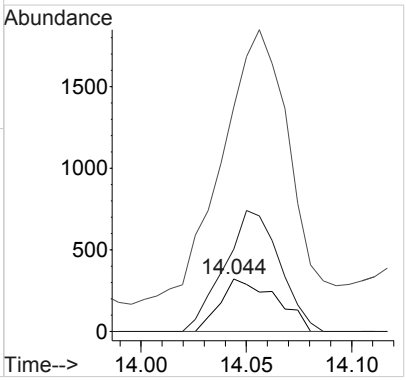
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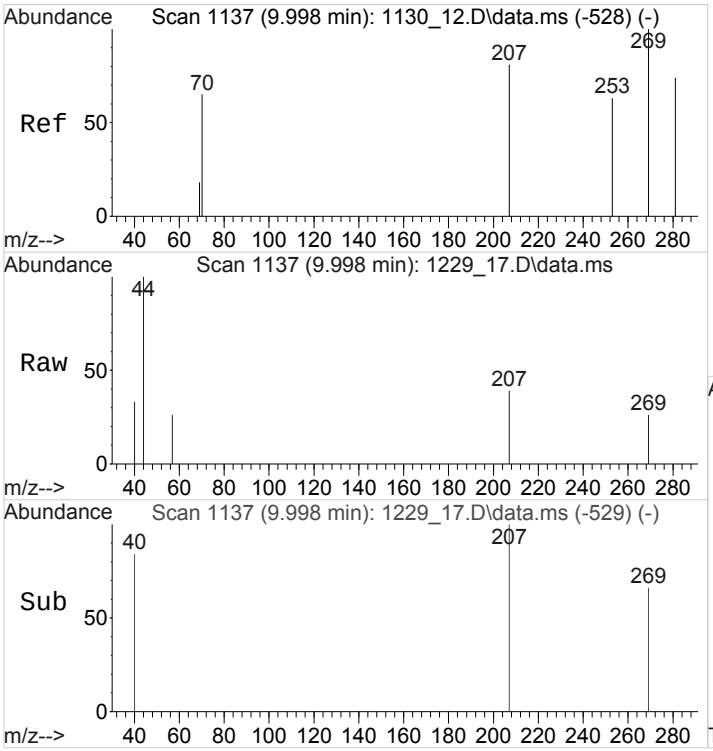


#96
1,2-Dichlorobenzene
Concen: 0.0514023 ppbv
RT: 14.044 min Scan# 1802
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion:146 Resp: 595

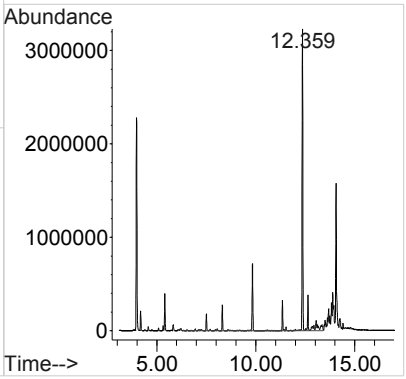
Ion	Ratio	Lower	Upper
146	100		
148	227.9	51.5	77.3#
111	648.1	31.8	47.6#



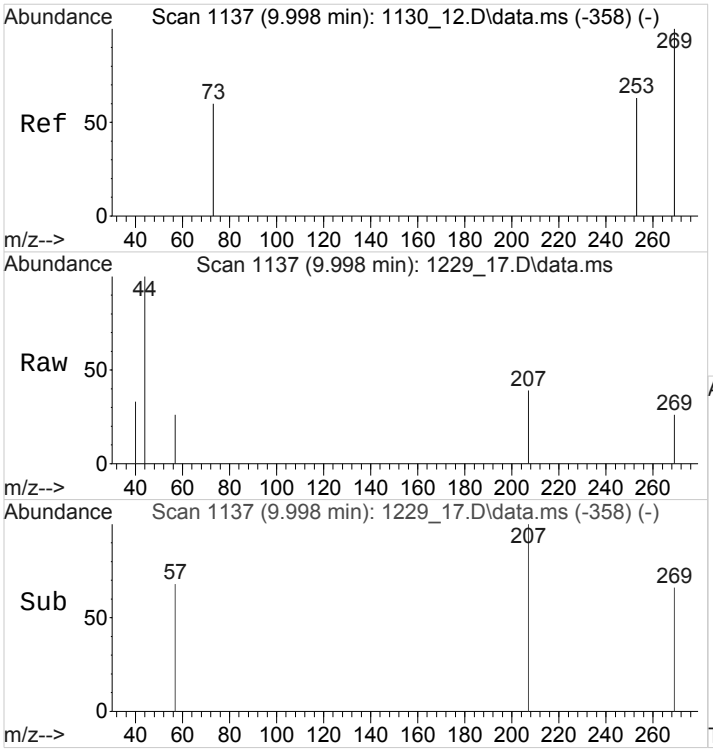


#101
TPH (GC/MS) Low Fraction
Concen: 365.7690583 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion:TIC Resp:12883743

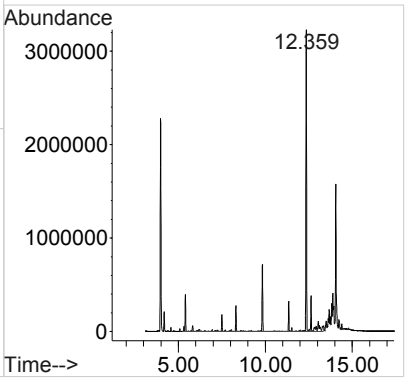


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#102
TPH-GRO (C5-C10)
Concen: 475.5430059 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 10:21 pm

Tgt Ion:TIC Resp:14136272



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SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
785-VMP-5_1222

Lab Sample ID:	L1570581-05	**SDG:**	L1570581
Client Sample ID:	785-VMP-5_1222	**Collected Date/Time:**	12/21/22 16:00
Lab File ID:	1229_18	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 23:03
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 23:03
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.82	10.2		1.39	2.85	5.70
Benzene	71-43-2	8.03	0.642	J	0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	0	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	0.556	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	11.41	0.455	J	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	12.88	0.982	U	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.34	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	2.20	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.69	1.53	U	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	6.20	0.722	J	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	1.27	J	0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	12.02	0.410	J	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	0	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	9.82	2.17		0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
785-VMP-5_1222

Lab Sample ID:	L1570581-05	**SDG:**	L1570581
Client Sample ID:	785-VMP-5_1222	**Collected Date/Time:**	12/21/22 16:00
Lab File ID:	1229_18	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 23:03
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 23:03
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.58	0.380	J	0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	13.31	0.393	J	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	1.12	J	0.585	1.30	2.60
o-Xylene	95-47-6	12.01	0.460	J	0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_18.D
Acq On : 29 Dec 2022 11:03 pm
Operator :
Sample : L1570581-05 1x WG1980894
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 31 07:34:35 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

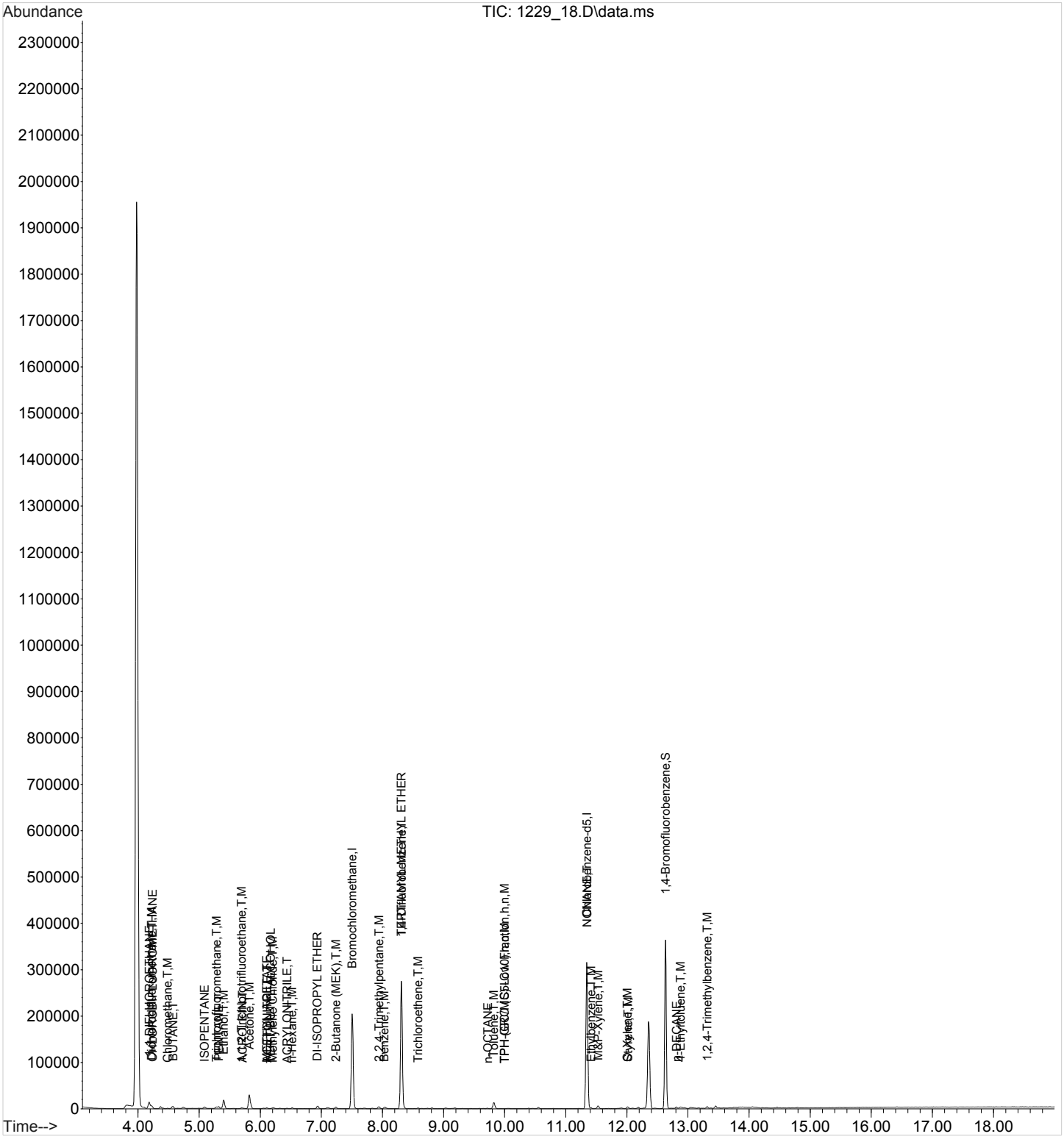
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	76558	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	272316	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	236493	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	134682	3.3376953	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 83.44%				
Target Compounds							Qvalue
3) BUTANE	4.572	43	3394	0.4831262	ppbv		99
4) 1,1-DIFLUOROETHANE	4.183	51	10398	1.7224678	ppbv		96
5) Dichlorodifluoromethane	4.219	85	5782	0.4451334	ppbv		99
6) CHLORODIFLUOROMETHANE	4.237	51	1459	0.1992788	ppbv		95
8) Chloromethane	4.481	50	1256	0.2689804	ppbv		98
13) ISOPENTANE	5.089	43	1449	0.2986169	ppbv	#	89
15) Trichlorofluoromethane	5.284	101	2586	0.2378254	ppbv		97
16) PENTANE	5.320	43	2727	0.2732198	ppbv		97
17) Ethanol	5.399	45	24144	9.8240185	ppbv		99
18) ACROLEIN	5.710	56	243	0.1065135	ppbv	#	79
19) 1,1,2-Trichlorotrifluo...	5.691	101	896	0.0761654	ppbv		93
21) Acetone	5.819	43	36180	4.3066259	ppbv	#	88
26) METHYL ACETATE	6.105	43	1460	0.1564244	ppbv	#	54
27) ACETONITRILE	6.111	41	814	0.1567945	ppbv	#	67
28) Methylene Chloride	6.202	49	1207	0.2084133	ppbv		97
29) TERT-BUTYL ALCOHOL	6.172	59	650	0.0665584	ppbv	#	1
32) ACRYLONITRILE	6.440	53	836	0.1939255	ppbv		98
33) n-Hexane	6.519	57	1141	0.1462297	ppbv		87
36) DI-ISOPROPYL ETHER	6.932	45	1048	0.0662888	ppbv		99
39) 2-Butanone (MEK)	7.237	72	1104	0.4297961	ppbv		99
46) 2,2,4-Trimethylpentane	7.942	57	4805	0.1870921	ppbv		96
48) Benzene	8.027	78	3084	0.2007551	ppbv		94
49) TERT-AMYL METHYL ETHER	8.307	73	2537	0.1677987	ppbv	#	47
52) Trichloroethene	8.581	95	533	0.0709648	ppbv		87
61) n-OCTANE	9.725	43	665	0.0501571	ppbv	#	87
62) Toluene	9.822	91	11353	0.5766732	ppbv		99
70) NONANE	11.349	43	1333	0.0949854	ppbv	#	92
72) Ethylbenzene	11.410	91	2370	0.1046663	ppbv		91
73) M&P-Xylene	11.525	91	4601	0.2592775	ppbv		99
74) O-Xylene	12.006	91	1976	0.1055729	ppbv		93
77) Styrene	12.018	104	1446	0.0965200	ppbv		98
80) n-DECANE	12.815	43	1076	0.0907660	ppbv		93
83) 4-Ethyltoluene	12.876	105	1655	0.0703752	ppbv		89
88) 1,2,4-Trimethylbenzene	13.314	105	1514	0.0800402	ppbv		92
101) TPH (GC/MS) Low Fraction	10.000	TIC	841146m	23.9314950	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	1002981m	33.8128031	ppbv		

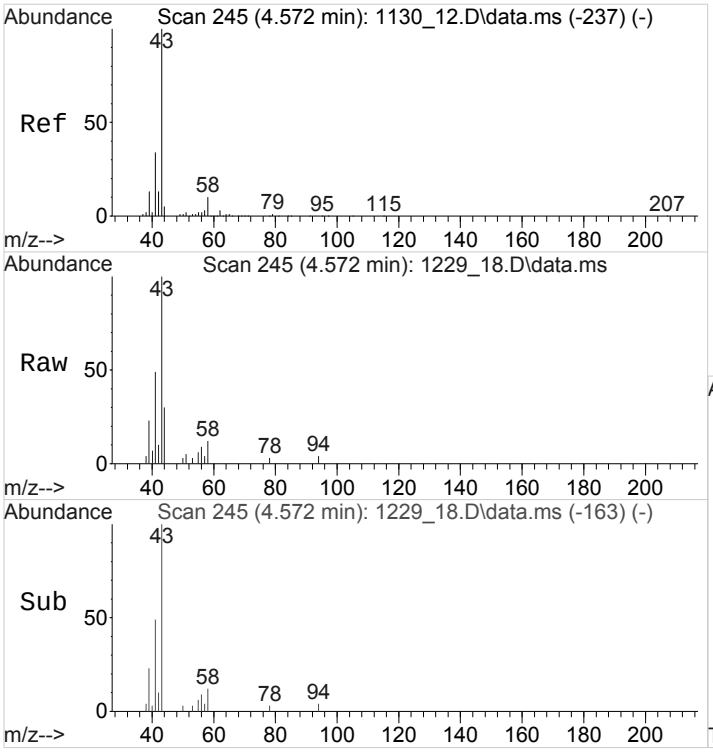
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_18.D
Acq On : 29 Dec 2022 11:03 pm
Operator :
Sample : L1570581-05 1x WG1980894
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 31 07:34:35 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

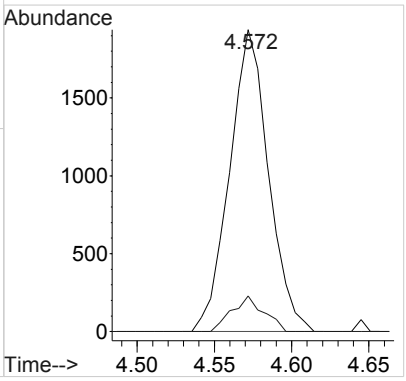


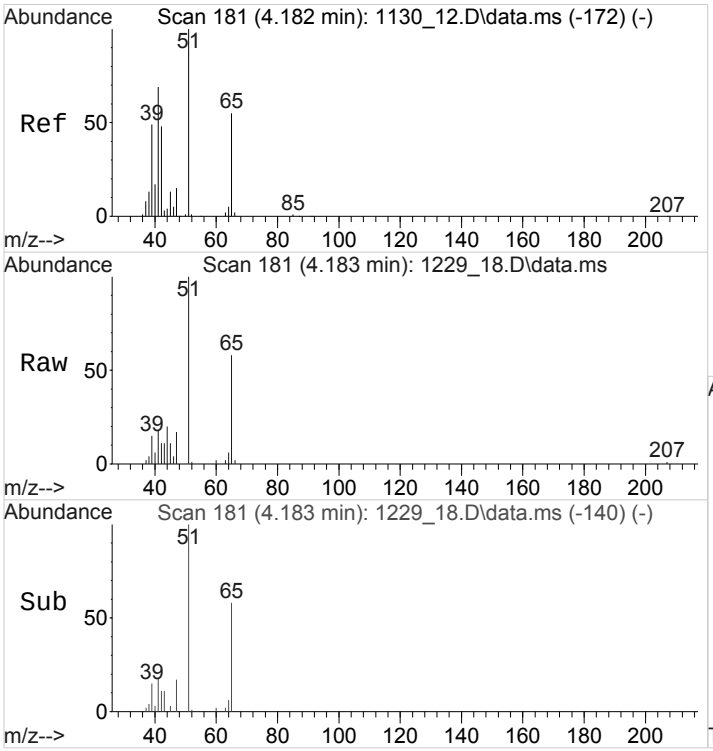


#3
BUTANE
Concen: 0.4831262 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 43 Resp: 3394

Ion	Ratio	Lower	Upper
43	100		
58	9.7	8.0	12.0

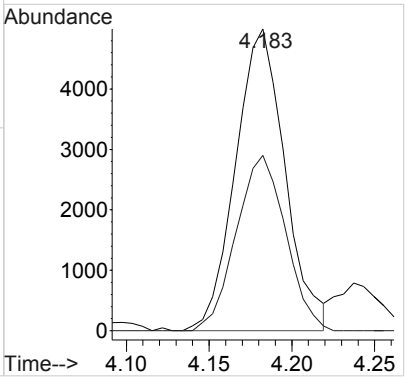




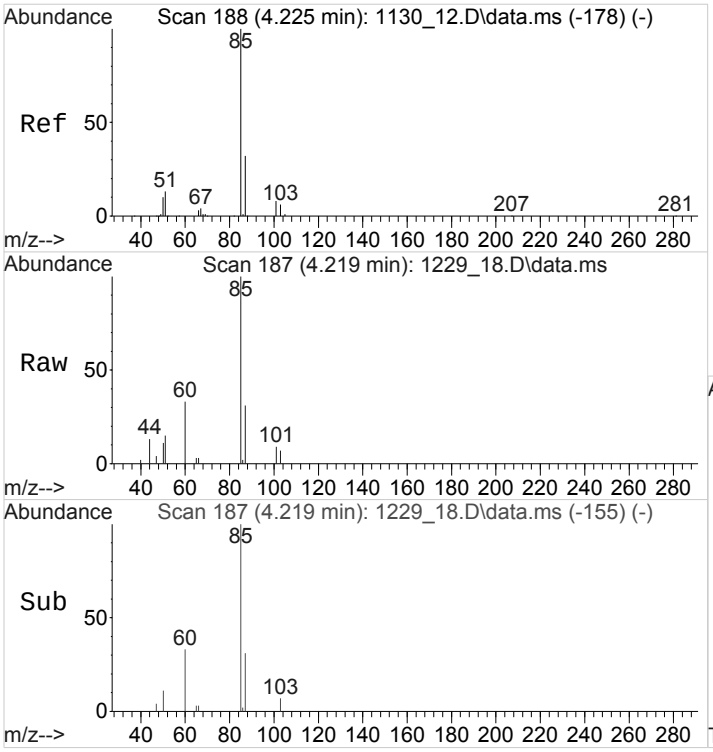
#4
1,1-DIFLUOROETHANE
Concen: 1.7224678 ppbv
RT: 4.183 min Scan# 181
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 51 Resp: 10398

Ion	Ratio	Lower	Upper
51	100		
65	58.0	44.1	66.1



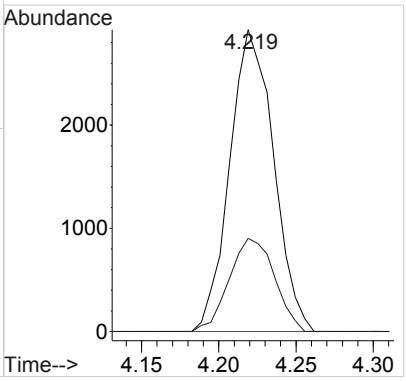
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BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	125 of 500

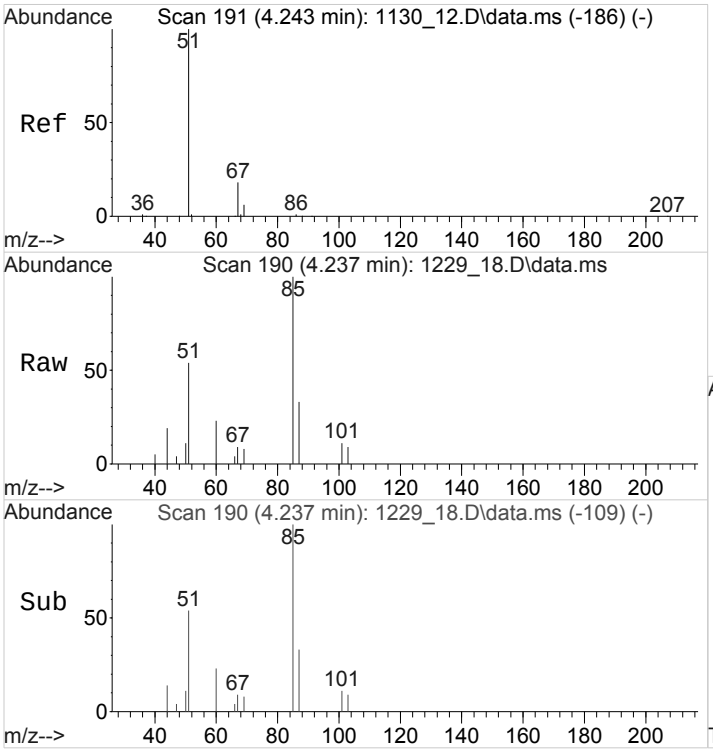


#5
Dichlorodifluoromethane
Concen: 0.4451334 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 85 Resp: 5782

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.8	38.6

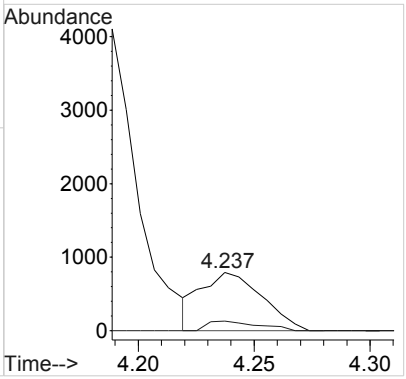




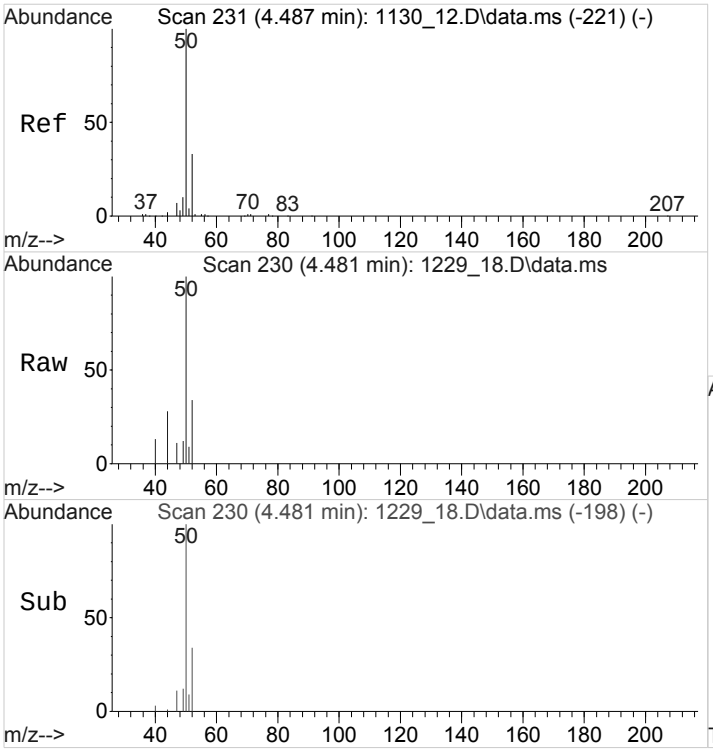
#6
CHLORODIFLUOROMETHANE
Concen: 0.1992788 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 51 Resp: 1459

Ion	Ratio	Lower	Upper
51	100		
67	14.1	13.0	19.4



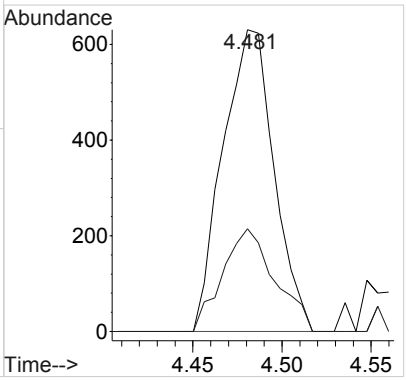
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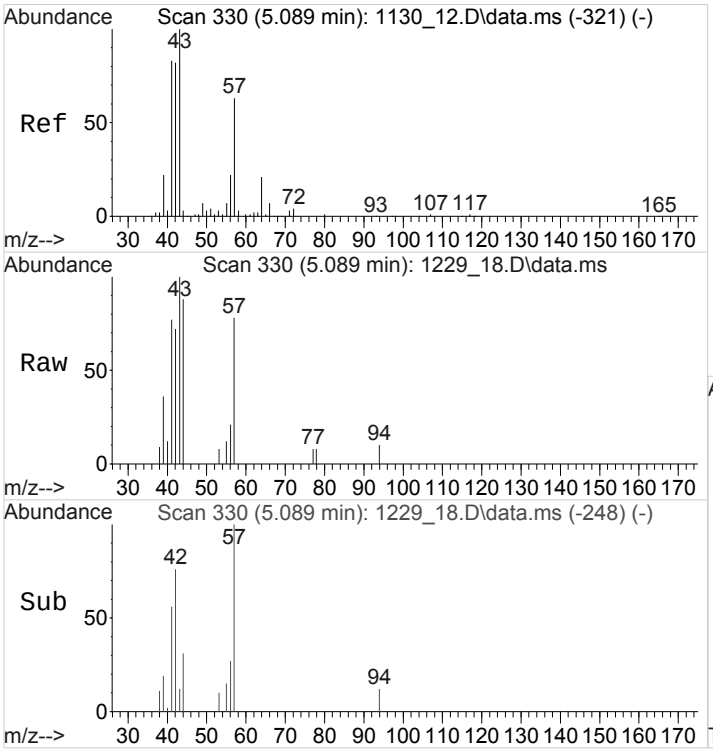


#8
Chloromethane
Concen: 0.2689804 ppbv
RT: 4.481 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 50 Resp: 1256

Ion	Ratio	Lower	Upper
50	100		
52	34.8	27.1	40.7

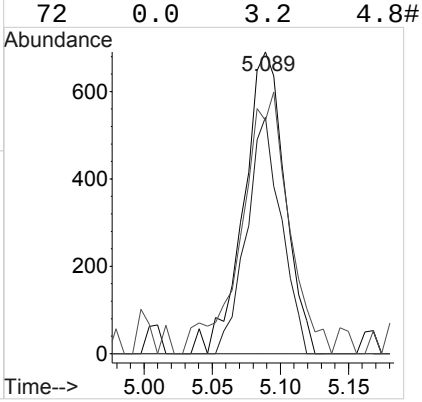




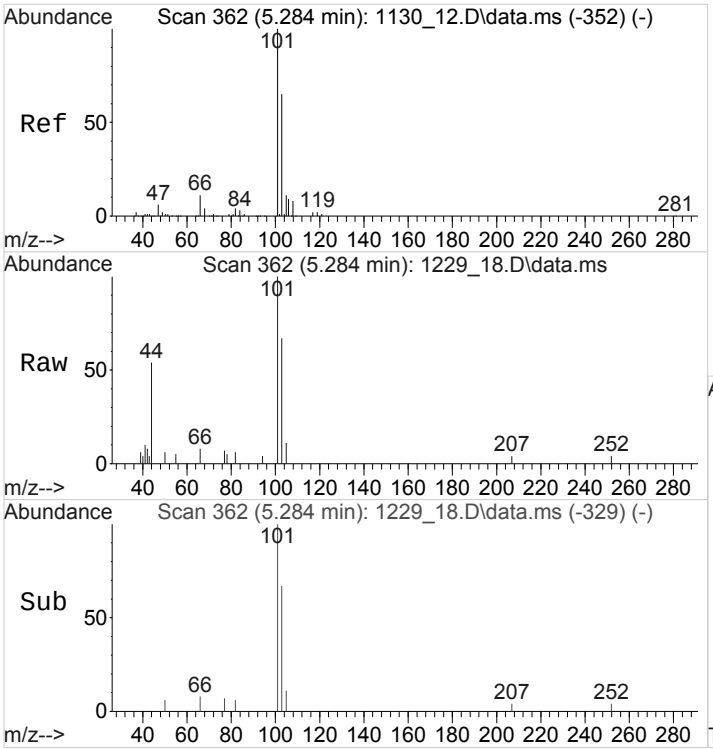
#13
ISOPENTANE
Concen: 0.2986169 ppbv
RT: 5.089 min Scan# 330
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 43 Resp: 1449

Ion	Ratio	Lower	Upper
43	100		
57	66.3	51.7	77.5
41	99.4	66.4	99.6
72	0.0	3.2	4.8#



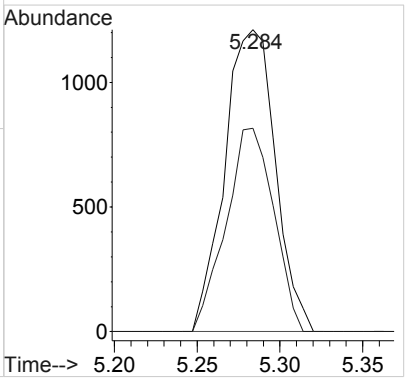
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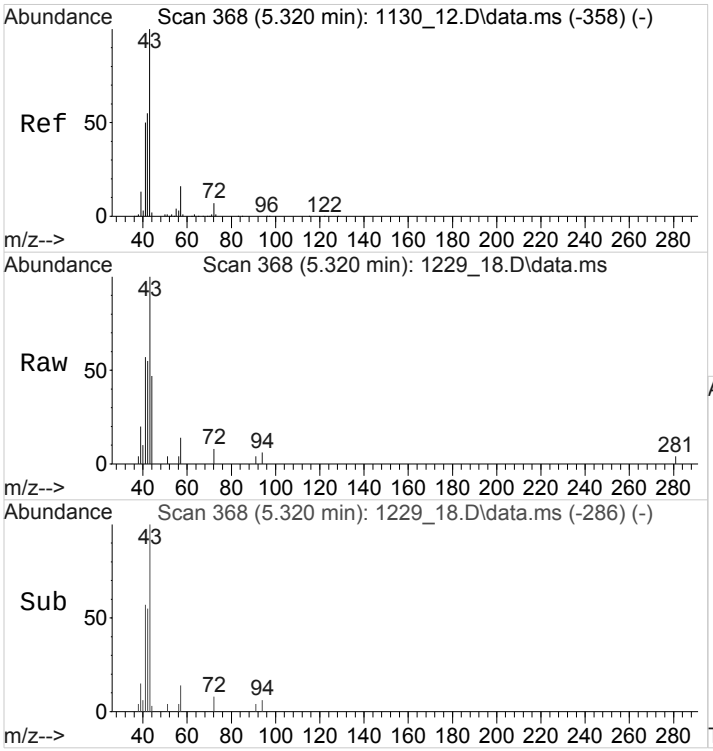


#15
Trichlorofluoromethane
Concen: 0.2378254 ppbv
RT: 5.284 min Scan# 362
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion:101 Resp: 2586

Ion	Ratio	Lower	Upper
101	100		
103	63.5	52.8	79.2

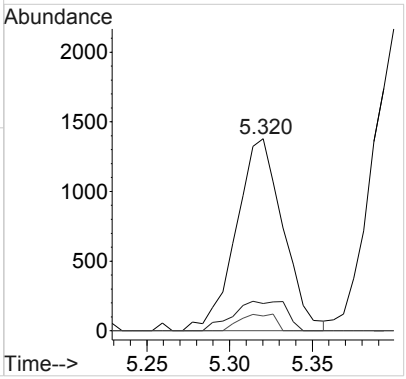




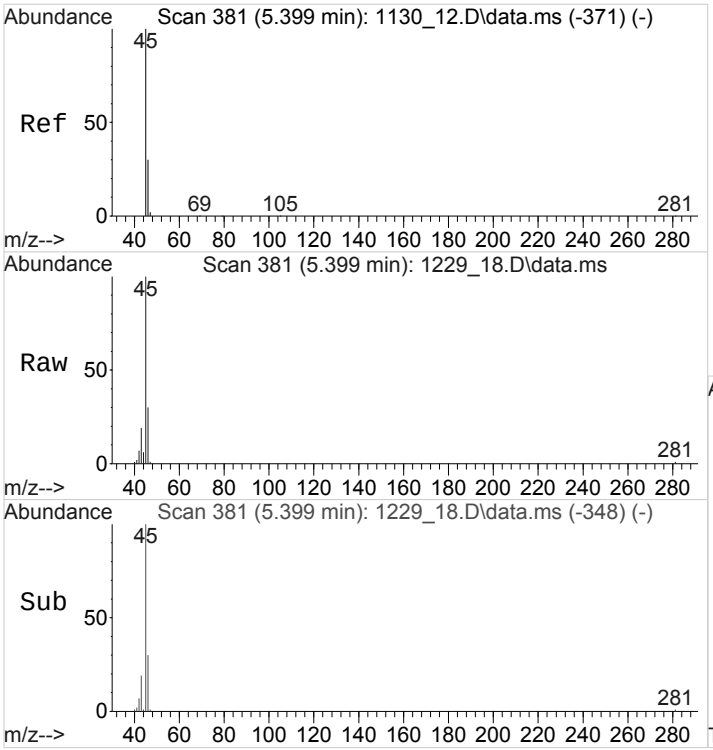
#16
PENTANE
Concen: 0.2732198 ppbv
RT: 5.320 min Scan# 368
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 43 Resp: 2727

Ion	Ratio	Lower	Upper
43	100		
57	17.4	13.0	19.4
72	6.5	5.8	8.8



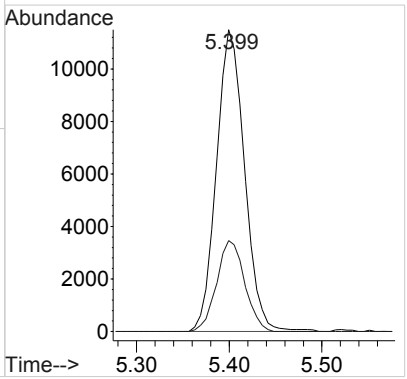
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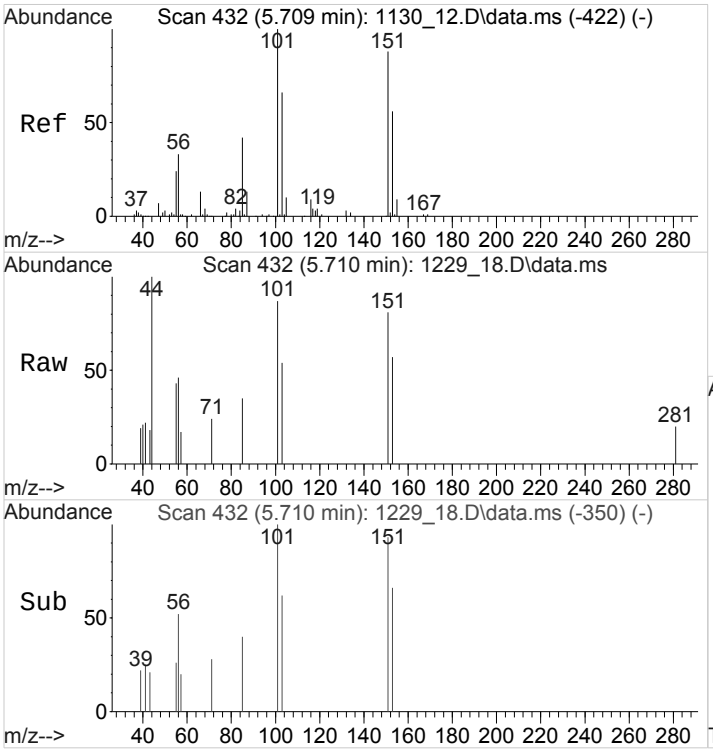


#17
Ethanol
Concen: 9.8240185 ppbv
RT: 5.399 min Scan# 381
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 45 Resp: 24144

Ion	Ratio	Lower	Upper
45	100		
46	30.0	23.6	35.4

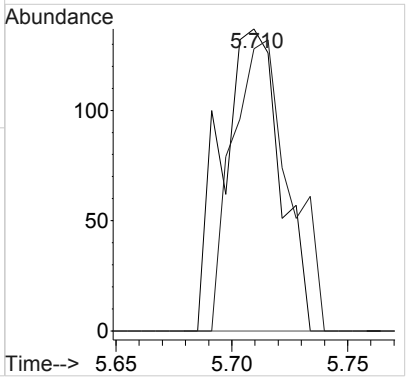


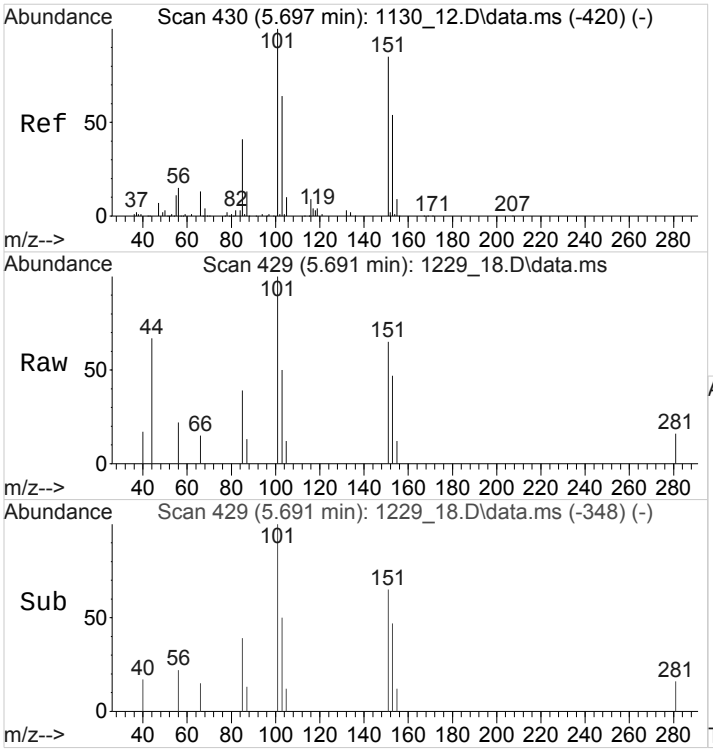


#18
ACROLEIN
Concen: 0.1065135 ppbv
RT: 5.710 min Scan# 432
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 56 Resp: 243

Ion	Ratio	Lower	Upper
56	100		
55	93.4	60.4	90.6#

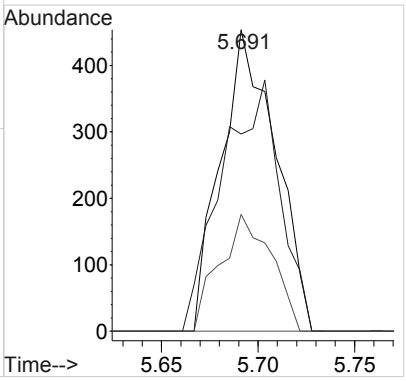


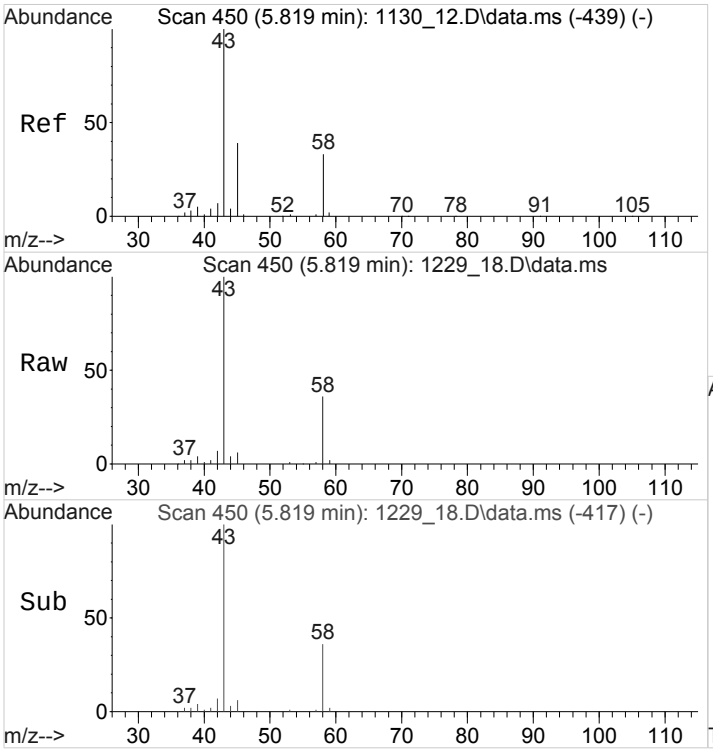


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.0761654 ppbv
RT: 5.691 min Scan# 429
Delta R.T. -0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion:101 Resp: 896

Ion	Ratio	Lower	Upper
101	100		
151	88.7	67.4	101.2
85	36.6	34.4	51.6

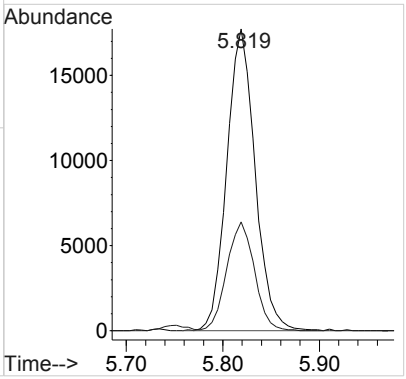




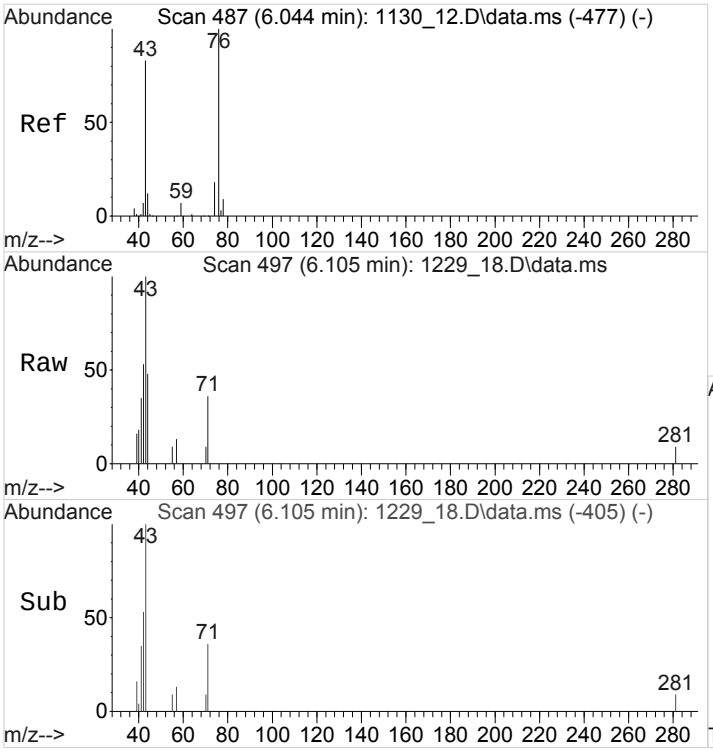
#21
Acetone
Concen: 4.3066259 ppbv
RT: 5.819 min Scan# 450
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 43 Resp: 36180

Ion	Ratio	Lower	Upper
43	100		
58	35.2	23.1	34.7#



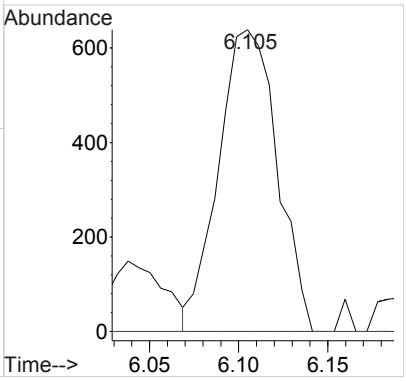
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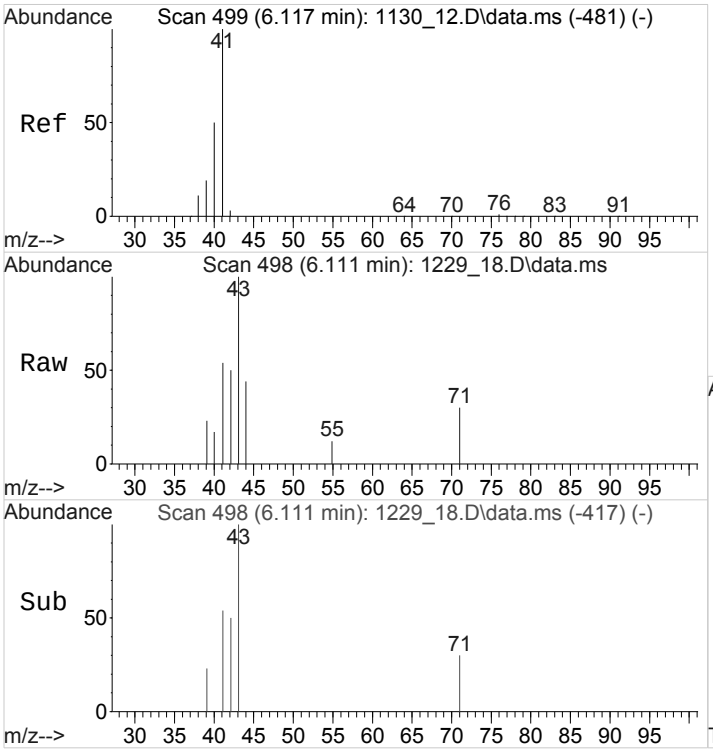


#26
METHYL ACETATE
Concen: 0.1564244 ppbv
RT: 6.105 min Scan# 497
Delta R.T. 0.061 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 43 Resp: 1460

Ion	Ratio	Lower	Upper
43	100		
74	0.0	17.4	26.0#
29	0.0	0.0	0.0

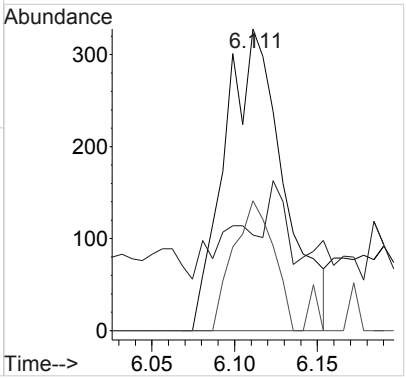




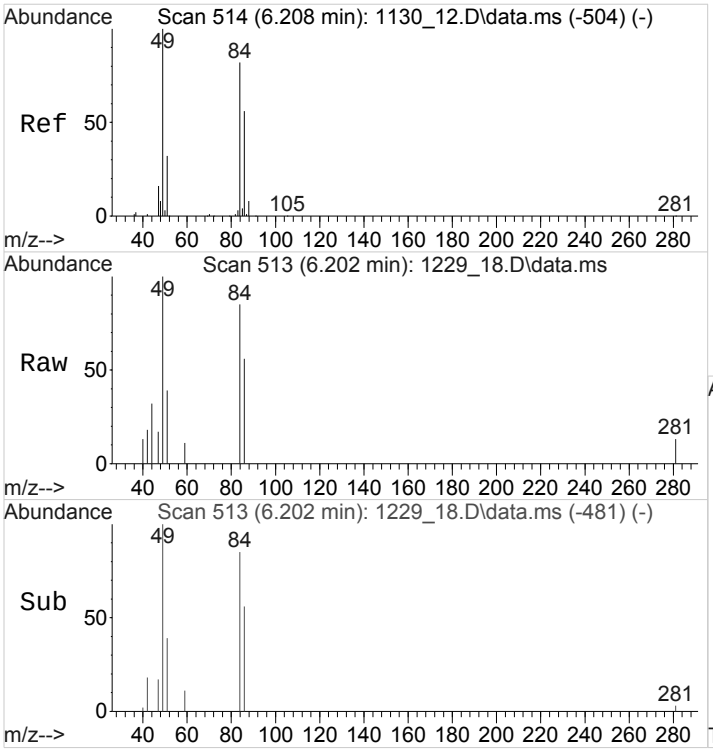
#27
ACETONITRILE
Concen: 0.1567945 ppbv
RT: 6.111 min Scan# 498
Delta R.T. -0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 41 Resp: 814

Ion	Ratio	Lower	Upper
41	100		
40	6.9	32.7	49.1#
39	29.5	22.7	34.1



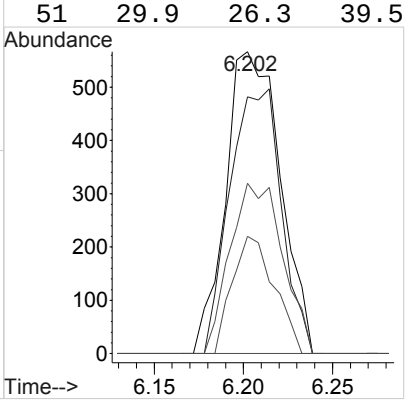
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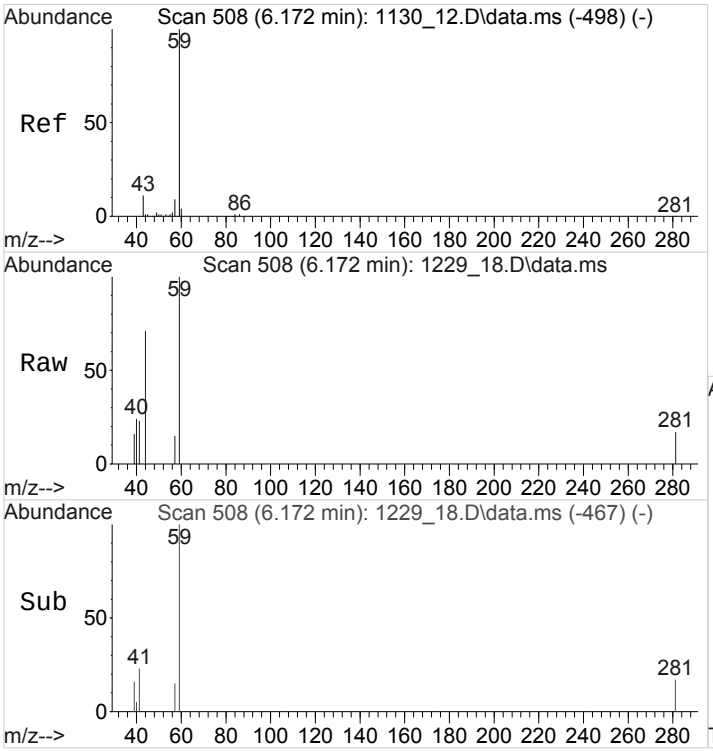


#28
Methylene Chloride
Concen: 0.2084133 ppbv
RT: 6.202 min Scan# 513
Delta R.T. -0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 49 Resp: 1207

Ion	Ratio	Lower	Upper
49	100		
84	82.4	65.0	97.6
86	54.2	41.8	62.6
51	29.9	26.3	39.5

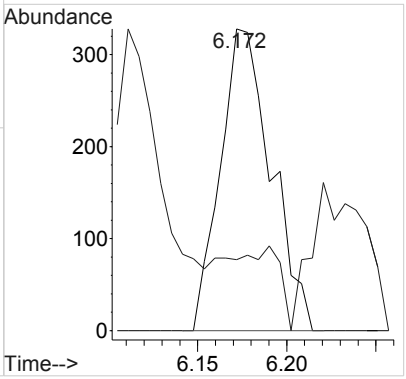


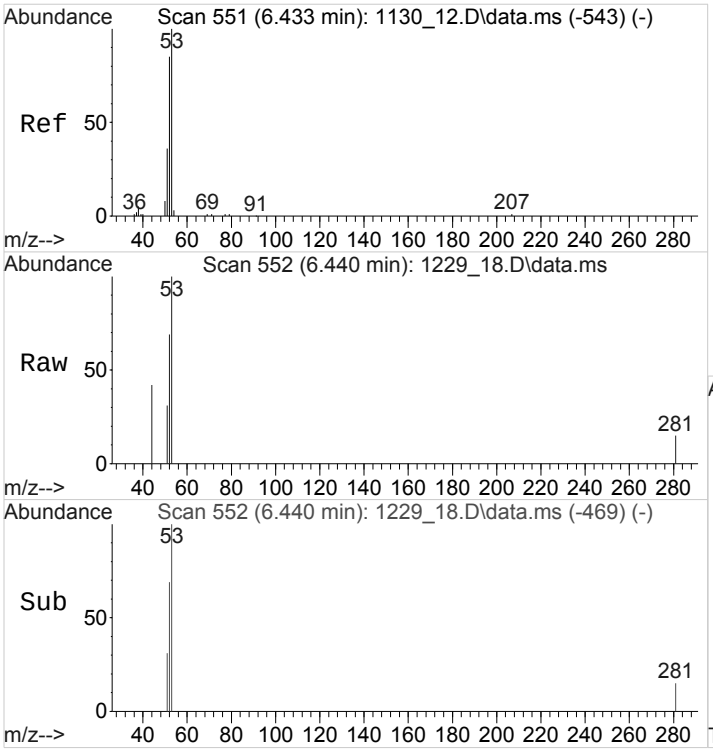


#29
TERT-BUTYL ALCOHOL
Concen: 0.0665584 ppbv
RT: 6.172 min Scan# 508
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 59 Resp: 650

Ion	Ratio	Lower	Upper
59	100		
41	49.8	216.4	324.6#

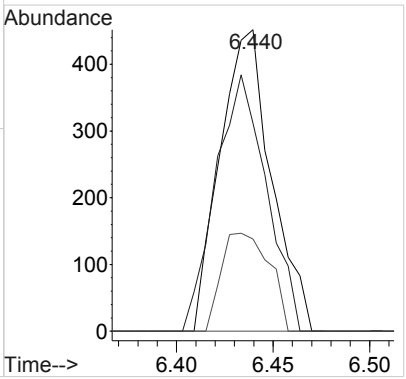


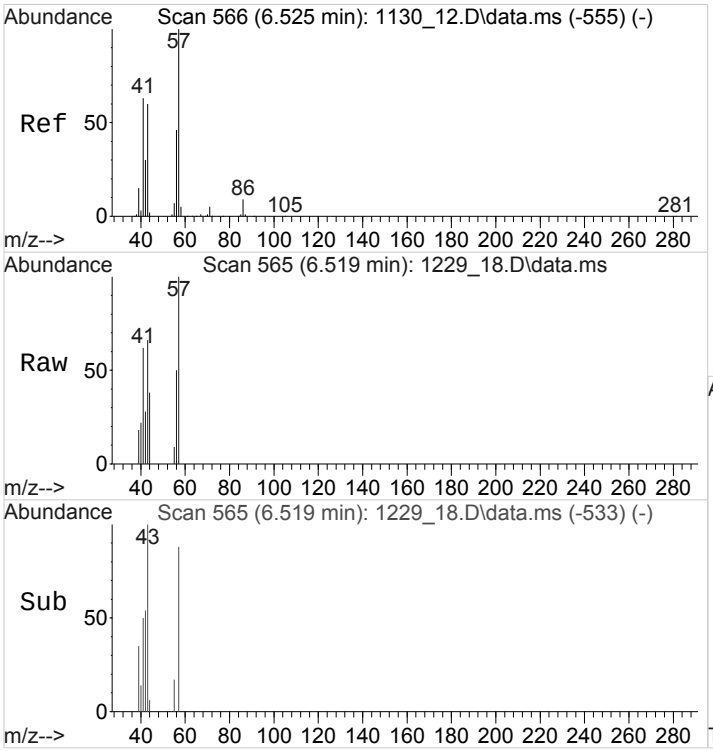


#32
ACRYLONITRILE
Concen: 0.1939255 ppbv
RT: 6.440 min Scan# 552
Delta R.T. 0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 53 Resp: 836

Ion	Ratio	Lower	Upper
53	100		
52	84.0	67.3	100.9
51	30.5	28.2	42.2

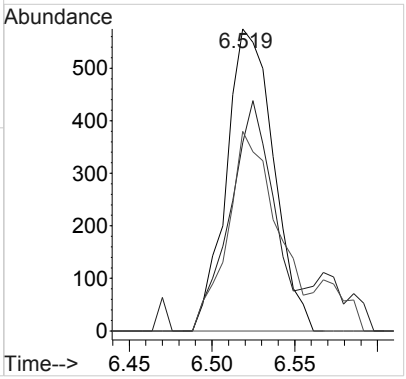




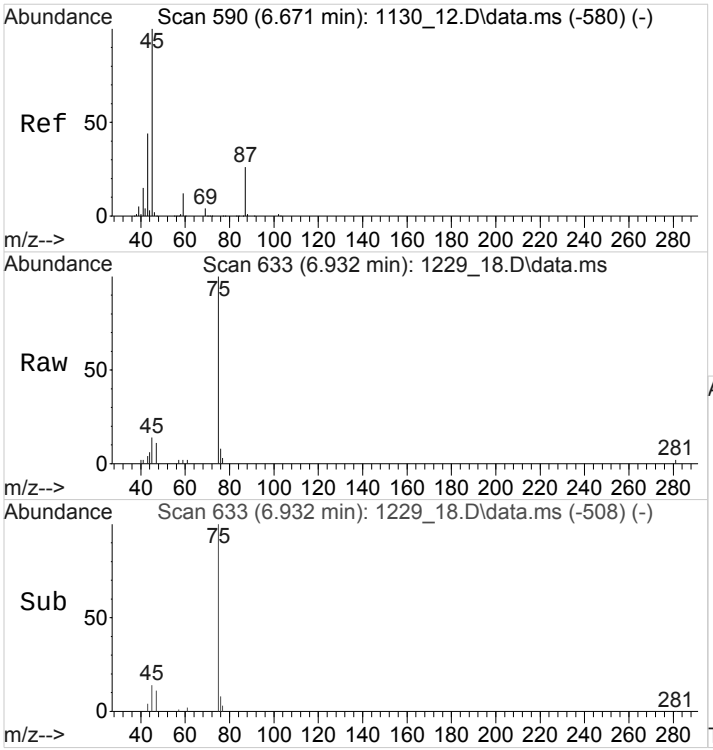
#33
n-Hexane
Concen: 0.1462297 ppbv
RT: 6.519 min Scan# 565
Delta R.T. -0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 57 Resp: 1141

Ion	Ratio	Lower	Upper
57	100		
41	72.6	50.9	76.3
43	71.2	48.4	72.6



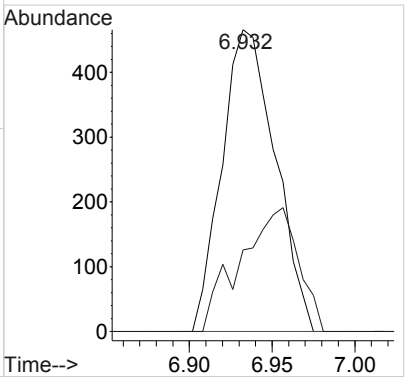
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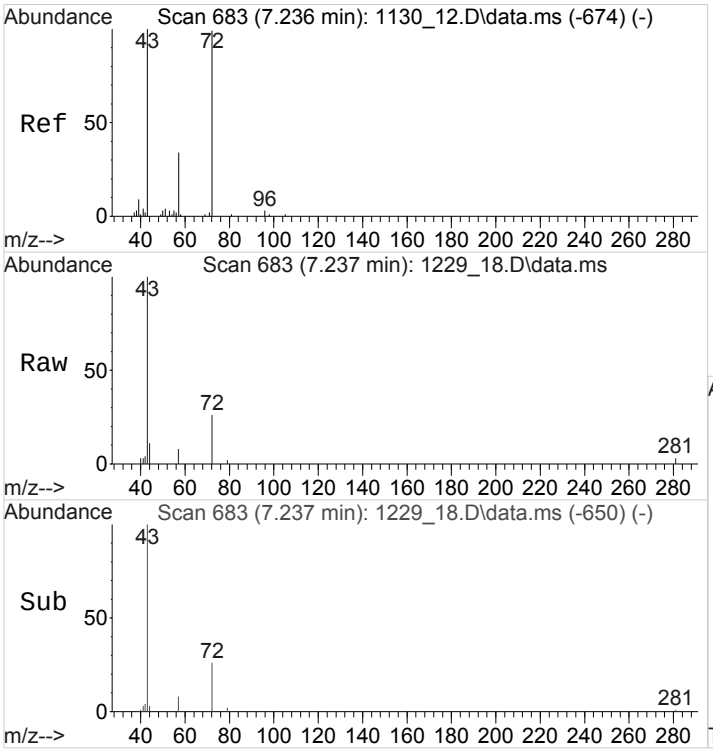


#36
DI-ISOPROPYL ETHER
Concen: 0.0662888 ppbv
RT: 6.932 min Scan# 633
Delta R.T. 0.262 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 45 Resp: 1048

Ion	Ratio	Lower	Upper
45	100		
43	44.9	36.7	55.1

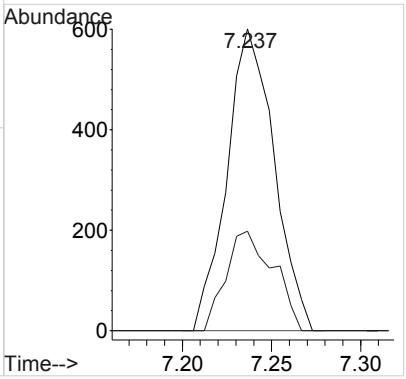




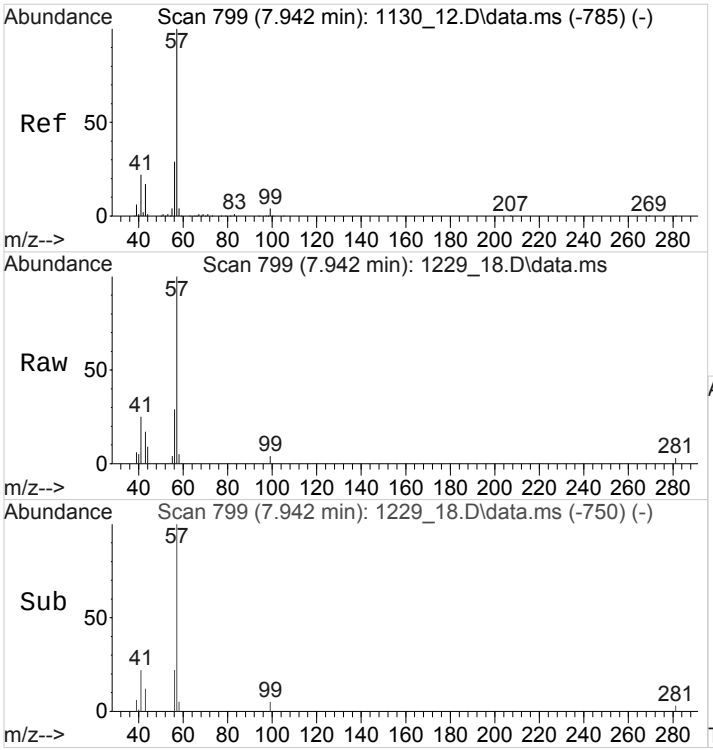
#39
2-Butanone (MEK)
Concen: 0.4297961 ppbv
RT: 7.237 min Scan# 683
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 72 Resp: 1104

Ion	Ratio	Lower	Upper
72	100		
57	33.2	27.3	40.9



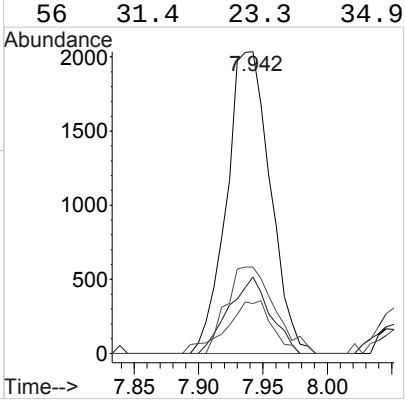
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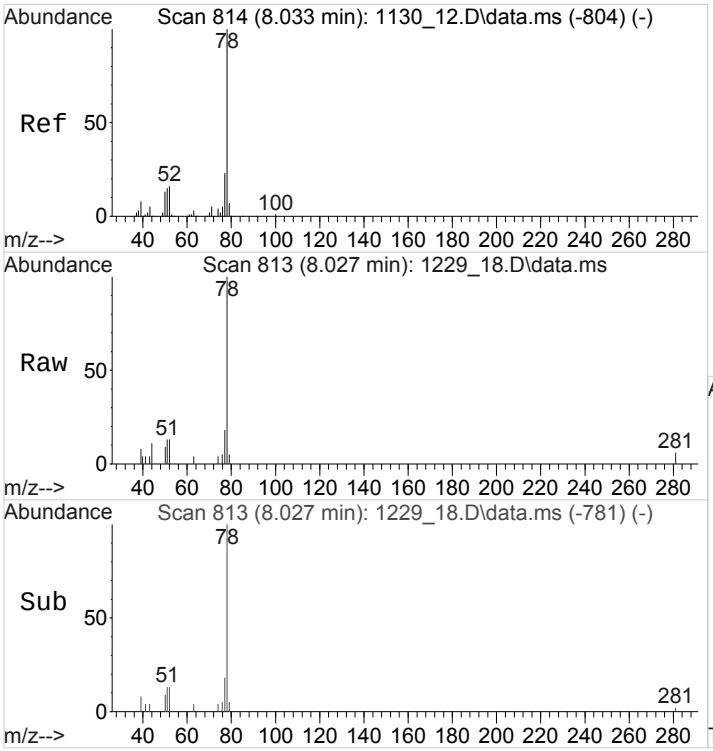


#46
2,2,4-Trimethylpentane
Concen: 0.1870921 ppbv
RT: 7.942 min Scan# 799
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 57 Resp: 4805

Ion	Ratio	Lower	Upper
57	100		
41	24.1	18.2	27.2
43	18.3	13.3	19.9
56	31.4	23.3	34.9

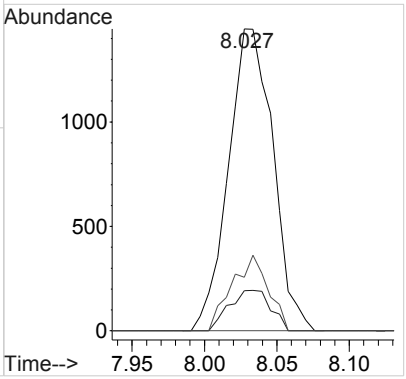




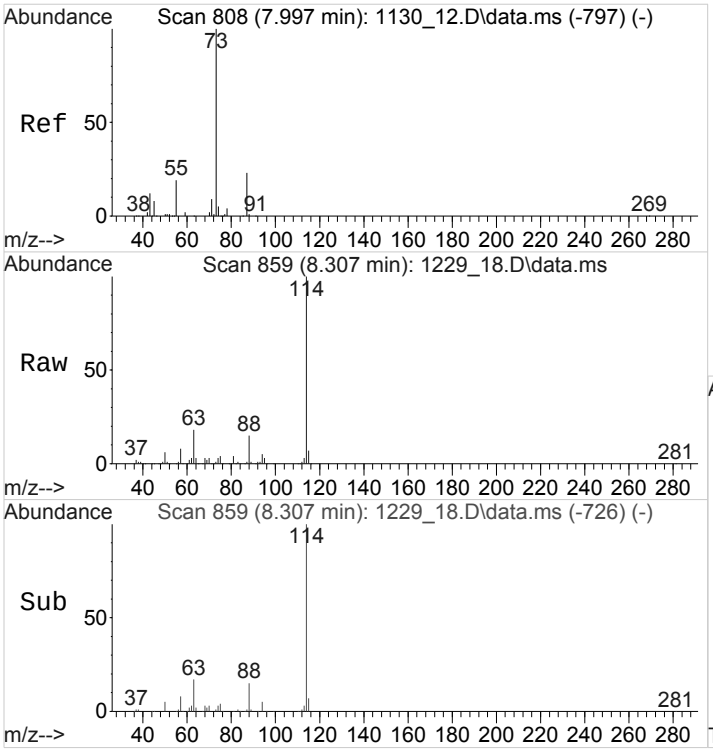
#48
Benzene
Concen: 0.2007551 ppbv
RT: 8.027 min Scan# 813
Delta R.T. -0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 78 Resp: 3084

Ion	Ratio	Lower	Upper
78	100		
51	12.5	12.1	18.1
77	20.5	18.8	28.2



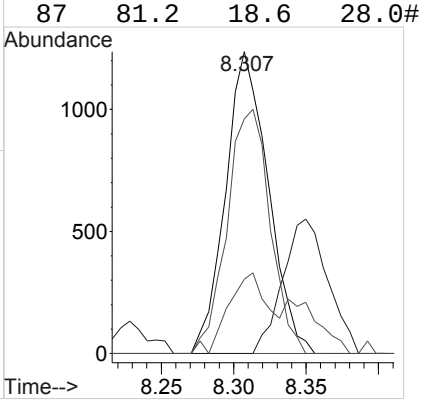
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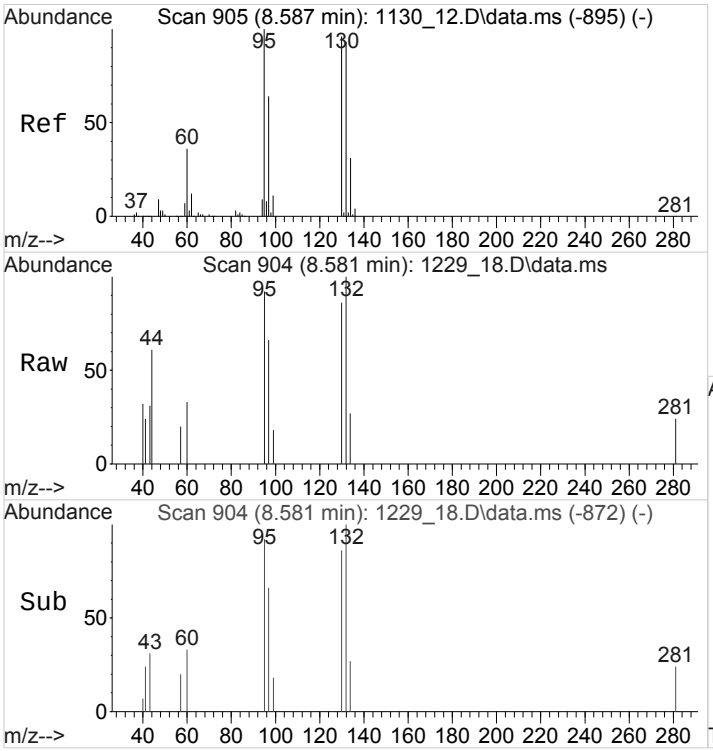


#49
TERT-AMYL METHYL ETHER
Concen: 0.1677987 ppbv
RT: 8.307 min Scan# 859
Delta R.T. 0.310 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 73 Resp: 2537

Ion	Ratio	Lower	Upper
73	100		
43	9.1	24.9	37.3#
55	25.3	18.8	28.2
87	81.2	18.6	28.0#

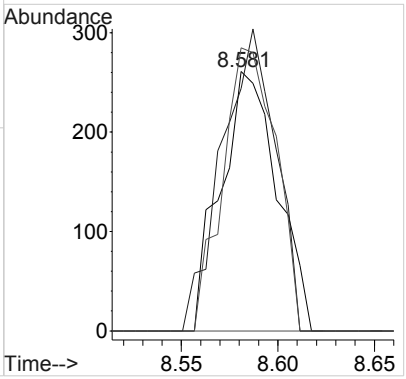


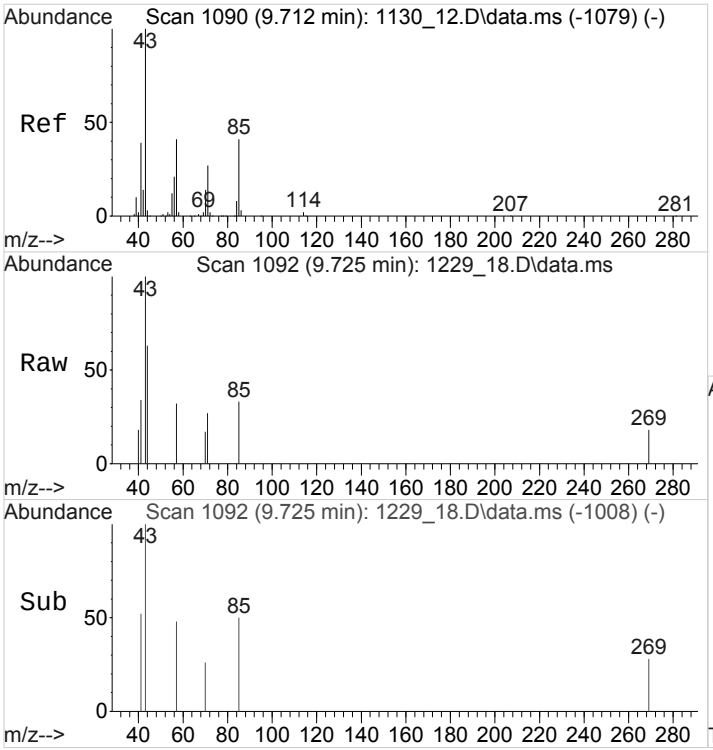


#52
Trichloroethene
Concen: 0.0709648 ppbv
RT: 8.581 min Scan# 904
Delta R.T. -0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 95 Resp: 533

Ion	Ratio	Lower	Upper
95	100		
130	110.1	76.9	115.3
132	103.0	73.3	109.9

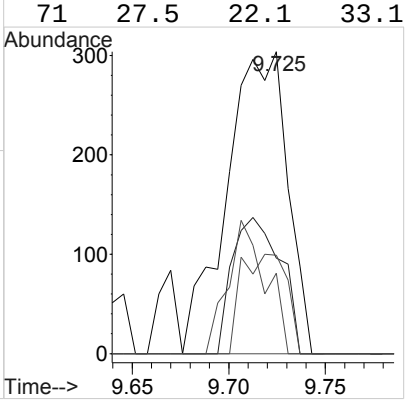


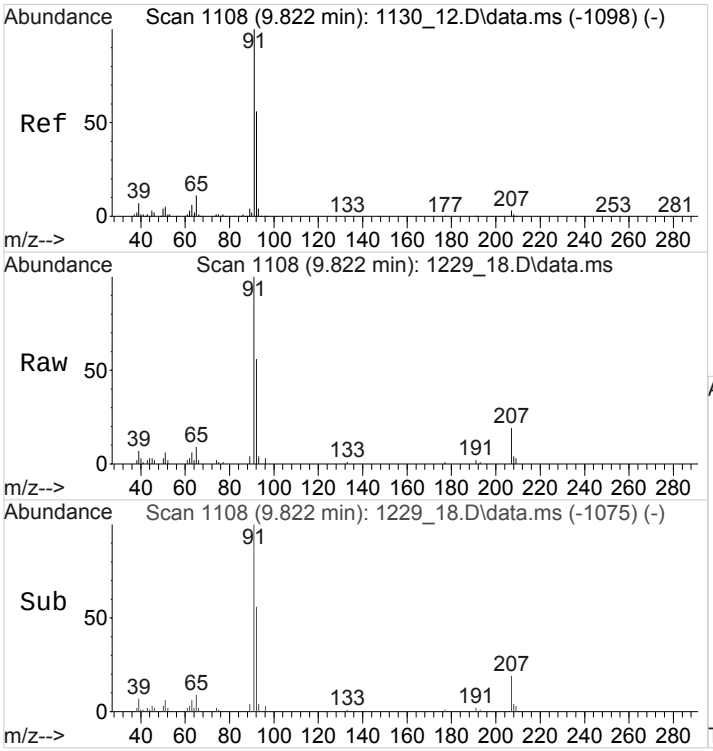


#61
n-OCTANE
Concen: 0.0501571 ppbv
RT: 9.725 min Scan# 1092
Delta R.T. 0.012 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 43 Resp: 665

Ion	Ratio	Lower	Upper
43	100		
57	35.9	33.1	49.7
85	24.7	33.1	49.7#
71	27.5	22.1	33.1

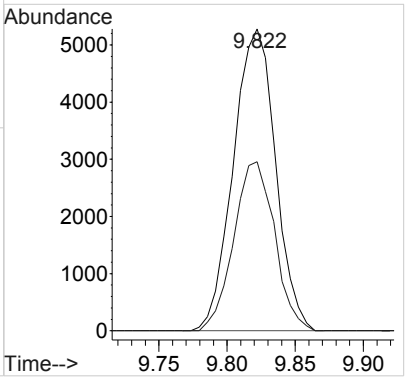


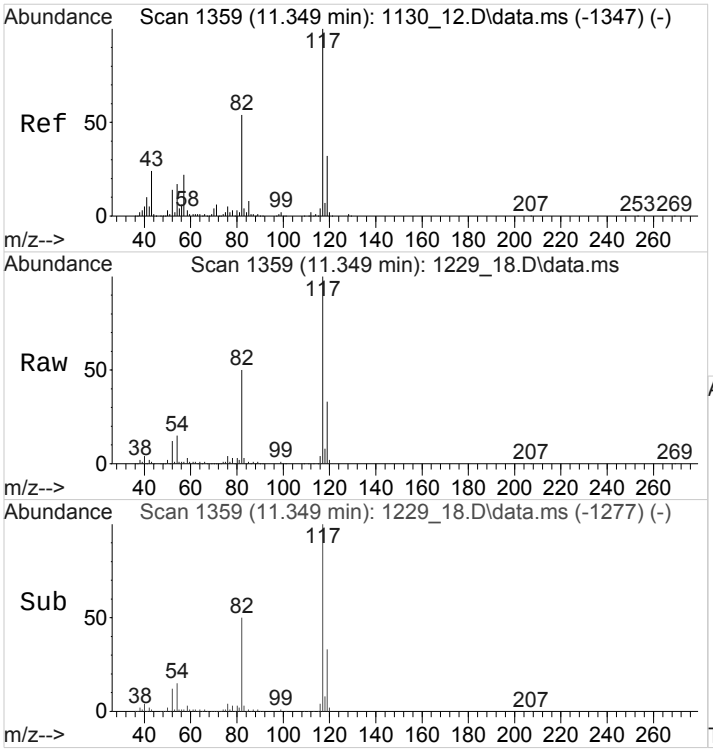


#62
Toluene
Concen: 0.5766732 ppbv
RT: 9.822 min Scan# 1108
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 91 Resp: 11353

Ion	Ratio	Lower	Upper
91	100		
92	54.2	44.1	66.1

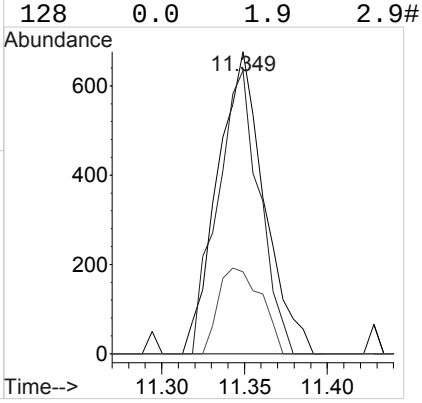


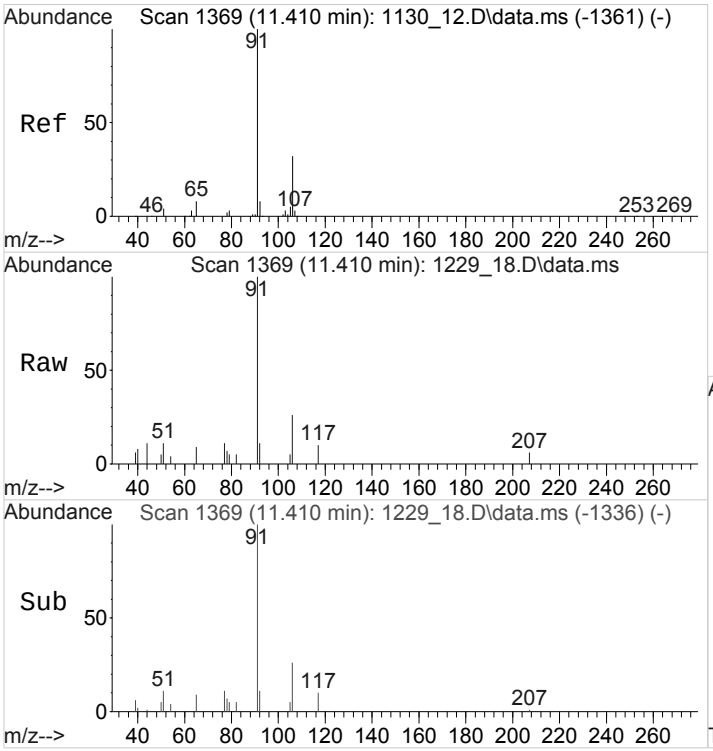


#70
NONANE
Concen: 0.0949854 ppbv
RT: 11.349 min Scan# 1359
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 43 Resp: 1333

Ion	Ratio	Lower	Upper
43	100		
57	84.1	74.6	112.0
71	26.0	20.0	30.0
128	0.0	1.9	2.9#

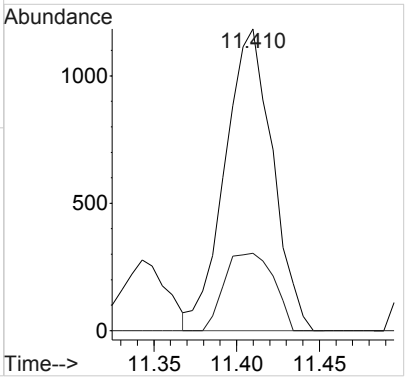




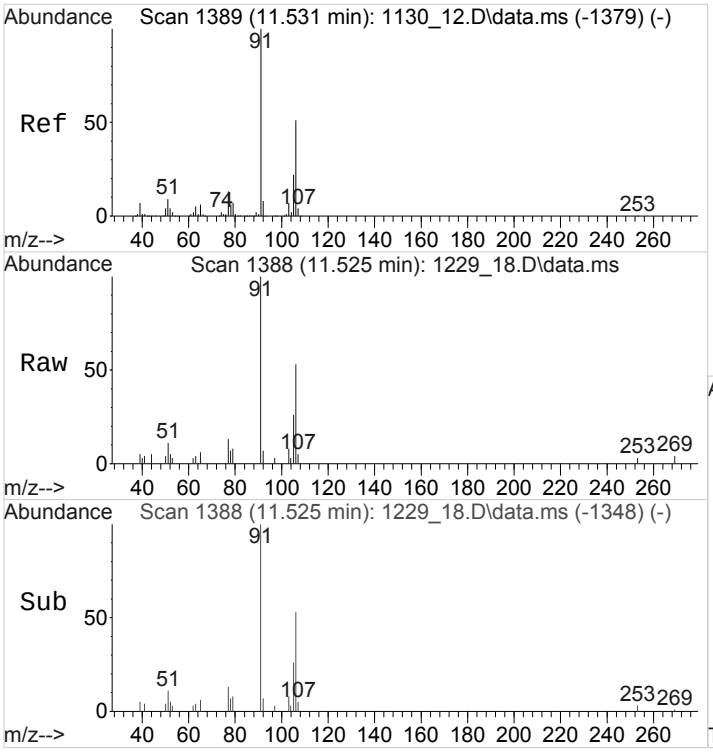
#72
Ethylbenzene
Concen: 0.1046663 ppbv
RT: 11.410 min Scan# 1369
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 91 Resp: 2370

Ion	Ratio	Lower	Upper
91	100		
106	26.7	25.6	38.4



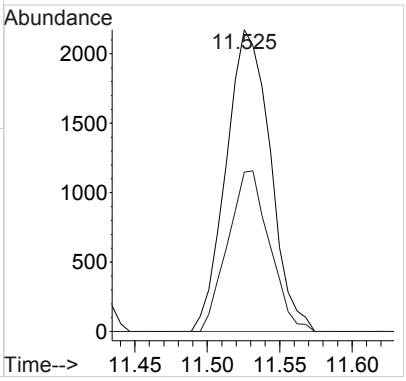
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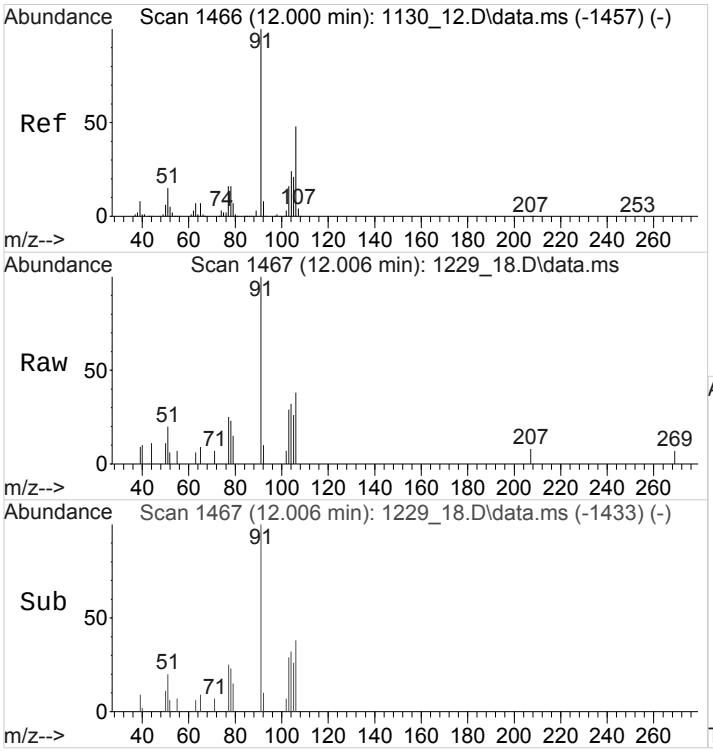


#73
M&P-Xylene
Concen: 0.2592775 ppbv
RT: 11.525 min Scan# 1388
Delta R.T. -0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 91 Resp: 4601

Ion	Ratio	Lower	Upper
91	100		
106	50.4	39.7	59.5

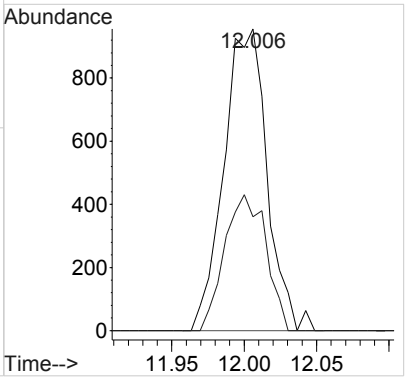




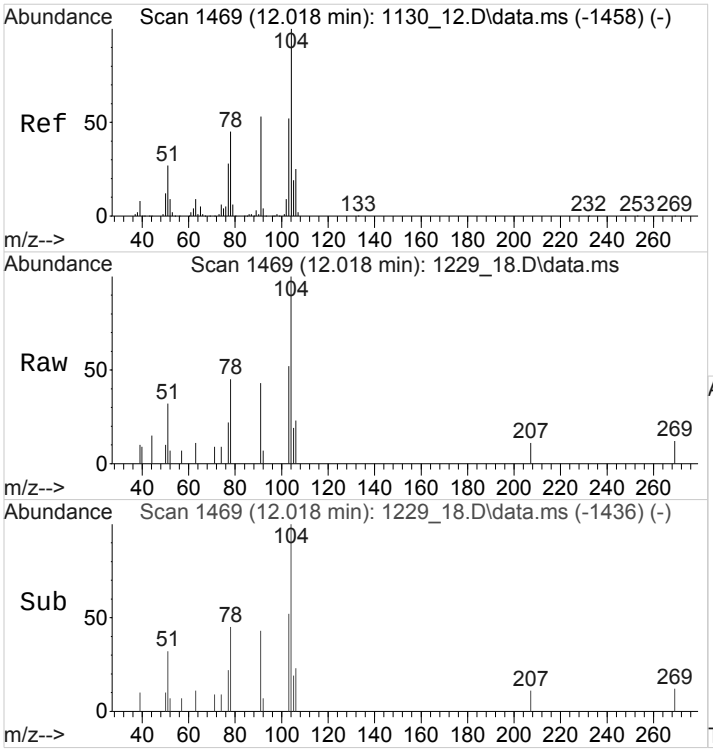
#74
O-Xylene
Concen: 0.1055729 ppbv
RT: 12.006 min Scan# 1467
Delta R.T. 0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 91 Resp: 1976

Ion	Ratio	Lower	Upper
91	100		
106	43.2	38.4	57.6



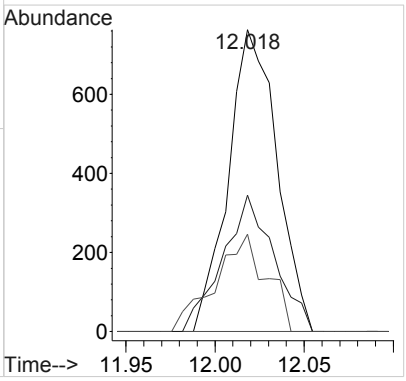
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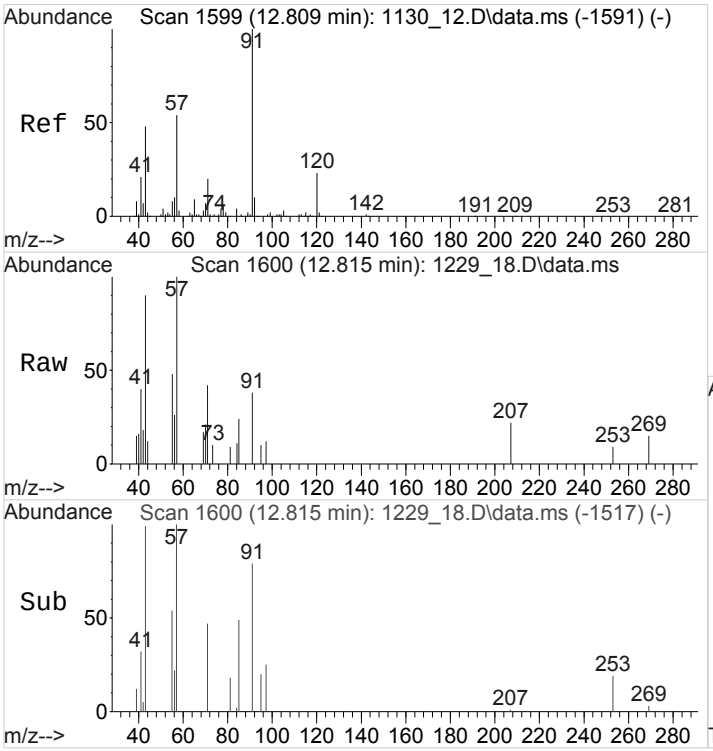


#77
Styrene
Concen: 0.0965200 ppbv
RT: 12.018 min Scan# 1469
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion:104 Resp: 1446

Ion	Ratio	Lower	Upper
104	100		
78	47.6	38.6	58.0
51	34.0	26.1	39.1

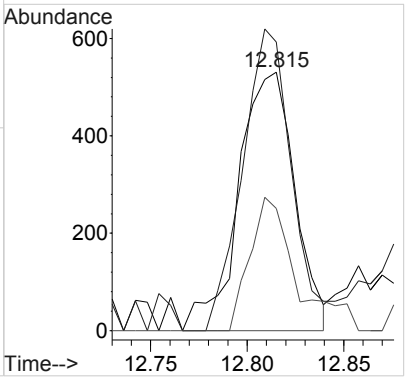




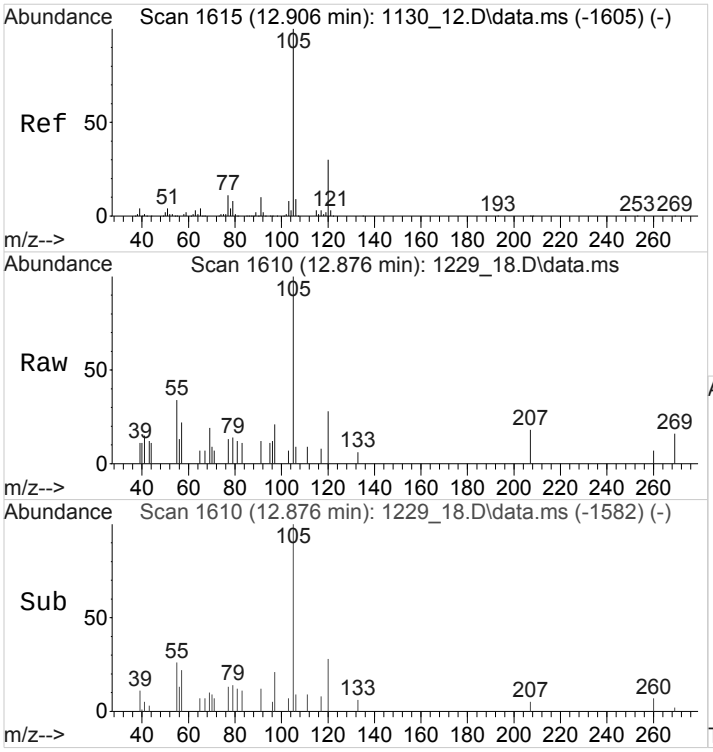
#80
n-DECANE
Concen: 0.0907660 ppbv
RT: 12.815 min Scan# 1600
Delta R.T. 0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion: 43 Resp: 1076

Ion	Ratio	Lower	Upper
43	100		
57	101.6	89.7	134.5
71	42.4	34.1	51.1



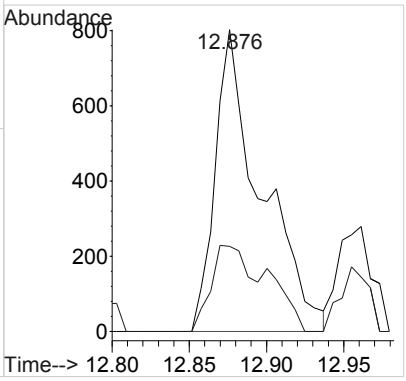
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BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	140 of 500

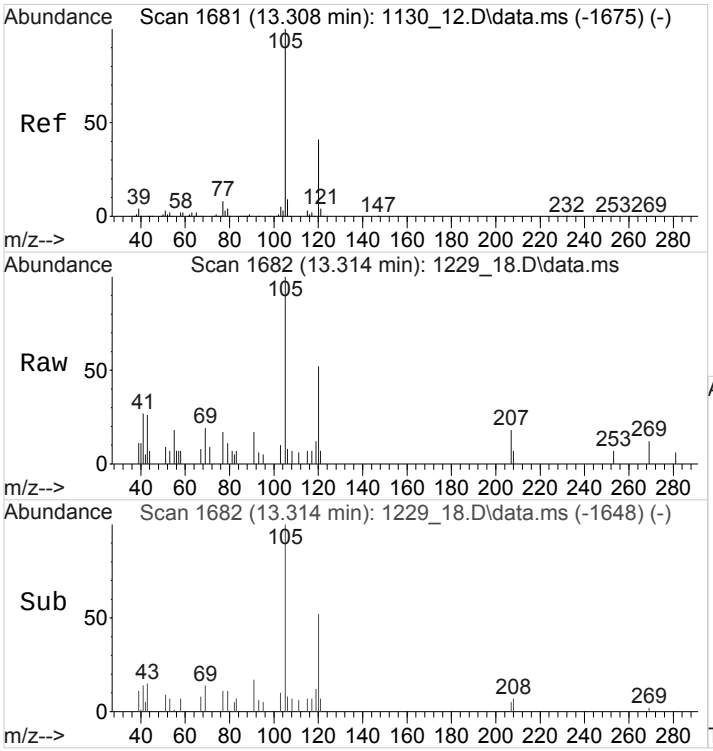


#83
4-Ethyltoluene
Concen: 0.0703752 ppbv
RT: 12.876 min Scan# 1610
Delta R.T. -0.030 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion:105 Resp: 1655

Ion	Ratio	Lower	Upper
105	100		
120	24.6	24.6	36.8

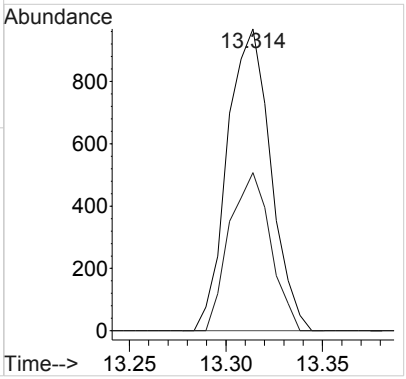




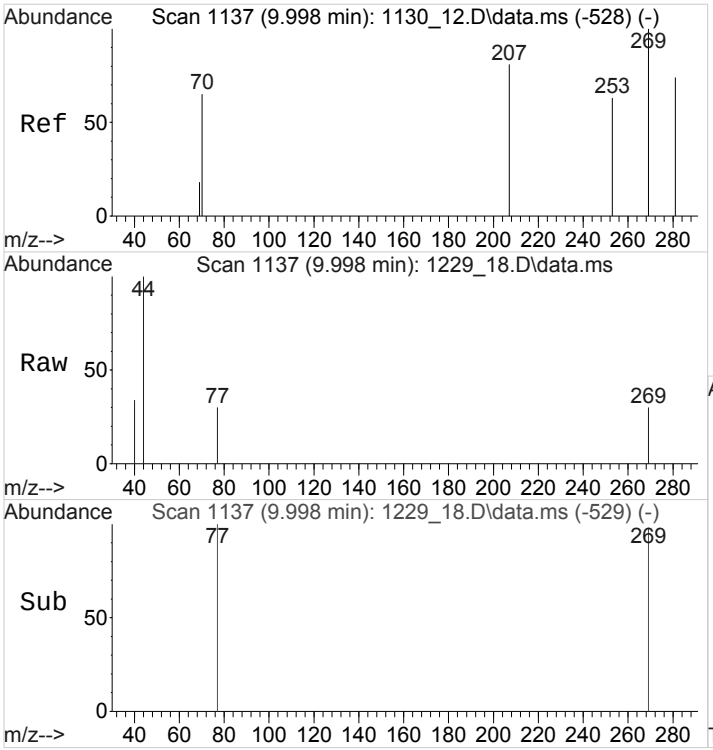
#88
1,2,4-Trimethylbenzene
Concen: 0.0800402 ppbv
RT: 13.314 min Scan# 1682
Delta R.T. 0.006 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion:105 Resp: 1514

Ion	Ratio	Lower	Upper
105	100		
120	49.8	35.9	53.9

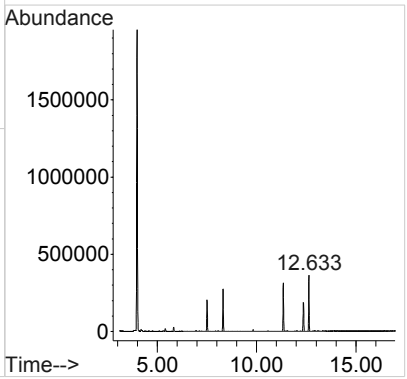


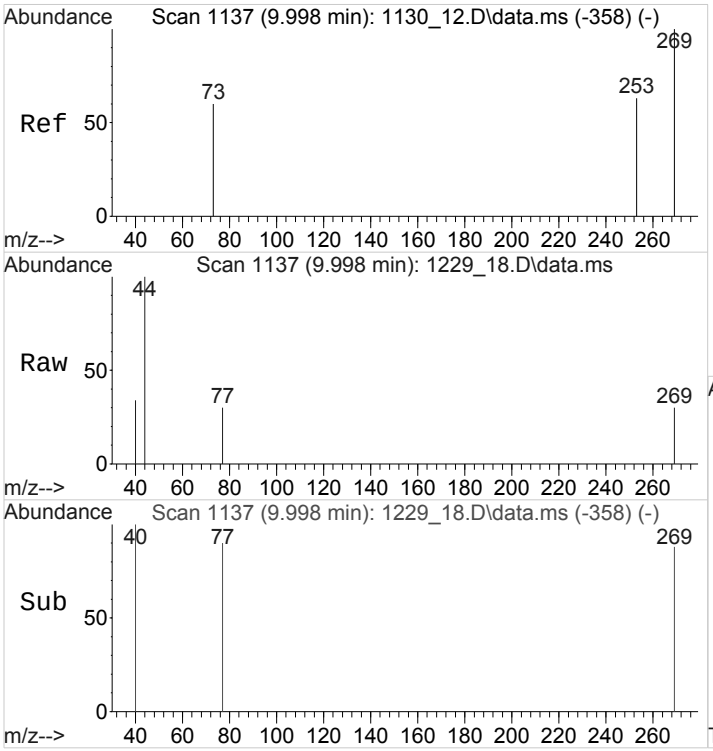
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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#101
TPH (GC/MS) Low Fraction
Concen: 23.9314950 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

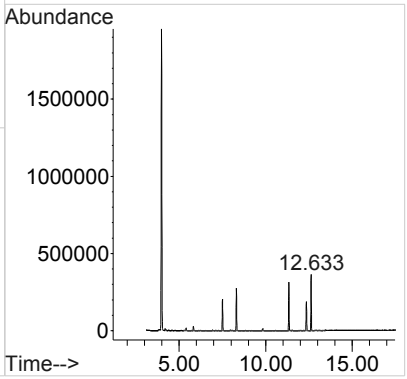
Tgt Ion:TIC Resp: 841146





#102
TPH-GRO (C5-C10)
Concen: 33.8128031 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_18.D
Acq: 29 Dec 2022 11:03 pm

Tgt Ion:TIC Resp: 1002981



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	142 of 500

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
786-VMP-1_1222

Lab Sample ID:	L1570581-06	**SDG:**	L1570581
Client Sample ID:	786-VMP-1_1222	**Collected Date/Time:**	12/21/22 16:15
Lab File ID:	1229_19	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 23:46
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 23:46
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.82	3.56	J	1.39	2.85	5.70
Benzene	71-43-2	8.03	0.457	J	0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	6.06	0.532	J	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	7.83	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.47	0.801	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	11.41	0.867	U	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	12.88	0.982	U	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.31	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	2.19	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	1.53	U	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	6.21	0.385	J	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	0.507	J	0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	0	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	9.82	1.10	J	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570581-06	**SDG:**	L1570581
Client Sample ID:	786-VMP-1_1222	**Collected Date/Time:**	12/21/22 16:15
Lab File ID:	1229_19	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 23:46
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 23:46
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	0	0.804	U	0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	13.31	0.506	J	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	0.863	J	0.585	1.30	2.60
o-Xylene	95-47-6	12	0.759	U	0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_19.D
Acq On : 29 Dec 2022 11:46 pm
Operator :
Sample : L1570581-06 1x WG1980894
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 31 07:36:42 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

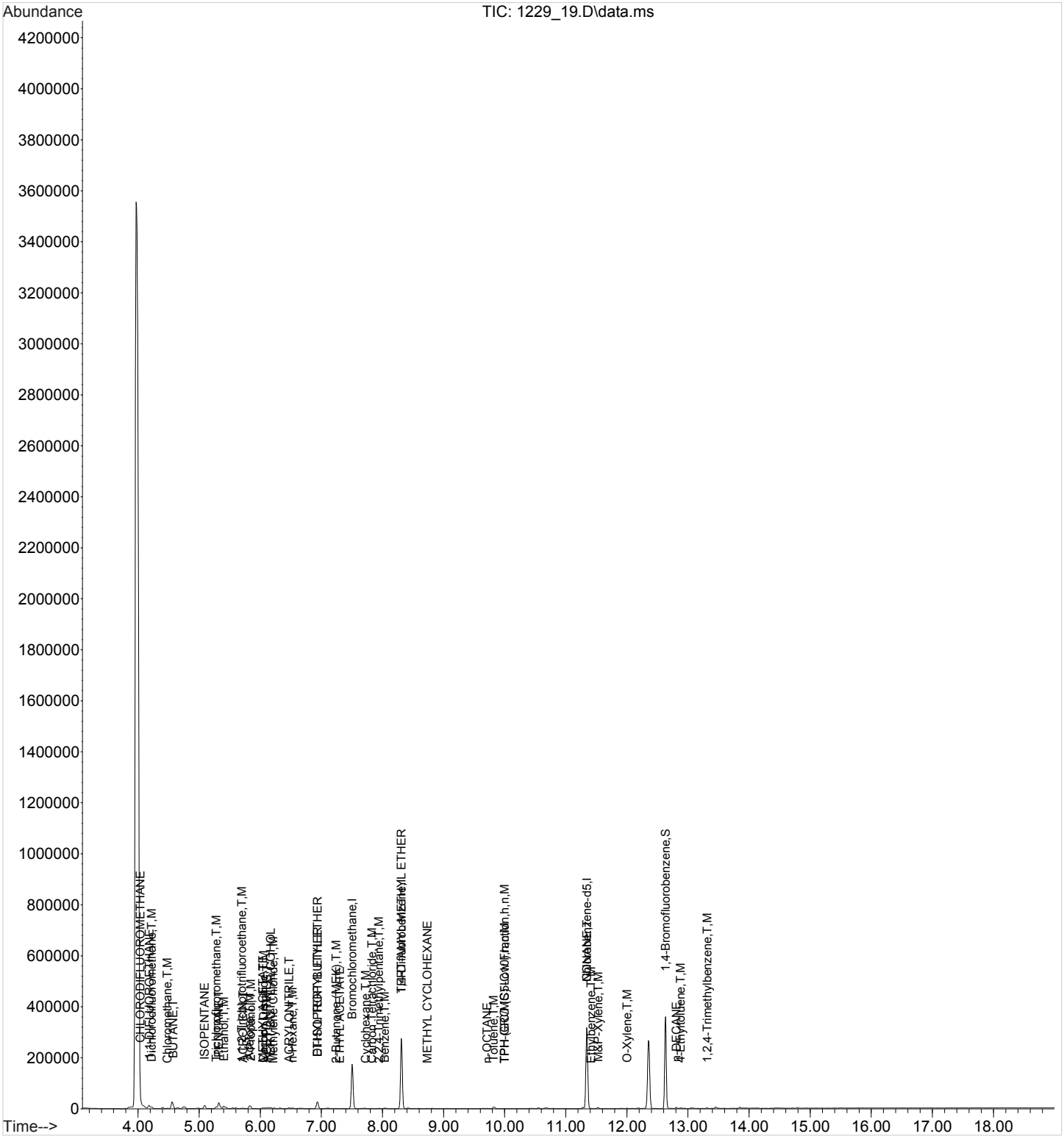
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	75851	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.307	114	269382	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	236749	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	133381	3.3018796	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 82.55%				
Target Compounds							Qvalue
3) BUTANE	4.572	43	10903	1.5664771	ppbv		98
4) 1,1-DIFLUOROETHANE	4.183	51	2525	0.4221745	ppbv		95
5) Dichlorodifluoromethane	4.219	85	5690	0.4421338	ppbv		97
6) CHLORODIFLUOROMETHANE	4.037	51	2153	0.2968104	ppbv		98
8) Chloromethane	4.475	50	1795	0.3879938	ppbv		97
13) ISOPENTANE	5.089	43	6100	1.2688348	ppbv		94
15) Trichlorofluoromethane	5.278	101	2516	0.2335445	ppbv		100
16) PENTANE	5.320	43	16351	1.6534865	ppbv		99
17) Ethanol	5.405	45	12872	5.2863419	ppbv		99
18) ACROLEIN	5.716	56	473	0.2092613	ppbv		99
19) 1,1,2-Trichlorotrifluo...	5.697	101	786	0.0674375	ppbv		95
21) Acetone	5.819	43	12491	1.5007041	ppbv		93
23) 2-Propanol	5.843	45	10367	1.1279882	ppbv	#	70
24) Carbon Disulfide	6.056	76	3517	0.1707637	ppbv	#	77
26) METHYL ACETATE	6.038	43	928	0.1003526	ppbv	#	54
27) ACETONITRILE	6.105	41	1412	0.2745178	ppbv	#	69
28) Methylene Chloride	6.208	49	639	0.1113649	ppbv	#	85
29) TERT-BUTYL ALCOHOL	6.172	59	2243	0.2318185	ppbv	#	23
32) ACRYLONITRILE	6.470	53	229	0.0536159	ppbv	#	21
33) n-Hexane	6.525	57	2097	0.2712549	ppbv		89
36) DI-ISOPROPYL ETHER	6.938	45	5078	0.3241911	ppbv	#	64
37) ETHYL TERT-BUTYL ETHER	6.938	59	856	0.0515661	ppbv	#	66
38) ETHYL ACETATE	7.297	45	140	0.0810498	ppbv	#	1
39) 2-Butanone (MEK)	7.243	72	438	0.1721063	ppbv		89
43) Cyclohexane	7.723	84	507	0.0818991	ppbv	#	21
45) Carbon Tetrachloride	7.827	117	789	0.0656183	ppbv		96
46) 2,2,4-Trimethylpentane	7.936	57	1573	0.0618187	ppbv	#	72
48) Benzene	8.033	78	2181	0.1435200	ppbv		98
49) TERT-AMYL METHYL ETHER	8.307	73	2371	0.1585274	ppbv	#	45
54) METHYL CYCLOHEXANE	8.733	83	507	0.0504731	ppbv	#	84
61) n-OCTANE	9.713	43	976	0.0744158	ppbv	#	73
62) Toluene	9.816	91	5696	0.2924783	ppbv		100
70) NONANE	11.343	43	1602	0.1153969	ppbv	#	84
72) Ethylbenzene	11.410	91	1372	0.0605261	ppbv		100
73) M&P-Xylene	11.525	91	3532	0.1988215	ppbv		99
74) O-Xylene	12.000	91	1494	0.0797345	ppbv		96
80) n-DECANE	12.809	43	1741	0.1467032	ppbv		95
83) 4-Ethyltoluene	12.876	105	1352	0.0574286	ppbv	#	66
88) 1,2,4-Trimethylbenzene	13.314	105	1949	0.1029258	ppbv		99
101) TPH (GC/MS) Low Fraction	10.000	TIC	1083527m	30.7941636	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	1291854m	43.5042933	ppbv		

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

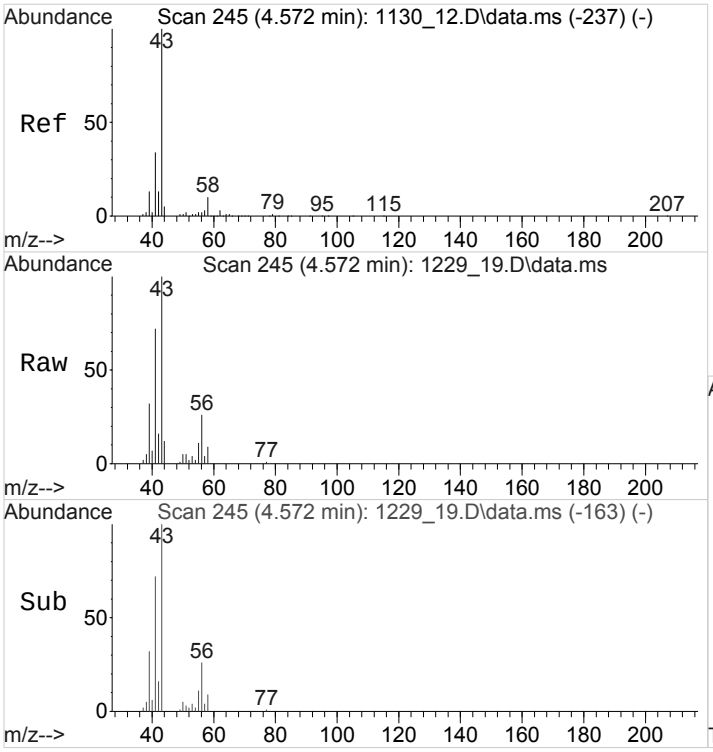
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_19.D
Acq On : 29 Dec 2022 11:46 pm
Operator :
Sample : L1570581-06 1x WG1980894
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 31 07:36:42 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration



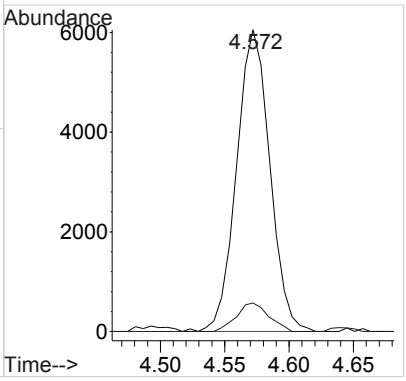
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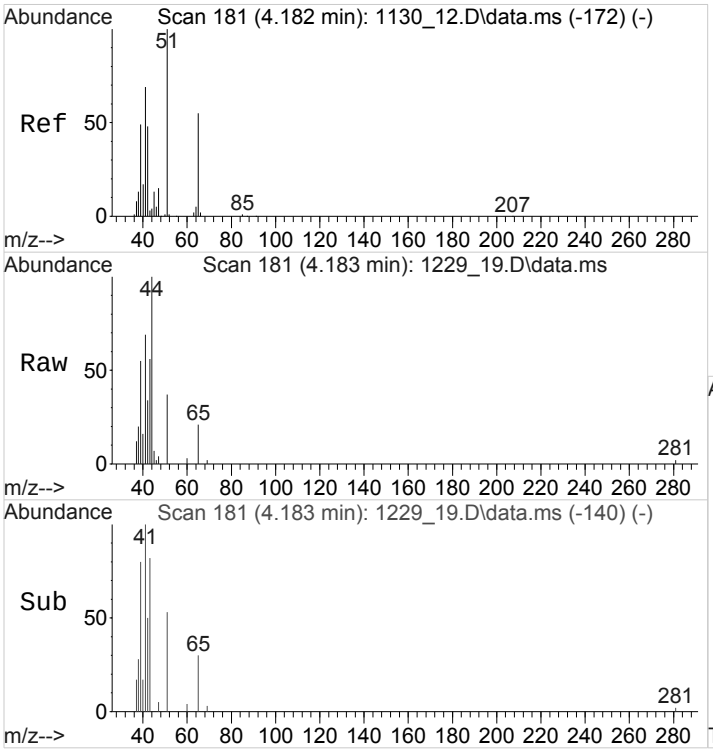


#3
BUTANE
Concen: 1.5664771 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 43 Resp: 10903

Ion	Ratio	Lower	Upper
43	100		
58	9.2	8.0	12.0

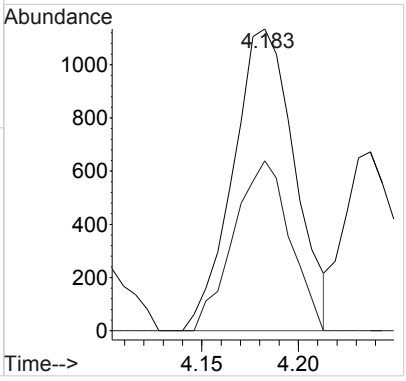




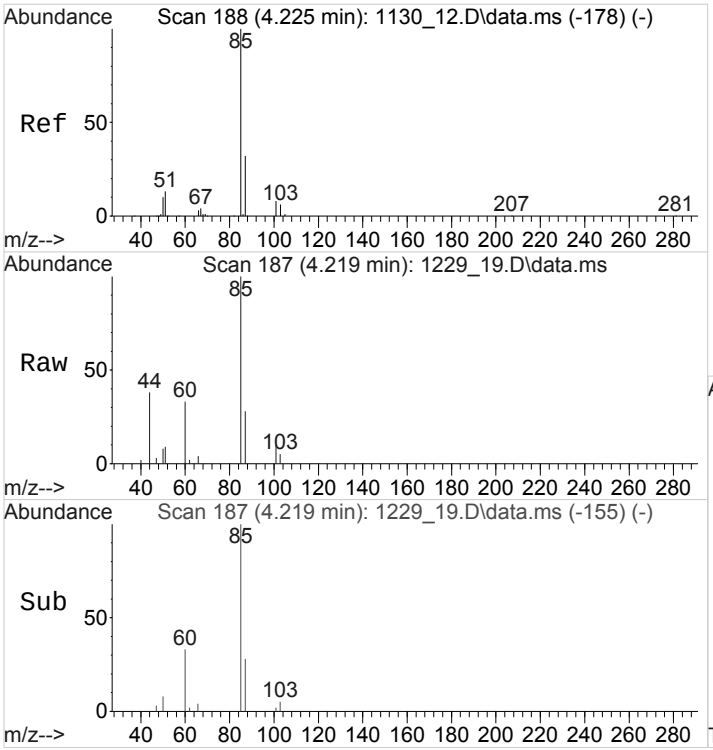
#4
1,1-DIFLUOROETHANE
Concen: 0.4221745 ppbv
RT: 4.183 min Scan# 181
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 51 Resp: 2525

Ion	Ratio	Lower	Upper
51	100		
65	51.2	44.1	66.1



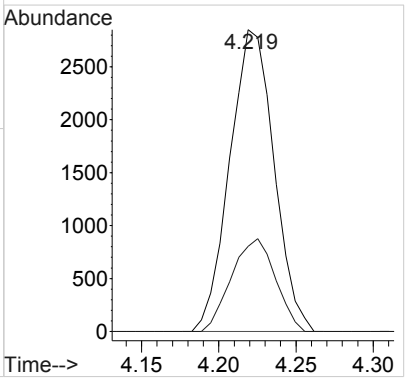
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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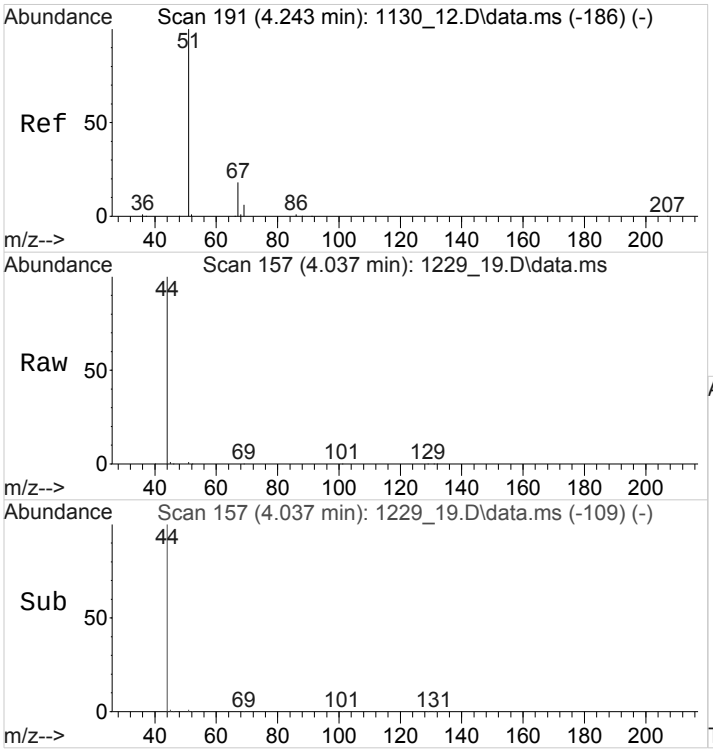


#5
Dichlorodifluoromethane
Concen: 0.4421338 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 85 Resp: 5690

Ion	Ratio	Lower	Upper
85	100		
87	30.5	25.8	38.6

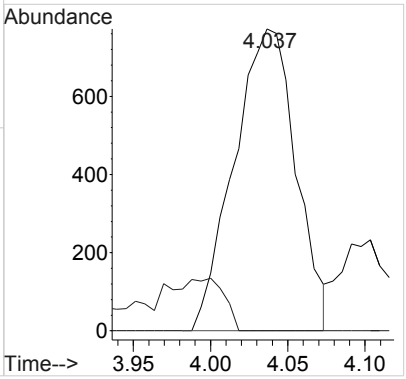




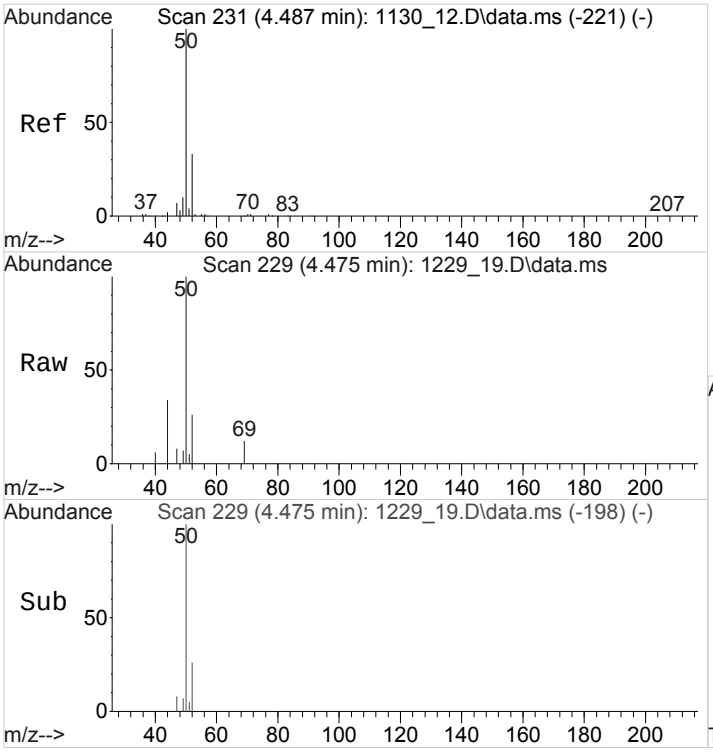
#6
CHLORODIFLUOROMETHANE
Concen: 0.2968104 ppbv
RT: 4.037 min Scan# 157
Delta R.T. -0.207 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 51 Resp: 2153

Ion	Ratio	Lower	Upper
51	100		
67	15.3	13.0	19.4



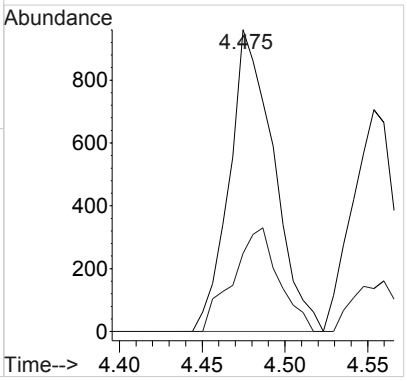
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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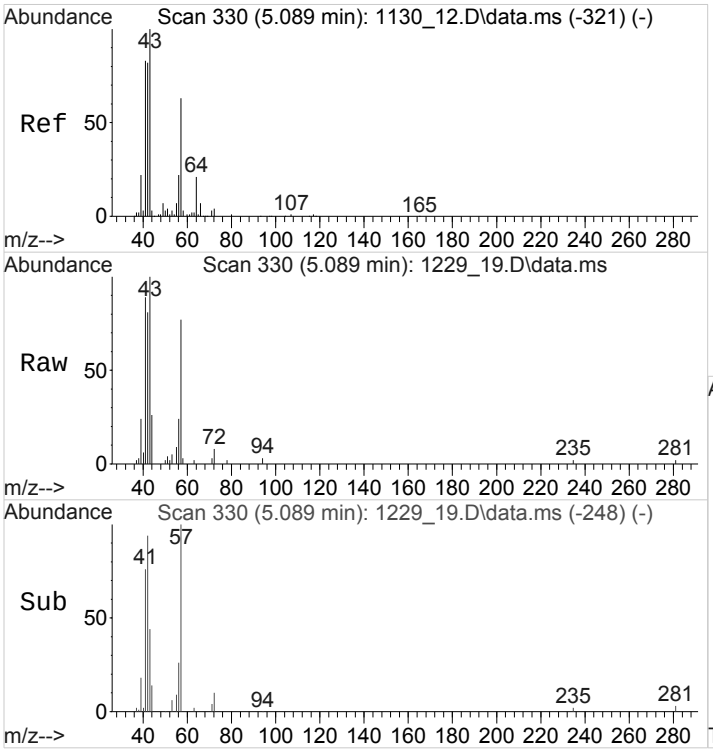


#8
Chloromethane
Concen: 0.3879938 ppbv
RT: 4.475 min Scan# 229
Delta R.T. -0.012 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 50 Resp: 1795

Ion	Ratio	Lower	Upper
50	100		
52	35.5	27.1	40.7

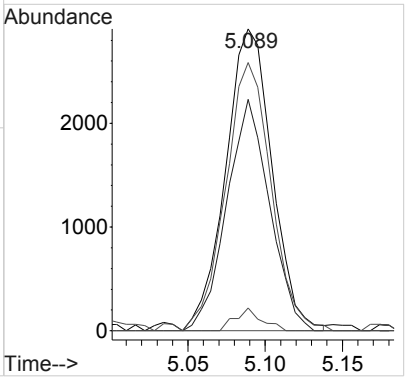




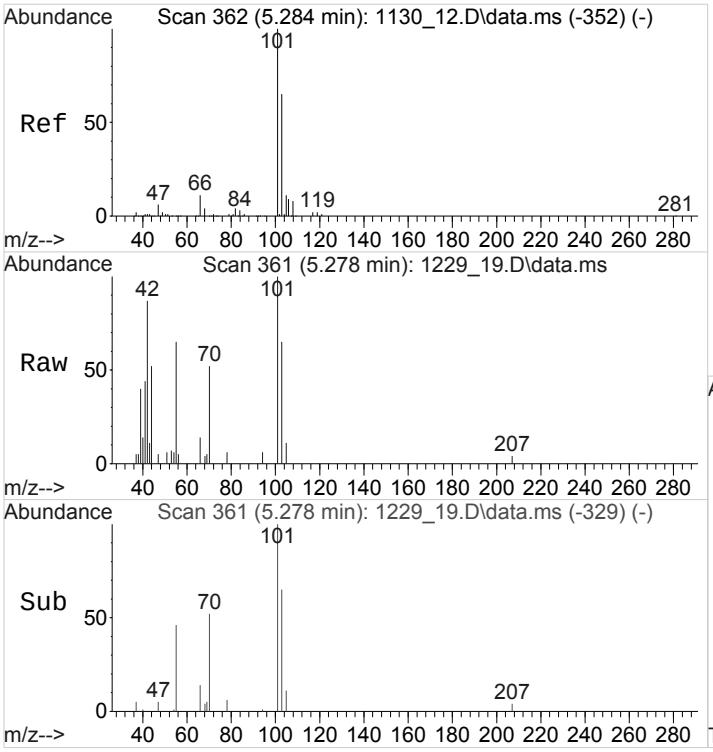
#13
ISOPENTANE
Concen: 1.2688348 ppbv
RT: 5.089 min Scan# 330
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 43 Resp: 6100

Ion	Ratio	Lower	Upper
43	100		
57	70.6	51.7	77.5
41	87.8	66.4	99.6
72	4.2	3.2	4.8



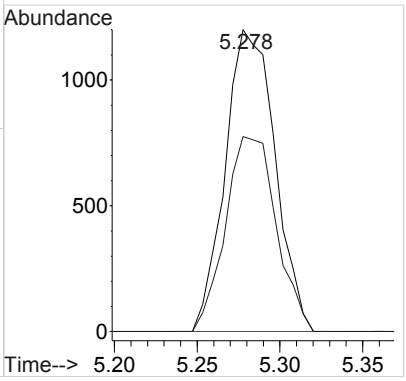
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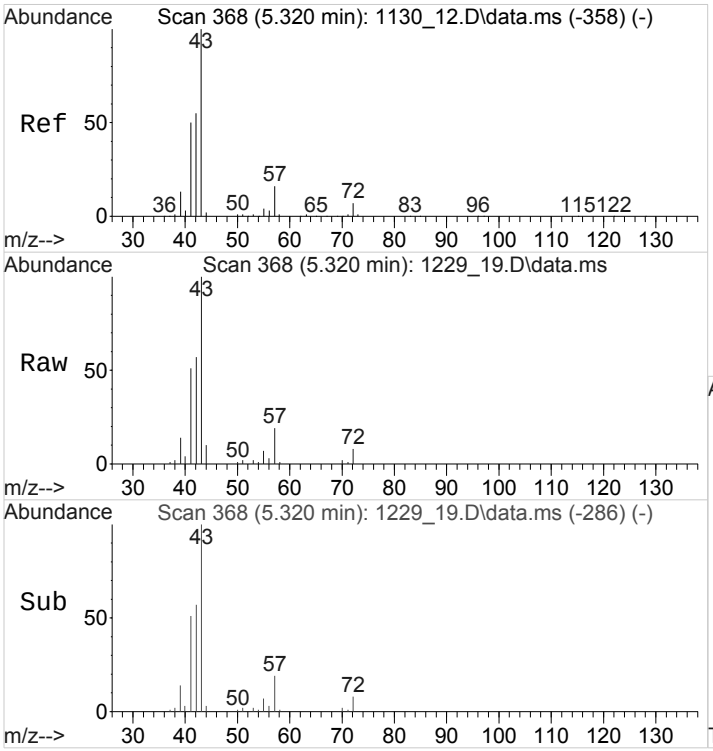


#15
Trichlorofluoromethane
Concen: 0.2335445 ppbv
RT: 5.278 min Scan# 361
Delta R.T. -0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion:101 Resp: 2516

Ion	Ratio	Lower	Upper
101	100		
103	65.9	52.8	79.2

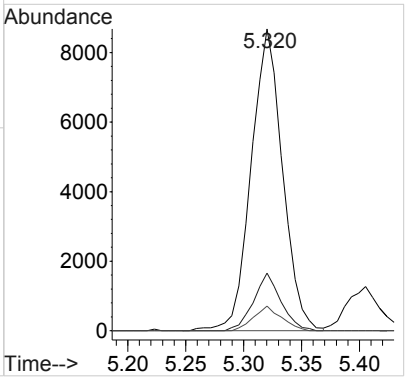




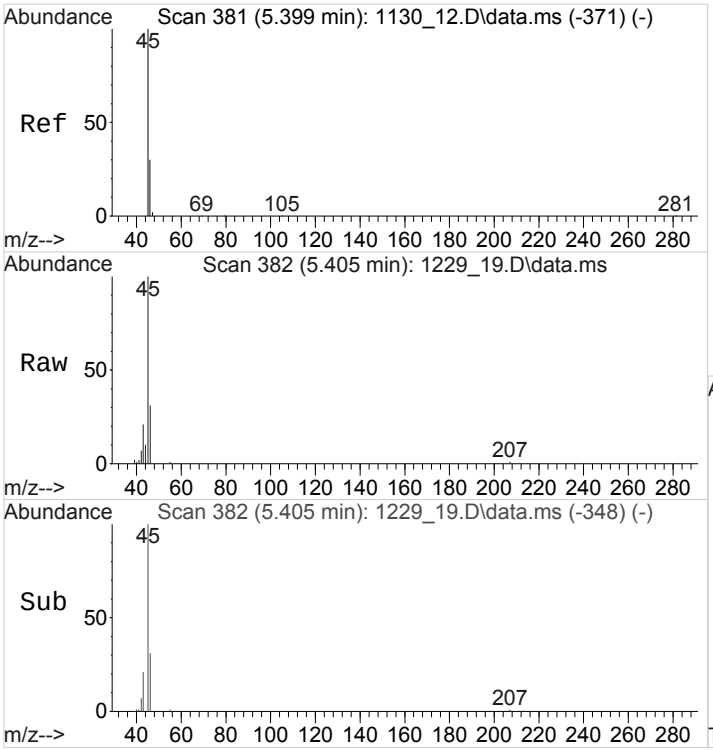
#16
PENTANE
Concen: 1.6534865 ppbv
RT: 5.320 min Scan# 368
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 43 Resp: 16351

Ion	Ratio	Lower	Upper
43	100		
57	16.7	13.0	19.4
72	7.3	5.8	8.8



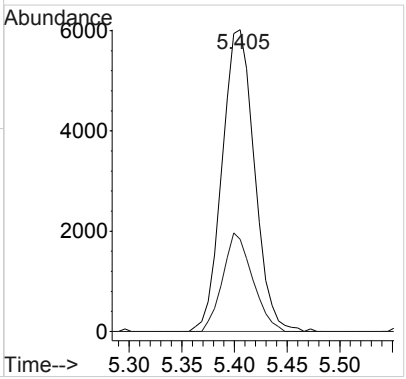
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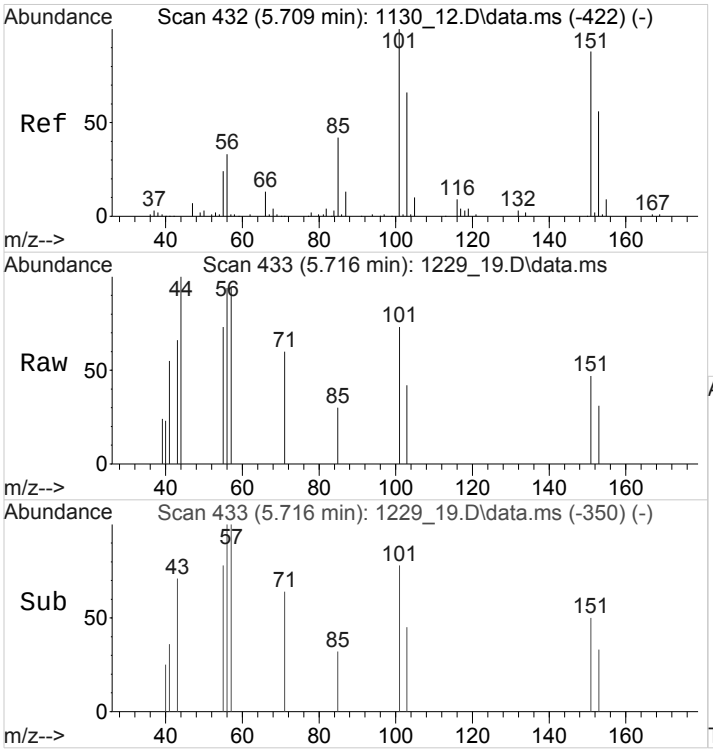


#17
Ethanol
Concen: 5.2863419 ppbv
RT: 5.405 min Scan# 382
Delta R.T. 0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 45 Resp: 12872

Ion	Ratio	Lower	Upper
45	100		
46	30.2	23.6	35.4

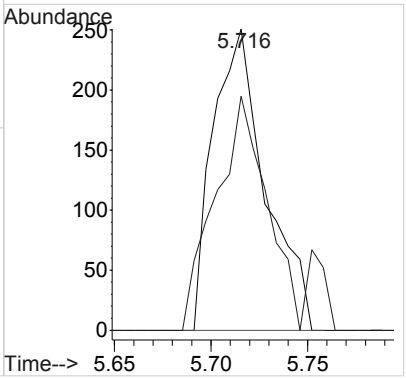


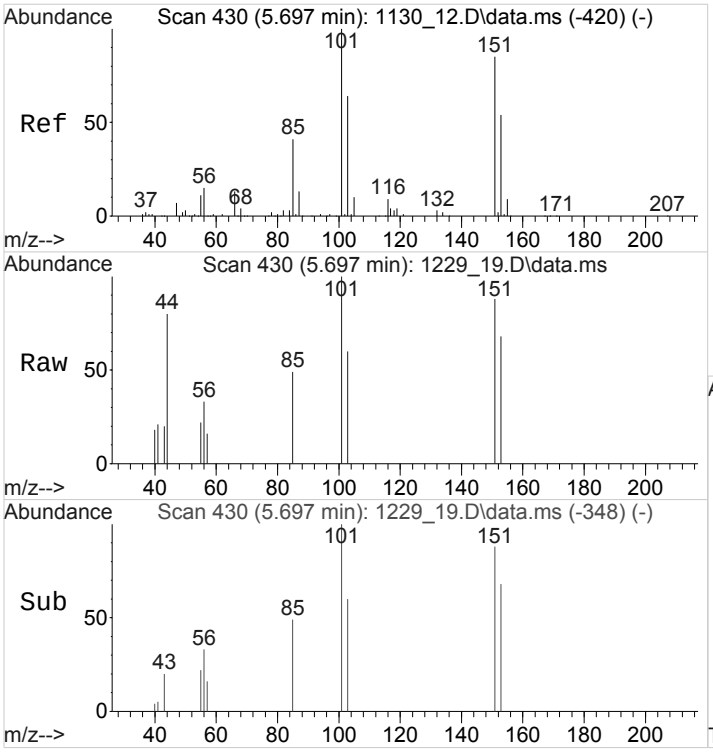


#18
ACROLEIN
Concen: 0.2092613 ppbv
RT: 5.716 min Scan# 433
Delta R.T. 0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 56 Resp: 473

Ion	Ratio	Lower	Upper
56	100		
55	76.5	60.4	90.6

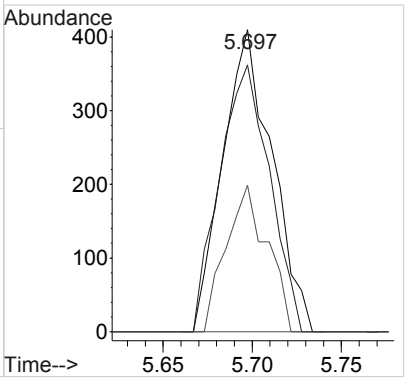


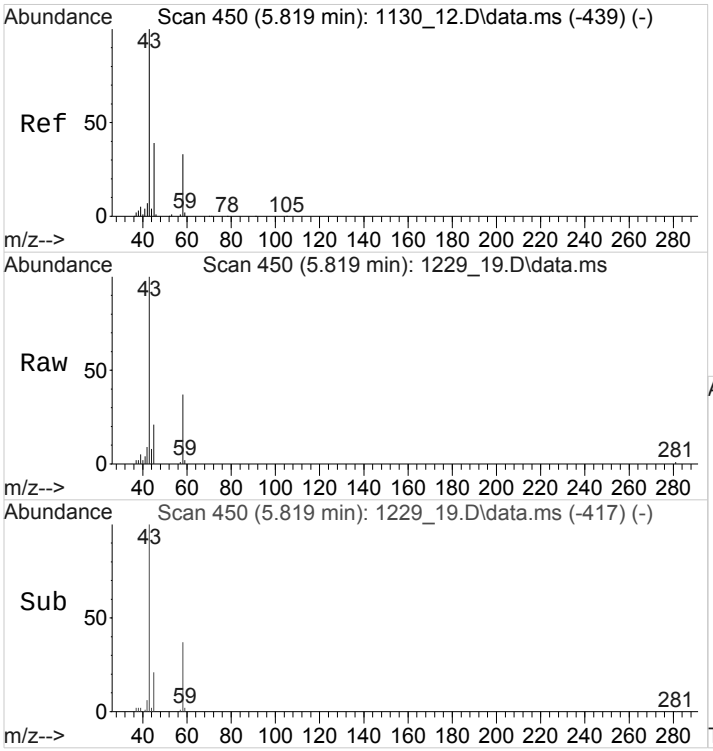


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.0674375 ppbv
RT: 5.697 min Scan# 430
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion:101 Resp: 786

Ion	Ratio	Lower	Upper
101	100		
151	89.4	67.4	101.2
85	40.5	34.4	51.6

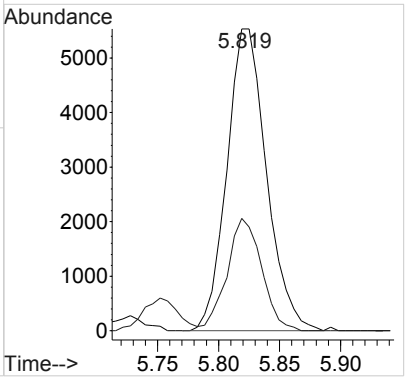




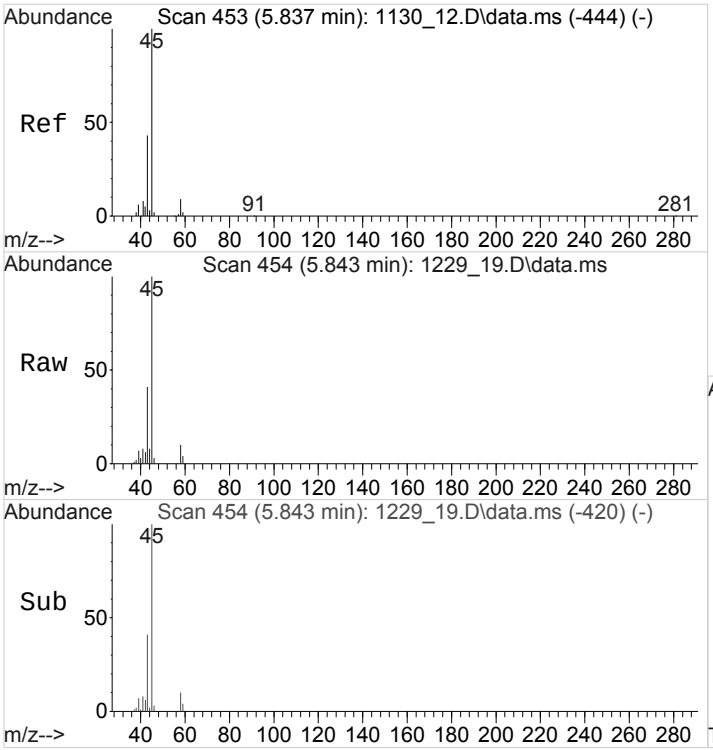
#21
Acetone
Concen: 1.5007041 ppbv
RT: 5.819 min Scan# 450
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 43 Resp: 12491

Ion	Ratio	Lower	Upper
43	100		
58	32.6	23.1	34.7



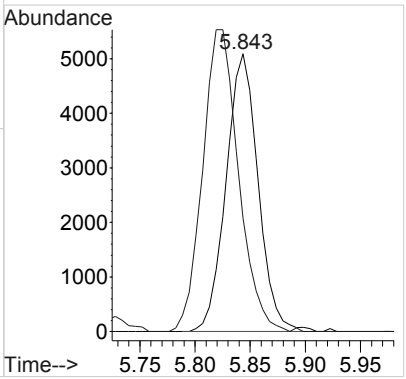
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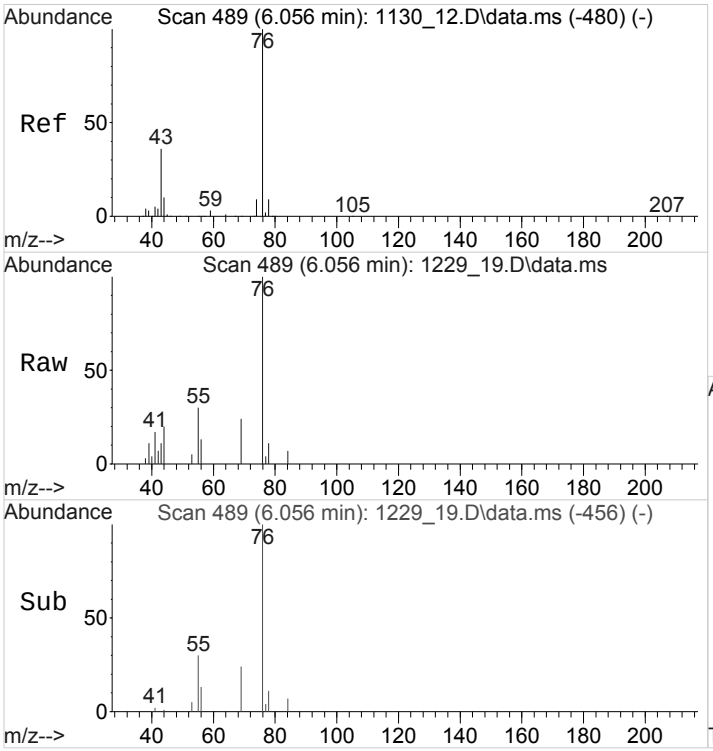


#23
2-Propanol
Concen: 1.1279882 ppbv
RT: 5.843 min Scan# 454
Delta R.T. 0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 45 Resp: 10367

Ion	Ratio	Lower	Upper
45	100		
43	120.5	73.5	110.3#

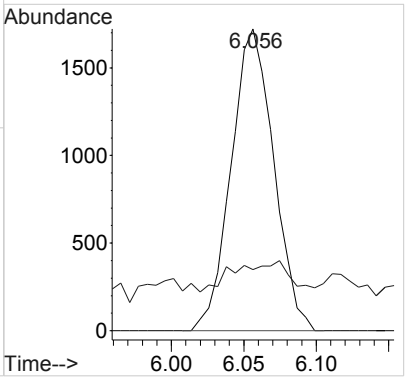


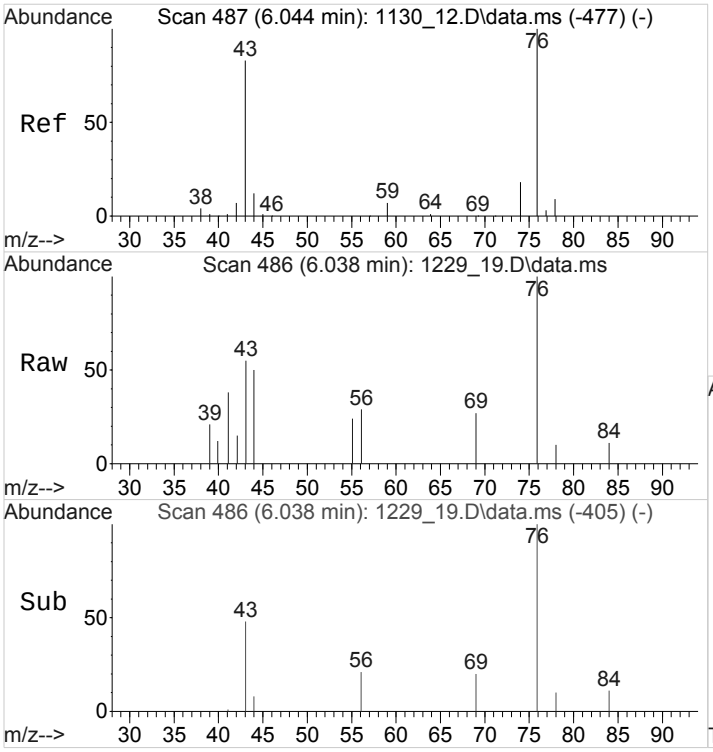


#24
Carbon Disulfide
Concen: 0.1707637 ppbv
RT: 6.056 min Scan# 489
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 76 Resp: 3517

Ion	Ratio	Lower	Upper
76	100		
44	19.2	8.4	12.6#

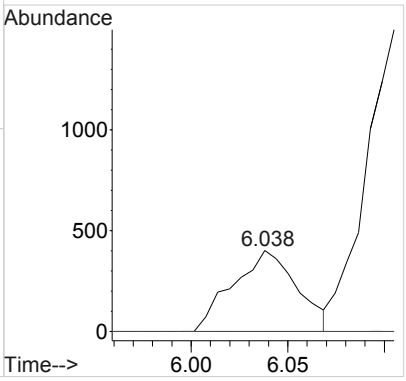


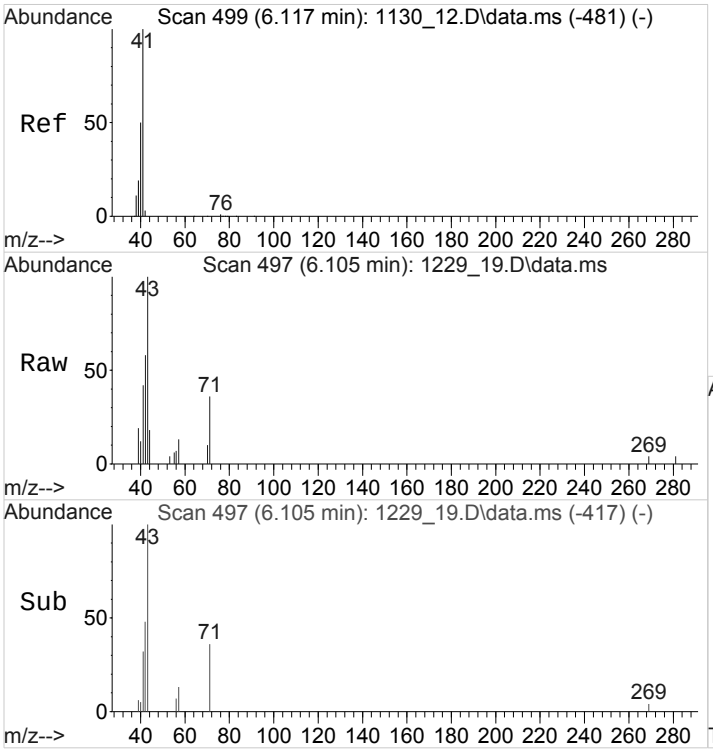


#26
METHYL ACETATE
Concen: 0.1003526 ppbv
RT: 6.038 min Scan# 486
Delta R.T. -0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 43 Resp: 928

Ion	Ratio	Lower	Upper
43	100		
74	0.0	17.4	26.0#
29	0.0	0.0	0.0

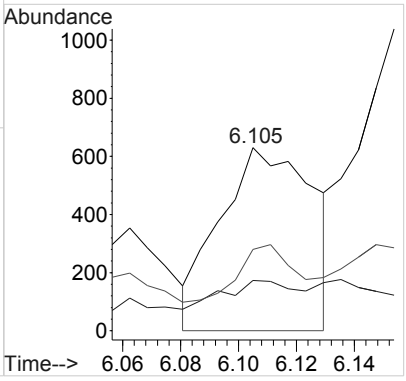


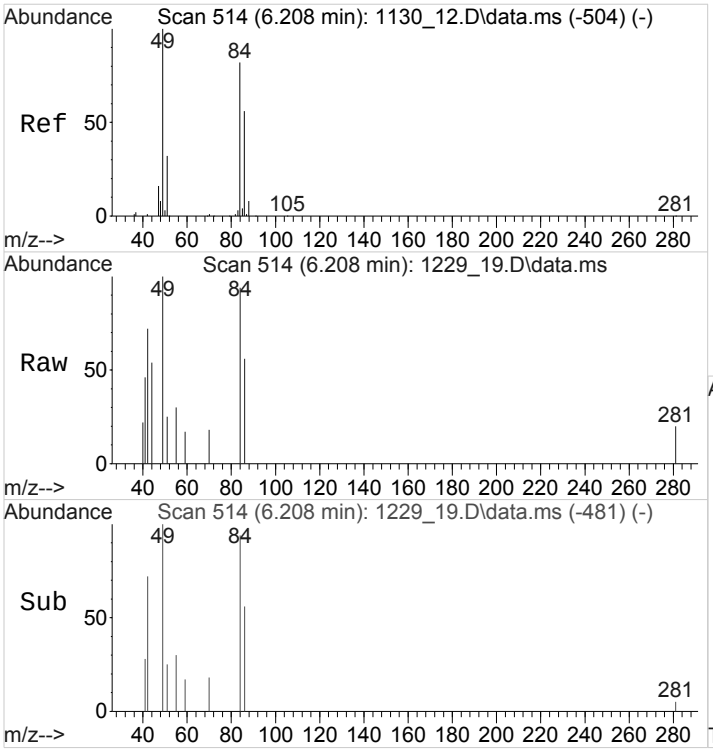


#27
ACETONITRILE
Concen: 0.2745178 ppbv
RT: 6.105 min Scan# 497
Delta R.T. -0.012 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 41 Resp: 1412

Ion	Ratio	Lower	Upper
41	100		
40	12.2	32.7	49.1#
39	33.1	22.7	34.1

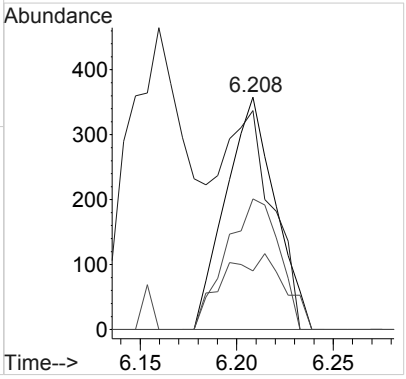


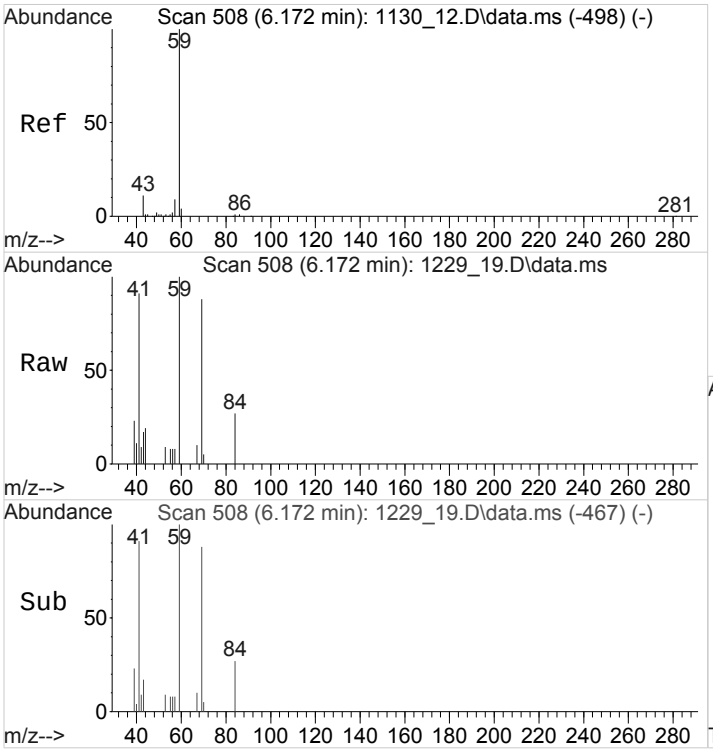


#28
Methylene Chloride
Concen: 0.1113649 ppbv
RT: 6.208 min Scan# 514
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 49 Resp: 639

Ion	Ratio	Lower	Upper
49	100		
84	96.9	65.0	97.6
86	59.5	41.8	62.6
51	41.0	26.3	39.5#

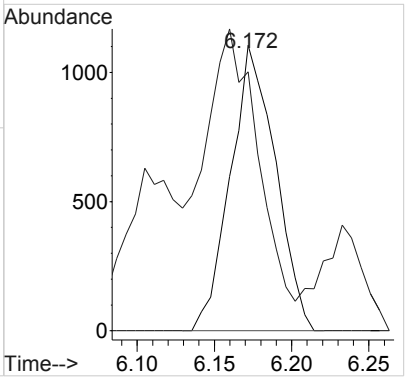


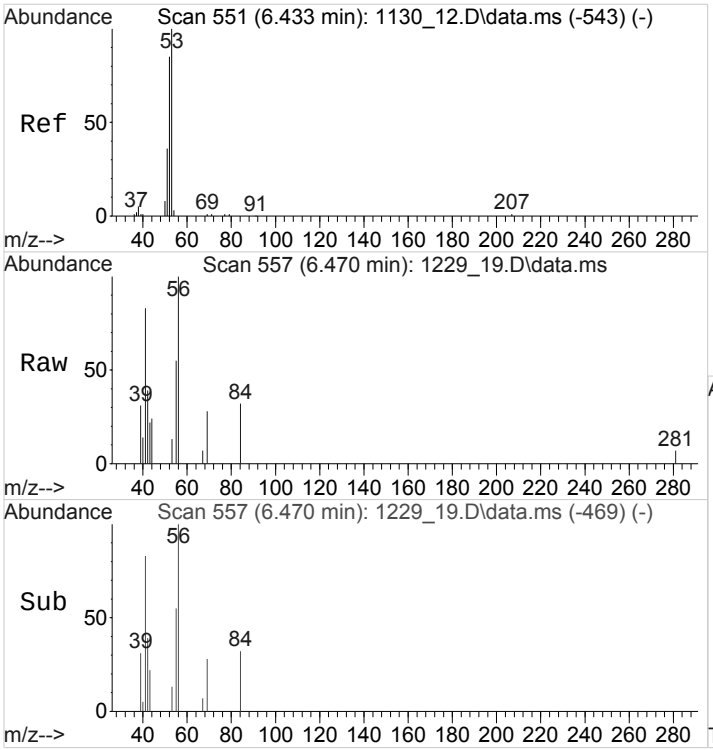


#29
TERT-BUTYL ALCOHOL
Concen: 0.2318185 ppbv
RT: 6.172 min Scan# 508
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 59 Resp: 2243

Ion	Ratio	Lower	Upper
59	100		
41	128.8	216.4	324.6#

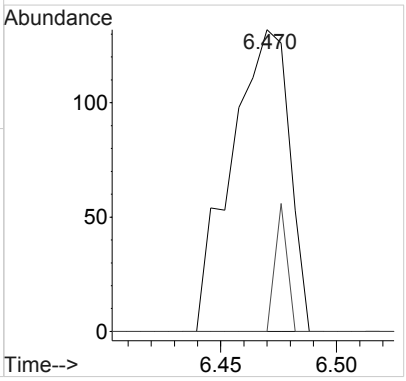


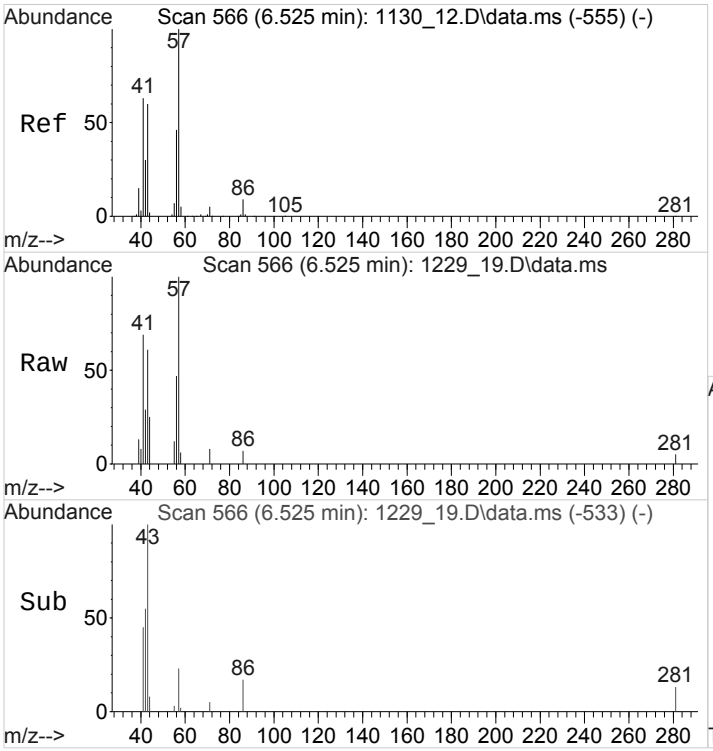


#32
ACRYLONITRILE
Concen: 0.0536159 ppbv
RT: 6.470 min Scan# 557
Delta R.T. 0.037 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 53 Resp: 229

Ion	Ratio	Lower	Upper
53	100		
52	0.0	67.3	100.9#
51	8.7	28.2	42.2#

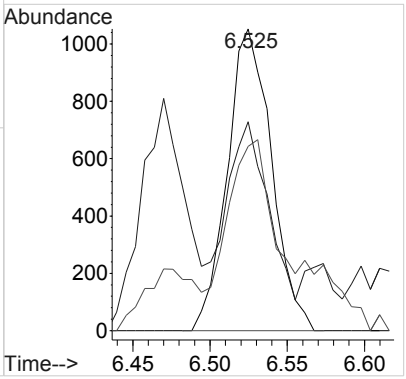




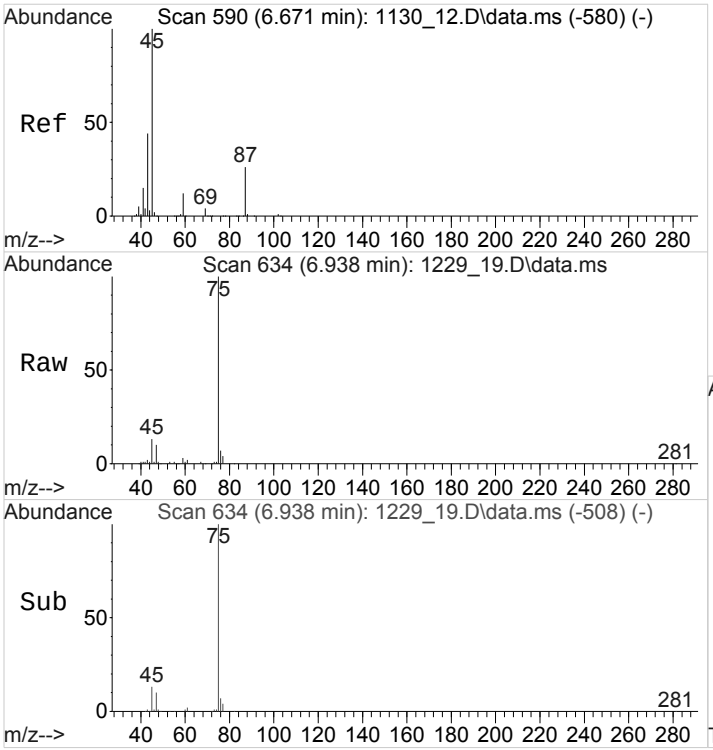
#33
n-Hexane
Concen: 0.2712549 ppbv
RT: 6.525 min Scan# 566
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 57 Resp: 2097

Ion	Ratio	Lower	Upper
57	100		
41	58.1	50.9	76.3
43	48.5	48.4	72.6



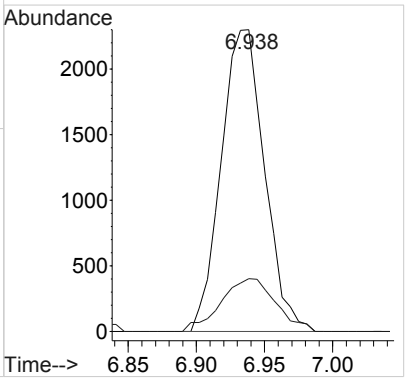
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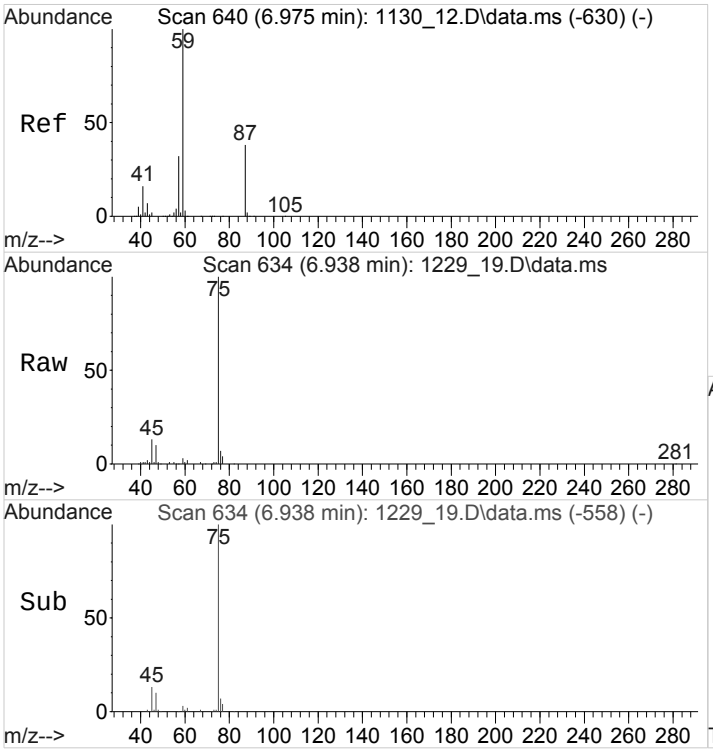


#36
DI-ISOPROPYL ETHER
Concen: 0.3241911 ppbv
RT: 6.938 min Scan# 634
Delta R.T. 0.268 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 45 Resp: 5078

Ion	Ratio	Lower	Upper
45	100		
43	22.2	36.7	55.1#

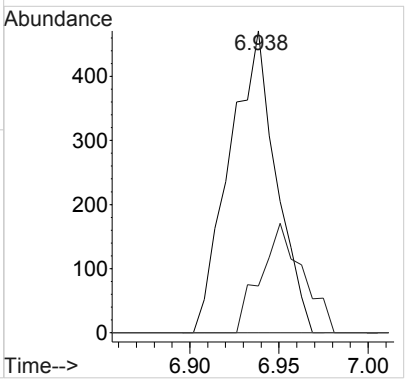




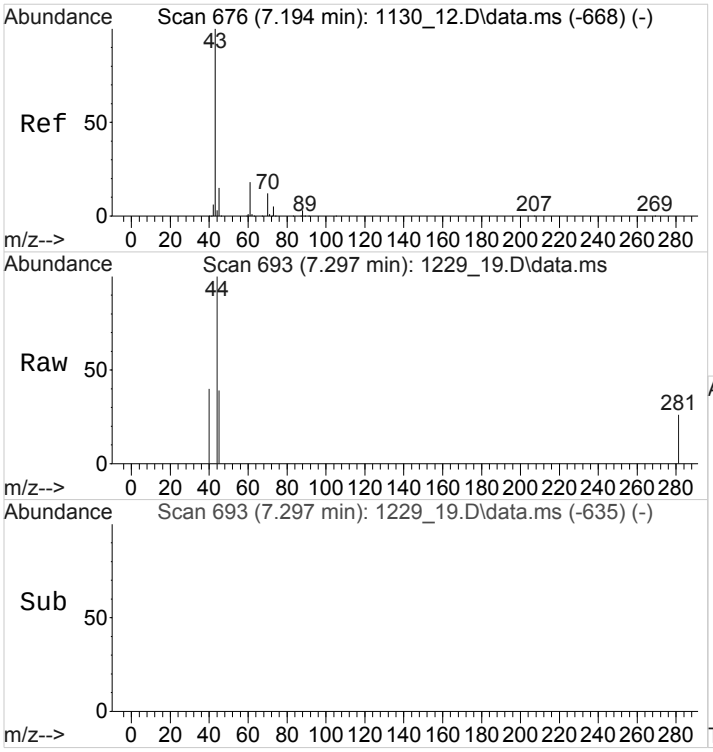
#37
ETHYL TERT-BUTYL ETHER
Concen: 0.0515661 ppbv
RT: 6.938 min Scan# 634
Delta R.T. -0.036 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 59 Resp: 856

Ion	Ratio	Lower	Upper
59	100		
57	32.6	26.6	39.8
87	0.0	30.4	45.6#



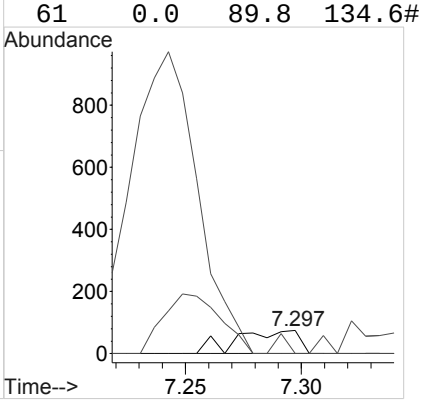
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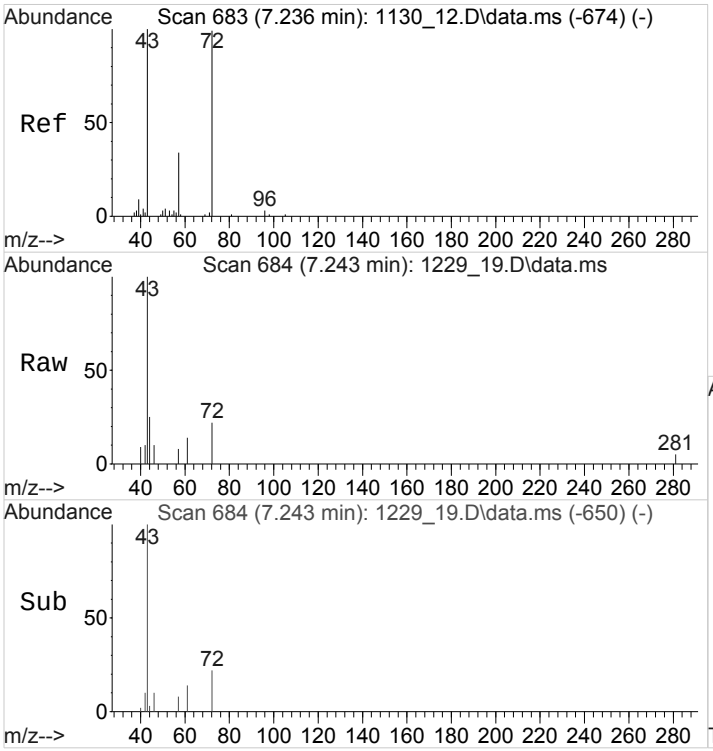


#38
ETHYL ACETATE
Concen: 0.0810498 ppbv
RT: 7.297 min Scan# 693
Delta R.T. 0.104 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 45 Resp: 140

Ion	Ratio	Lower	Upper
45	100		
70	0.0	60.5	90.7#
43	102.9	543.4	815.0#
61	0.0	89.8	134.6#

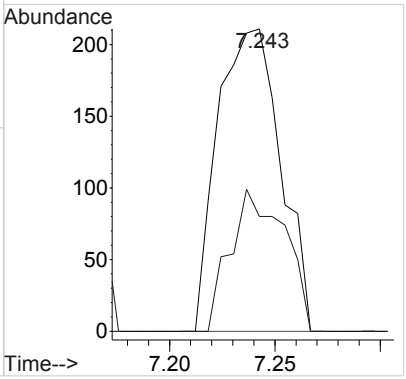


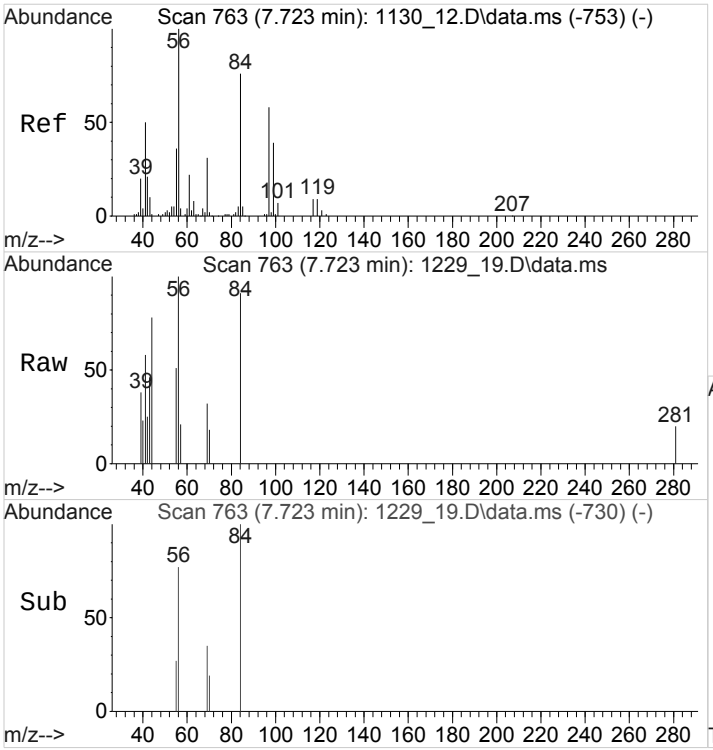


#39
2-Butanone (MEK)
Concen: 0.1721063 ppbv
RT: 7.243 min Scan# 684
Delta R.T. 0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 72 Resp: 438

Ion	Ratio	Lower	Upper
72	100		
57	40.6	27.3	40.9

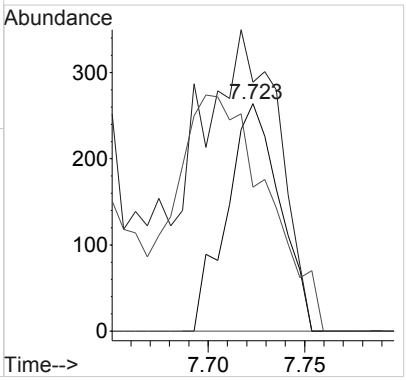


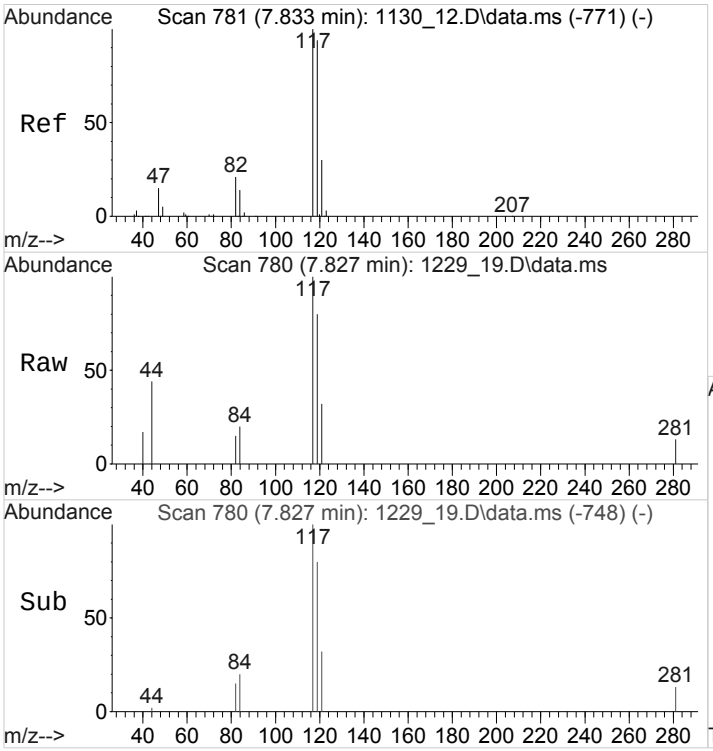


#43
Cyclohexane
Concen: 0.0818991 ppbv
RT: 7.723 min Scan# 763
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 84 Resp: 507

Ion	Ratio	Lower	Upper
84	100		
56	190.3	106.5	159.7#
41	176.3	52.0	78.0#

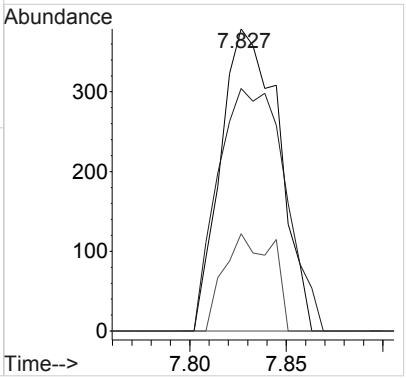




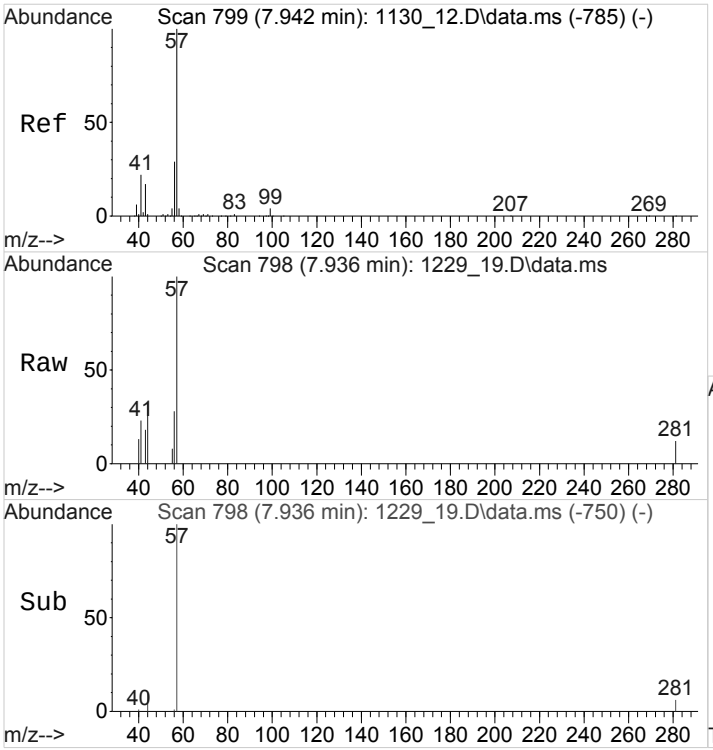
#45
Carbon Tetrachloride
Concen: 0.0656183 ppbv
RT: 7.827 min Scan# 780
Delta R.T. -0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion:117 Resp: 789

Ion	Ratio	Lower	Upper
117	100		
119	93.4	77.3	115.9
121	27.1	25.0	37.4



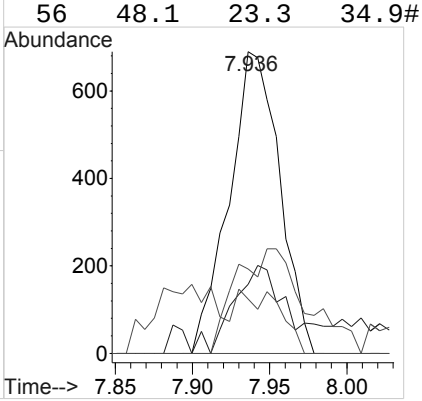
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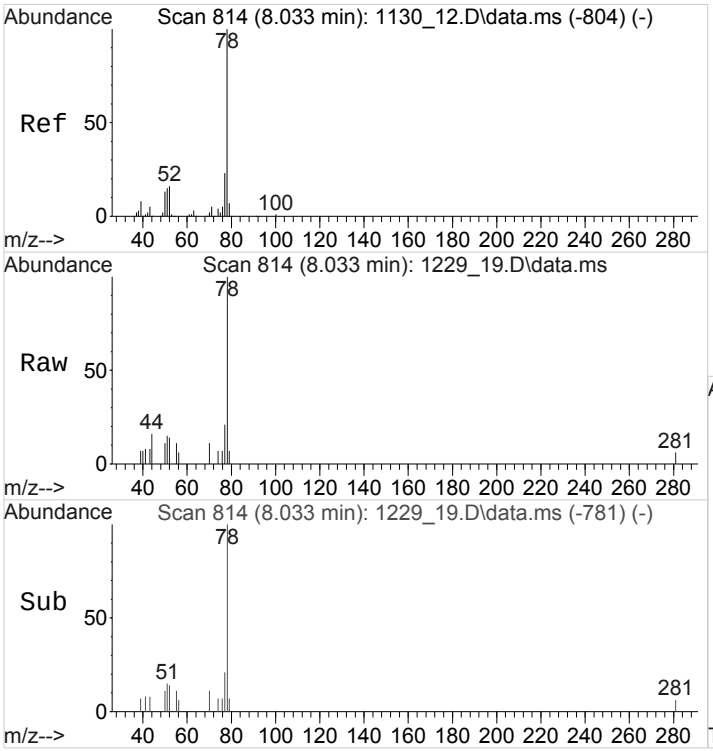


#46
2,2,4-Trimethylpentane
Concen: 0.0618187 ppbv
RT: 7.936 min Scan# 798
Delta R.T. -0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 57 Resp: 1573

Ion	Ratio	Lower	Upper
57	100		
41	31.0	18.2	27.2#
43	3.6	13.3	19.9#
56	48.1	23.3	34.9#

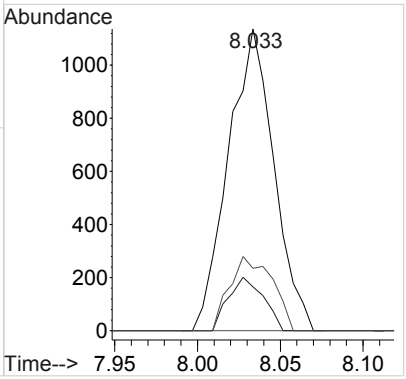




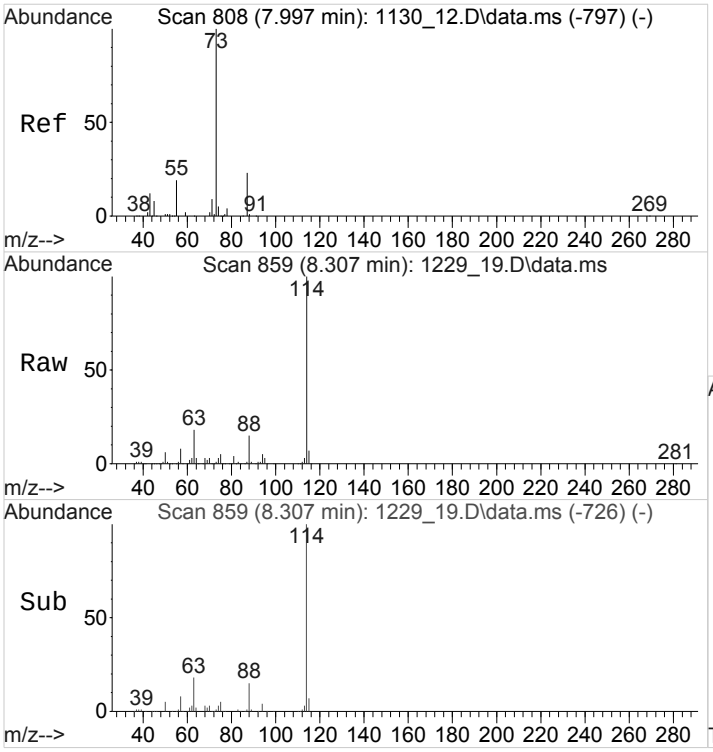
#48
Benzene
Concen: 0.1435200 ppbv
RT: 8.033 min Scan# 814
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 78 Resp: 2181

Ion	Ratio	Lower	Upper
78	100		
51	13.7	12.1	18.1
77	23.0	18.8	28.2



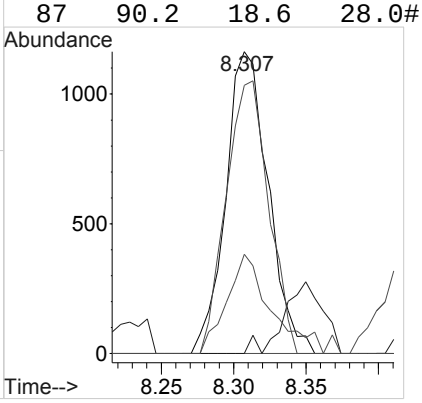
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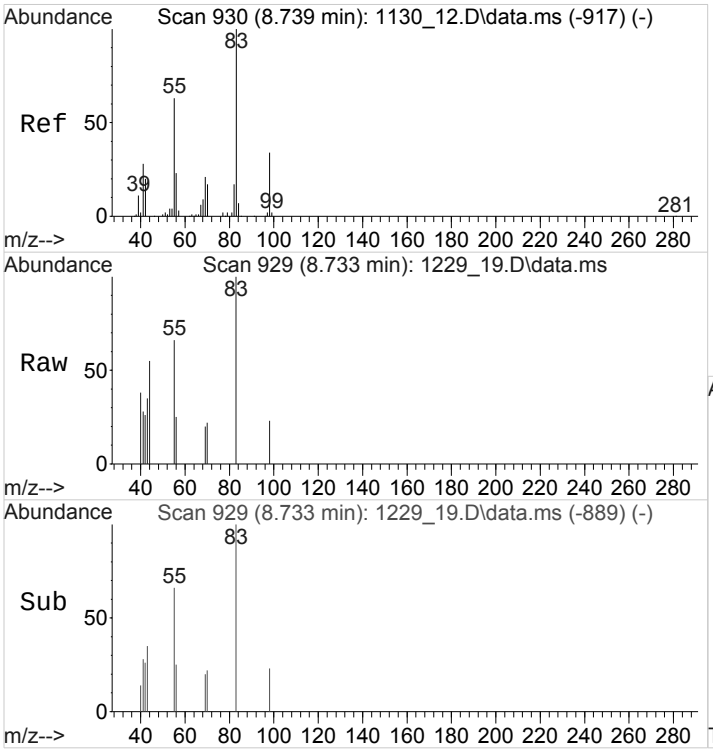


#49
TERT-AMYL METHYL ETHER
Concen: 0.1585274 ppbv
RT: 8.307 min Scan# 859
Delta R.T. 0.310 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 73 Resp: 2371

Ion	Ratio	Lower	Upper
73	100		
43	21.7	24.9	37.3#
55	35.2	18.8	28.2#
87	90.2	18.6	28.0#

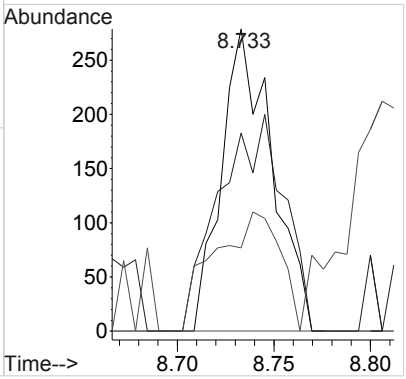


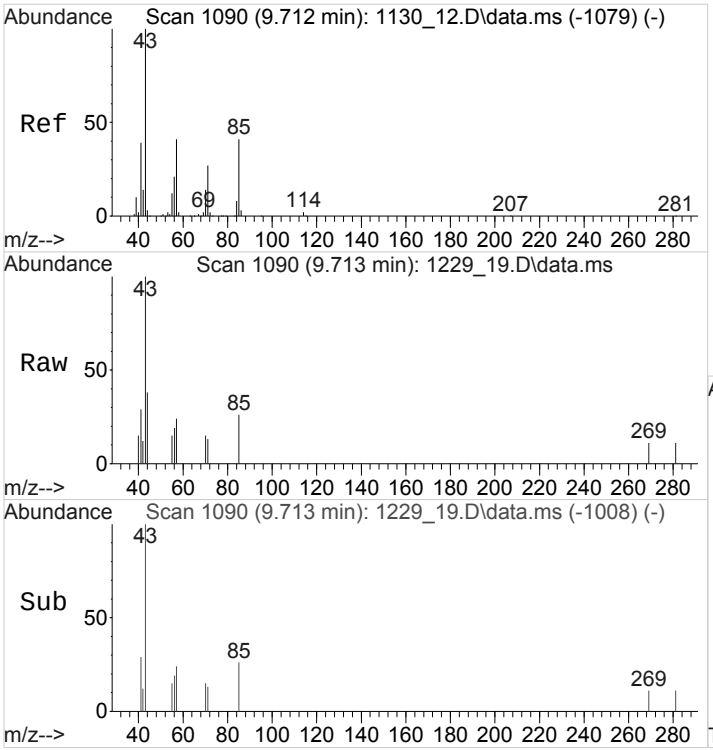


#54
METHYL CYCLOHEXANE
Concen: 0.0504731 ppbv
RT: 8.733 min Scan# 929
Delta R.T. -0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 83 Resp: 507

Ion	Ratio	Lower	Upper
83	100		
55	91.5	66.6	99.8
41	51.3	26.8	40.2#

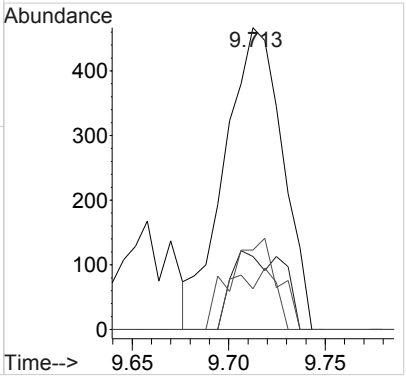


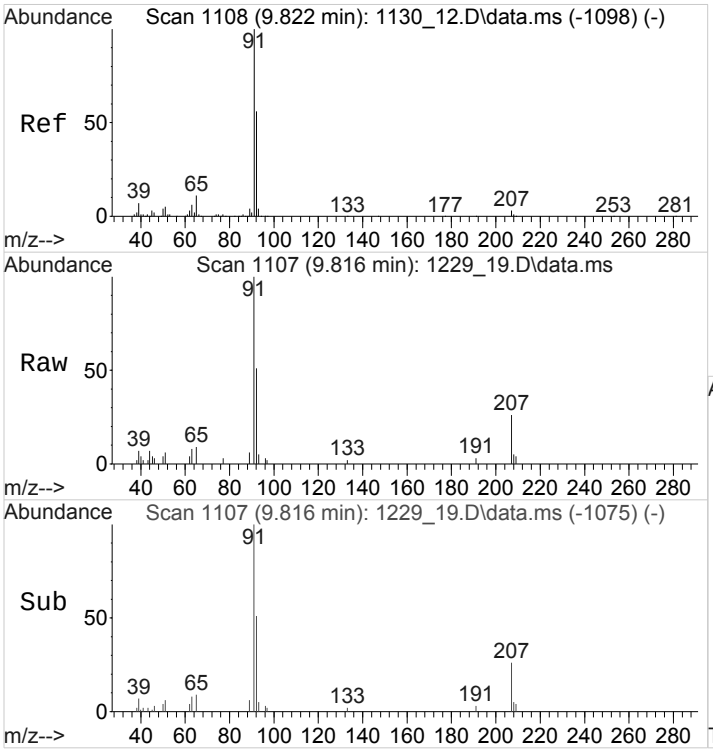


#61
n-OCTANE
Concen: 0.0744158 ppbv
RT: 9.713 min Scan# 1090
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 43 Resp: 976

Ion	Ratio	Lower	Upper
43	100		
57	23.0	33.1	49.7#
85	25.1	33.1	49.7#
71	14.7	22.1	33.1#

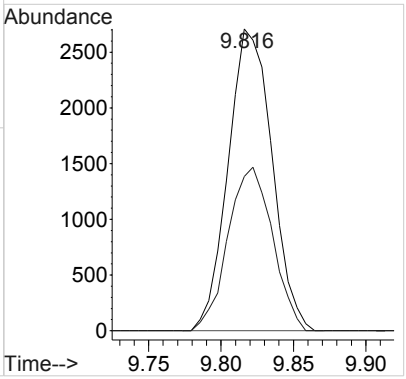




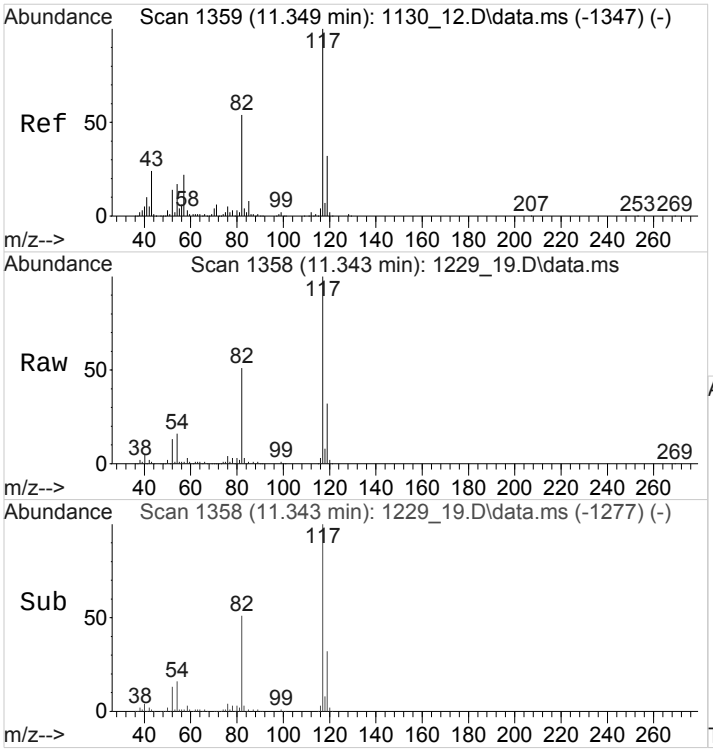
#62
Toluene
Concen: 0.2924783 ppbv
RT: 9.816 min Scan# 1107
Delta R.T. -0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 91 Resp: 5696

Ion	Ratio	Lower	Upper
91	100		
92	55.0	44.1	66.1



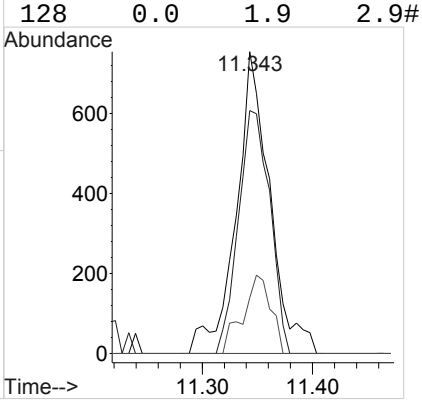
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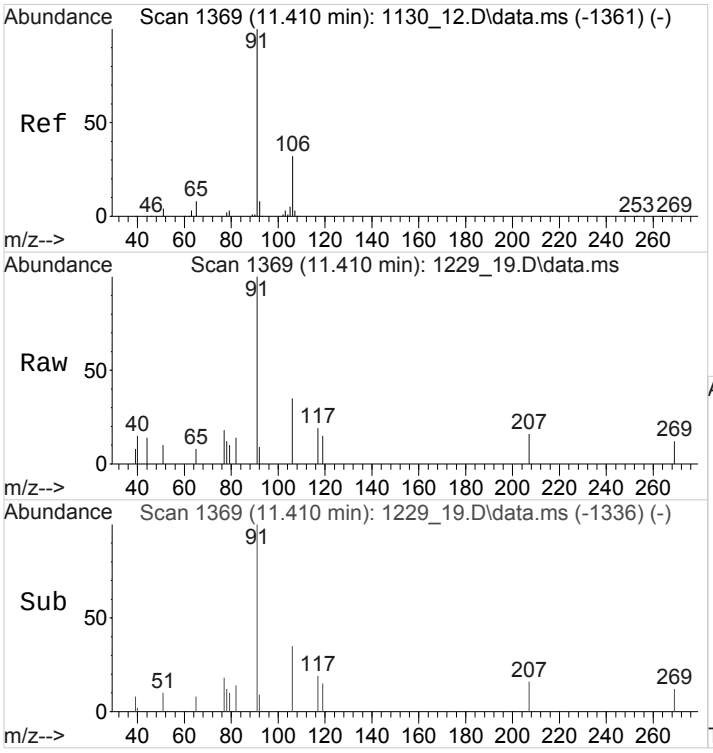


#70
NONANE
Concen: 0.1153969 ppbv
RT: 11.343 min Scan# 1358
Delta R.T. -0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 43 Resp: 1602

Ion	Ratio	Lower	Upper
43	100		
57	75.5	74.6	112.0
71	21.7	20.0	30.0
128	0.0	1.9	2.9#

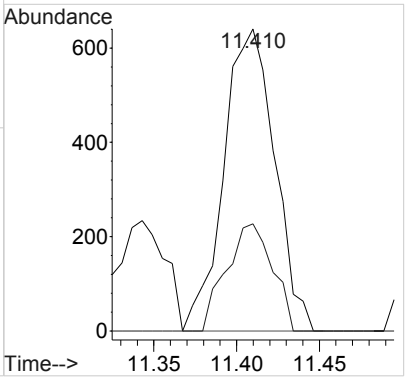




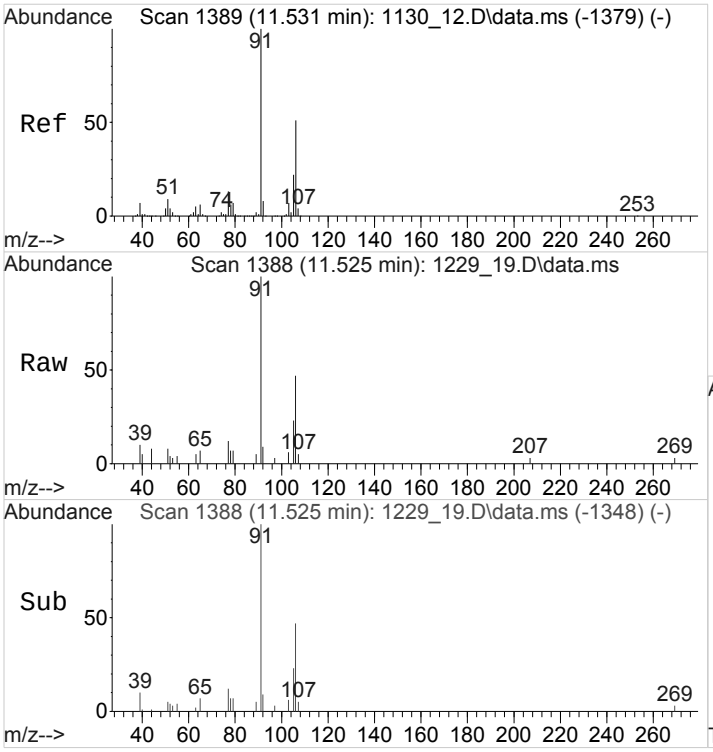
#72
Ethylbenzene
Concen: 0.0605261 ppbv
RT: 11.410 min Scan# 1369
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 91 Resp: 1372

Ion	Ratio	Lower	Upper
91	100		
106	32.2	25.6	38.4



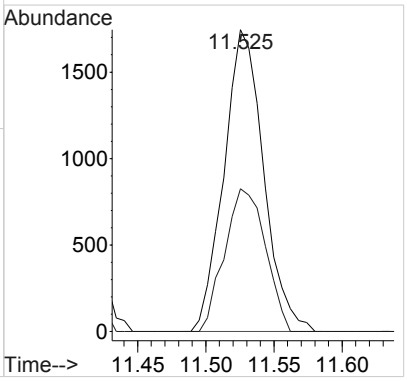
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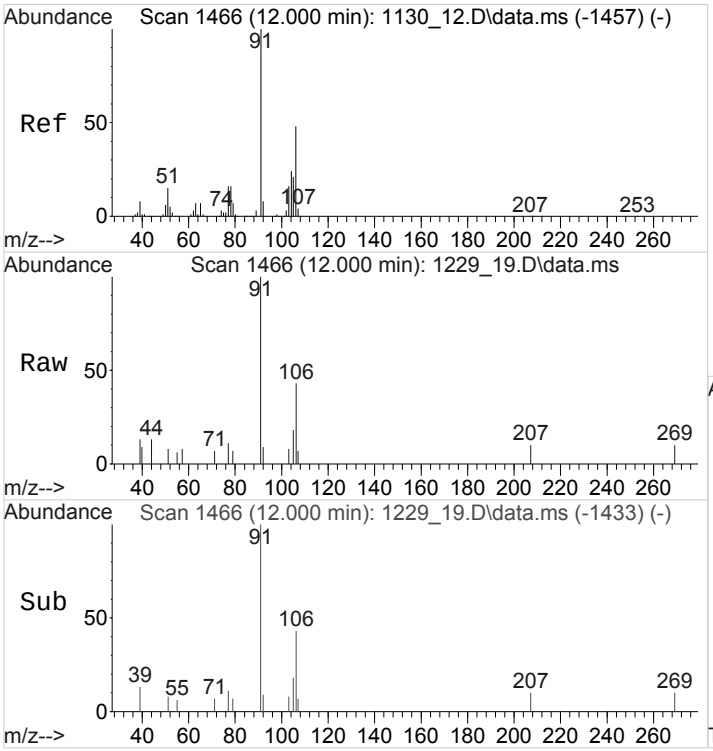


#73
M&P-Xylene
Concen: 0.1988215 ppbv
RT: 11.525 min Scan# 1388
Delta R.T. -0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 91 Resp: 3532

Ion	Ratio	Lower	Upper
91	100		
106	48.6	39.7	59.5

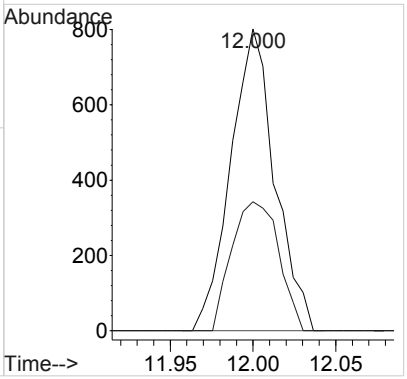




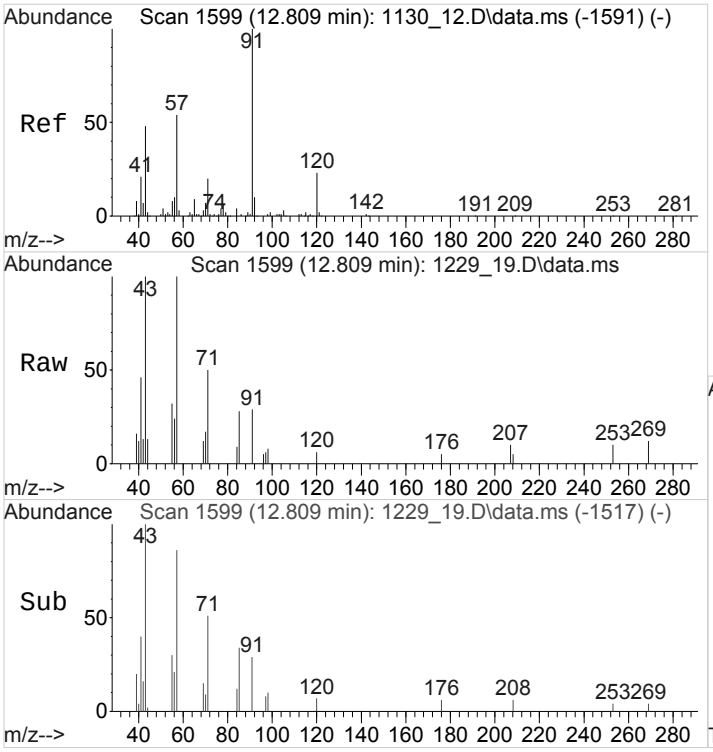
#74
O-Xylene
Concen: 0.0797345 ppbv
RT: 12.000 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 91 Resp: 1494

Ion	Ratio	Lower	Upper
91	100		
106	45.5	38.4	57.6



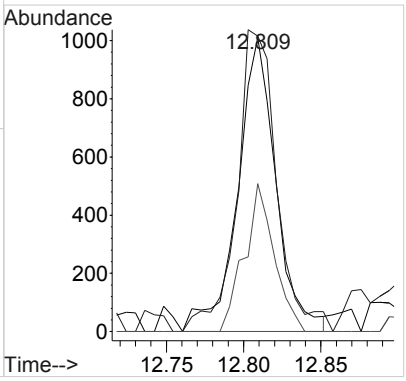
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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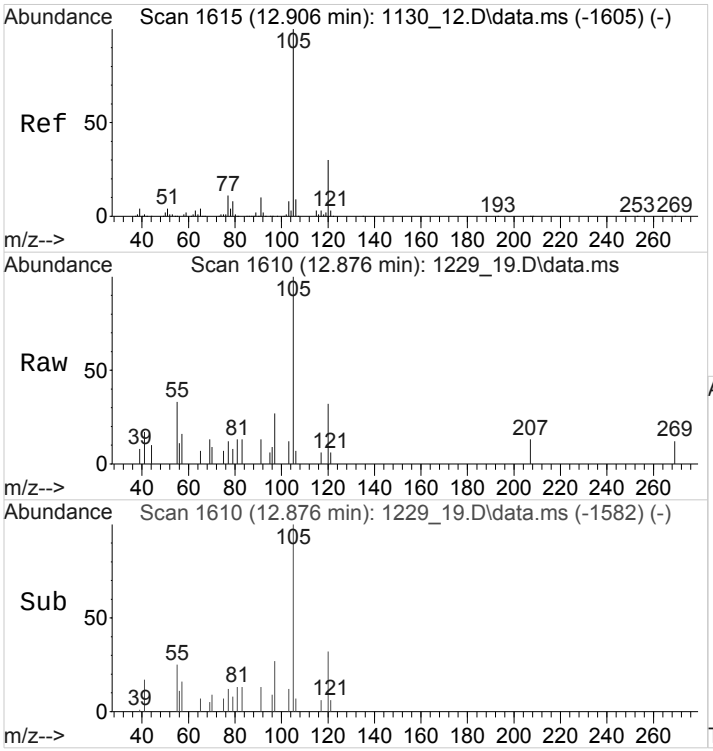


#80
n-DECANE
Concen: 0.1467032 ppbv
RT: 12.809 min Scan# 1599
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion: 43 Resp: 1741

Ion	Ratio	Lower	Upper
43	100		
57	106.8	89.7	134.5
71	39.3	34.1	51.1

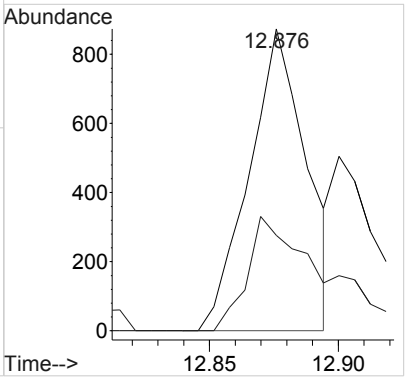


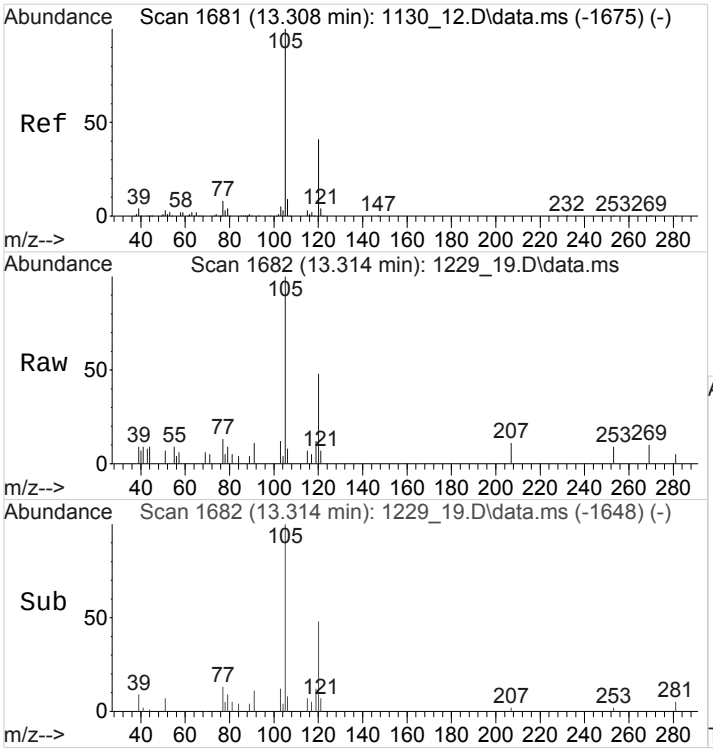


#83
4-Ethyltoluene
Concen: 0.0574286 ppbv
RT: 12.876 min Scan# 1610
Delta R.T. -0.030 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion:105 Resp: 1352

Ion	Ratio	Lower	Upper
105	100		
120	49.5	24.6	36.8#

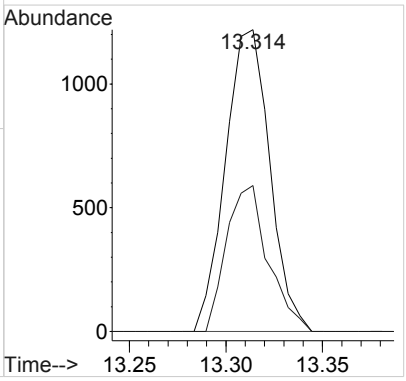


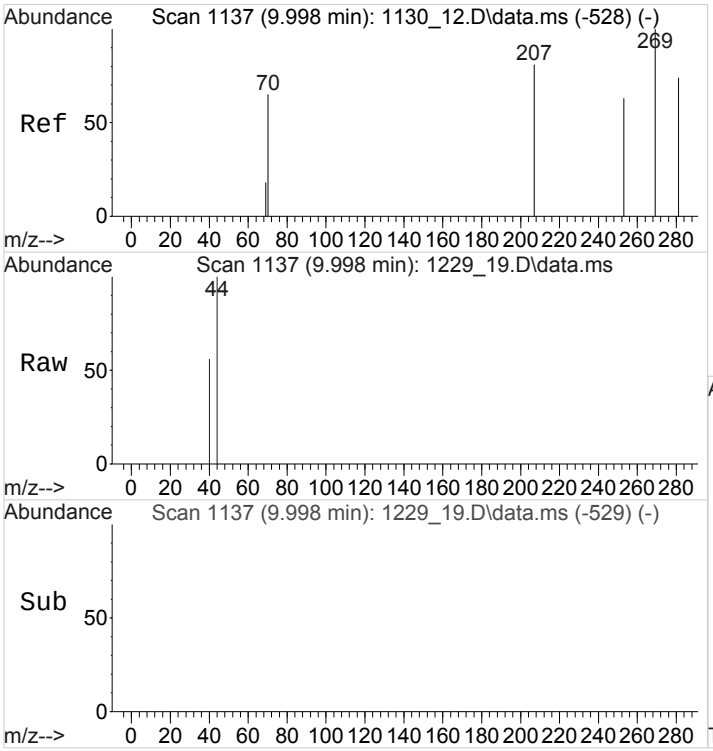


#88
1,2,4-Trimethylbenzene
Concen: 0.1029258 ppbv
RT: 13.314 min Scan# 1682
Delta R.T. 0.006 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion:105 Resp: 1949

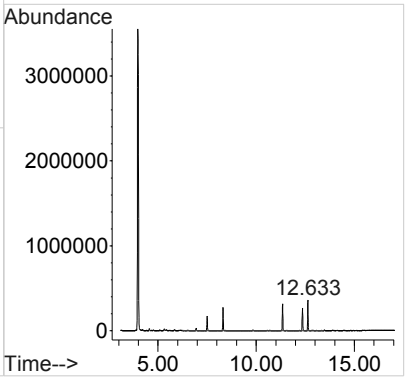
Ion	Ratio	Lower	Upper
105	100		
120	45.6	35.9	53.9



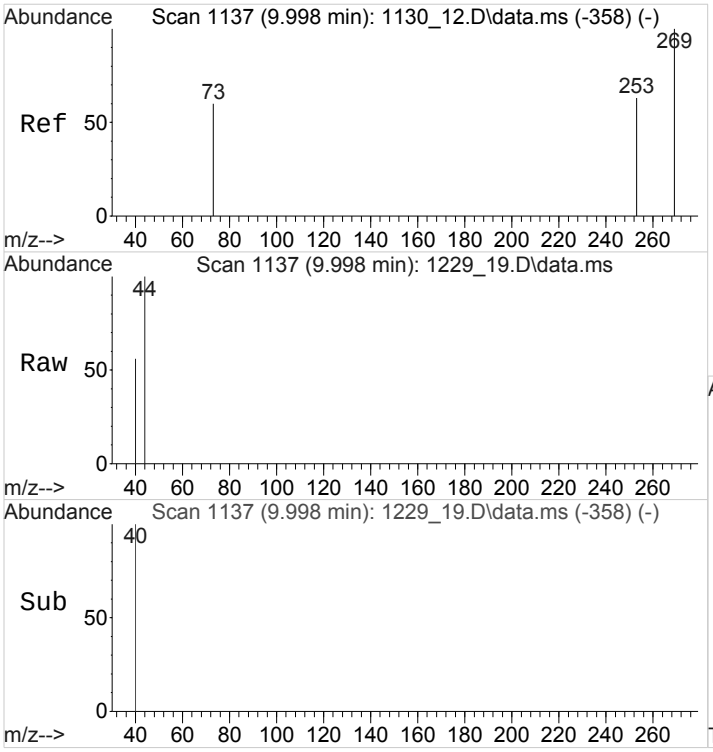


#101
TPH (GC/MS) Low Fraction
Concen: 30.7941636 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion:TIC Resp: 1083527

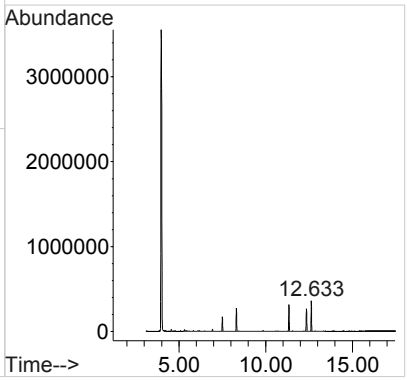


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#102
TPH-GRO (C5-C10)
Concen: 43.5042933 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_19.D
Acq: 29 Dec 2022 11:46 pm

Tgt Ion:TIC Resp: 1291854



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SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
786-VMP-2_1222

Lab Sample ID:	L1570581-07	**SDG:**	L1570581
Client Sample ID:	786-VMP-2_1222	**Collected Date/Time:**	12/21/22 16:20
Lab File ID:	1229_20	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/30/22 00:30
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/30/22 00:30
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.82	4.47	J	1.39	2.85	5.70
Benzene	71-43-2	8.03	0.476	J	0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	0	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	0.469	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	11.41	0.767	J	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	12.88	0.490	J	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.35	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	2.20	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.69	0.966	J	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	6.20	3.54		0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	0.540	J	0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	0	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	9.82	1.65	J	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570581-07	**SDG:**	L1570581
Client Sample ID:	786-VMP-2_1222	**Collected Date/Time:**	12/21/22 16:20
Lab File ID:	1229_20	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/30/22 00:30
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/30/22 00:30
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.58	4.70		0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	13.31	0.574	J	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	12.96	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	2.28	J	0.585	1.30	2.60
o-Xylene	95-47-6	12	1.19	J	0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_20.D
Acq On : 30 Dec 2022 12:30 am
Operator :
Sample : L1570581-07 1x WG1980894
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 31 07:38:26 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

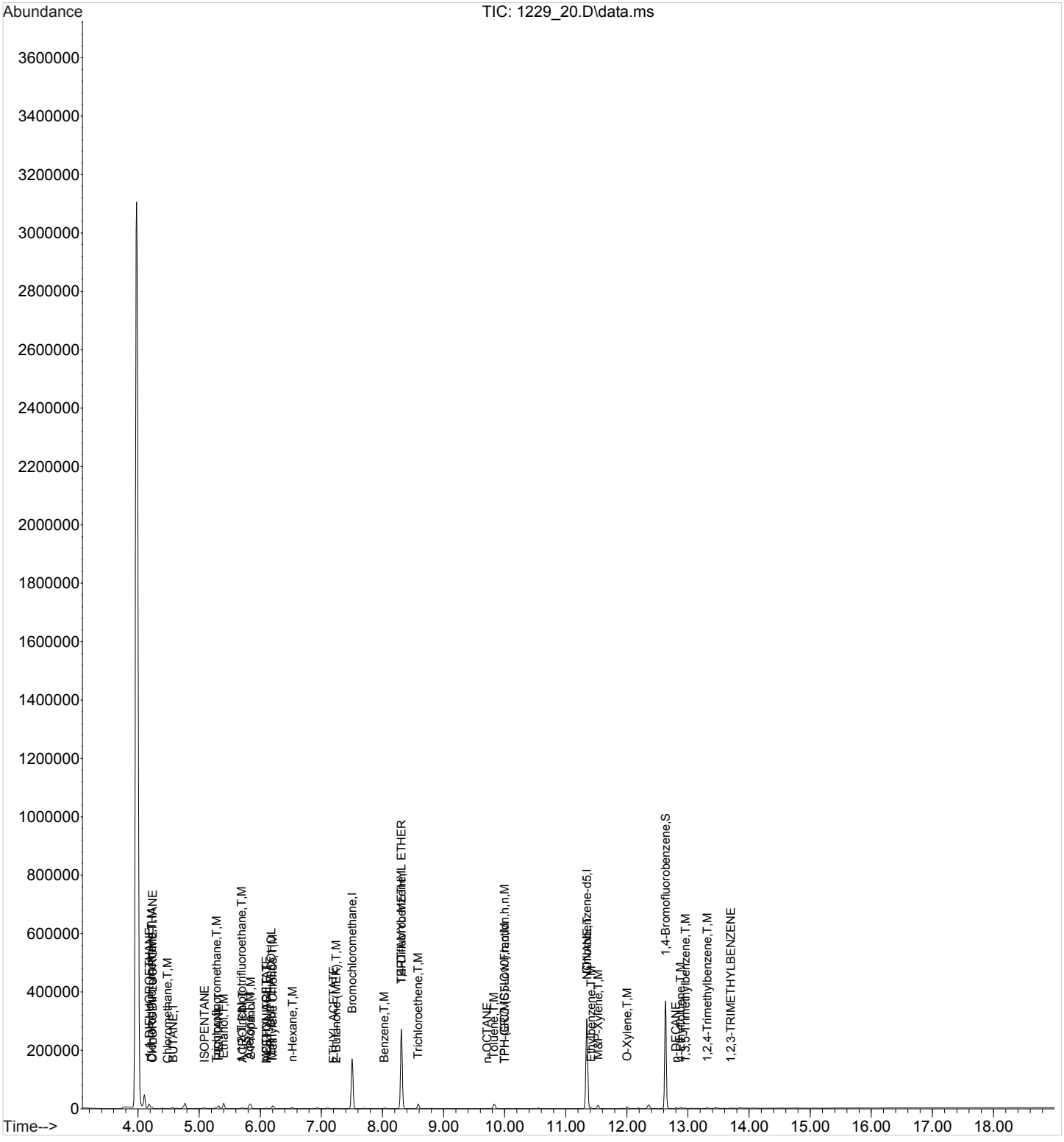
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	73637	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.307	114	264840	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	233011	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	137365	3.4550560	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 86.38%			
Target Compounds						Qvalue
3) BUTANE	4.572	43	2481	0.3671724	ppbv #	94
4) 1,1-DIFLUOROETHANE	4.183	51	13077	2.2521843	ppbv	96
5) Dichlorodifluoromethane	4.219	85	5563	0.4452621	ppbv	98
6) CHLORODIFLUOROMETHANE	4.237	51	944	0.1340517	ppbv	96
8) Chloromethane	4.481	50	1019	0.2268818	ppbv #	85
13) ISOPENTANE	5.089	43	1401	0.3001778	ppbv #	96
15) Trichlorofluoromethane	5.284	101	2520	0.2409488	ppbv	98
16) PENTANE	5.320	43	6961	0.7250921	ppbv	99
17) Ethanol	5.399	45	22874	9.6764612	ppbv	96
18) ACROLEIN	5.710	56	457	0.2082616	ppbv	90
19) 1,1,2-Trichlorotrifluo...	5.691	101	1423	0.1257619	ppbv	94
21) Acetone	5.819	43	15202	1.8813249	ppbv	99
23) 2-Propanol	5.843	45	18466	2.0696147	ppbv	90
26) METHYL ACETATE	6.099	43	1265	0.1409083	ppbv #	54
27) ACETONITRILE	6.105	41	783	0.1568060	ppbv #	69
28) Methylene Chloride	6.202	49	5685	1.0205707	ppbv	94
29) TERT-BUTYL ALCOHOL	6.178	59	1626	0.1731030	ppbv #	1
33) n-Hexane	6.525	57	2494	0.3323081	ppbv #	82
38) ETHYL ACETATE	7.194	45	97	0.0578443	ppbv #	78
39) 2-Butanone (MEK)	7.243	72	451	0.1825427	ppbv #	82
48) Benzene	8.027	78	2230	0.1492611	ppbv	98
49) TERT-AMYL METHYL ETHER	8.307	73	2473	0.1681829	ppbv #	42
52) Trichloroethene	8.581	95	6405	0.8768481	ppbv	91
61) n-OCTANE	9.713	43	674	0.0522709	ppbv #	77
62) Toluene	9.822	91	8371	0.4372059	ppbv	100
70) NONANE	11.349	43	1203	0.0881418	ppbv #	77
72) Ethylbenzene	11.410	91	3943	0.1767369	ppbv	97
73) M&P-Xylene	11.525	91	9206	0.5265327	ppbv	98
74) O-Xylene	12.000	91	5078	0.2753595	ppbv	99
80) n-DECANE	12.803	43	1065	0.0911806	ppbv	98
83) 4-Ethyltoluene	12.876	105	2312	0.0997818	ppbv	100
86) 1,3,5-Trimethylbenzene	12.955	105	1423	0.0745395	ppbv	89
88) 1,2,4-Trimethylbenzene	13.314	105	2183	0.1171326	ppbv	90
93) 1,2,3-TRIMETHYLBENZENE	13.697	105	1210	0.0667459	ppbv	96
101) TPH (GC/MS) Low Fraction	10.000	TIC	381475m	11.0155622	ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	545910m	18.6789131	ppbv	

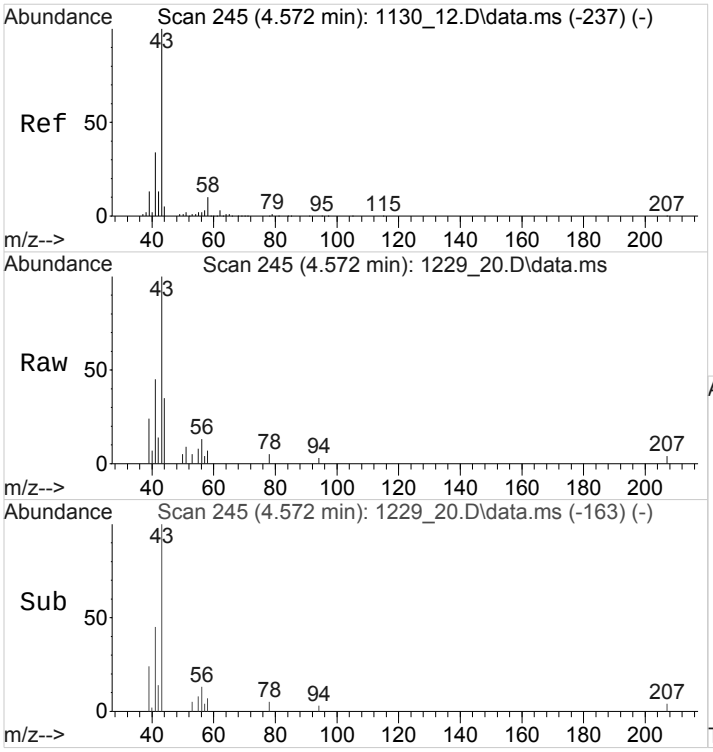
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_20.D
Acq On : 30 Dec 2022 12:30 am
Operator :
Sample : L1570581-07 1x WG1980894
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 31 07:38:26 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

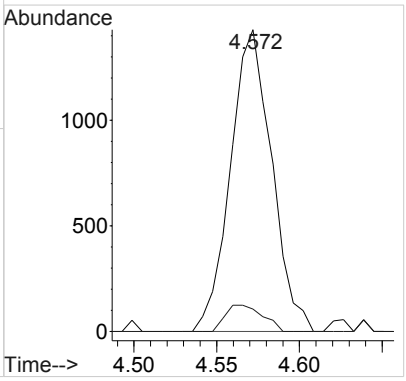


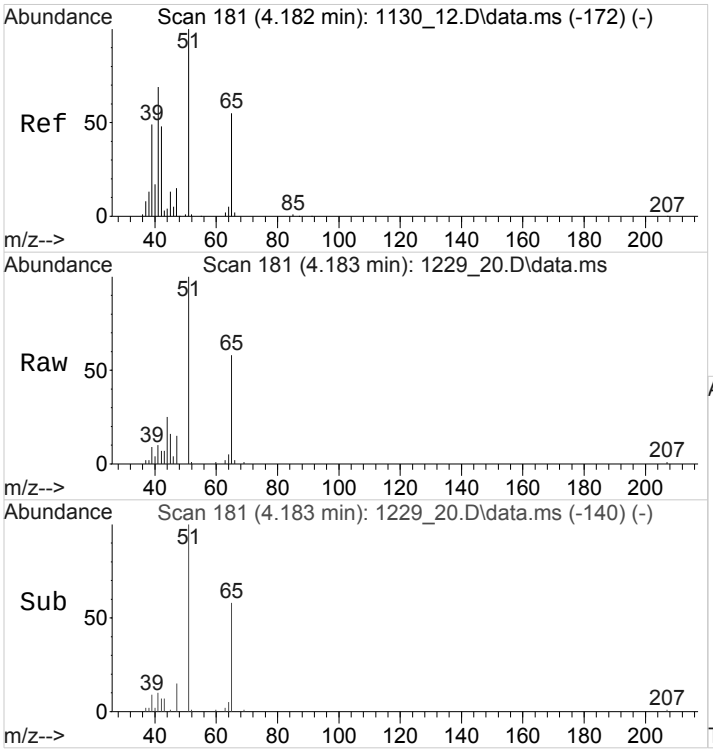


#3
BUTANE
Concen: 0.3671724 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 43 Resp: 2481

Ion	Ratio	Lower	Upper
43	100		
58	7.9	8.0	12.0#

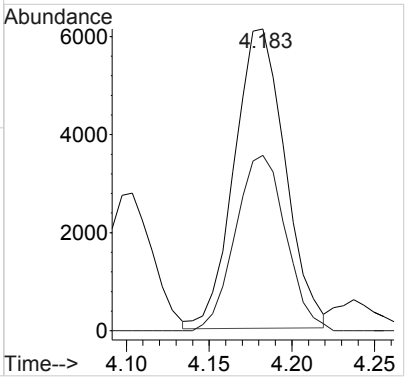


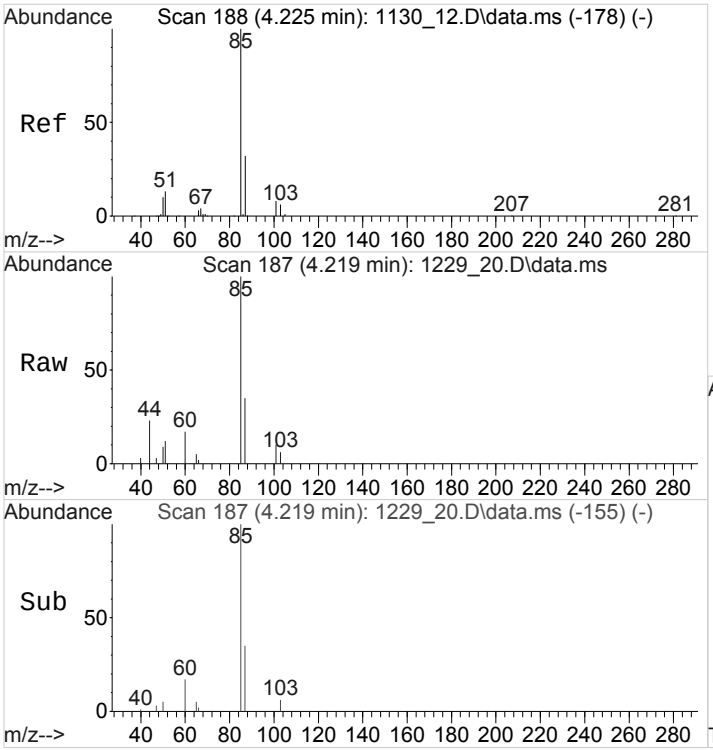


#4
1,1-DIFLUOROETHANE
Concen: 2.2521843 ppbv
RT: 4.183 min Scan# 181
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 51 Resp: 13077

Ion	Ratio	Lower	Upper
51	100		
65	58.0	44.1	66.1

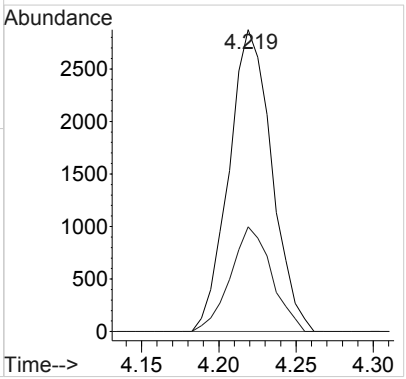


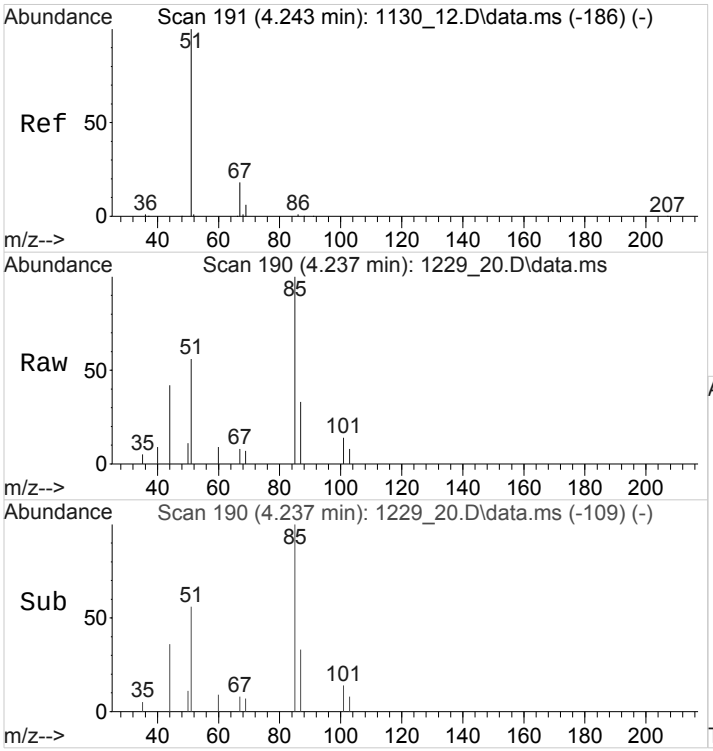


#5
Dichlorodifluoromethane
Concen: 0.4452621 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 85 Resp: 5563

Ion	Ratio	Lower	Upper
85	100		
87	33.3	25.8	38.6

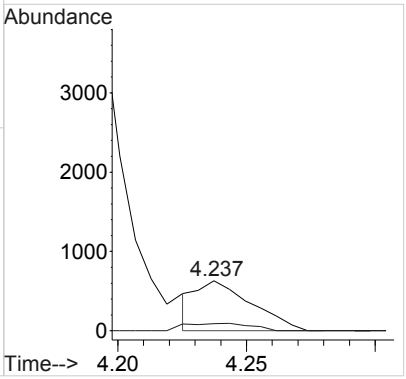




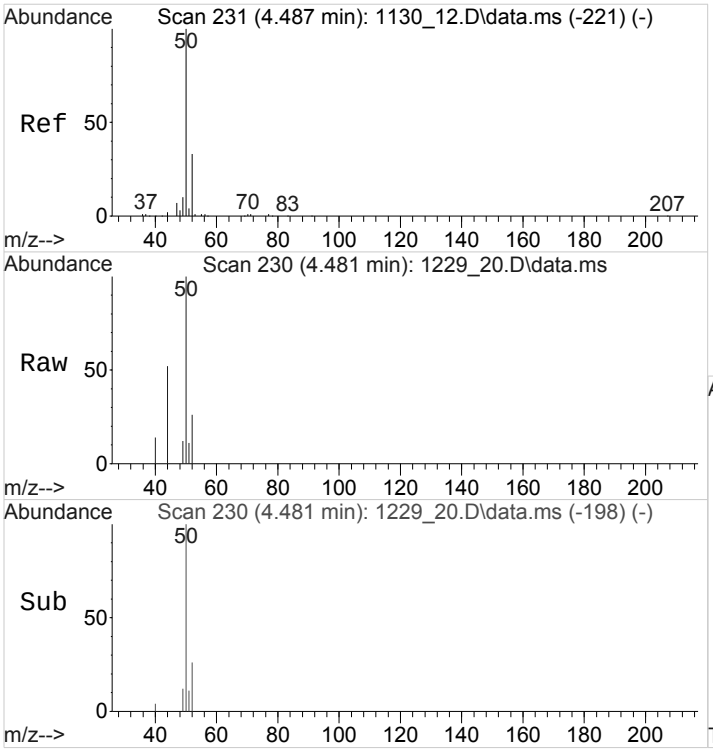
#6
CHLORODIFLUOROMETHANE
Concen: 0.1340517 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 51 Resp: 944

Ion	Ratio	Lower	Upper
51	100		
67	18.0	13.0	19.4



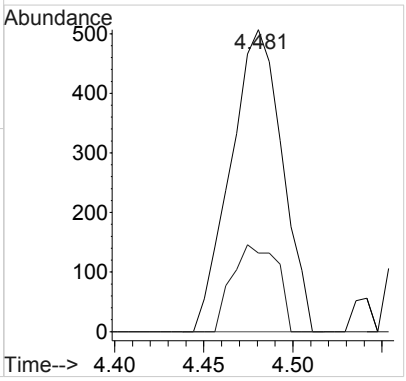
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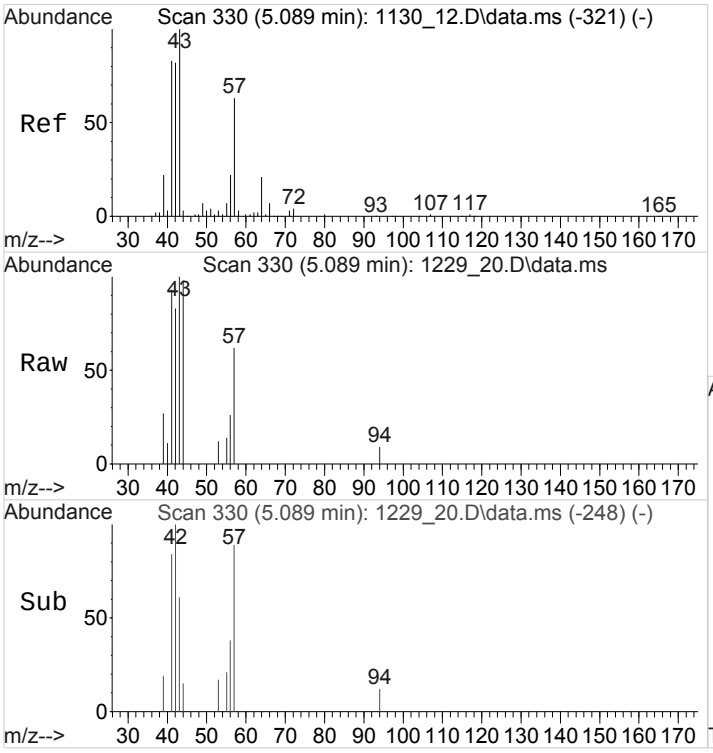


#8
Chloromethane
Concen: 0.2268818 ppbv
RT: 4.481 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 50 Resp: 1019

Ion	Ratio	Lower	Upper
50	100		
52	25.2	27.1	40.7#

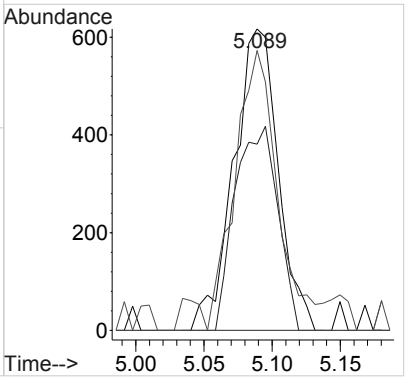




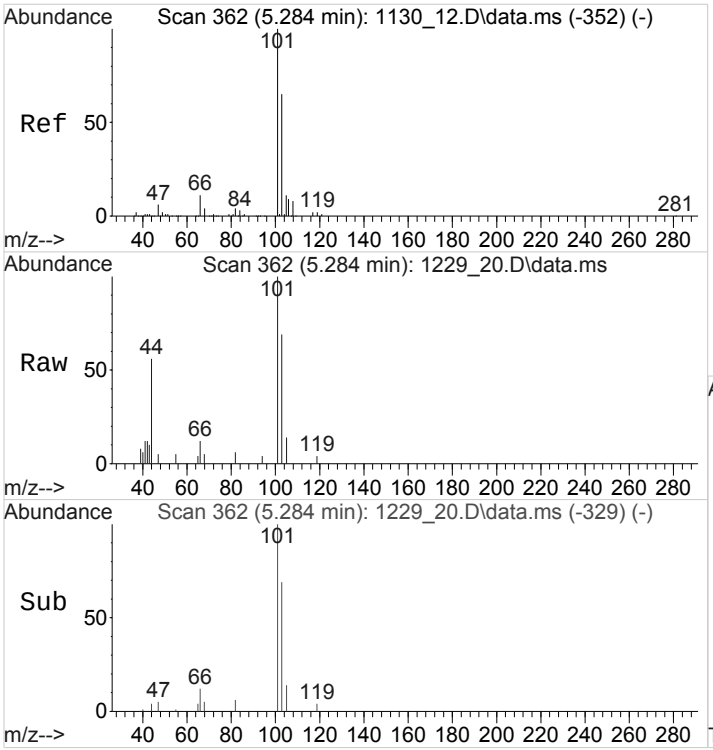
#13
ISOPENTANE
Concen: 0.3001778 ppbv
RT: 5.089 min Scan# 330
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 43 Resp: 1401

Ion	Ratio	Lower	Upper
43	100		
57	65.0	51.7	77.5
41	88.4	66.4	99.6
72	0.0	3.2	4.8#



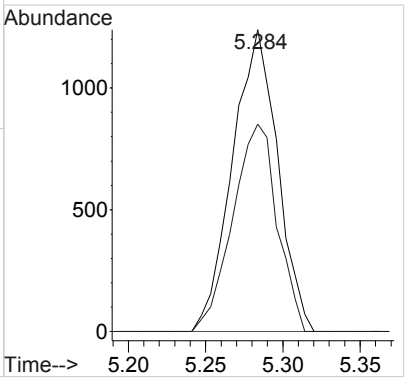
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	174 of 500

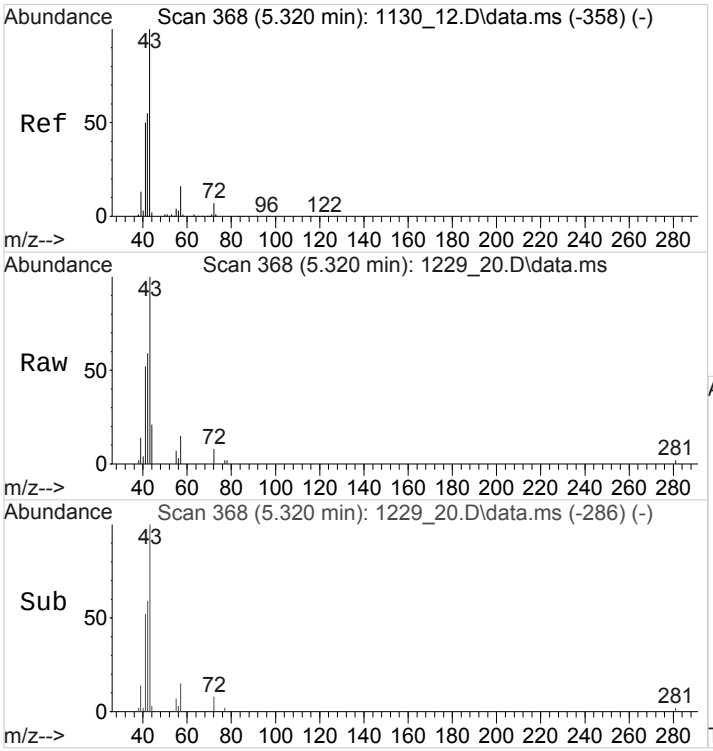


#15
Trichlorofluoromethane
Concen: 0.2409488 ppbv
RT: 5.284 min Scan# 362
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion:101 Resp: 2520

Ion	Ratio	Lower	Upper
101	100		
103	67.7	52.8	79.2

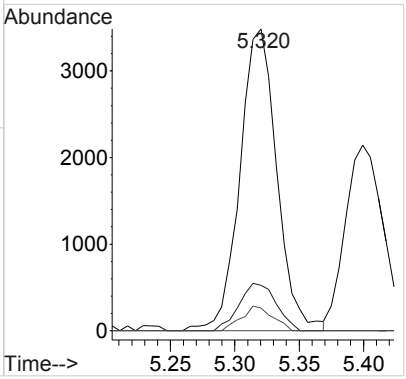


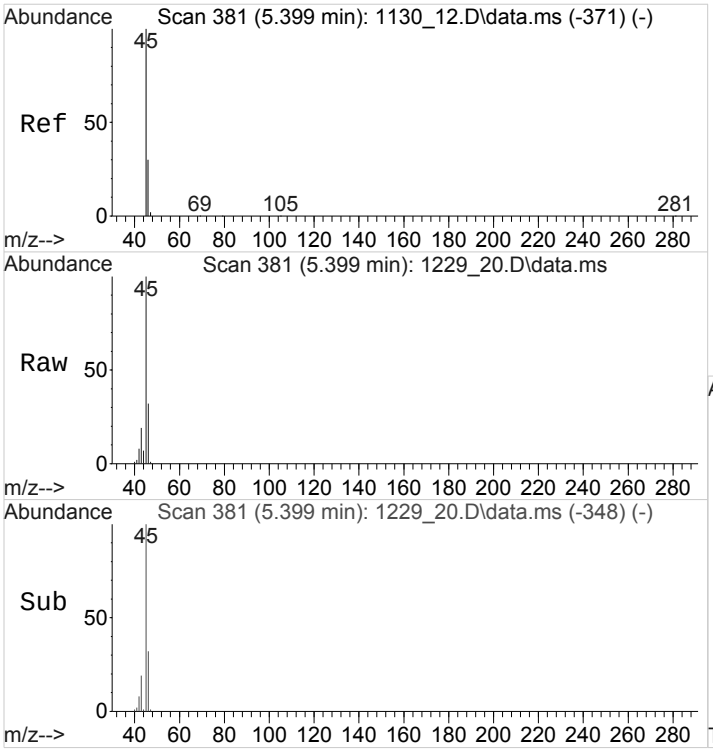


#16
PENTANE
Concen: 0.7250921 ppbv
RT: 5.320 min Scan# 368
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 43 Resp: 6961

Ion	Ratio	Lower	Upper
43	100		
57	15.7	13.0	19.4
72	6.9	5.8	8.8

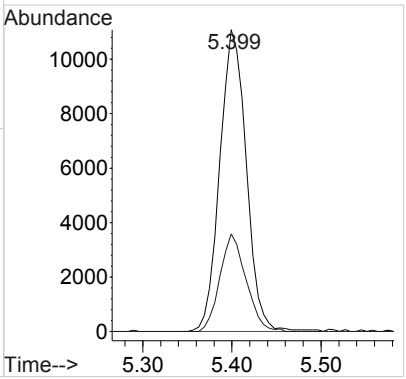


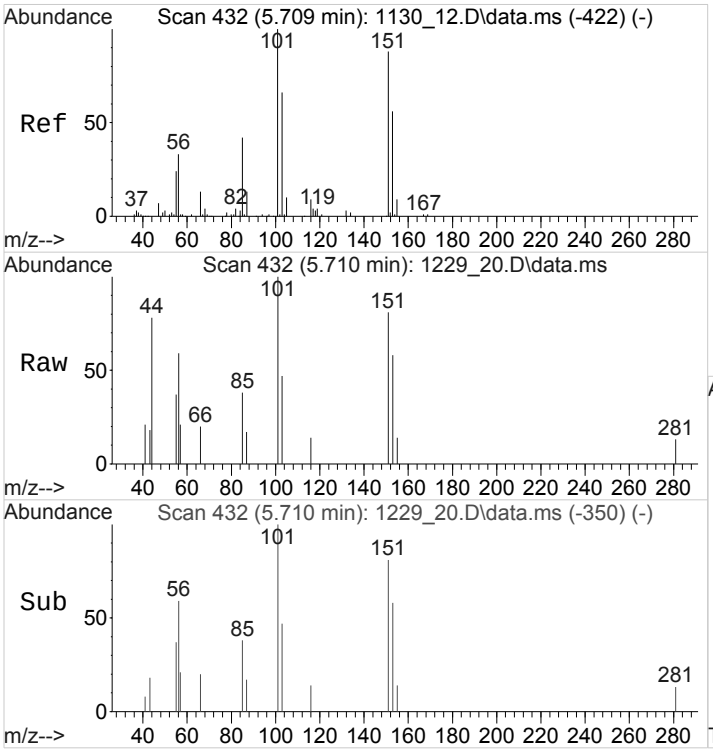


#17
Ethanol
Concen: 9.6764612 ppbv
RT: 5.399 min Scan# 381
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 45 Resp: 22874

Ion	Ratio	Lower	Upper
45	100		
46	31.8	23.6	35.4

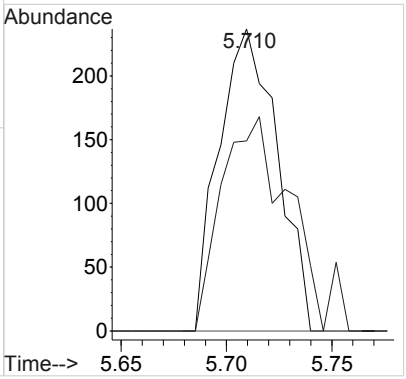




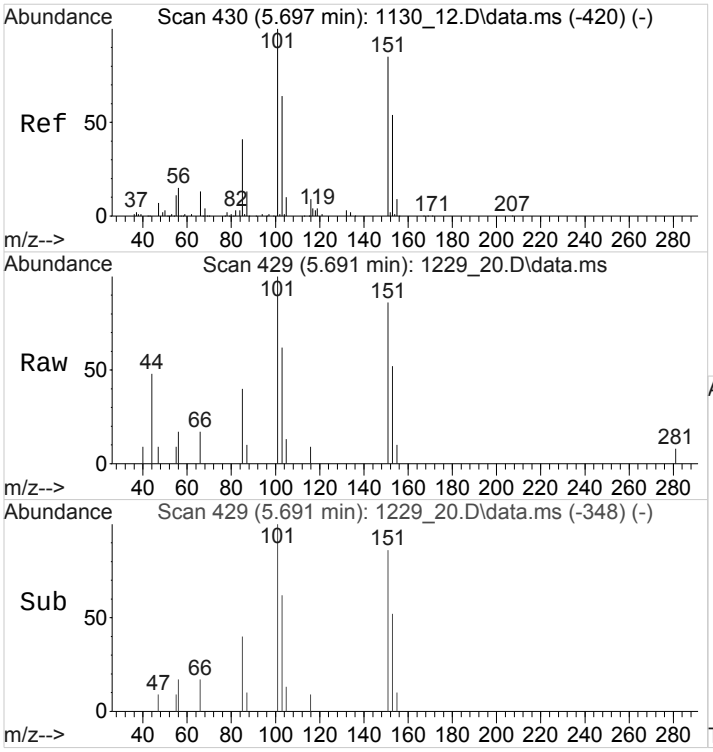
#18
ACROLEIN
Concen: 0.2082616 ppbv
RT: 5.710 min Scan# 432
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 56 Resp: 457

Ion	Ratio	Lower	Upper
56	100		
55	84.5	60.4	90.6



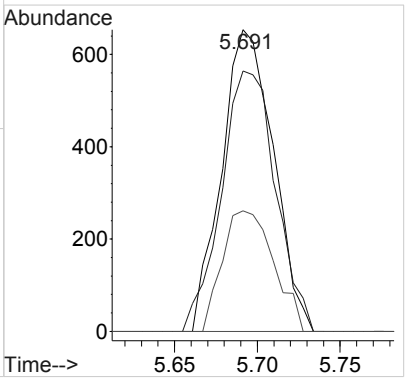
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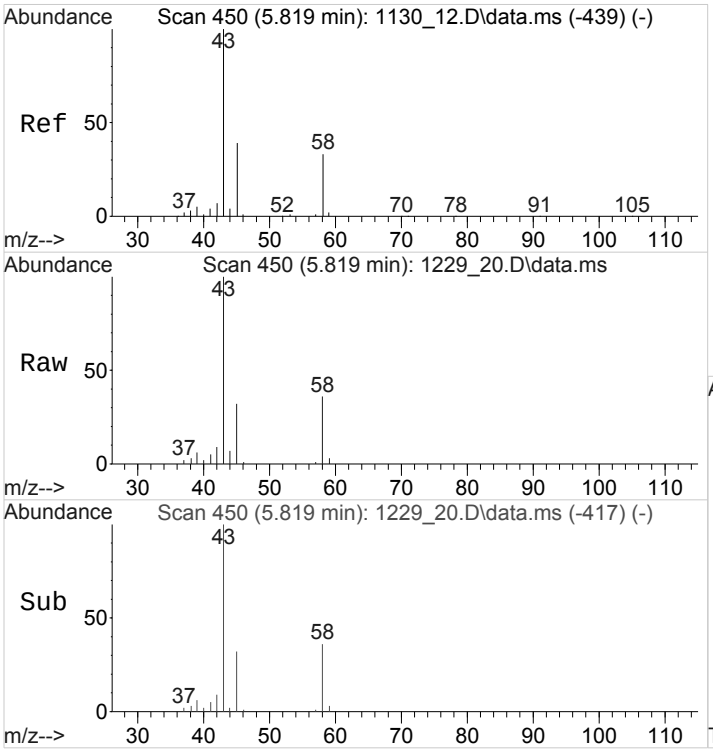


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.1257619 ppbv
RT: 5.691 min Scan# 429
Delta R.T. -0.006 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion:101 Resp: 1423

Ion	Ratio	Lower	Upper
101	100		
151	90.6	67.4	101.2
85	39.6	34.4	51.6

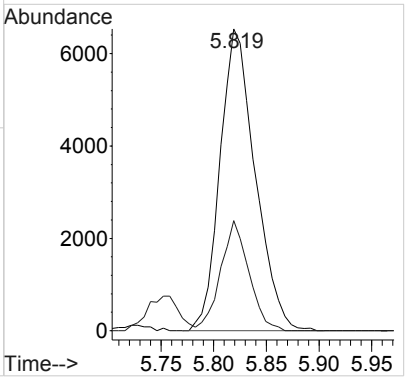


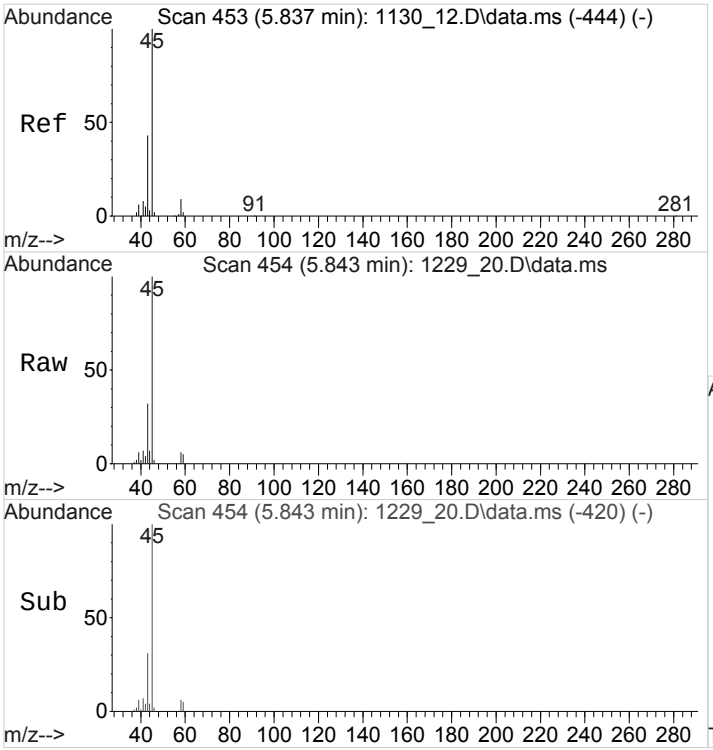


#21
Acetone
Concen: 1.8813249 ppbv
RT: 5.819 min Scan# 450
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 43 Resp: 15202

Ion	Ratio	Lower	Upper
43	100		
58	29.2	23.1	34.7

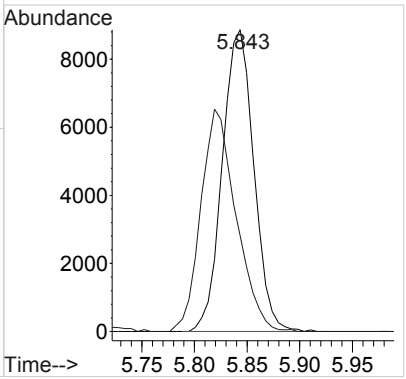


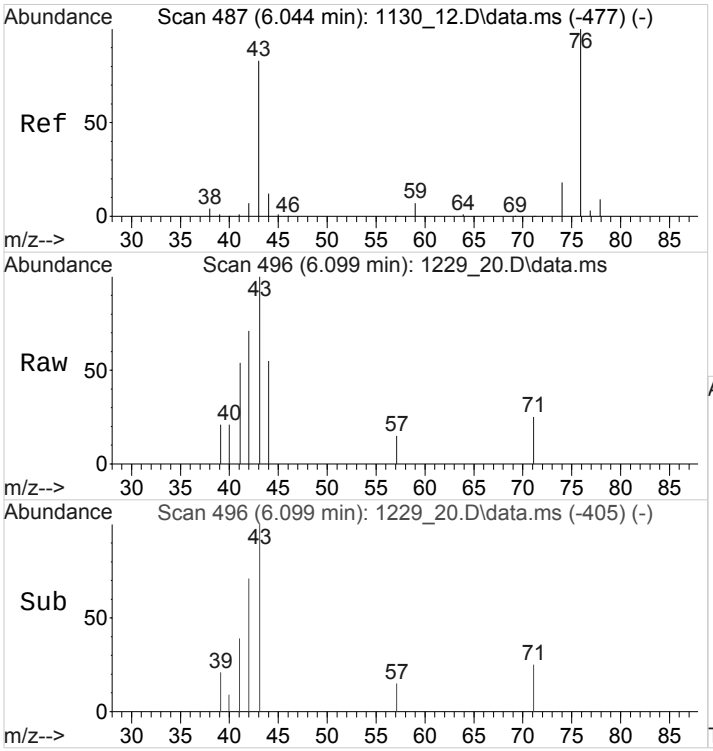


#23
2-Propanol
Concen: 2.0696147 ppbv
RT: 5.843 min Scan# 454
Delta R.T. 0.006 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 45 Resp: 18466

Ion	Ratio	Lower	Upper
45	100		
43	82.3	73.5	110.3

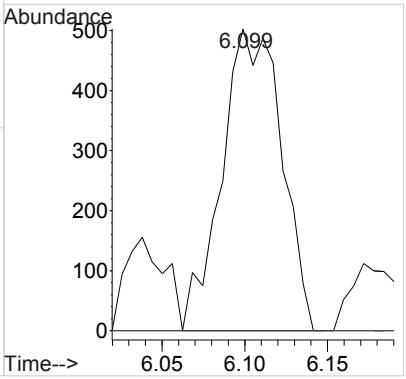




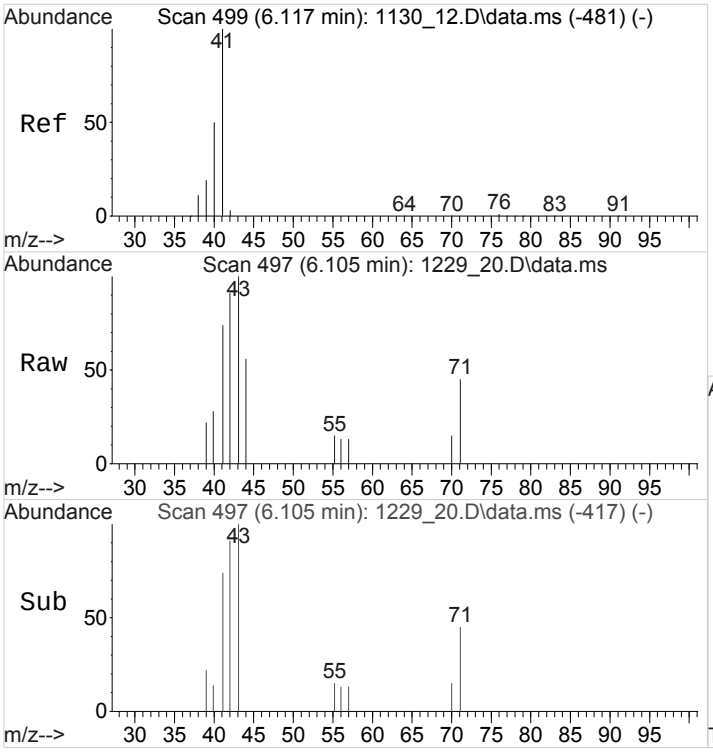
#26
METHYL ACETATE
Concen: 0.1409083 ppbv
RT: 6.099 min Scan# 496
Delta R.T. 0.055 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 43 Resp: 1265

Ion	Ratio	Lower	Upper
43	100		
74	0.0	17.4	26.0#
29	0.0	0.0	0.0



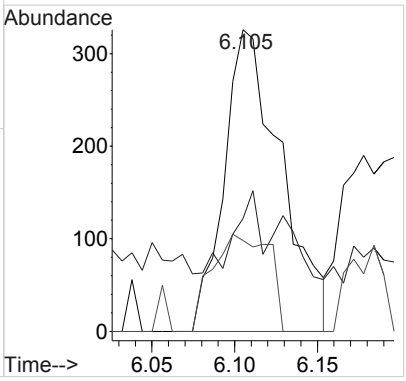
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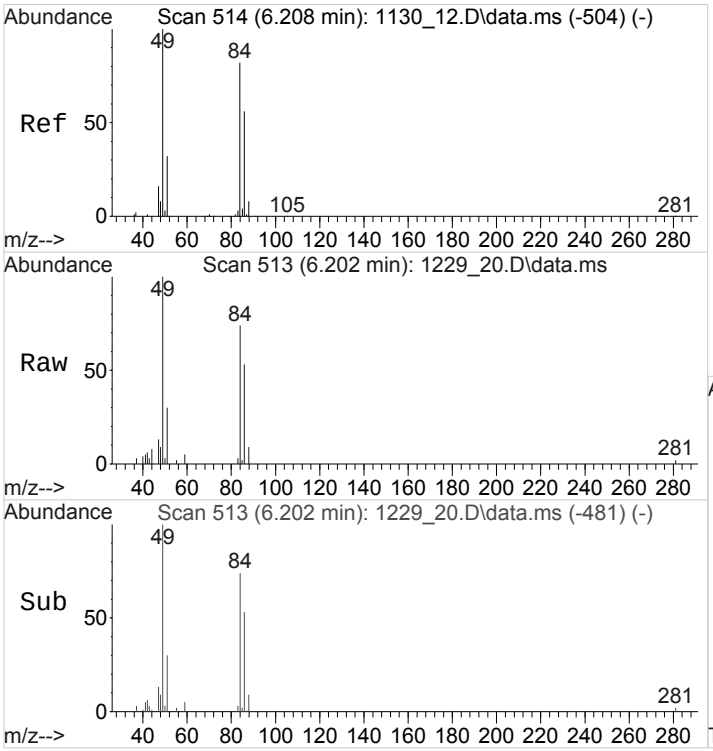


#27
ACETONITRILE
Concen: 0.1568060 ppbv
RT: 6.105 min Scan# 497
Delta R.T. -0.012 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 41 Resp: 783

Ion	Ratio	Lower	Upper
41	100		
40	11.1	32.7	49.1#
39	32.3	22.7	34.1

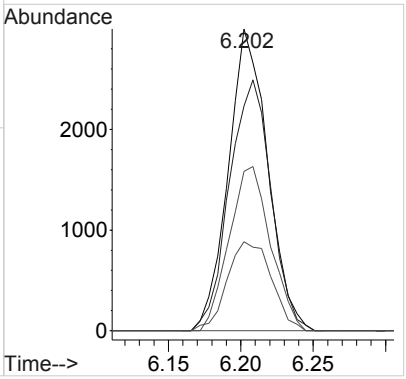




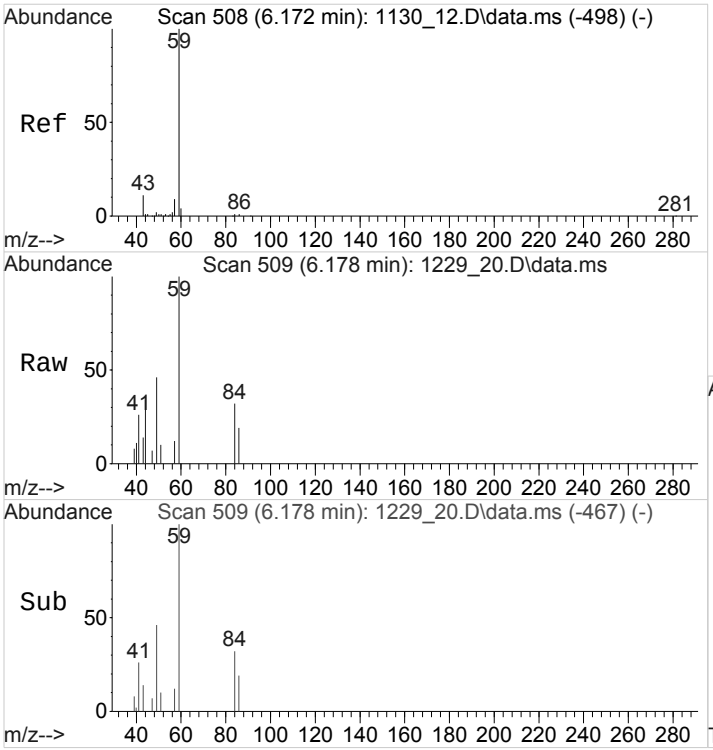
#28
Methylene Chloride
Concen: 1.0205707 ppbv
RT: 6.202 min Scan# 513
Delta R.T. -0.006 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 49 Resp: 5685

Ion	Ratio	Lower	Upper
49	100		
84	87.5	65.0	97.6
86	57.0	41.8	62.6
51	33.1	26.3	39.5



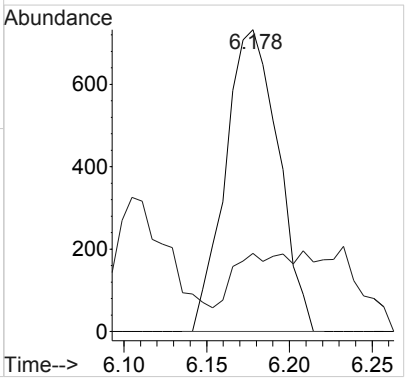
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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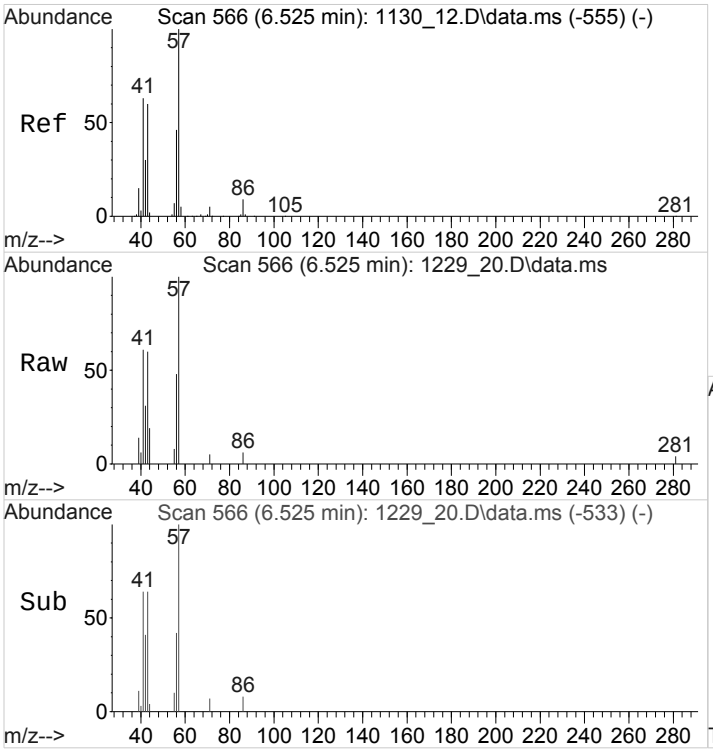


#29
TERT-BUTYL ALCOHOL
Concen: 0.1731030 ppbv
RT: 6.178 min Scan# 509
Delta R.T. 0.006 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 59 Resp: 1626

Ion	Ratio	Lower	Upper
59	100		
41	10.6	216.4	324.6#

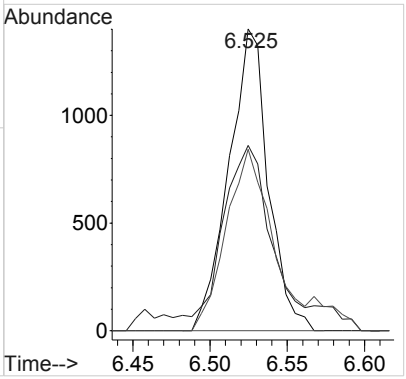




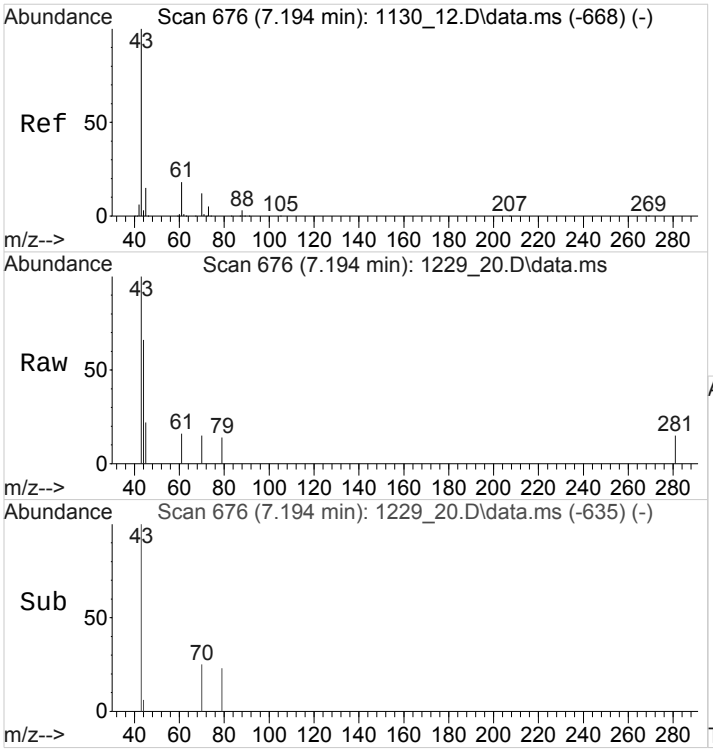
#33
n-Hexane
Concen: 0.3323081 ppbv
RT: 6.525 min Scan# 566
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 57 Resp: 2494

Ion	Ratio	Lower	Upper
57	100		
41	82.6	50.9	76.3#
43	69.4	48.4	72.6



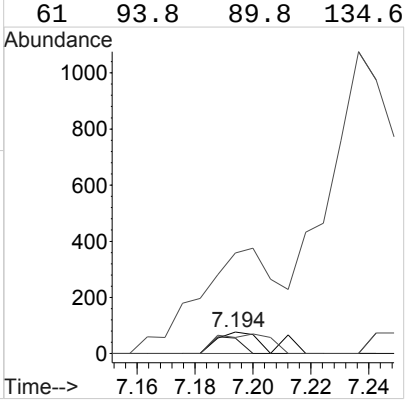
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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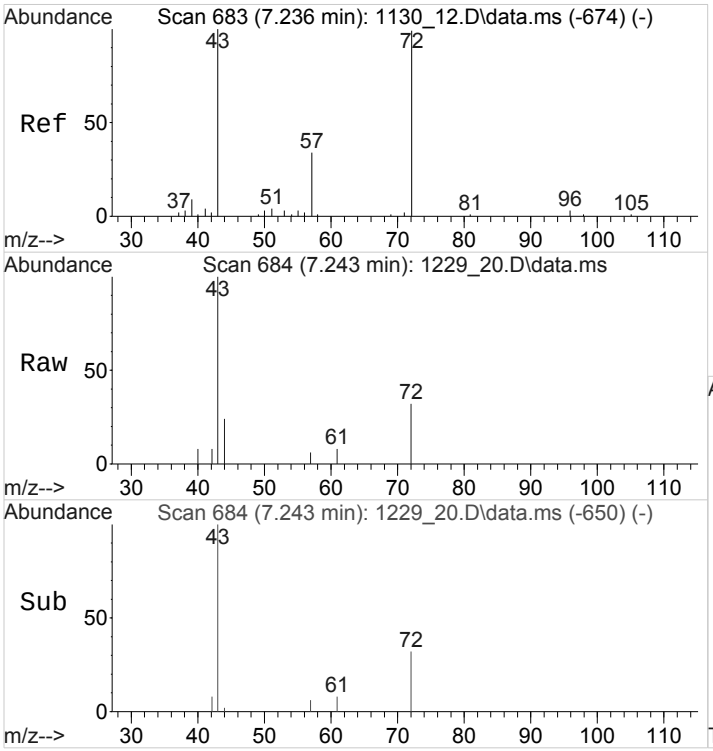


#38
ETHYL ACETATE
Concen: 0.0578443 ppbv
RT: 7.194 min Scan# 676
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 45 Resp: 97

Ion	Ratio	Lower	Upper
45	100		
70	43.3	60.5	90.7#
43	752.6	543.4	815.0
61	93.8	89.8	134.6

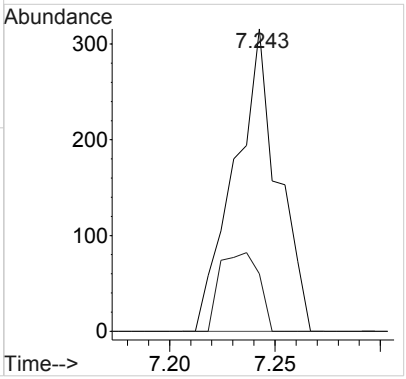




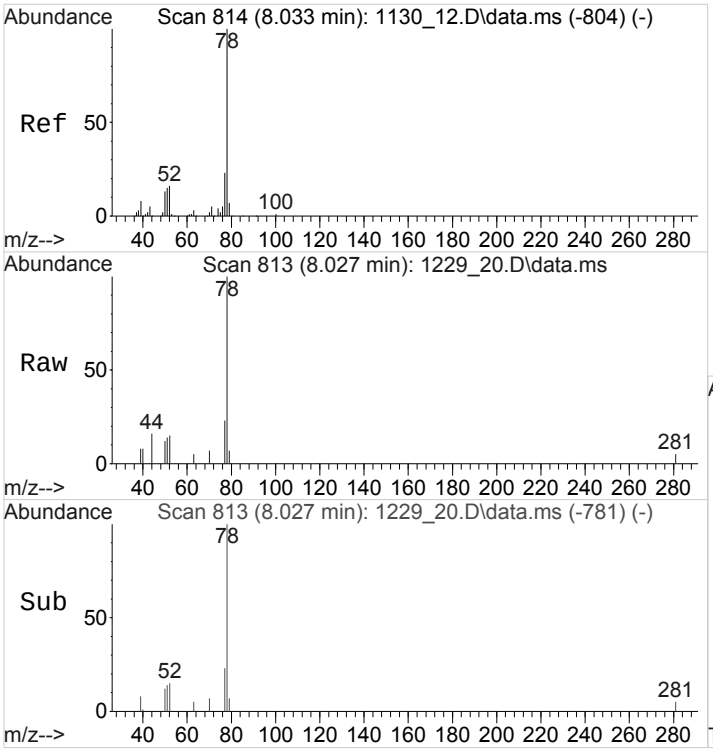
#39
2-Butanone (MEK)
Concen: 0.1825427 ppbv
RT: 7.243 min Scan# 684
Delta R.T. 0.006 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 72 Resp: 451

Ion	Ratio	Lower	Upper
72	100		
57	23.7	27.3	40.9#



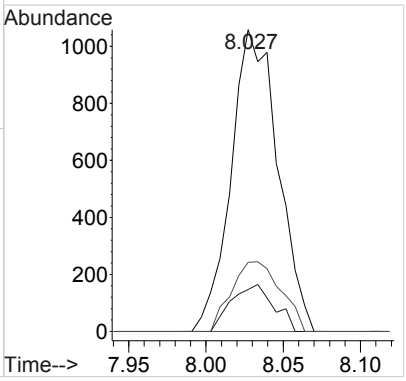
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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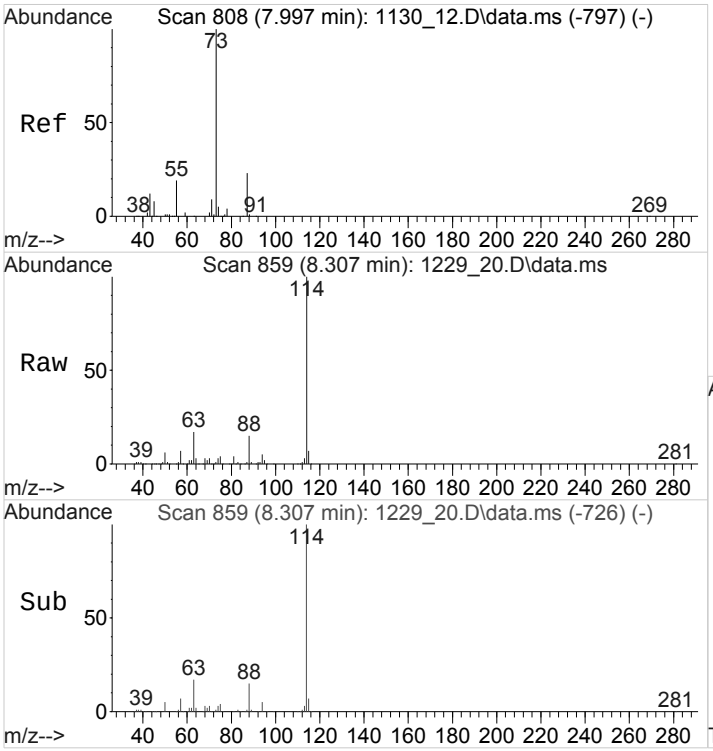


#48
Benzene
Concen: 0.1492611 ppbv
RT: 8.027 min Scan# 813
Delta R.T. -0.006 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 78 Resp: 2230

Ion	Ratio	Lower	Upper
78	100		
51	14.2	12.1	18.1
77	24.3	18.8	28.2

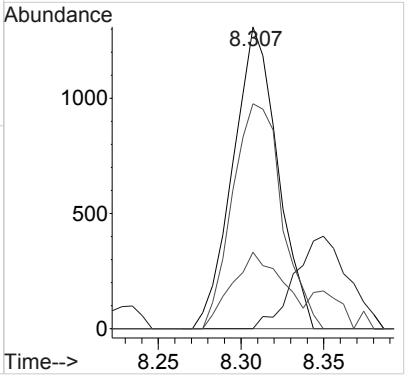




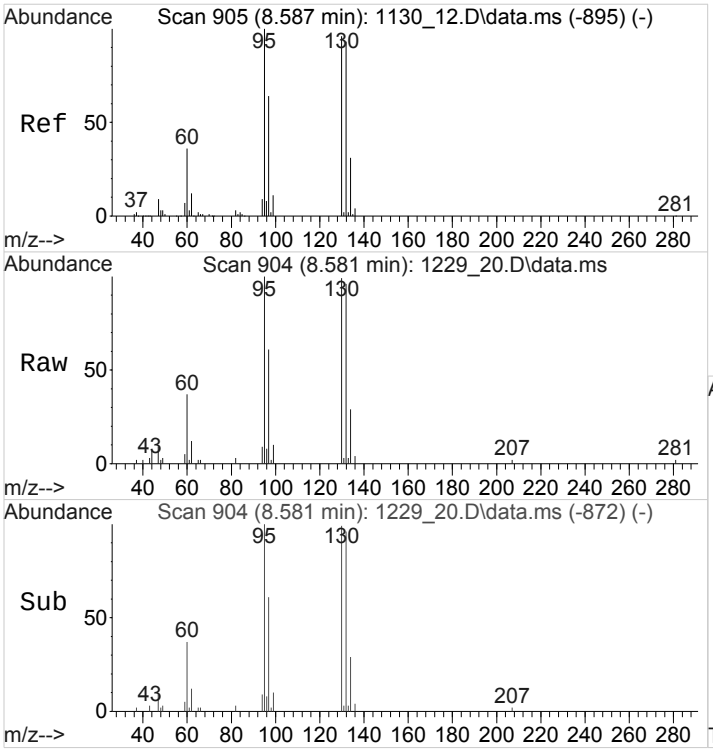
#49
TERT-AMYL METHYL ETHER
Concen: 0.1681829 ppbv
RT: 8.307 min Scan# 859
Delta R.T. 0.310 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 73 Resp: 2473

Ion	Ratio	Lower	Upper
73	100		
43	5.9	24.9	37.3#
55	29.0	18.8	28.2#
87	82.3	18.6	28.0#



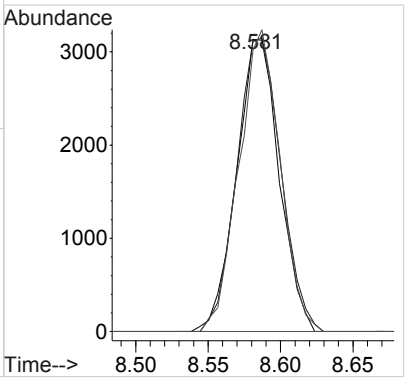
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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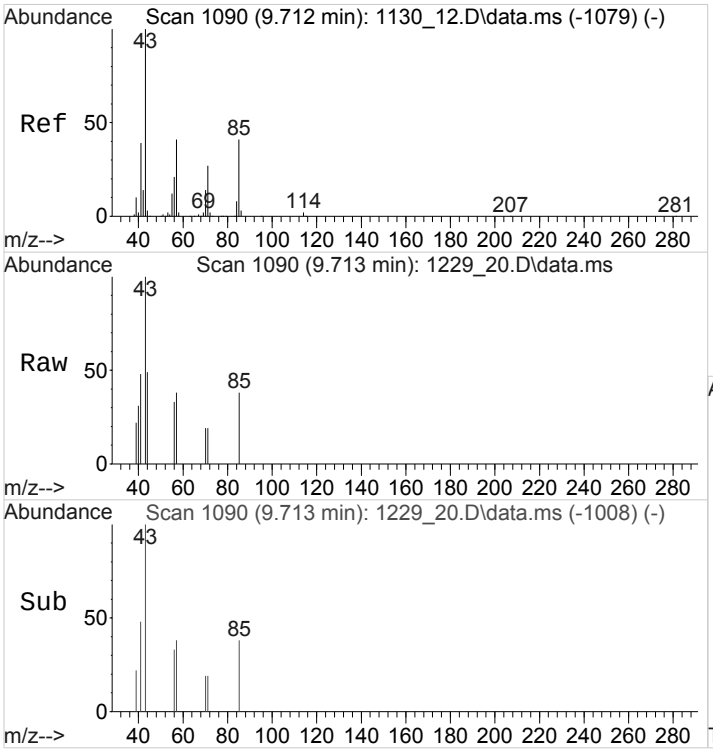


#52
Trichloroethene
Concen: 0.8768481 ppbv
RT: 8.581 min Scan# 904
Delta R.T. -0.006 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 95 Resp: 6405

Ion	Ratio	Lower	Upper
95	100		
130	104.0	76.9	115.3
132	100.2	73.3	109.9

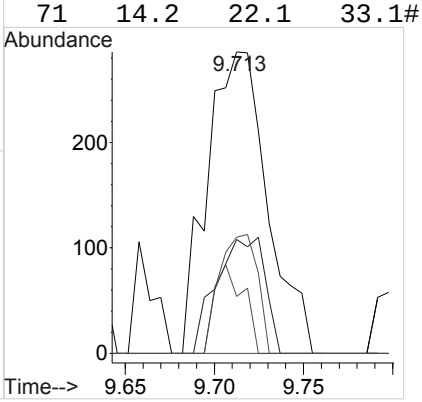




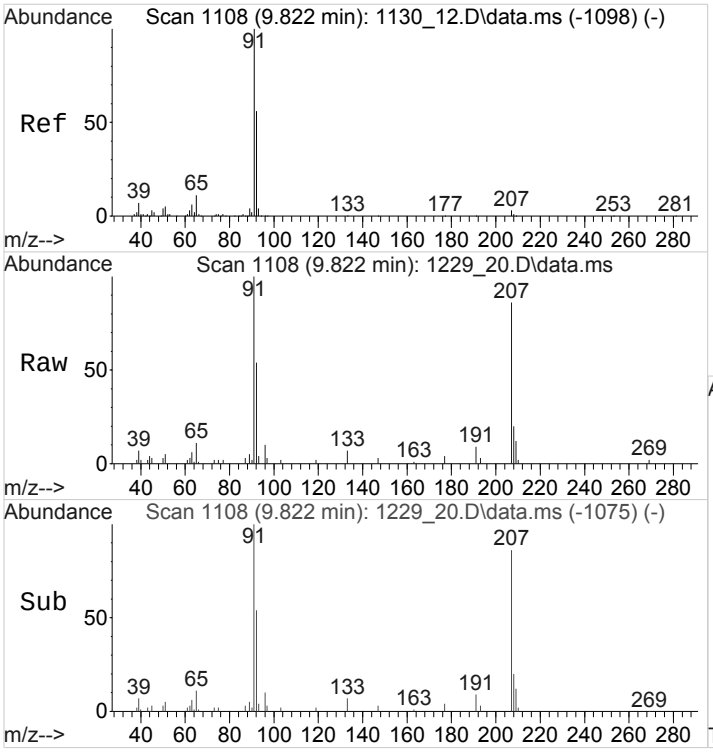
#61
n-OCTANE
Concen: 0.0522709 ppbv
RT: 9.713 min Scan# 1090
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 43 Resp: 674

Ion	Ratio	Lower	Upper
43	100		
57	30.7	33.1	49.7#
85	24.6	33.1	49.7#
71	14.2	22.1	33.1#



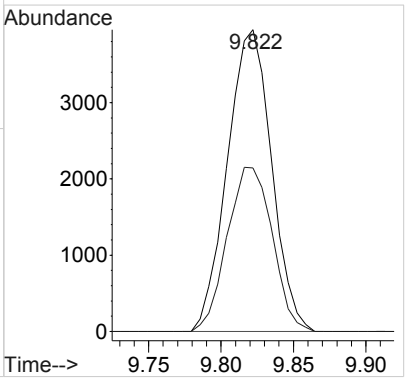
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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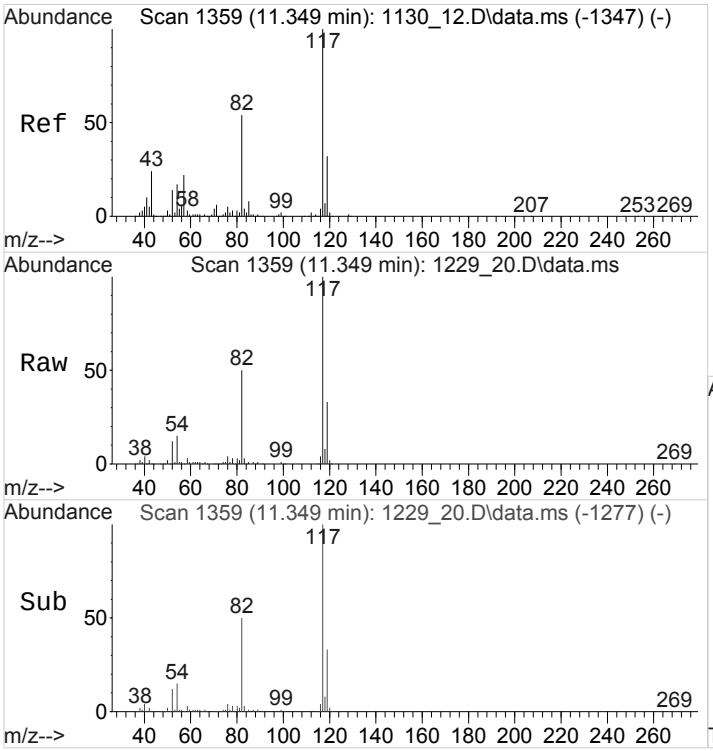


#62
Toluene
Concen: 0.4372059 ppbv
RT: 9.822 min Scan# 1108
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 91 Resp: 8371

Ion	Ratio	Lower	Upper
91	100		
92	55.4	44.1	66.1

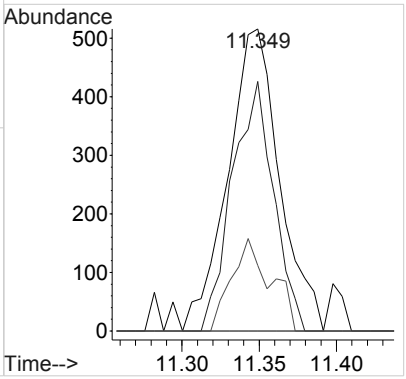




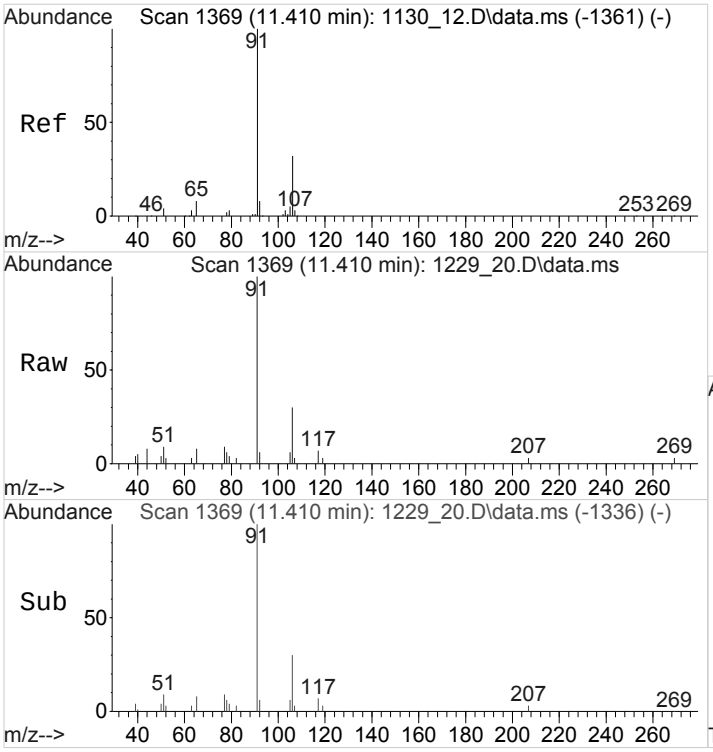
#70
NONANE
Concen: 0.0881418 ppbv
RT: 11.349 min Scan# 1359
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 43 Resp: 1203

Ion	Ratio	Lower	Upper
43	100		
57	66.1	74.6	112.0#
71	23.2	20.0	30.0
128	0.0	1.9	2.9#



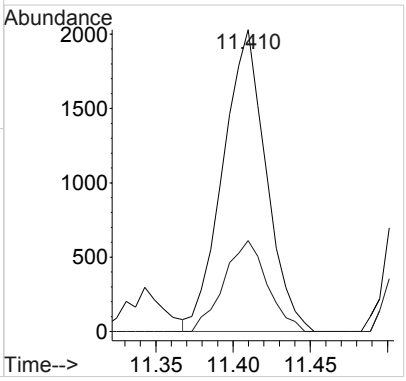
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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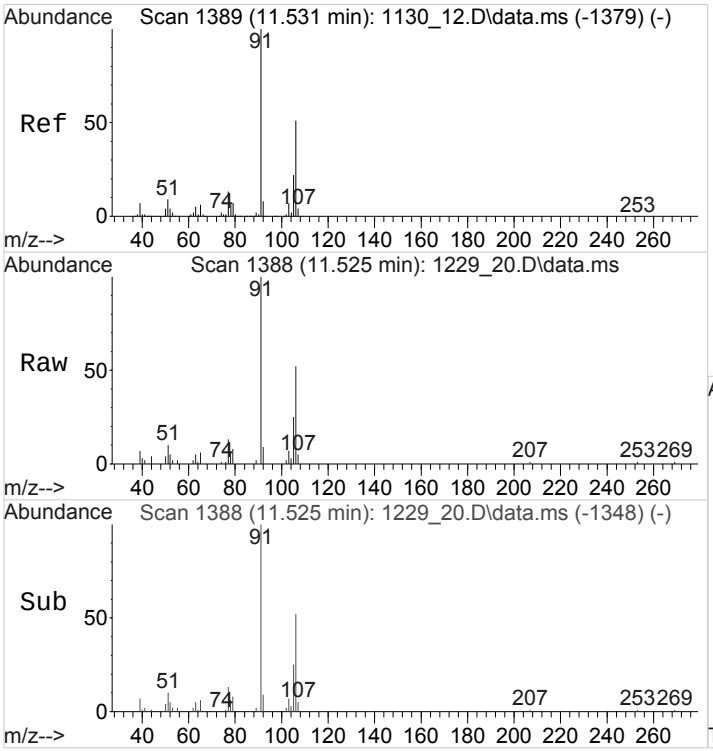


#72
Ethylbenzene
Concen: 0.1767369 ppbv
RT: 11.410 min Scan# 1369
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 91 Resp: 3943

Ion	Ratio	Lower	Upper
91	100		
106	30.3	25.6	38.4

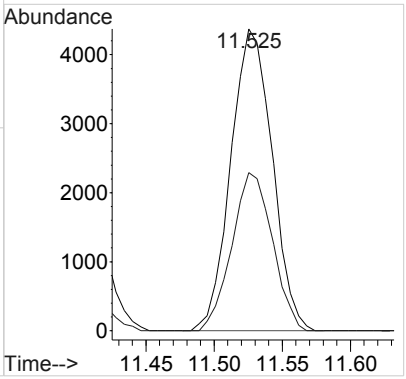




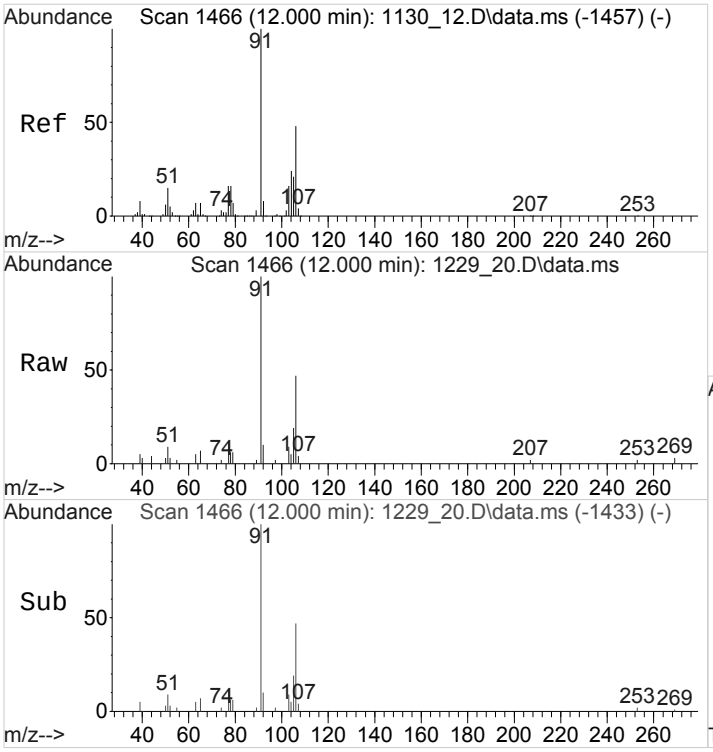
#73
M&P-Xylene
Concen: 0.5265327 ppbv
RT: 11.525 min Scan# 1388
Delta R.T. -0.006 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 91 Resp: 9206

Ion	Ratio	Lower	Upper
91	100		
106	51.3	39.7	59.5



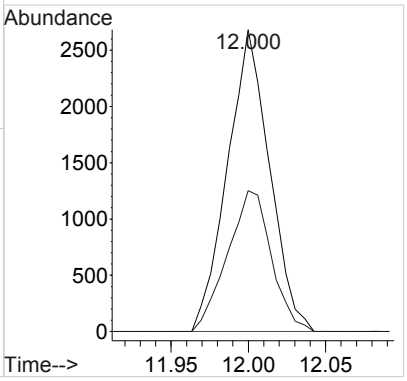
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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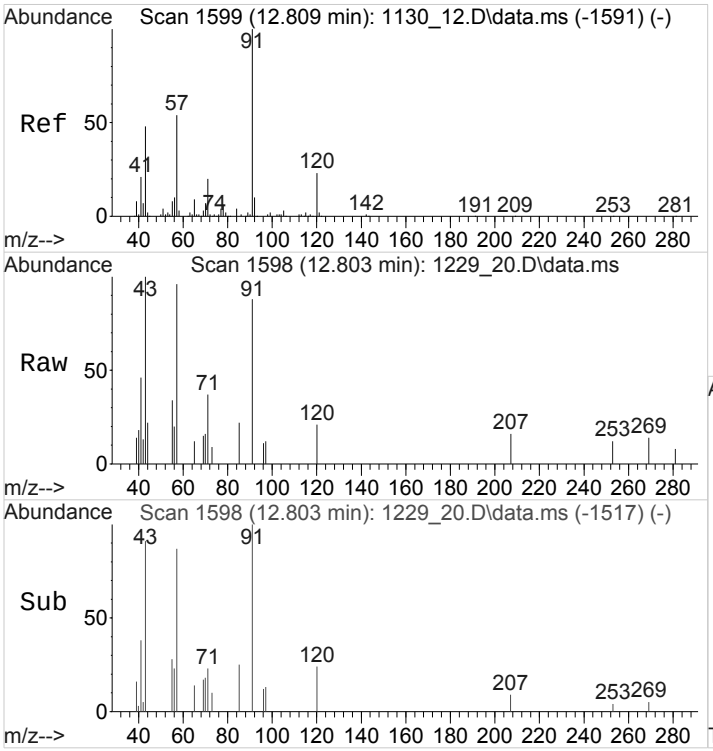


#74
O-Xylene
Concen: 0.2753595 ppbv
RT: 12.000 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 91 Resp: 5078

Ion	Ratio	Lower	Upper
91	100		
106	48.7	38.4	57.6

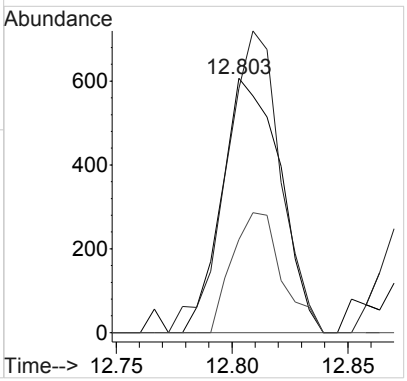




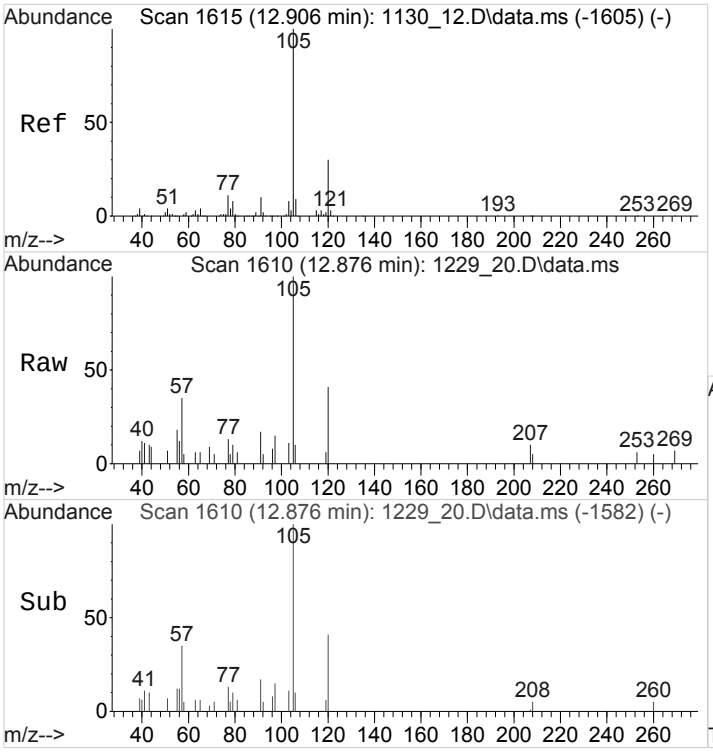
#80
n-DECANE
Concen: 0.0911806 ppbv
RT: 12.803 min Scan# 1598
Delta R.T. -0.006 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion: 43 Resp: 1065

Ion	Ratio	Lower	Upper
43	100		
57	110.7	89.7	134.5
71	40.3	34.1	51.1



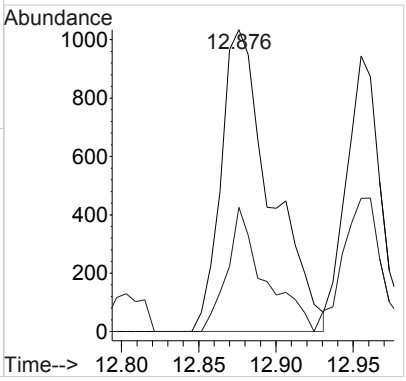
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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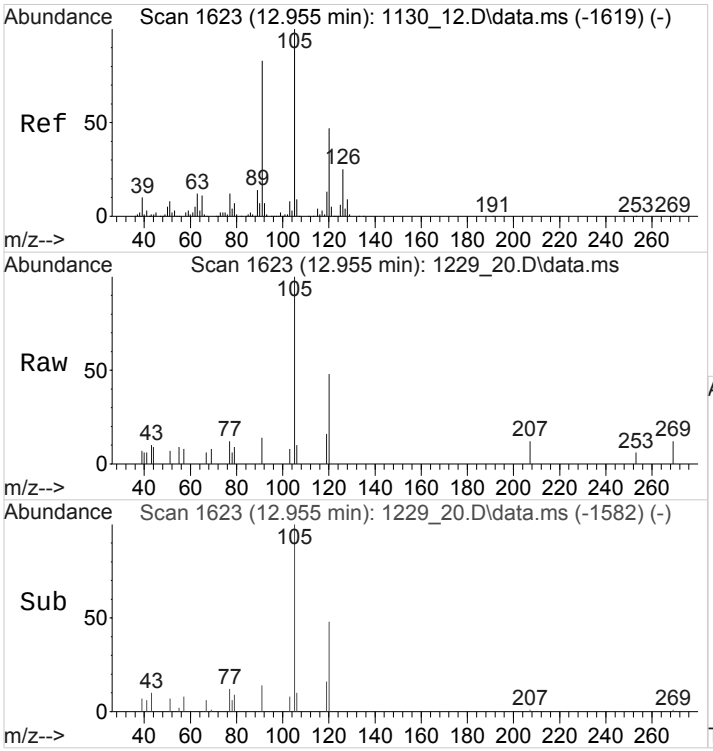


#83
4-Ethyltoluene
Concen: 0.0997818 ppbv
RT: 12.876 min Scan# 1610
Delta R.T. -0.030 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion:105 Resp: 2312

Ion	Ratio	Lower	Upper
105	100		
120	31.0	24.6	36.8

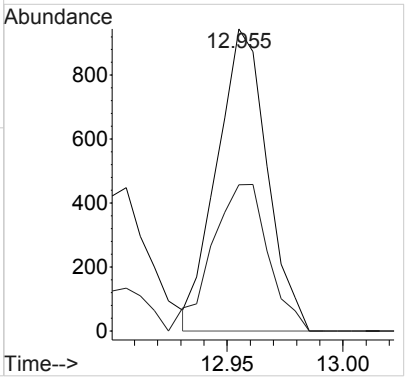




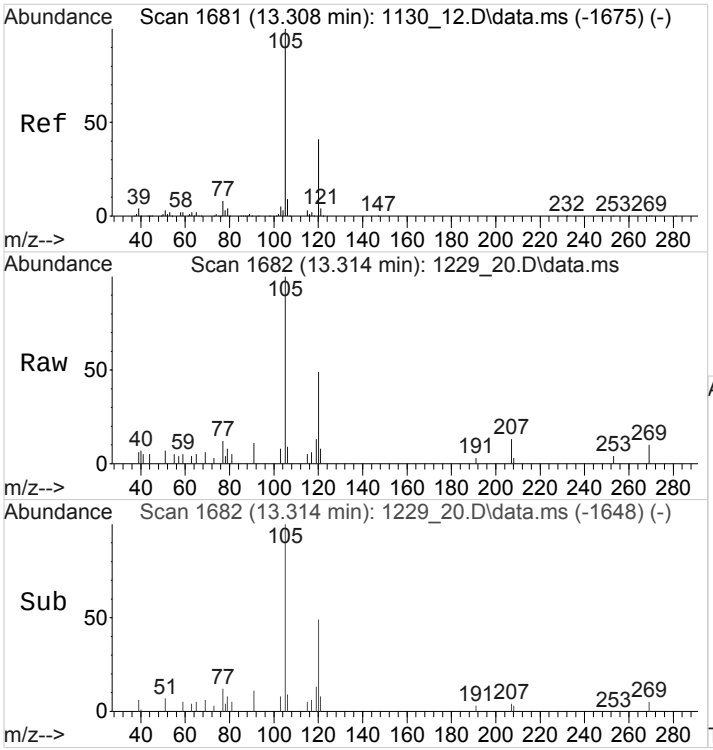
#86
1,3,5-Trimethylbenzene
Concen: 0.0745395 ppbv
RT: 12.955 min Scan# 1623
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion:105 Resp: 1423

Ion	Ratio	Lower	Upper
105	100		
120	54.5	37.7	56.5



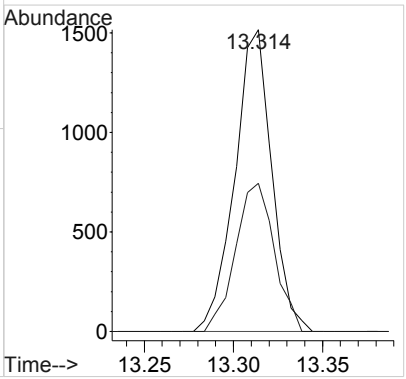
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	187 of 500

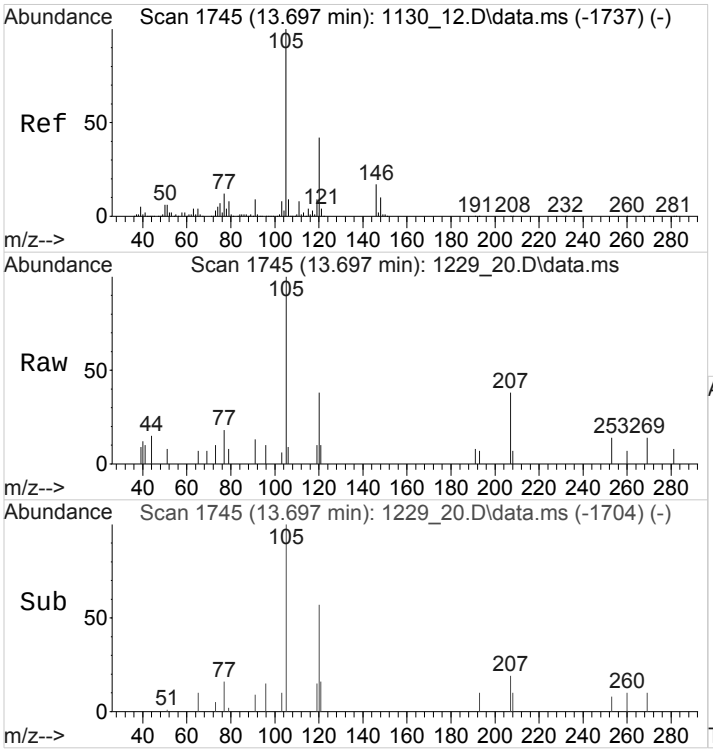


#88
1,2,4-Trimethylbenzene
Concen: 0.1171326 ppbv
RT: 13.314 min Scan# 1682
Delta R.T. 0.006 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion:105 Resp: 2183

Ion	Ratio	Lower	Upper
105	100		
120	51.5	35.9	53.9

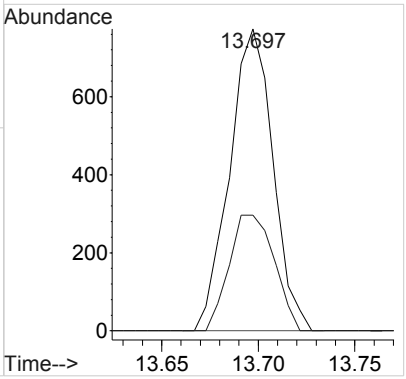




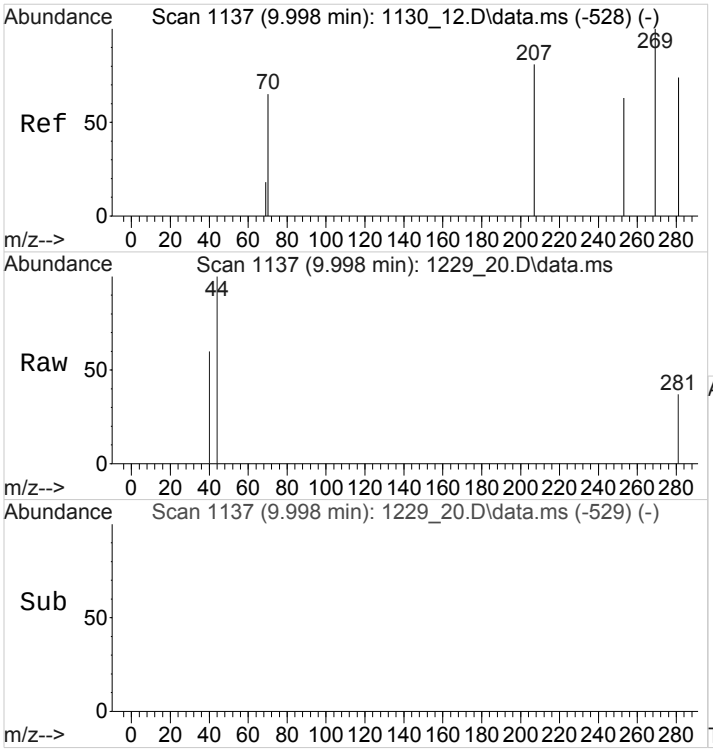
#93
1,2,3-TRIMETHYLBENZENE
Concen: 0.0667459 ppbv
RT: 13.697 min Scan# 1745
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion:105 Resp: 1210

Ion	Ratio	Lower	Upper
105	100		
120	39.8	34.0	51.0

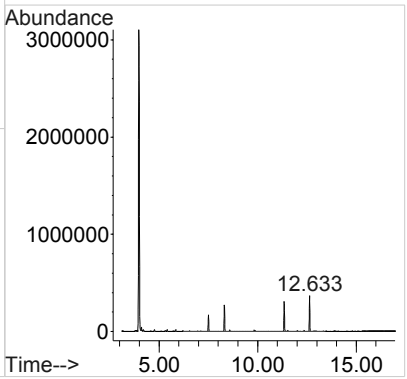


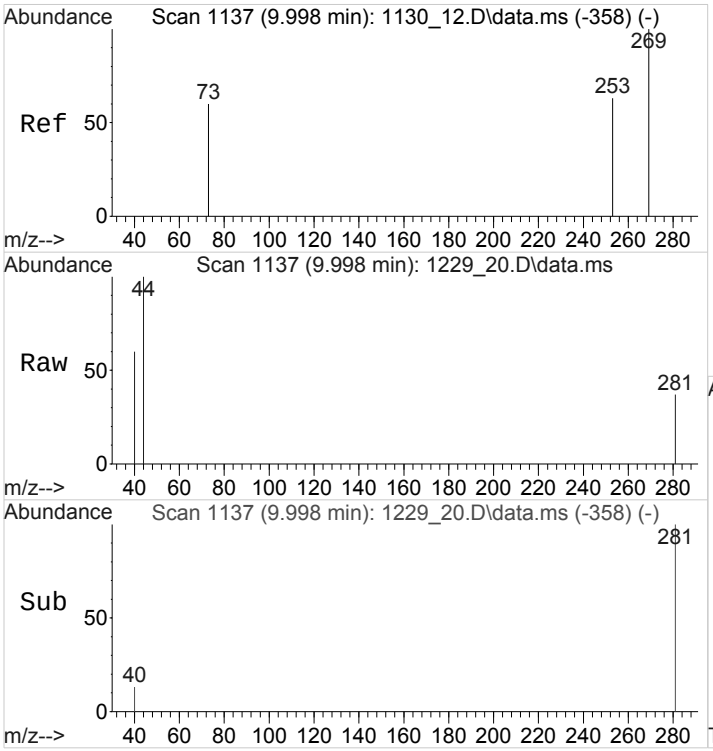
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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#101
TPH (GC/MS) Low Fraction
Concen: 11.0155622 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

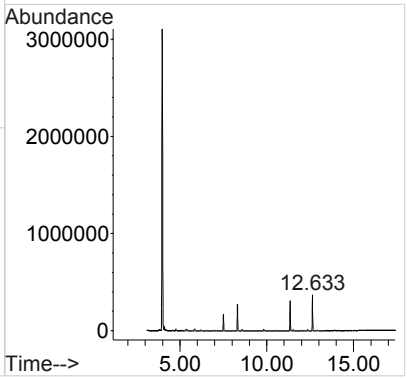
Tgt Ion:TIC Resp: 381475





#102
TPH-GRO (C5-C10)
Concen: 18.6789131 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_20.D
Acq: 30 Dec 2022 12:30 am

Tgt Ion:TIC Resp: 545910



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
786-VMP-3_1222

Lab Sample ID:	L1570581-08	**SDG:**	L1570581
Client Sample ID:	786-VMP-3_1222	**Collected Date/Time:**	12/21/22 16:25
Lab File ID:	1229_21	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/30/22 01:14
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/30/22 01:14
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.83	6.94		1.39	2.85	5.70
Benzene	71-43-2	8.03	0.470	J	0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	6.05	0.417	J	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	0	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	7.51	0.720	J	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	0.446	J	0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	11.40	0.867	U	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	0	0.982	U	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.29	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	2.12	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	1.53	U	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	0	0.694	U	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	1.35	J	0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	10.39	8.28		0.553	1.36	2.72
Toluene	108-88-3	9.82	0.825	J	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570581-08	**SDG:**	L1570581
Client Sample ID:	786-VMP-3_1222	**Collected Date/Time:**	12/21/22 16:25
Lab File ID:	1229_21	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/30/22 01:14
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/30/22 01:14
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	7.70	1.00	J	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.59	84.1		0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	13.31	0.982	U	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	0.850	J	0.585	1.30	2.60
o-Xylene	95-47-6	12	0.759	U	0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_21.D
Acq On : 30 Dec 2022 1:14 am
Operator :
Sample : L1570581-08 1x WG1980894
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 31 07:40:06 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

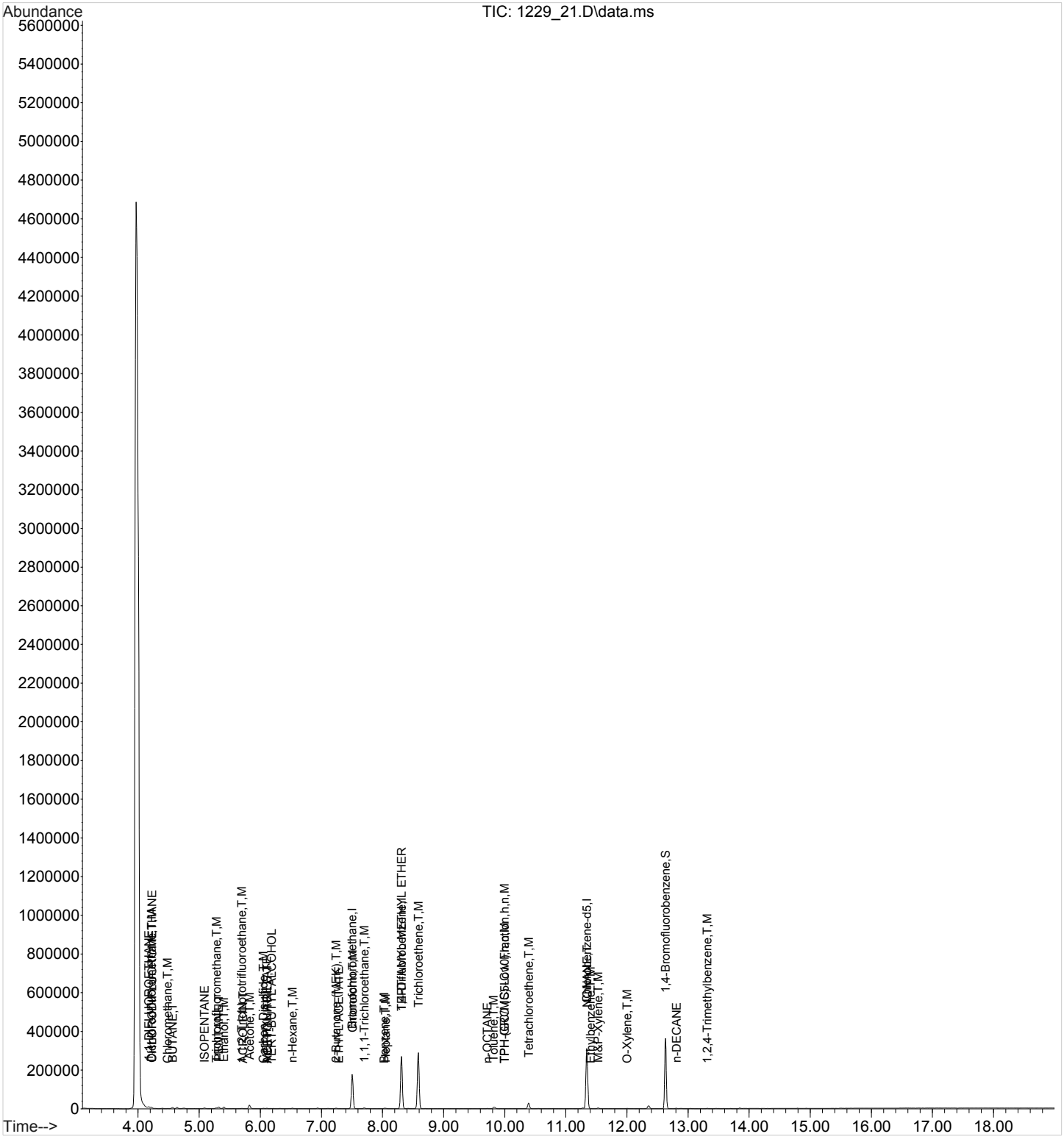
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	74785	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	267287	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	234521	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	135488	3.3859030	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 84.65%				
Target Compounds							Qvalue
3) BUTANE	4.566	43	3962	0.5773502	ppbv		95
4) 1,1-DIFLUOROETHANE	4.176	51	1967	0.3335660	ppbv		97
5) Dichlorodifluoromethane	4.219	85	5433	0.4281815	ppbv		99
6) CHLORODIFLUOROMETHANE	4.231	51	850	0.1188504	ppbv		97
8) Chloromethane	4.481	50	985	0.2159451	ppbv	#	86
13) ISOPENTANE	5.083	43	1662	0.3506332	ppbv	#	95
15) Trichlorofluoromethane	5.284	101	2439	0.2296242	ppbv		96
16) PENTANE	5.320	43	6396	0.6560117	ppbv		99
17) Ethanol	5.405	45	10449	4.3524196	ppbv		97
18) ACROLEIN	5.715	56	166	0.0744874	ppbv	#	69
19) 1,1,2-Trichlorotrifluo...	5.697	101	909	0.0791024	ppbv		96
21) Acetone	5.825	43	23951	2.9185579	ppbv	#	86
24) Carbon Disulfide	6.050	76	2717	0.1338011	ppbv	#	83
26) METHYL ACETATE	6.105	43	1686	0.1849205	ppbv	#	54
27) ACETONITRILE	6.117	41	919	0.1812166	ppbv	#	69
29) TERT-BUTYL ALCOHOL	6.184	59	1025	0.1074458	ppbv	#	1
33) n-Hexane	6.525	57	1818	0.2385173	ppbv	#	85
38) ETHYL ACETATE	7.285	45	204	0.1197845	ppbv	#	1
39) 2-Butanone (MEK)	7.242	72	1150	0.4583184	ppbv		91
42) Chloroform	7.510	83	1621	0.1481045	ppbv	#	76
44) 1,1,1-Trichloroethane	7.705	97	2045	0.1838909	ppbv		95
48) Benzene	8.027	78	2215	0.1468998	ppbv		97
49) TERT-AMYL METHYL ETHER	8.313	73	2369	0.1596352	ppbv	#	45
51) Heptane	8.052	43	1135	0.1371792	ppbv		92
52) Trichloroethene	8.587	95	115863	15.7164959	ppbv		93
61) n-OCTANE	9.718	43	878	0.0674684	ppbv		93
62) Toluene	9.816	91	4229	0.2188528	ppbv		100
65) Tetrachloroethene	10.394	166	11711	1.2145666	ppbv		95
70) NONANE	11.349	43	1206	0.0875527	ppbv	#	90
72) Ethylbenzene	11.404	91	1348	0.0600323	ppbv		91
73) M&P-Xylene	11.525	91	3444	0.1957096	ppbv		99
74) O-Xylene	12.000	91	1480	0.0797377	ppbv		99
80) n-DECANE	12.815	43	1084	0.0922097	ppbv		91
88) 1,2,4-Trimethylbenzene	13.314	105	1197	0.0638135	ppbv		98
101) TPH (GC/MS) Low Fraction	10.000	TIC	931498m	26.7249534	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	1057804m	35.9608748	ppbv		

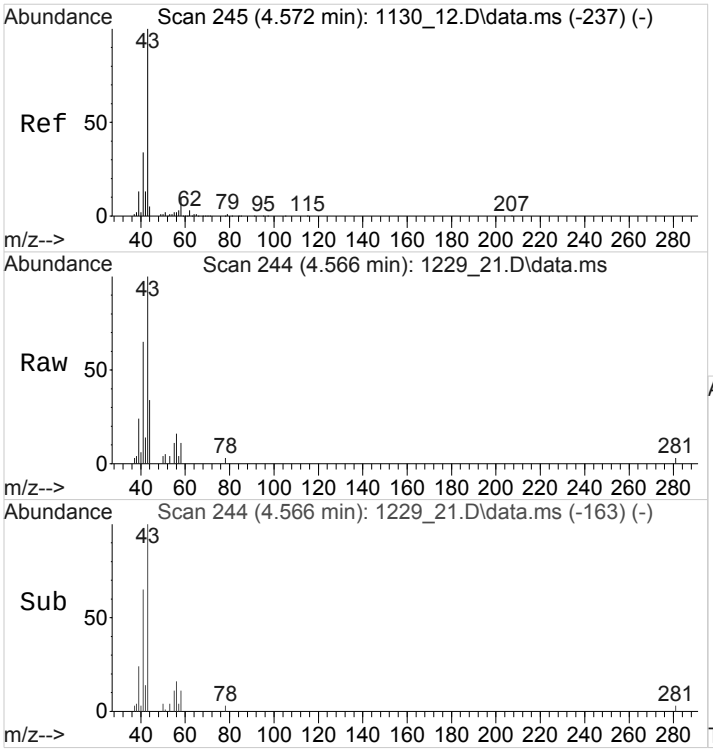
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_21.D
Acq On : 30 Dec 2022 1:14 am
Operator :
Sample : L1570581-08 1x WG1980894
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 31 07:40:06 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

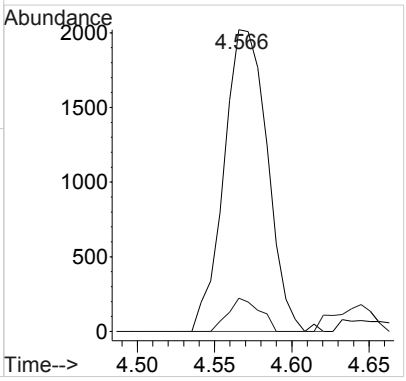


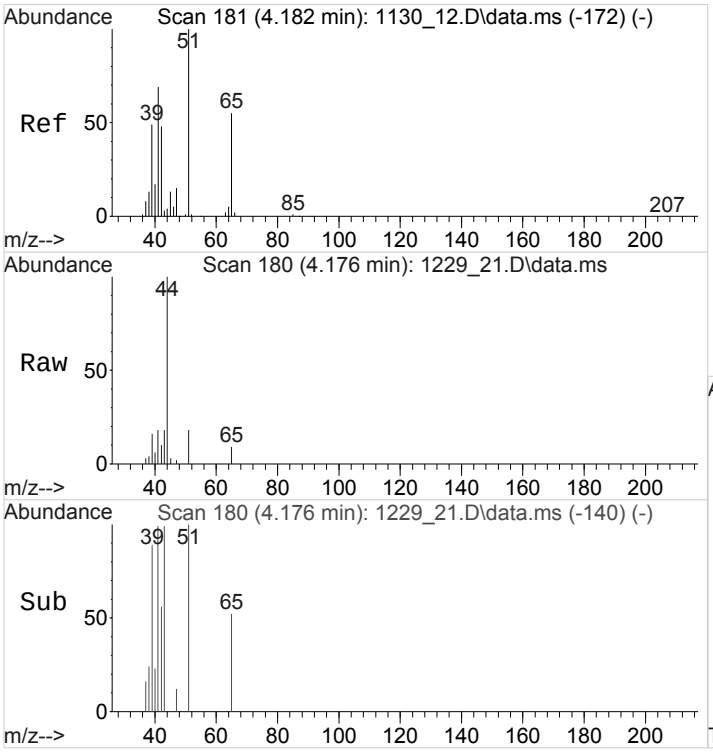


#3
BUTANE
Concen: 0.5773502 ppbv
RT: 4.566 min Scan# 244
Delta R.T. -0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 43 Resp: 3962

Ion	Ratio	Lower	Upper
43	100		
58	8.1	8.0	12.0

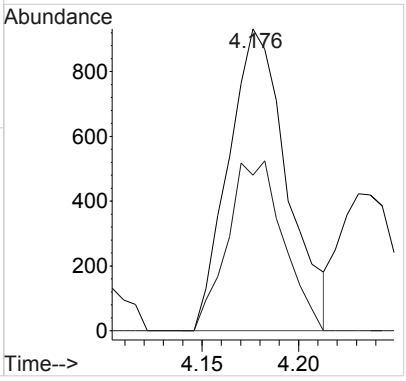




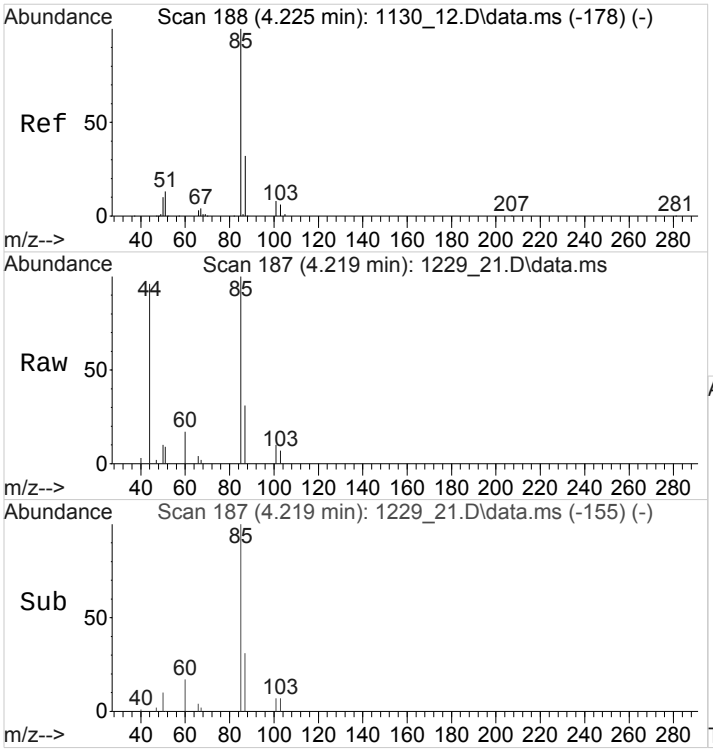
#4
1,1-DIFLUOROETHANE
Concen: 0.3335660 ppbv
RT: 4.176 min Scan# 180
Delta R.T. -0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 51 Resp: 1967

Ion	Ratio	Lower	Upper
51	100		
65	53.2	44.1	66.1



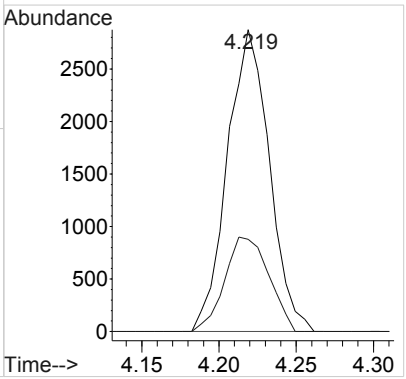
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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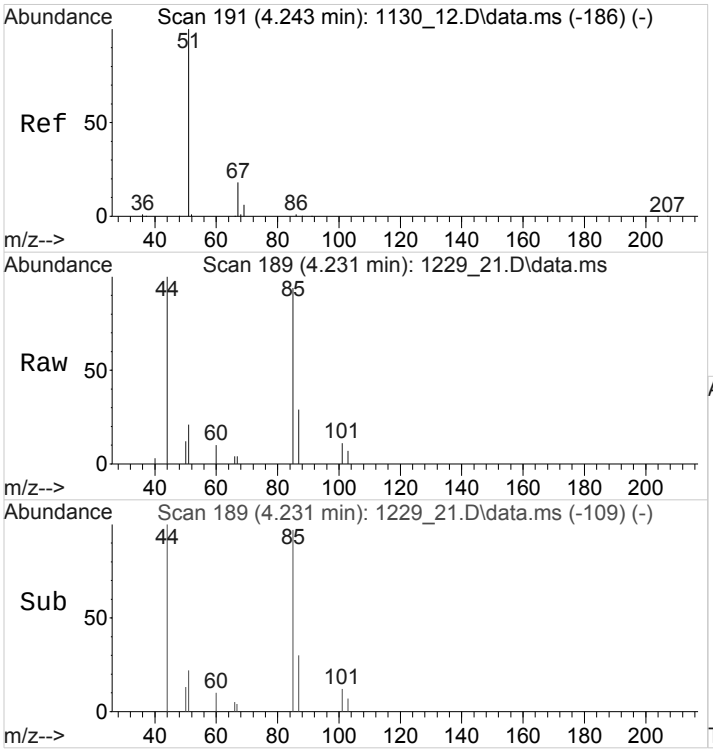


#5
Dichlorodifluoromethane
Concen: 0.4281815 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 85 Resp: 5433

Ion	Ratio	Lower	Upper
85	100		
87	32.9	25.8	38.6

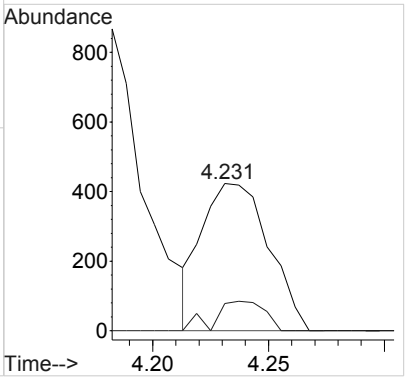




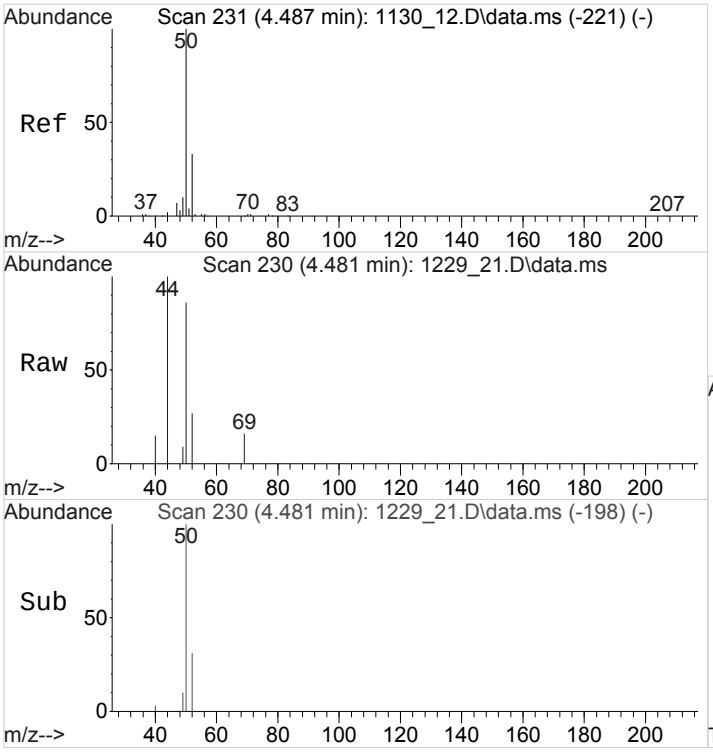
#6
CHLORODIFLUOROMETHANE
Concen: 0.1188504 ppbv
RT: 4.231 min Scan# 189
Delta R.T. -0.012 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 51 Resp: 850

Ion	Ratio	Lower	Upper
51	100		
67	14.9	13.0	19.4



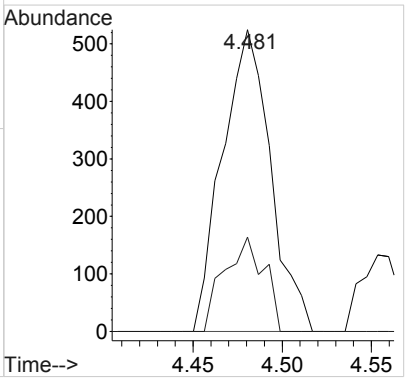
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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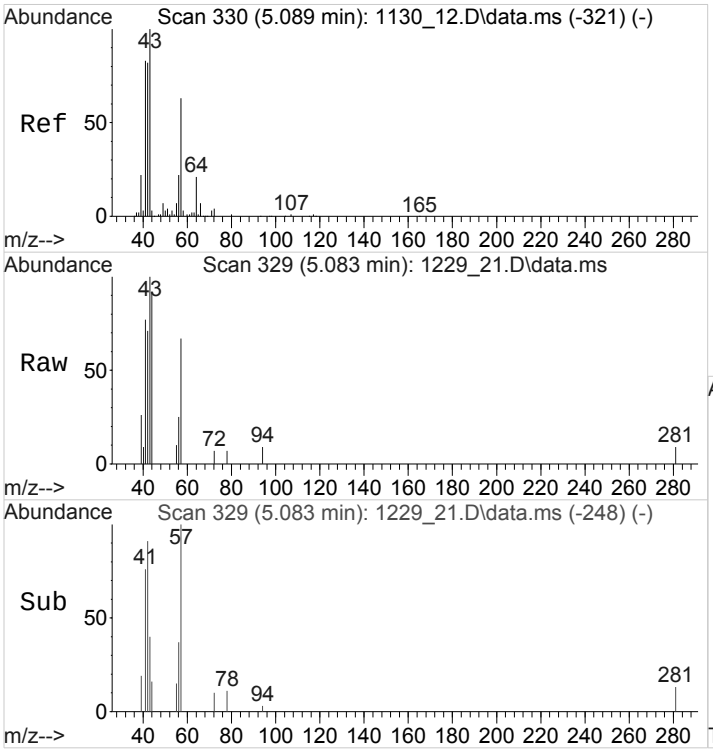


#8
Chloromethane
Concen: 0.2159451 ppbv
RT: 4.481 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 50 Resp: 985

Ion	Ratio	Lower	Upper
50	100		
52	25.9	27.1	40.7#

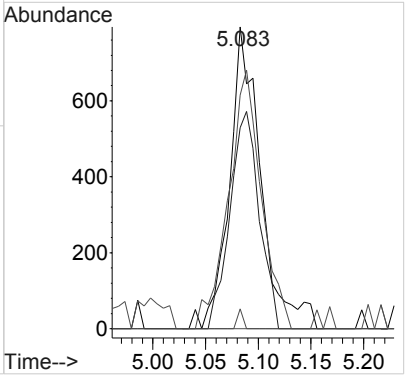




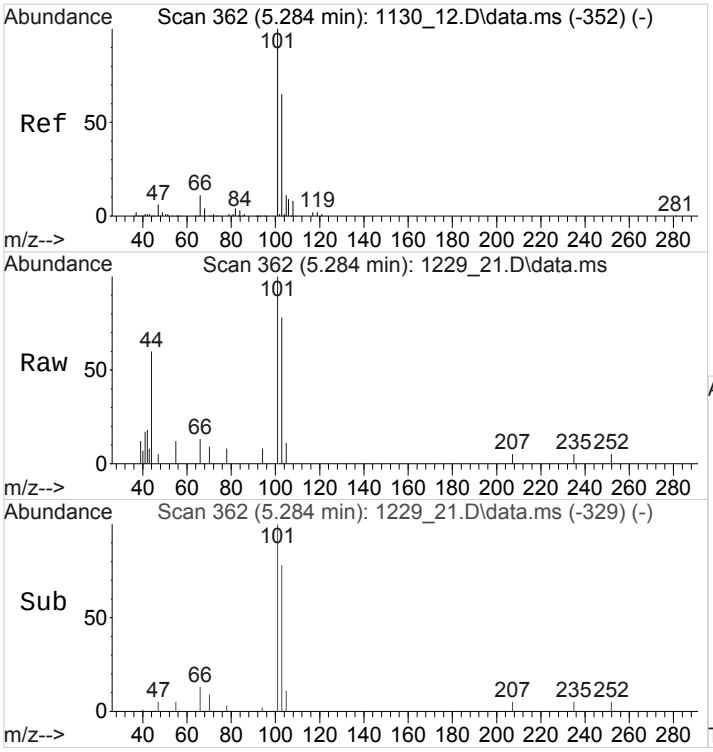
#13
ISOPENTANE
Concen: 0.3506332 ppbv
RT: 5.083 min Scan# 329
Delta R.T. -0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 43 Resp: 1662

Ion	Ratio	Lower	Upper
43	100		
57	66.5	51.7	77.5
41	88.9	66.4	99.6
72	1.1	3.2	4.8#



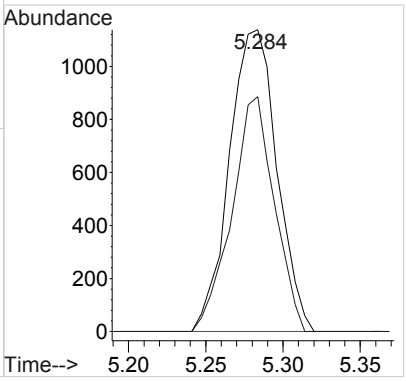
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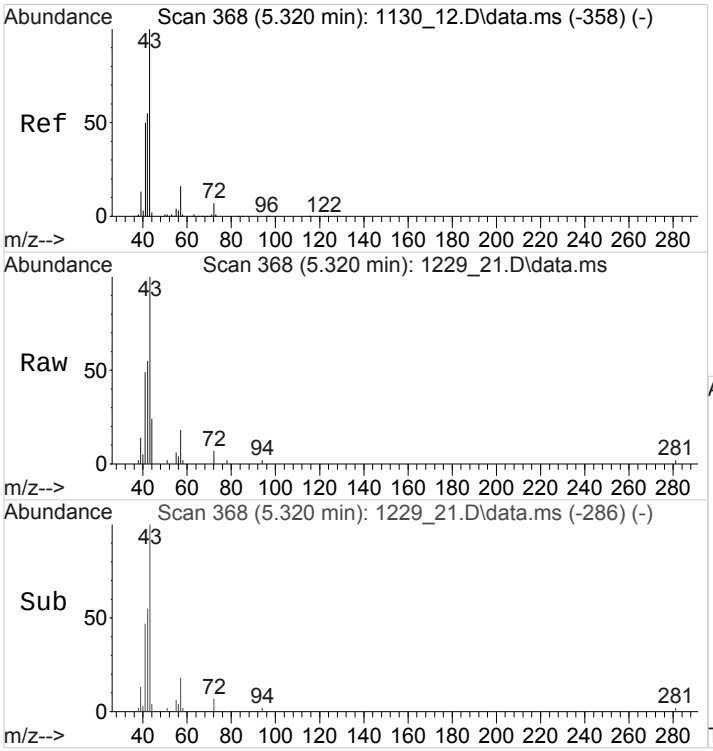


#15
Trichlorofluoromethane
Concen: 0.2296242 ppbv
RT: 5.284 min Scan# 362
Delta R.T. 0.000 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion:101 Resp: 2439

Ion	Ratio	Lower	Upper
101	100		
103	69.5	52.8	79.2

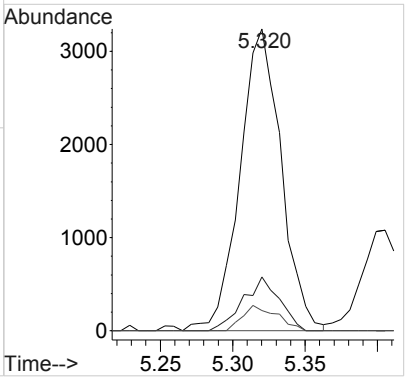




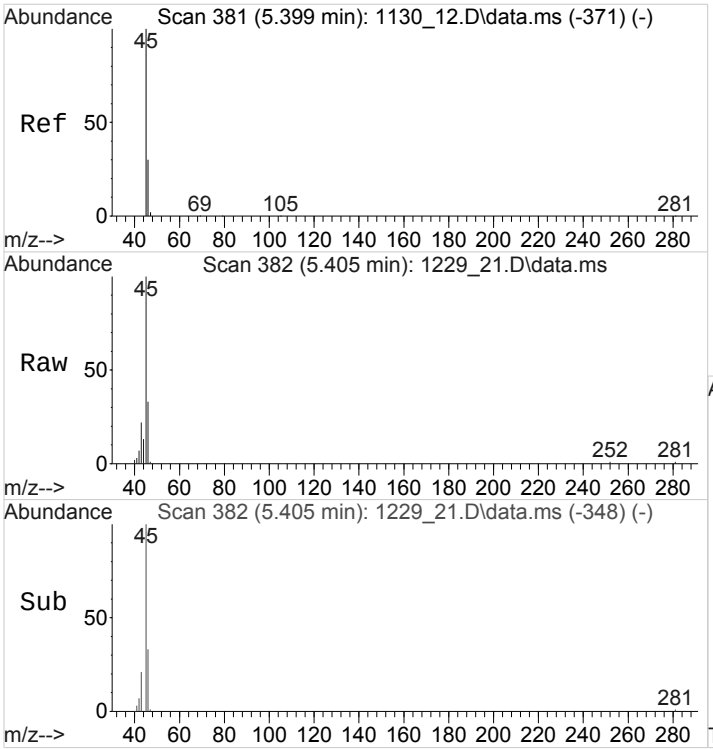
#16
PENTANE
Concen: 0.6560117 ppbv
RT: 5.320 min Scan# 368
Delta R.T. 0.000 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 43 Resp: 6396

Ion	Ratio	Lower	Upper
43	100		
57	15.8	13.0	19.4
72	7.1	5.8	8.8



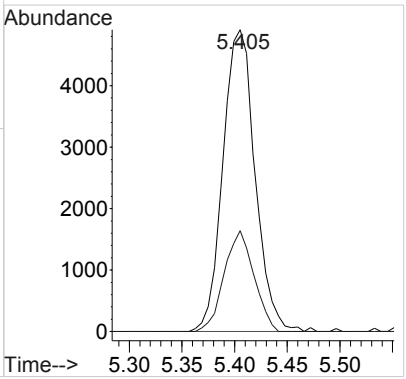
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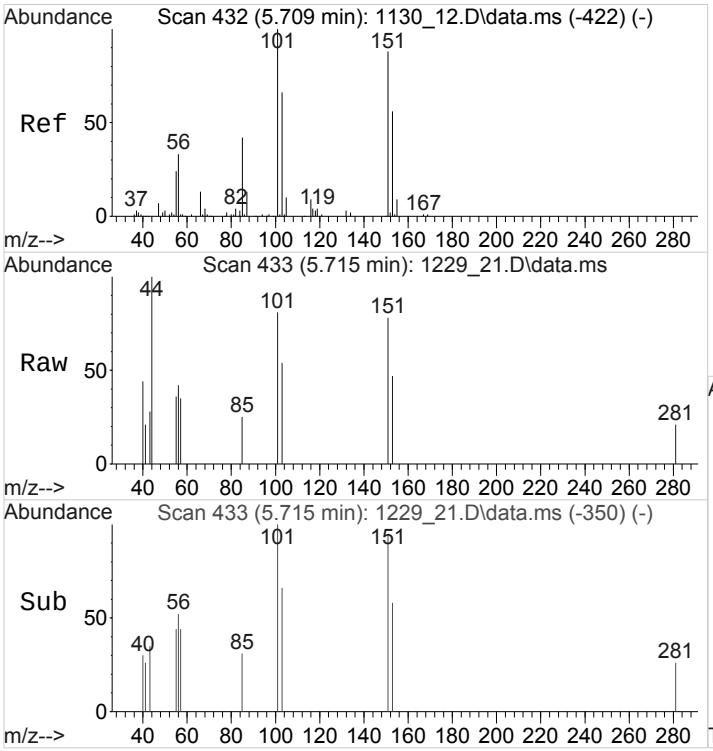


#17
Ethanol
Concen: 4.3524196 ppbv
RT: 5.405 min Scan# 382
Delta R.T. 0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 45 Resp: 10449

Ion	Ratio	Lower	Upper
45	100		
46	30.9	23.6	35.4

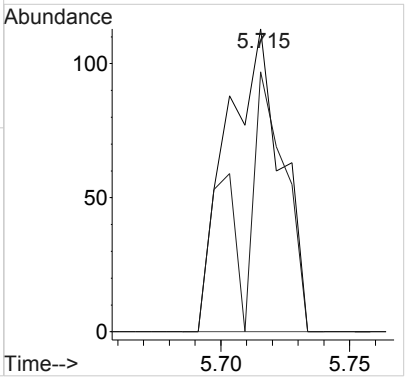


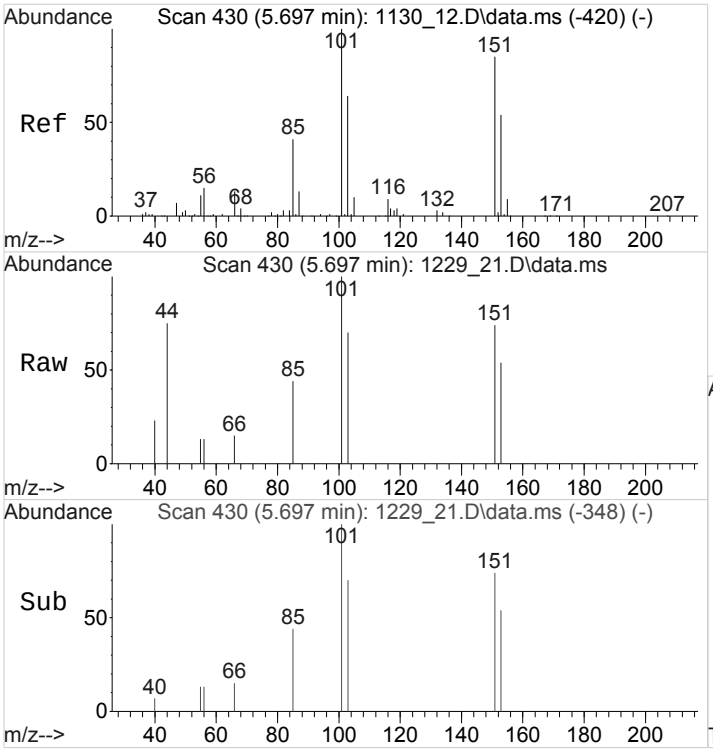


#18
ACROLEIN
Concen: 0.0744874 ppbv
RT: 5.715 min Scan# 433
Delta R.T. 0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 56 Resp: 166

Ion	Ratio	Lower	Upper
56	100		
55	48.8	60.4	90.6#

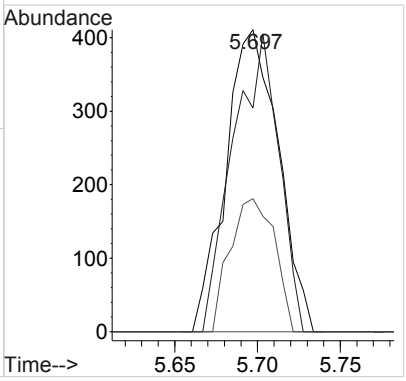


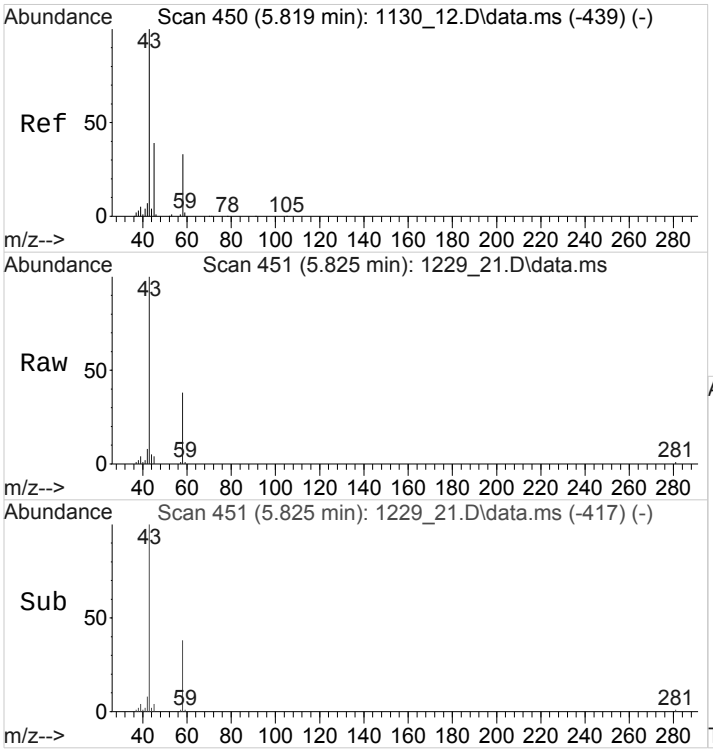


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.0791024 ppbv
RT: 5.697 min Scan# 430
Delta R.T. 0.000 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion:101 Resp: 909

Ion	Ratio	Lower	Upper
101	100		
151	86.4	67.4	101.2
85	37.4	34.4	51.6

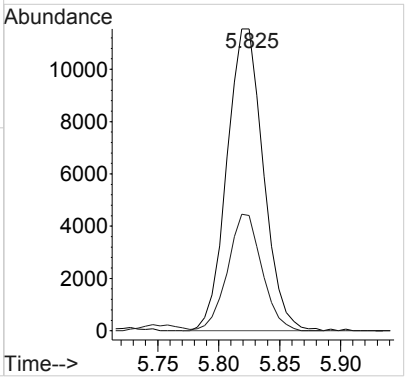




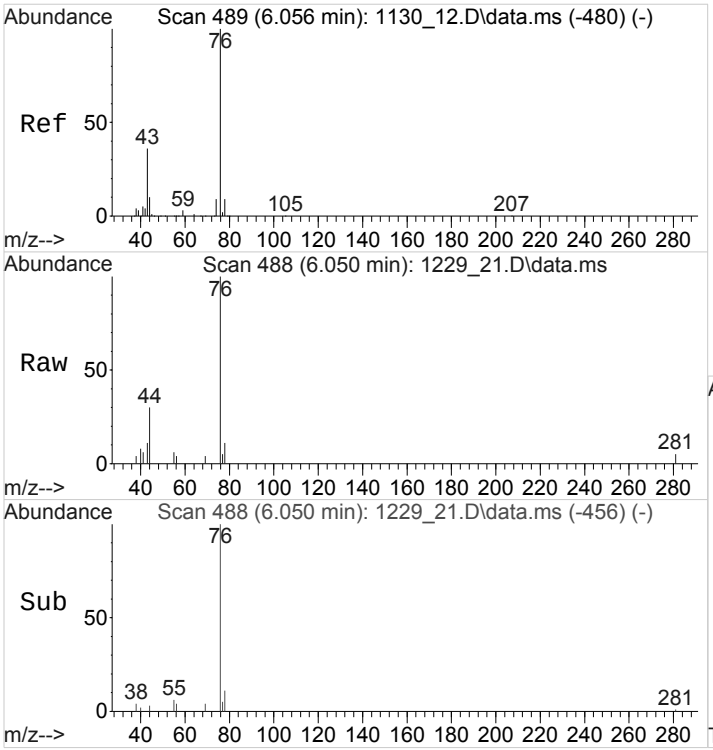
#21
Acetone
Concen: 2.9185579 ppbv
RT: 5.825 min Scan# 451
Delta R.T. 0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 43 Resp: 23951

Ion	Ratio	Lower	Upper
43	100		
58	36.4	23.1	34.7#



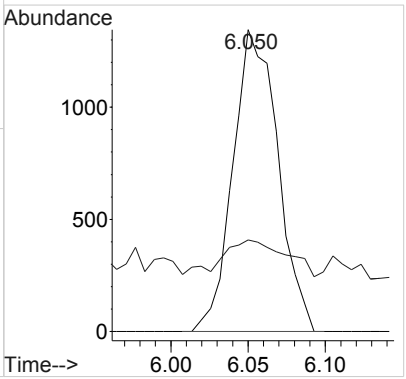
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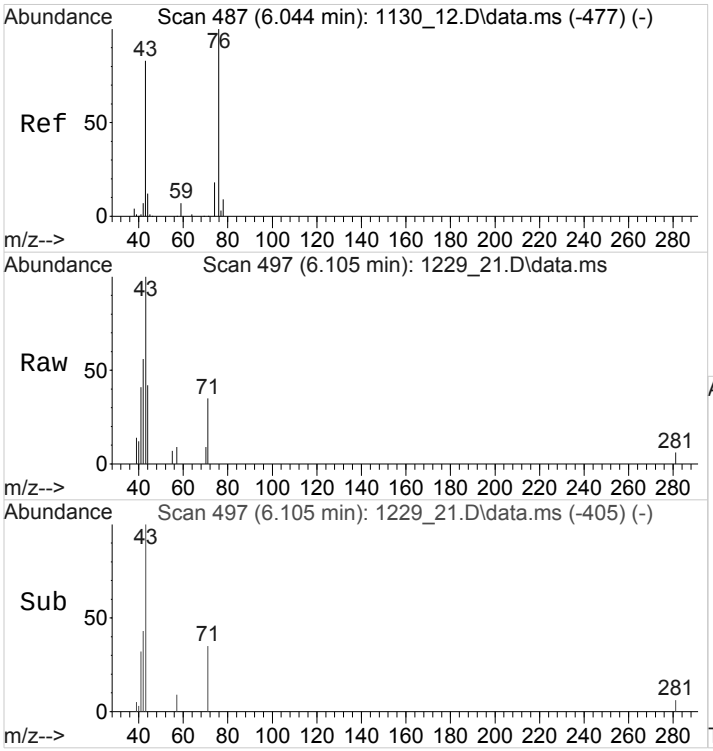


#24
Carbon Disulfide
Concen: 0.1338011 ppbv
RT: 6.050 min Scan# 488
Delta R.T. -0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 76 Resp: 2717

Ion	Ratio	Lower	Upper
76	100		
44	16.9	8.4	12.6#

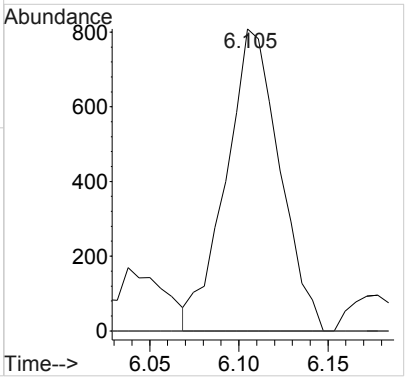




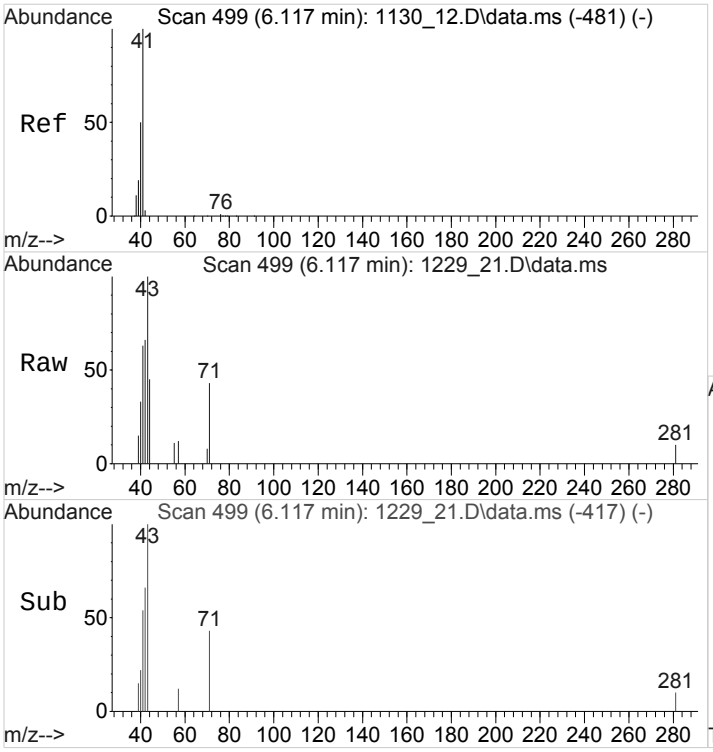
#26
METHYL ACETATE
Concen: 0.1849205 ppbv
RT: 6.105 min Scan# 497
Delta R.T. 0.061 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 43 Resp: 1686

Ion	Ratio	Lower	Upper
43	100		
74	0.0	17.4	26.0#
29	0.0	0.0	0.0



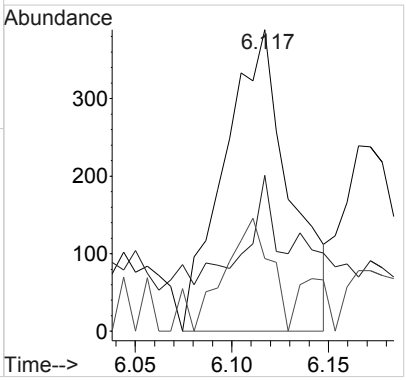
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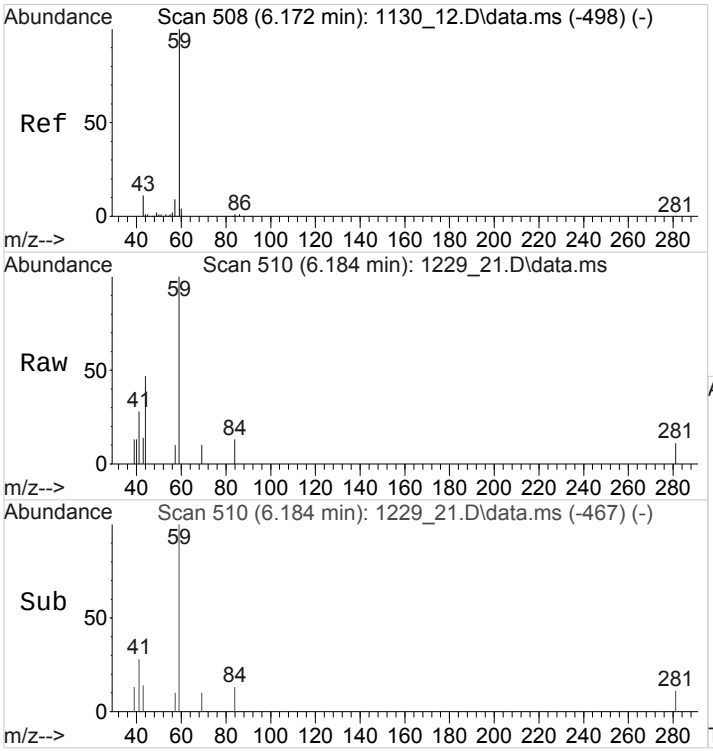


#27
ACETONITRILE
Concen: 0.1812166 ppbv
RT: 6.117 min Scan# 499
Delta R.T. 0.000 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 41 Resp: 919

Ion	Ratio	Lower	Upper
41	100		
40	8.5	32.7	49.1#
39	27.7	22.7	34.1

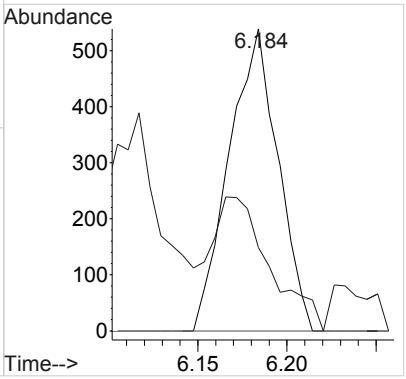




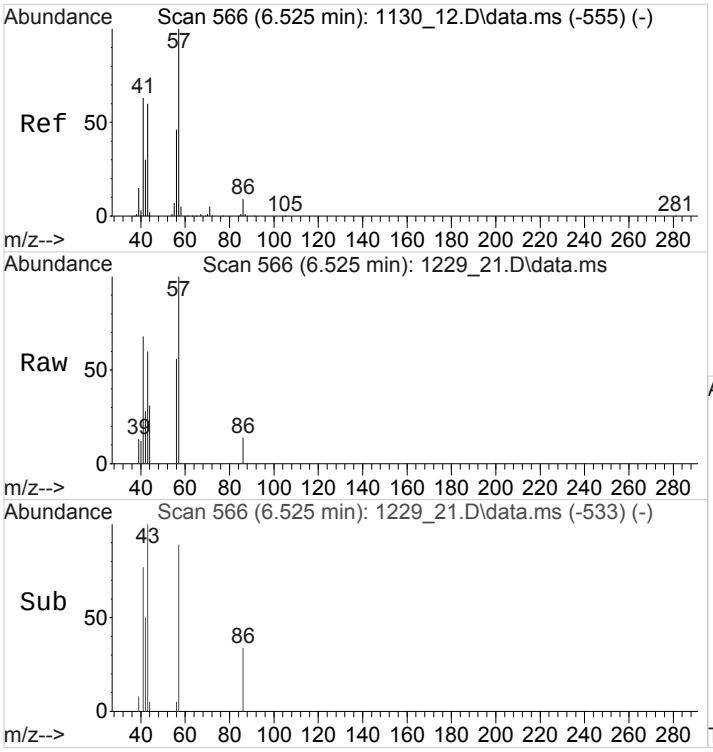
#29
TERT-BUTYL ALCOHOL
Concen: 0.1074458 ppbv
RT: 6.184 min Scan# 510
Delta R.T. 0.012 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 59 Resp: 1025

Ion	Ratio	Lower	Upper
59	100		
41	53.7	216.4	324.6#



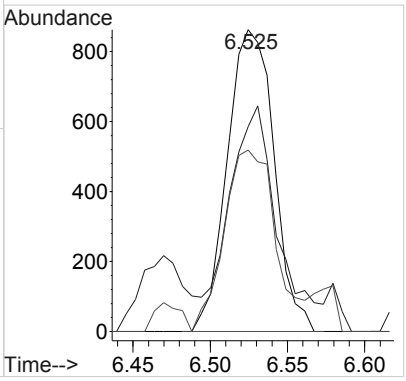
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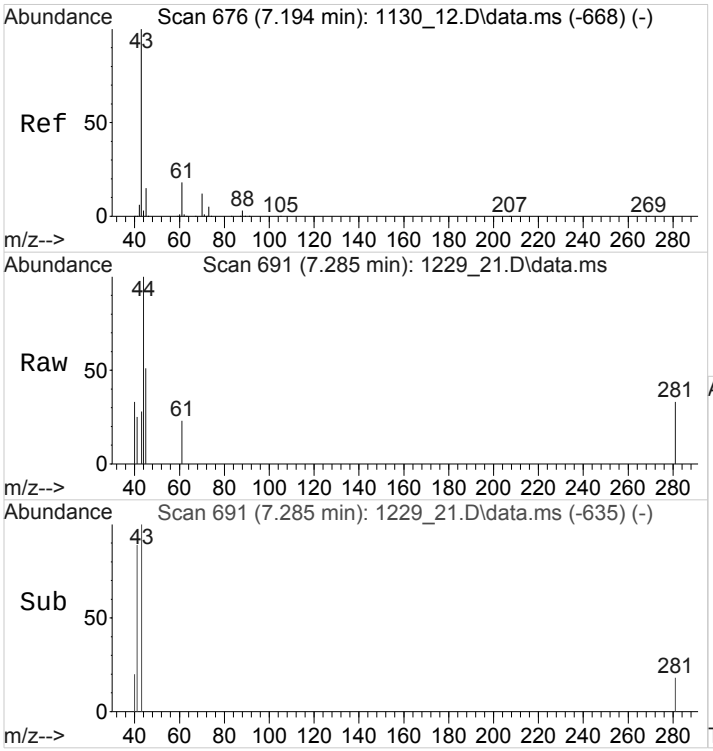


#33
n-Hexane
Concen: 0.2385173 ppbv
RT: 6.525 min Scan# 566
Delta R.T. 0.000 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 57 Resp: 1818

Ion	Ratio	Lower	Upper
57	100		
41	81.0	50.9	76.3#
43	66.1	48.4	72.6

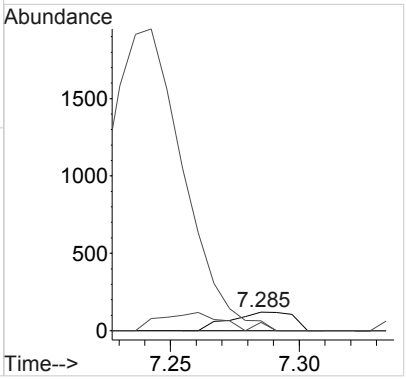


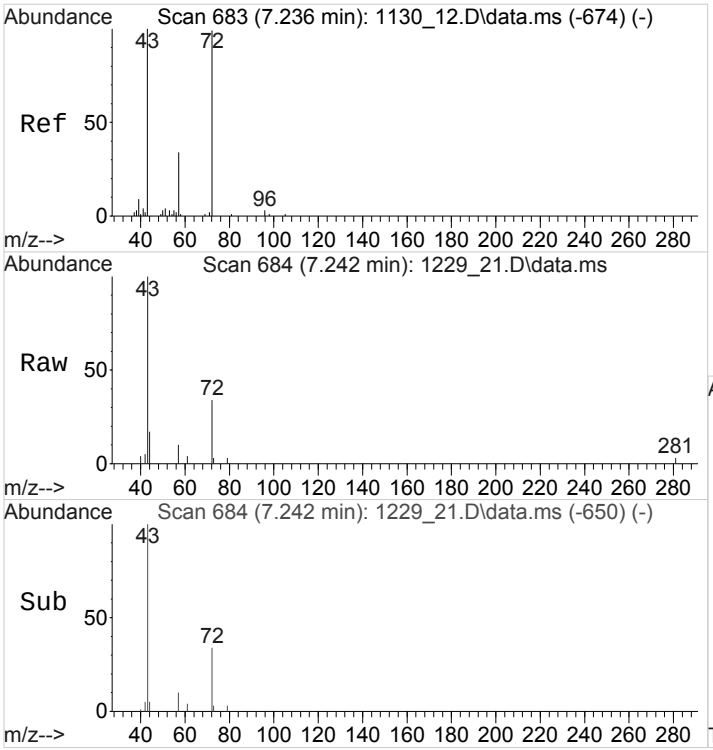


#38
ETHYL ACETATE
Concen: 0.1197845 ppbv
RT: 7.285 min Scan# 691
Delta R.T. 0.091 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 45 Resp: 204

Ion	Ratio	Lower	Upper
45	100		
70	0.0	60.5	90.7#
43	2058.3	543.4	815.0#
61	102.0	89.8	134.6

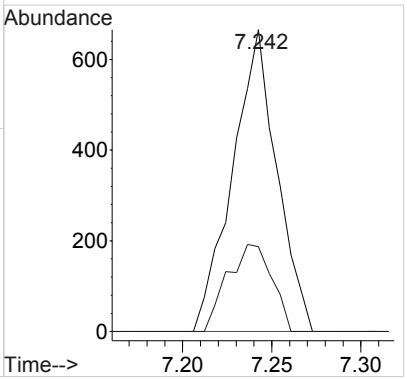


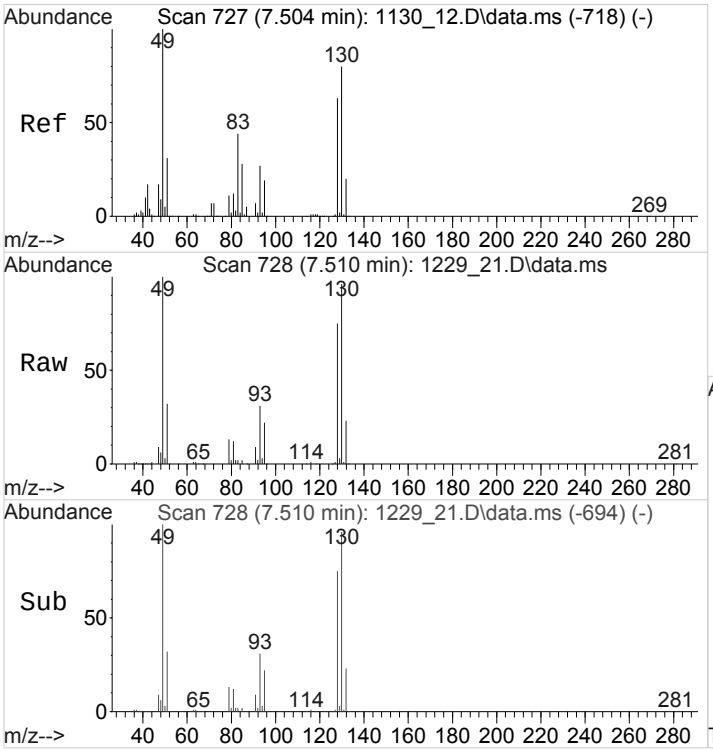


#39
2-Butanone (MEK)
Concen: 0.4583184 ppbv
RT: 7.242 min Scan# 684
Delta R.T. 0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 72 Resp: 1150

Ion	Ratio	Lower	Upper
72	100		
57	28.9	27.3	40.9

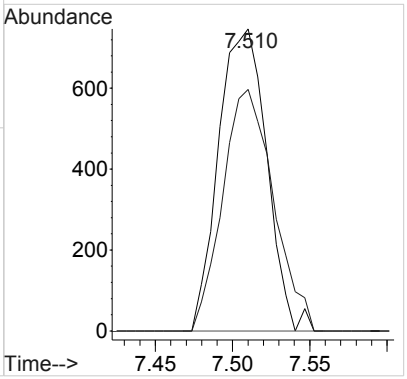




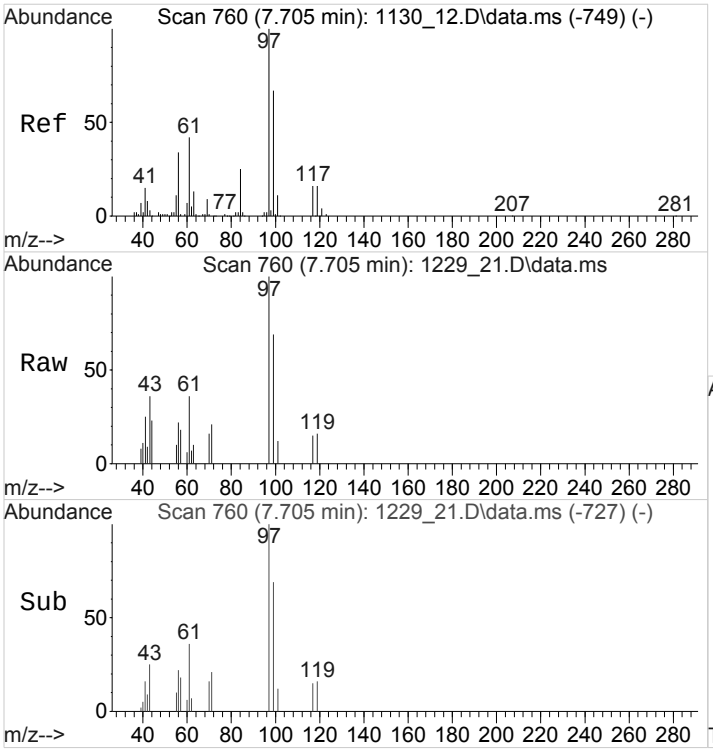
#42
Chloroform
Concen: 0.1481045 ppbv
RT: 7.510 min Scan# 728
Delta R.T. 0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 83 Resp: 1621

Ion	Ratio	Lower	Upper
83	100		
85	84.5	52.5	78.7#



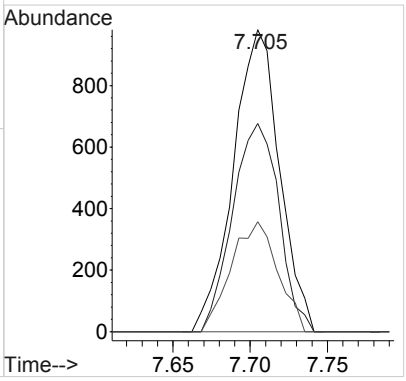
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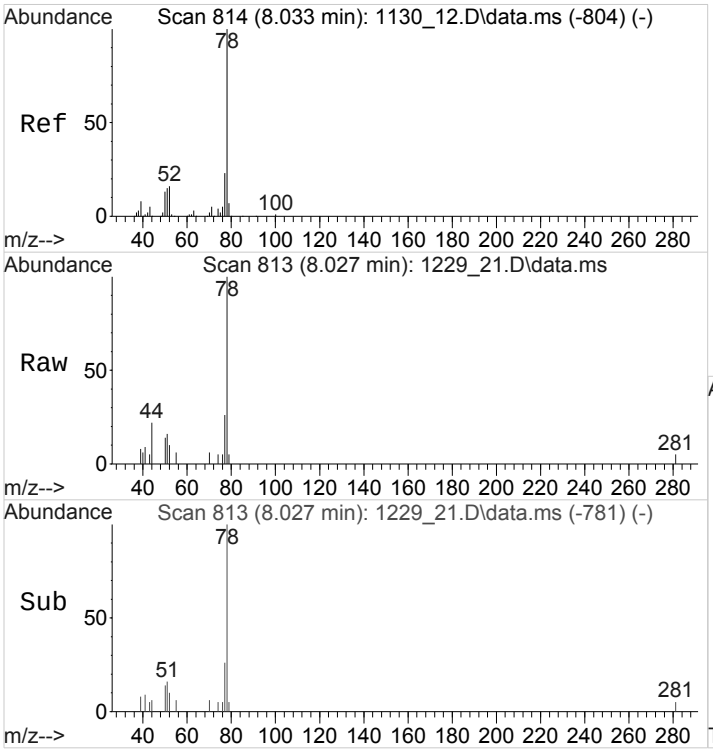


#44
1,1,1-Trichloroethane
Concen: 0.1838909 ppbv
RT: 7.705 min Scan# 760
Delta R.T. 0.000 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 97 Resp: 2045

Ion	Ratio	Lower	Upper
97	100		
99	69.0	52.5	78.7
61	36.7	31.9	47.9

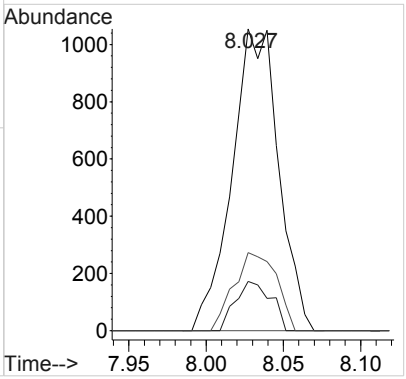


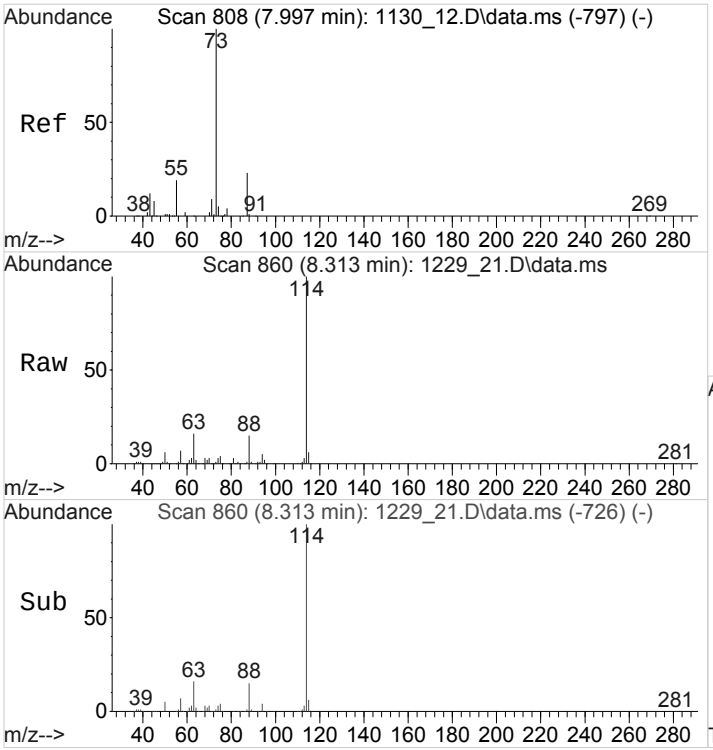


#48
Benzene
Concen: 0.1468998 ppbv
RT: 8.027 min Scan# 813
Delta R.T. -0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 78 Resp: 2215

Ion	Ratio	Lower	Upper
78	100		
51	12.5	12.1	18.1
77	23.6	18.8	28.2

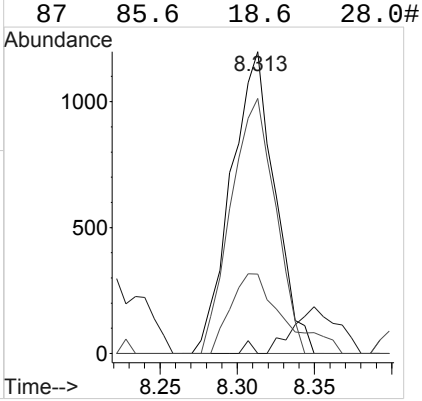


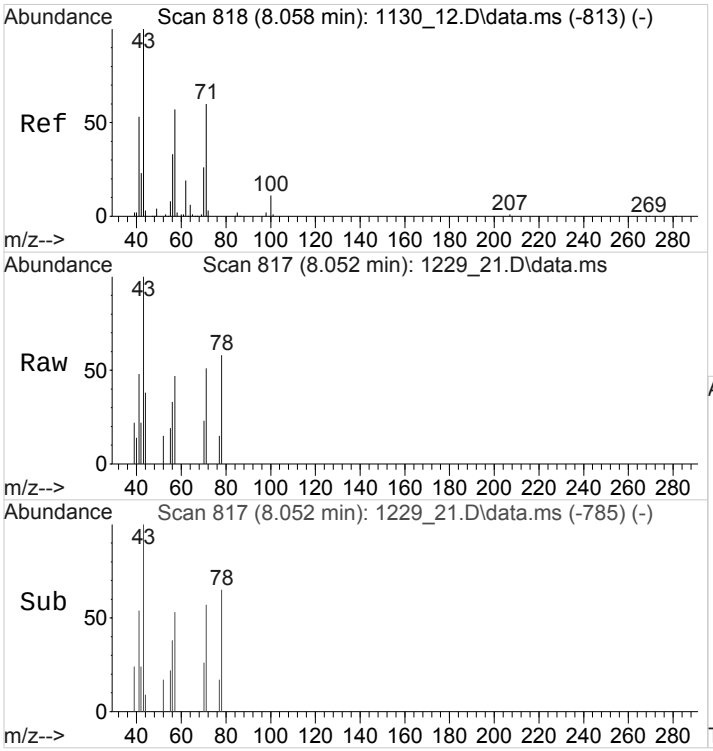


#49
TERT-AMYL METHYL ETHER
Concen: 0.1596352 ppbv
RT: 8.313 min Scan# 860
Delta R.T. 0.316 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 73 Resp: 2369

Ion	Ratio	Lower	Upper
73	100		
43	15.5	24.9	37.3#
55	31.7	18.8	28.2#
87	85.6	18.6	28.0#

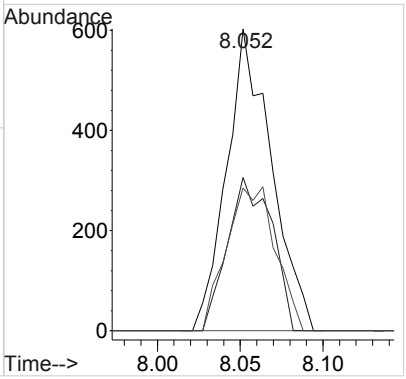


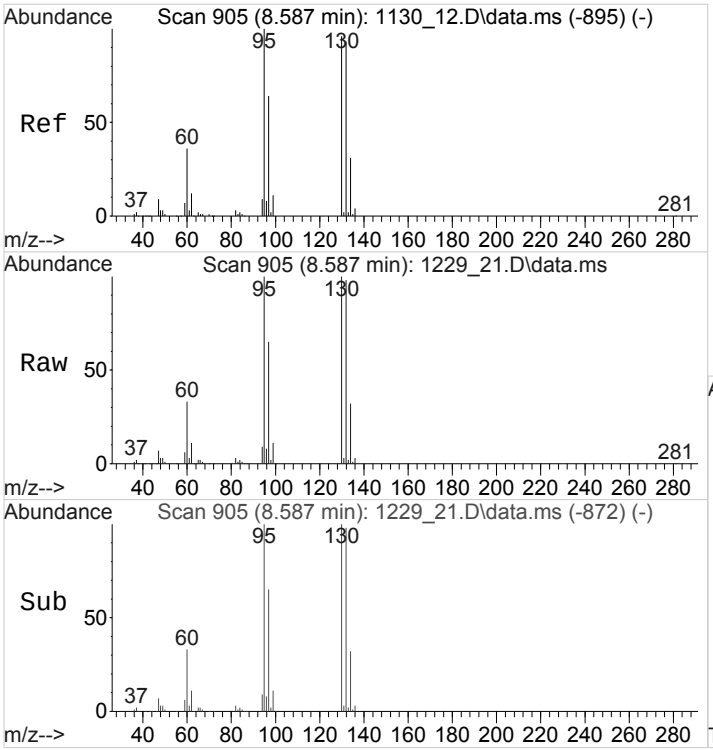


#51
Heptane
Concen: 0.1371792 ppbv
RT: 8.052 min Scan# 817
Delta R.T. -0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 43 Resp: 1135

Ion	Ratio	Lower	Upper
43	100		
71	50.2	47.0	70.4
57	52.2	43.9	65.9

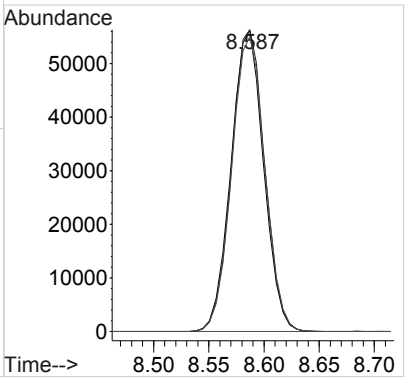


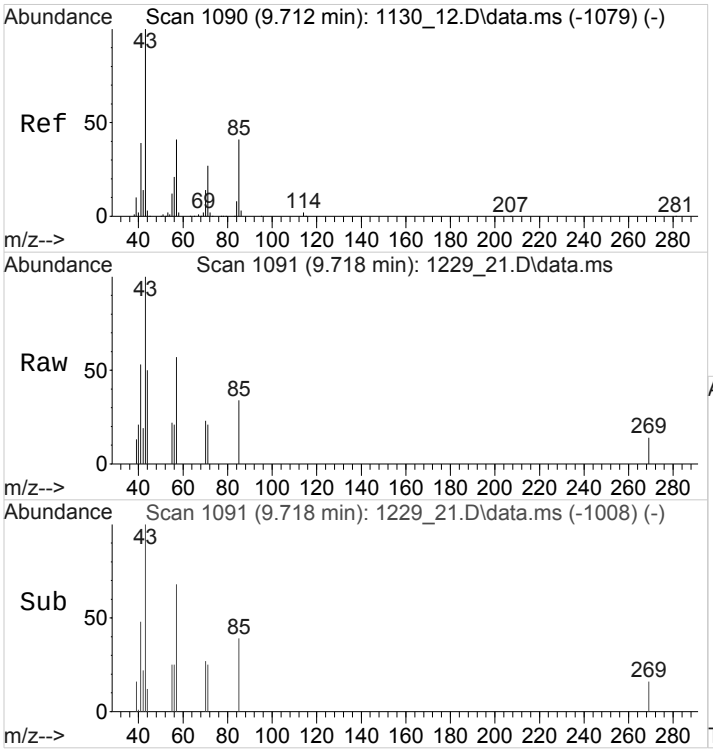


#52
Trichloroethene
Concen: 15.7164959 ppbv
RT: 8.587 min Scan# 905
Delta R.T. 0.000 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 95 Resp: 115863

Ion	Ratio	Lower	Upper
95	100		
130	101.6	76.9	115.3
132	99.5	73.3	109.9

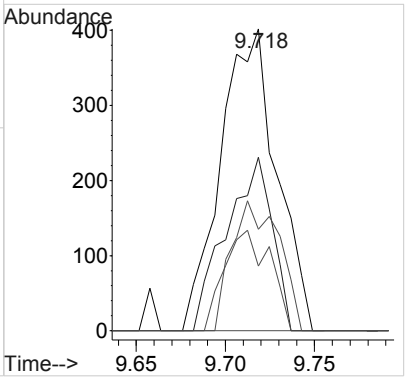




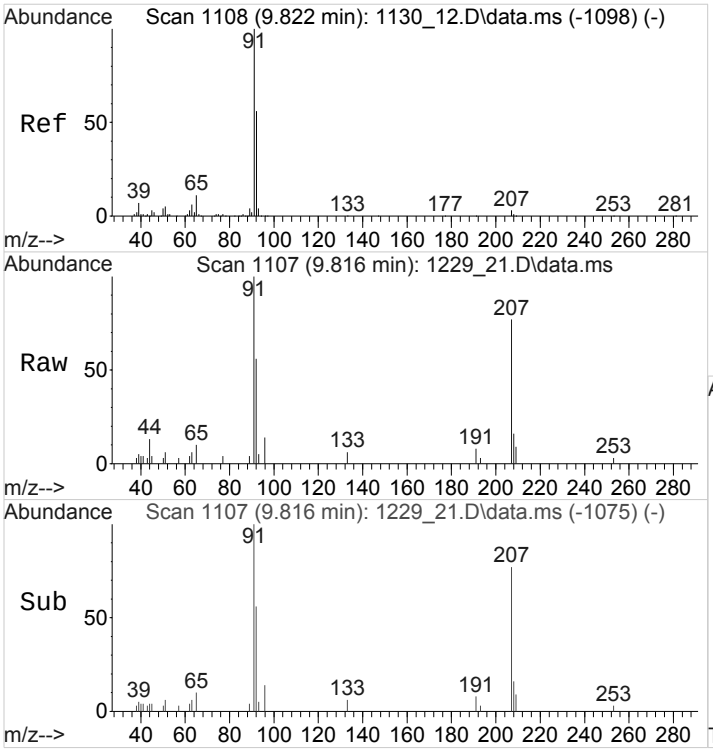
#61
n-OCTANE
Concen: 0.0674684 ppbv
RT: 9.718 min Scan# 1091
Delta R.T. 0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 43 Resp: 878

Ion	Ratio	Lower	Upper
43	100		
57	47.3	33.1	49.7
85	36.3	33.1	49.7
71	27.1	22.1	33.1



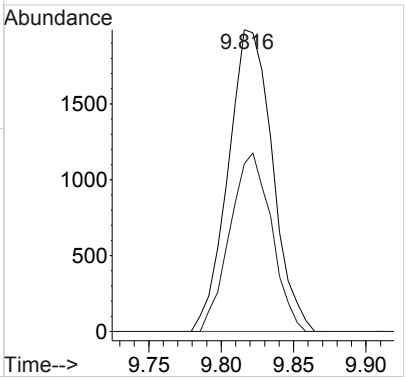
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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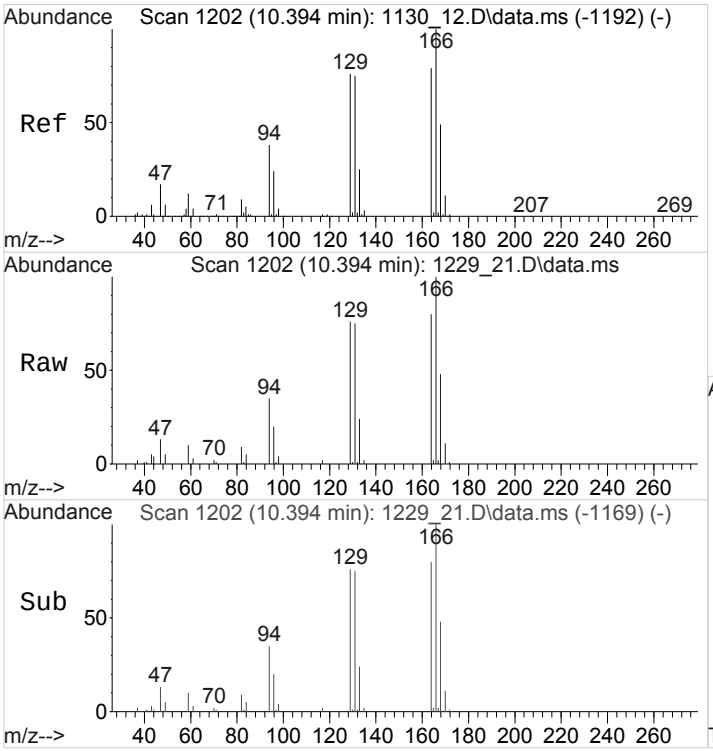


#62
Toluene
Concen: 0.2188528 ppbv
RT: 9.816 min Scan# 1107
Delta R.T. -0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 91 Resp: 4229

Ion	Ratio	Lower	Upper
91	100		
92	55.4	44.1	66.1

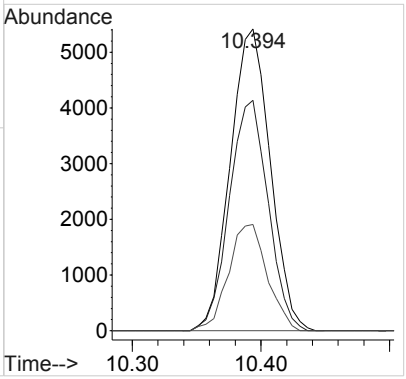


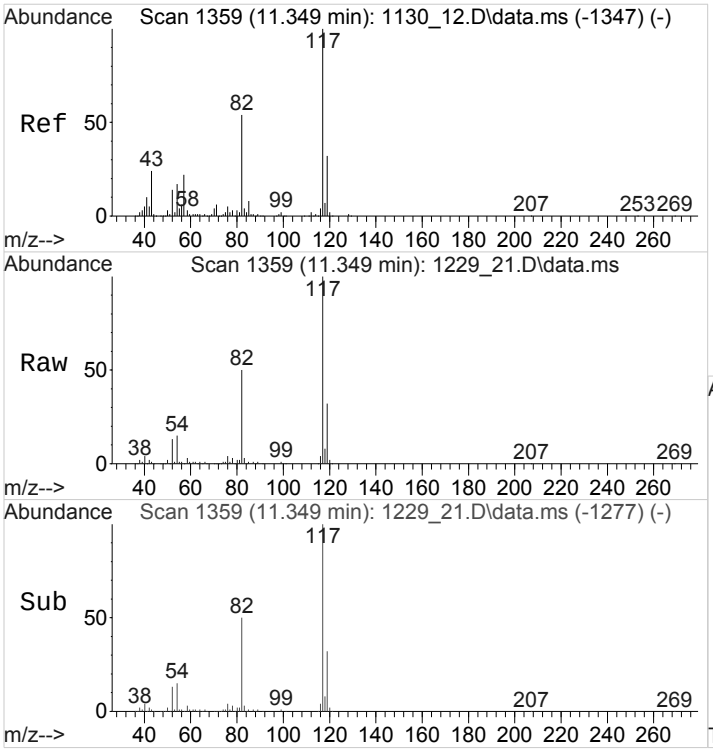


#65
Tetrachloroethene
Concen: 1.2145666 ppbv
RT: 10.394 min Scan# 1202
Delta R.T. 0.000 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion:166 Resp: 11711

Ion	Ratio	Lower	Upper
166	100		
129	73.9	62.1	93.1
94	34.2	30.3	45.5

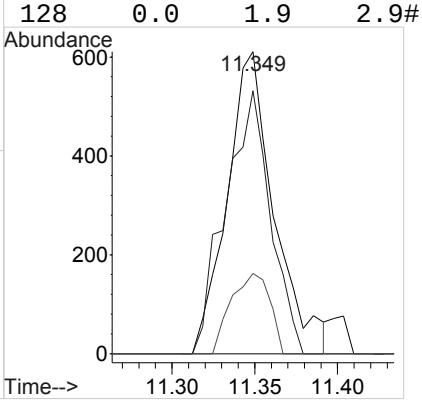


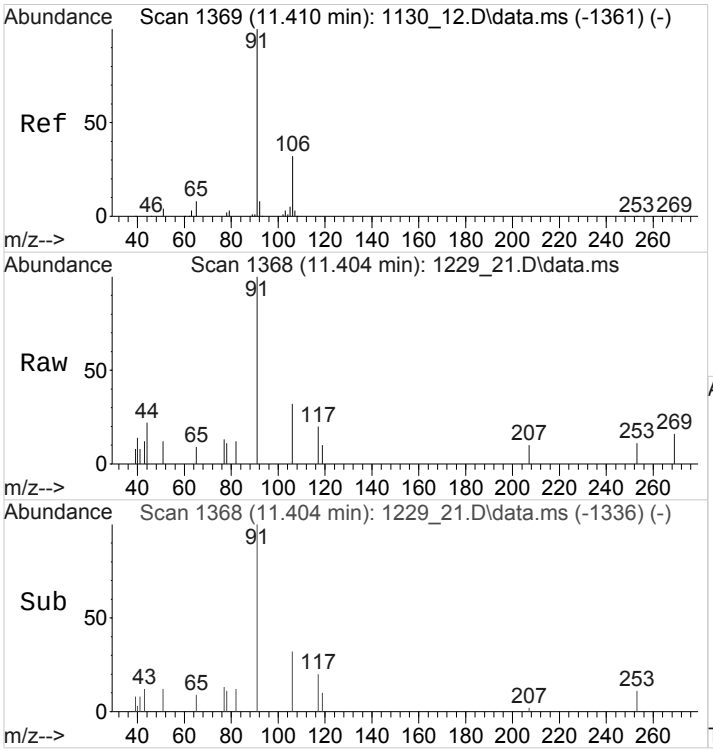


#70
NONANE
Concen: 0.0875527 ppbv
RT: 11.349 min Scan# 1359
Delta R.T. 0.000 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 43 Resp: 1206

Ion	Ratio	Lower	Upper
43	100		
57	83.1	74.6	112.0
71	22.0	20.0	30.0
128	0.0	1.9	2.9#

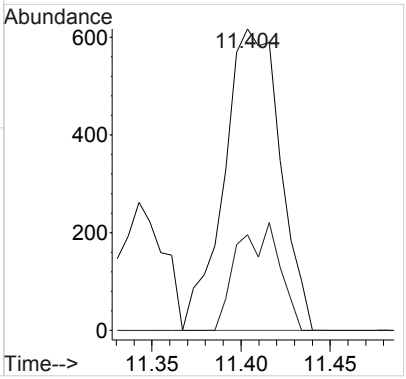


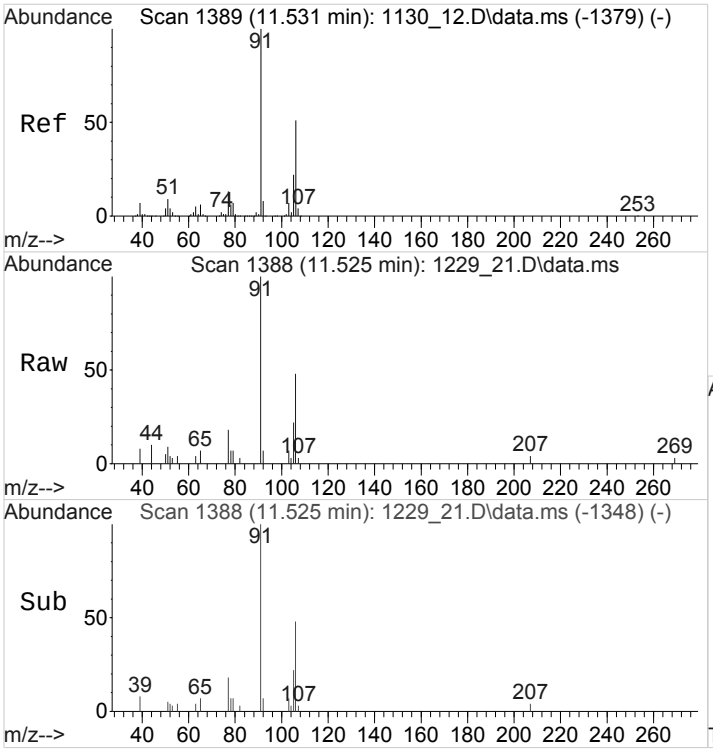


#72
Ethylbenzene
Concen: 0.0600323 ppbv
RT: 11.404 min Scan# 1368
Delta R.T. -0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 91 Resp: 1348

Ion	Ratio	Lower	Upper
91	100		
106	27.1	25.6	38.4

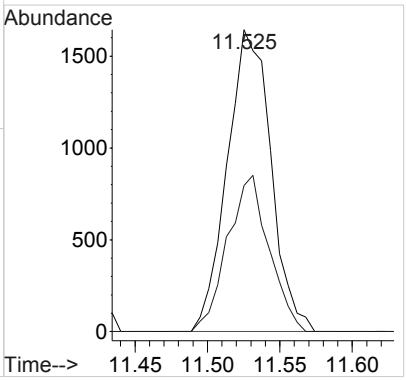


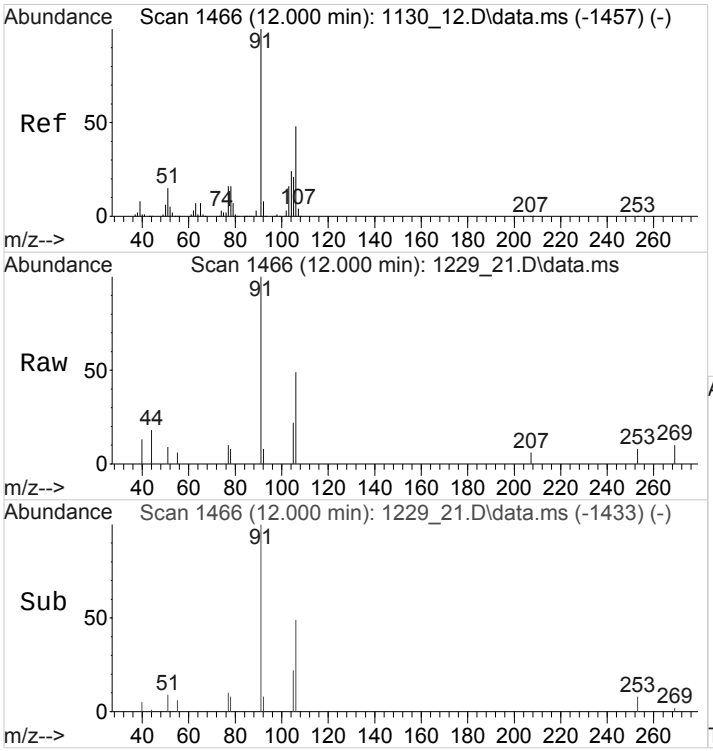


#73
M&P-Xylene
Concen: 0.1957096 ppbv
RT: 11.525 min Scan# 1388
Delta R.T. -0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 91 Resp: 3444

Ion	Ratio	Lower	Upper
91	100		
106	49.2	39.7	59.5

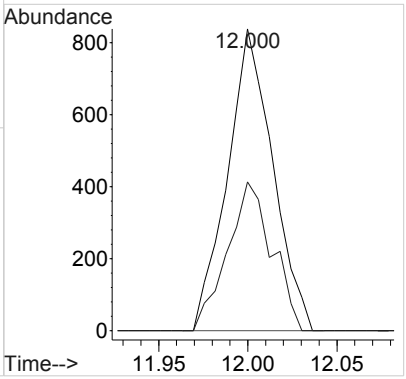


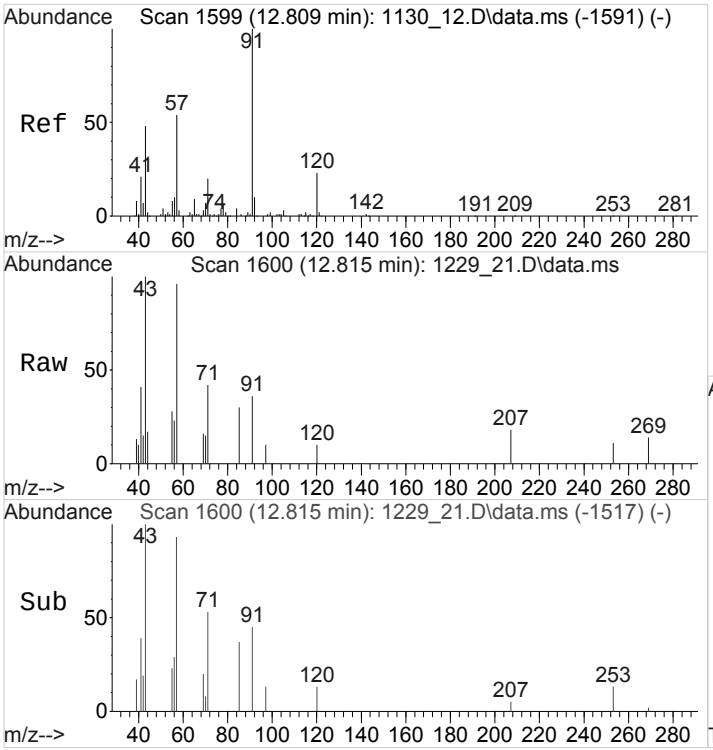


#74
O-Xylene
Concen: 0.0797377 ppbv
RT: 12.000 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 91 Resp: 1480

Ion	Ratio	Lower	Upper
91	100		
106	48.5	38.4	57.6

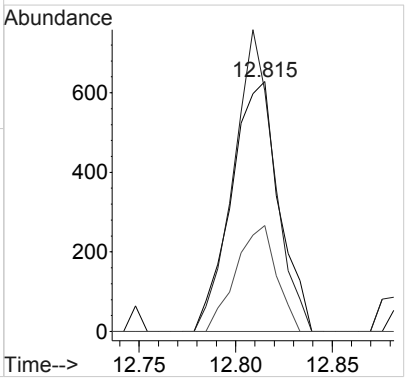


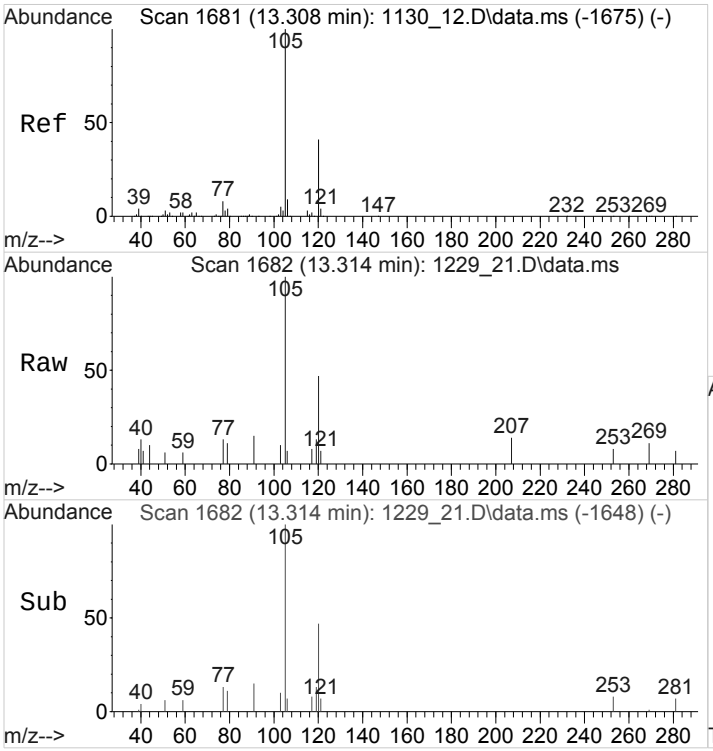


#80
n-DECANE
Concen: 0.0922097 ppbv
RT: 12.815 min Scan# 1600
Delta R.T. 0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion: 43 Resp: 1084

Ion	Ratio	Lower	Upper
43	100		
57	102.8	89.7	134.5
71	36.1	34.1	51.1

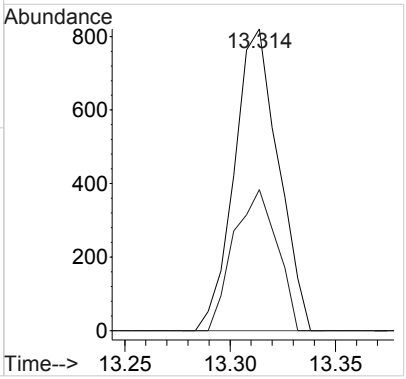


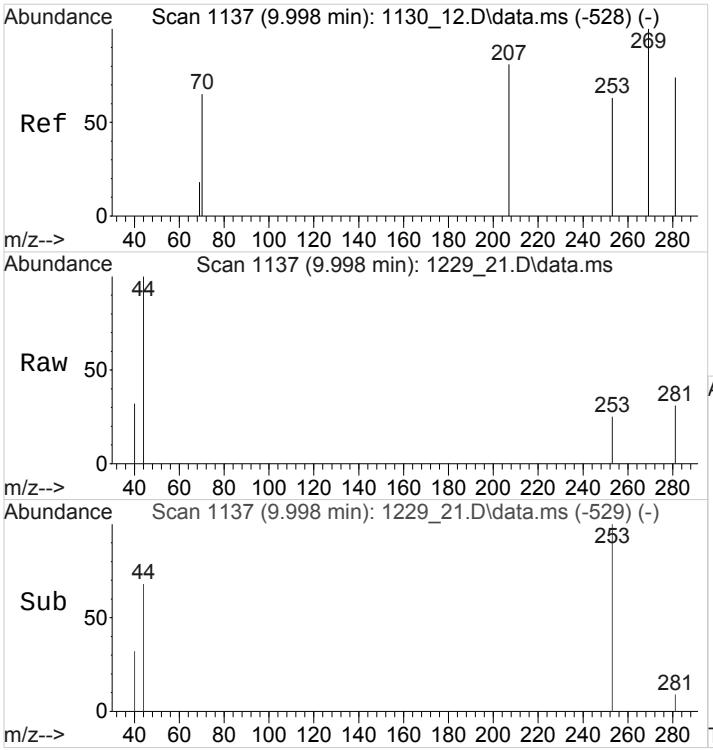


#88
1,2,4-Trimethylbenzene
Concen: 0.0638135 ppbv
RT: 13.314 min Scan# 1682
Delta R.T. 0.006 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion:105 Resp: 1197

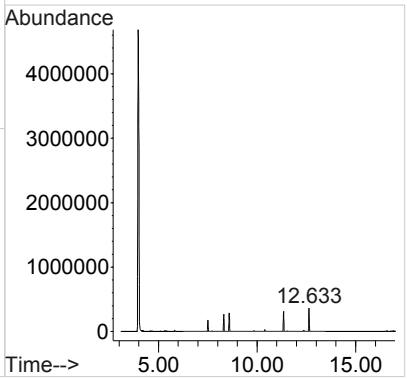
Ion	Ratio	Lower	Upper
105	100		
120	46.1	35.9	53.9

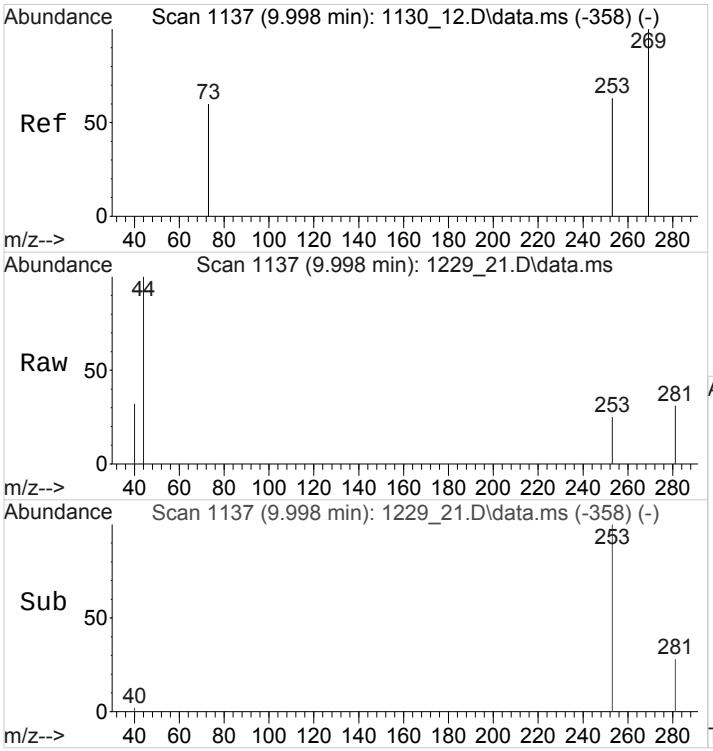




#101
TPH (GC/MS) Low Fraction
Concen: 26.7249534 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

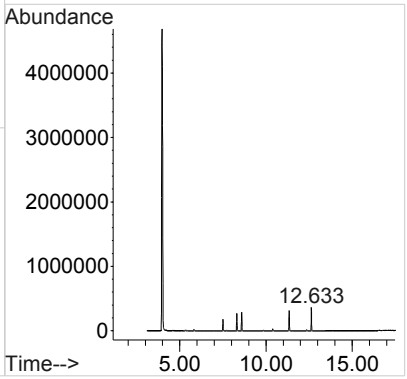
Tgt Ion:TIC Resp: 931498





#102
TPH-GRO (C5-C10)
Concen: 35.9608748 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_21.D
Acq: 30 Dec 2022 1:14 am

Tgt Ion:TIC Resp: 1057804



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SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
785-OA-1_1222

Lab Sample ID:	L1570581-09	**SDG:**	L1570581
Client Sample ID:	785-OA-1_1222	**Collected Date/Time:**	12/21/22 14:55
Lab File ID:	1229_22	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/30/22 01:56
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/30/22 01:56
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Acetone	67-64-1	5.82	2.90	J	1.39	2.85	5.70
Benzene	71-43-2	8.03	0.530	J	0.228	0.479	0.958
Benzyl Chloride	100-44-7	0	0.675	U	0.311	0.675	1.56
Bromodichloromethane	75-27-4	0	1.01	U	0.471	1.01	2.01
Bromoform	75-25-2	0	3.21	U	0.757	3.21	6.21
Bromomethane	74-83-9	0	0.776	U	0.381	0.776	1.55
1,3-Butadiene	106-99-0	0	1.39	U	0.230	1.39	4.43
Carbon disulfide	75-15-0	0	0.778	U	0.317	0.778	1.56
Carbon tetrachloride	56-23-5	7.83	0.945	U	0.461	0.945	1.89
Chlorobenzene	108-90-7	0	0.924	U	0.385	0.924	1.85
Chloroethane	75-00-3	0	0.528	U	0.263	0.528	1.06
Chloroform	67-66-3	0	0.730	U	0.349	0.730	1.46
Chloromethane	74-87-3	4.48	1.08		0.213	0.516	1.03
Dibromochloromethane	124-48-1	0	1.28	U	0.618	1.28	2.55
1,2-Dibromoethane	106-93-4	0	1.15	U	0.554	1.15	2.31
1,2-Dichlorobenzene	95-50-1	0	1.80	U	0.770	1.80	3.61
1,3-Dichlorobenzene	541-73-1	0	2.40	U	1.09	2.40	4.81
1,4-Dichlorobenzene	106-46-7	0	0.782	U	0.335	0.782	1.80
1,2-Dichloroethane	107-06-2	0	0.607	U	0.283	0.607	1.21
1,1-Dichloroethane	75-34-3	0	0.601	U	0.290	0.601	1.20
1,1-Dichloroethene	75-35-4	0	0.793	U	0.302	0.793	1.59
cis-1,2-Dichloroethene	156-59-2	0	0.793	U	0.311	0.793	1.59
trans-1,2-Dichloroethene	156-60-5	0	0.594	U	0.267	0.594	1.19
1,2-Dichloropropane	78-87-5	0	0.924	U	0.351	0.924	1.85
cis-1,3-Dichloropropene	10061-01-5	0	0.681	U	0.313	0.681	1.36
trans-1,3-Dichloropropene	10061-02-6	0	0.681	U	0.331	0.681	1.36
Ethylbenzene	100-41-4	0	0.867	U	0.362	0.867	1.73
4-Ethyltoluene	622-96-8	0	0.982	U	0.384	0.982	1.96
Trichlorofluoromethane	75-69-4	5.28	1.31	J	0.460	0.983	1.97
Dichlorodifluoromethane	75-71-8	4.22	2.16	J	0.678	1.48	2.97
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	1.53	U	0.608	1.53	3.07
Hexachloro-1,3-butadiene	87-68-3	0	2.67	U	1.12	2.67	6.73
Methylene Chloride	75-09-2	6.21	0.427	J	0.340	0.694	1.39
Methyl Butyl Ketone	591-78-6	0	1.23	U	0.544	1.23	5.11
2-Butanone (MEK)	78-93-3	7.24	0.392	J	0.240	0.560	3.69
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.778	U	0.313	0.778	5.12
MTBE	1634-04-4	0	0.468	U	0.233	0.468	1.08
Naphthalene	91-20-3	0	3.66	U	1.83	3.66	7.33
Styrene	100-42-5	0	0.851	U	0.335	0.851	1.70
1,1,2,2-Tetrachloroethane	79-34-5	0	1.03	U	0.511	1.03	2.06
Tetrachloroethylene	127-18-4	0	1.36	U	0.553	1.36	2.72
Toluene	108-88-3	9.82	1.16	J	0.328	0.942	1.88
1,2,4-Trichlorobenzene	120-82-1	0	2.29	U	1.10	2.29	4.66

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570581-09	**SDG:**	L1570581
Client Sample ID:	785-OA-1_1222	**Collected Date/Time:**	12/21/22 14:55
Lab File ID:	1229_22	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/30/22 01:56
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/30/22 01:56
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
1,1,1-Trichloroethane	71-55-6	0	0.816	U	0.400	0.816	1.63
1,1,2-Trichloroethane	79-00-5	0	1.09	U	0.422	1.09	2.18
Trichloroethylene	79-01-6	8.59	0.804	U	0.364	0.804	1.61
1,2,4-Trimethylbenzene	95-63-6	0	0.982	U	0.375	0.982	1.96
1,3,5-Trimethylbenzene	108-67-8	0	0.982	U	0.382	0.982	1.96
Vinyl chloride	75-01-4	0	0.511	U	0.243	0.511	1.02
Vinyl acetate	108-05-4	0	0.880	U	0.408	0.880	1.76
m&p-Xylene	1330-20-7	11.53	1.30	U	0.585	1.30	2.60
o-Xylene	95-47-6	0	0.759	U	0.359	0.759	1.52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_22.D
Acq On : 30 Dec 2022 1:56 am
Operator :
Sample : L1570581-09 1x WG1980894
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 31 07:41:13 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

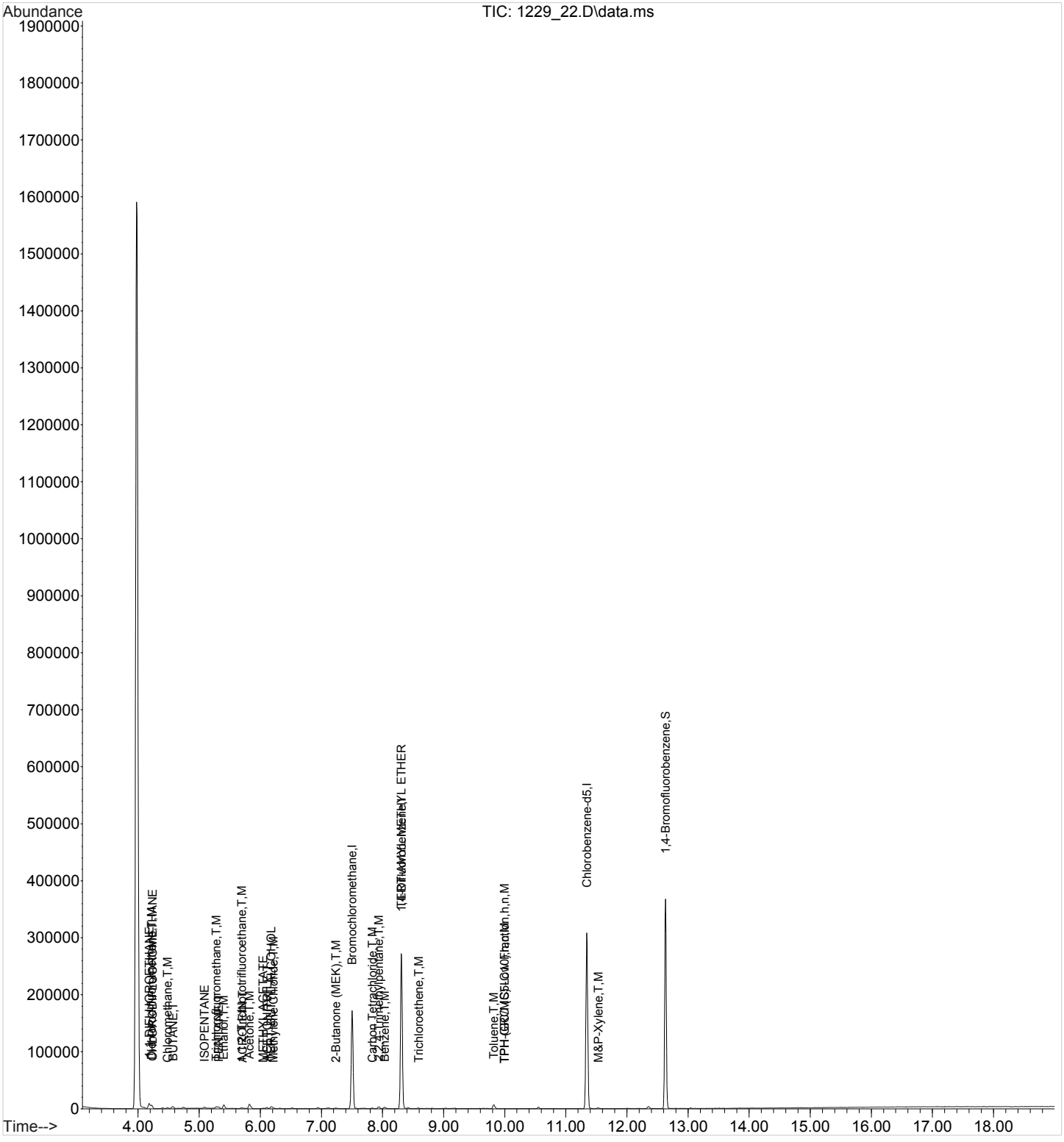
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	74241	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	266531	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	230037	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.632	95	135525	3.4528455	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 86.32%			
Target Compounds						Qvalue
3) BUTANE	4.572	43	2304	0.3382034	ppbv	99
4) 1,1-DIFLUOROETHANE	4.182	51	5873	1.0032475	ppbv	98
5) Dichlorodifluoromethane	4.219	85	5492	0.4360030	ppbv	98
6) CHLORODIFLUOROMETHANE	4.237	51	1481	0.2085968	ppbv #	92
8) Chloromethane	4.480	50	2368	0.5229492	ppbv	99
13) ISOPENTANE	5.083	43	967	0.2055035	ppbv #	85
15) Trichlorofluoromethane	5.277	101	2461	0.2333932	ppbv	97
16) PENTANE	5.320	43	1824	0.1884511	ppbv #	96
17) Ethanol	5.399	45	8353	3.5048481	ppbv	98
18) ACROLEIN	5.709	56	207	0.0935655	ppbv #	78
19) 1,1,2-Trichlorotrifluo...	5.697	101	752	0.0659196	ppbv	90
21) Acetone	5.819	43	9946	1.2208542	ppbv	91
26) METHYL ACETATE	6.044	43	579	0.0639701	ppbv #	62
27) ACETONITRILE	6.111	41	835	0.1658593	ppbv #	76
28) Methylene Chloride	6.214	49	692	0.1232171	ppbv #	94
29) TERT-BUTYL ALCOHOL	6.178	59	4562	0.4817165	ppbv #	1
39) 2-Butanone (MEK)	7.236	72	330	0.1324812	ppbv #	75
45) Carbon Tetrachloride	7.833	117	801	0.0680609	ppbv	90
46) 2,2,4-Trimethylpentane	7.936	57	3856	0.1548267	ppbv	97
48) Benzene	8.033	78	2491	0.1656729	ppbv	97
49) TERT-AMYL METHYL ETHER	8.307	73	2485	0.1679268	ppbv #	51
52) Trichloroethene	8.593	95	455	0.0618946	ppbv	98
62) Toluene	9.822	91	5958	0.3092040	ppbv	98
73) M&P-Xylene	11.531	91	1363	0.0789640	ppbv	98
101) TPH (GC/MS) Low Fraction	10.000	TIC	193487m	5.6594059	ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	280435m	9.7194415	ppbv	

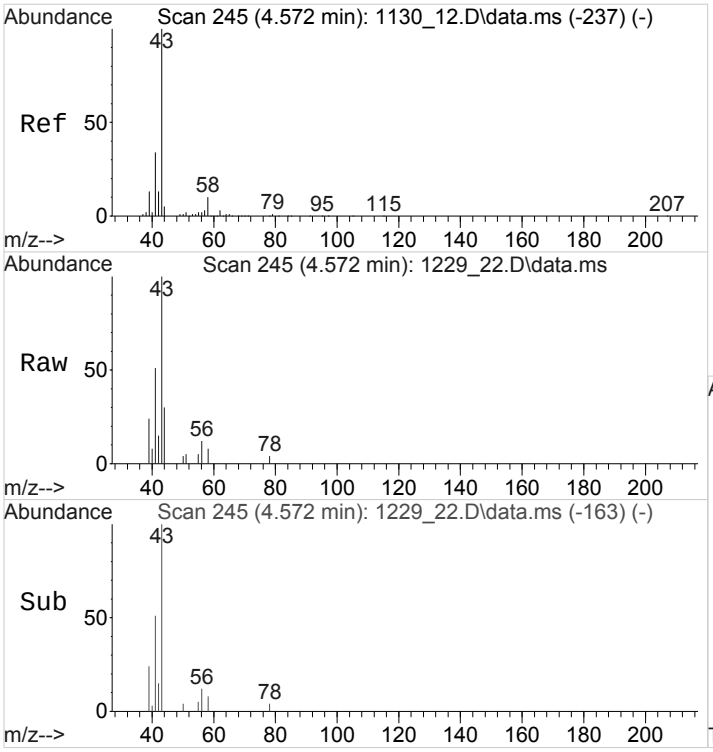
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_22.D
Acq On : 30 Dec 2022 1:56 am
Operator :
Sample : L1570581-09 1x WG1980894
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 31 07:41:13 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

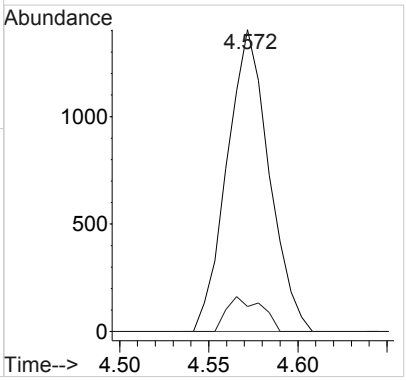


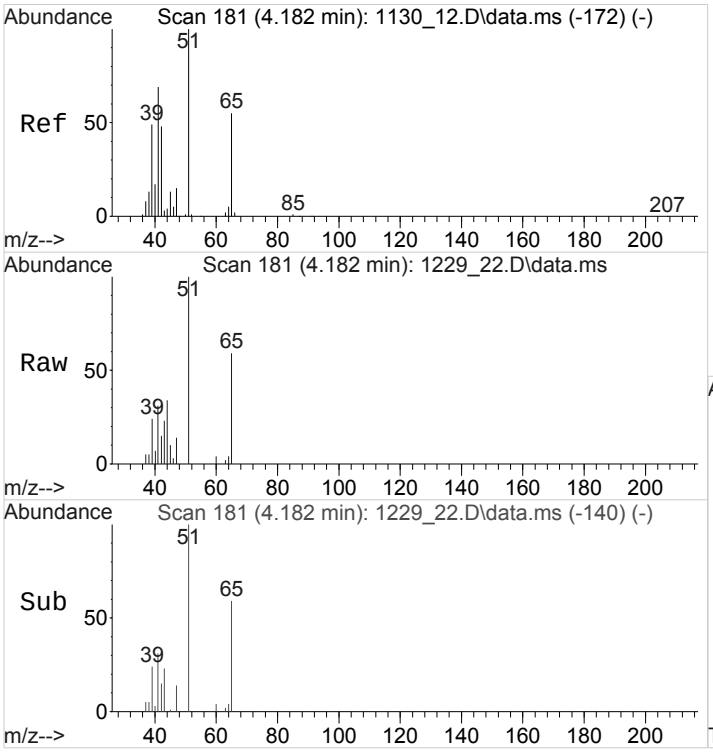


#3
BUTANE
Concen: 0.3382034 ppbv
RT: 4.572 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 43 Resp: 2304

Ion	Ratio	Lower	Upper
43	100		
58	9.5	8.0	12.0

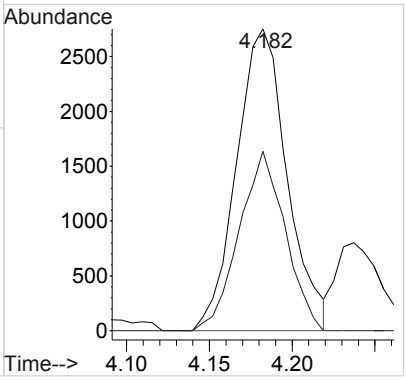


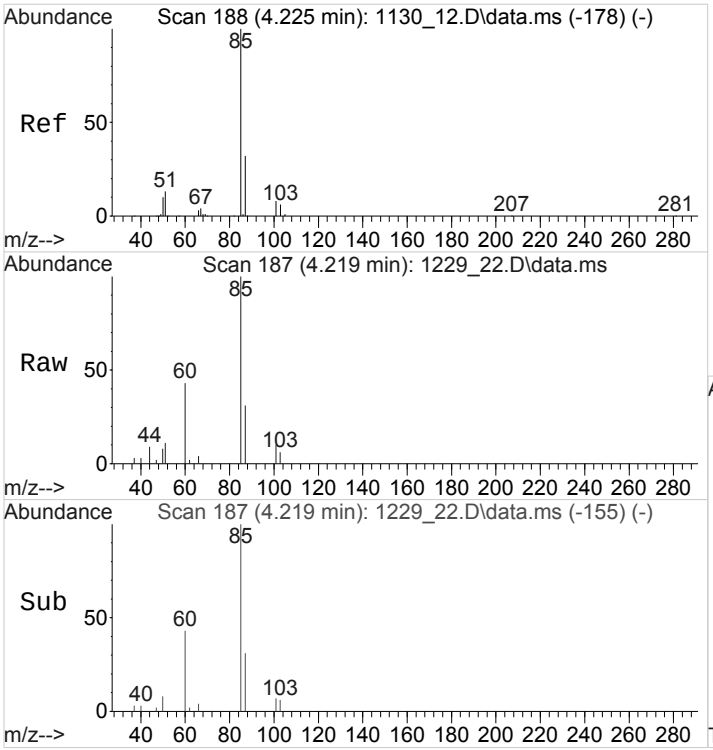


#4
1,1-DIFLUOROETHANE
Concen: 1.0032475 ppbv
RT: 4.182 min Scan# 181
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 51 Resp: 5873

Ion	Ratio	Lower	Upper
51	100		
65	53.8	44.1	66.1

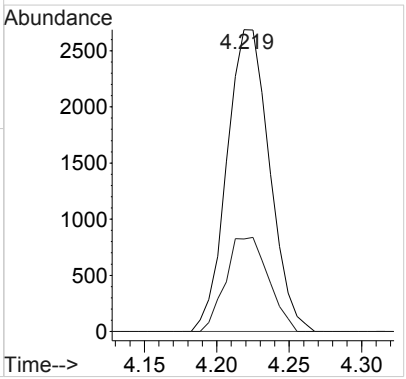


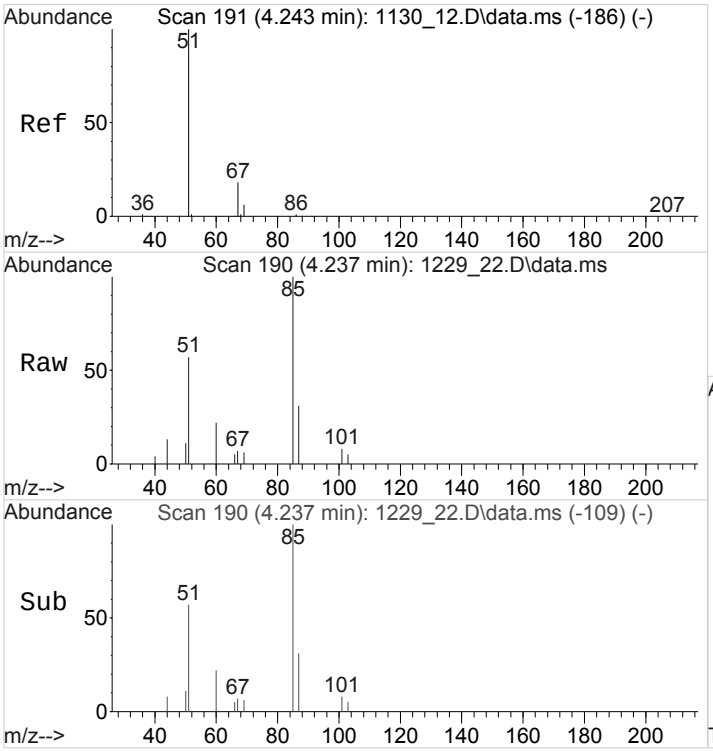


#5
Dichlorodifluoromethane
Concen: 0.4360030 ppbv
RT: 4.219 min Scan# 187
Delta R.T. -0.006 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 85 Resp: 5492

Ion	Ratio	Lower	Upper
85	100		
87	31.3	25.8	38.6

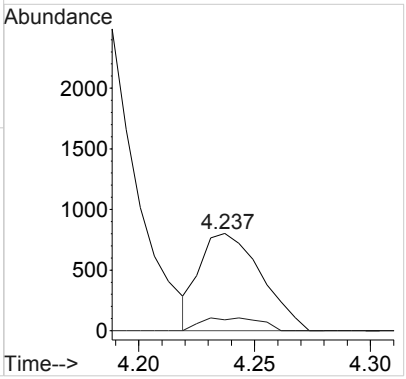


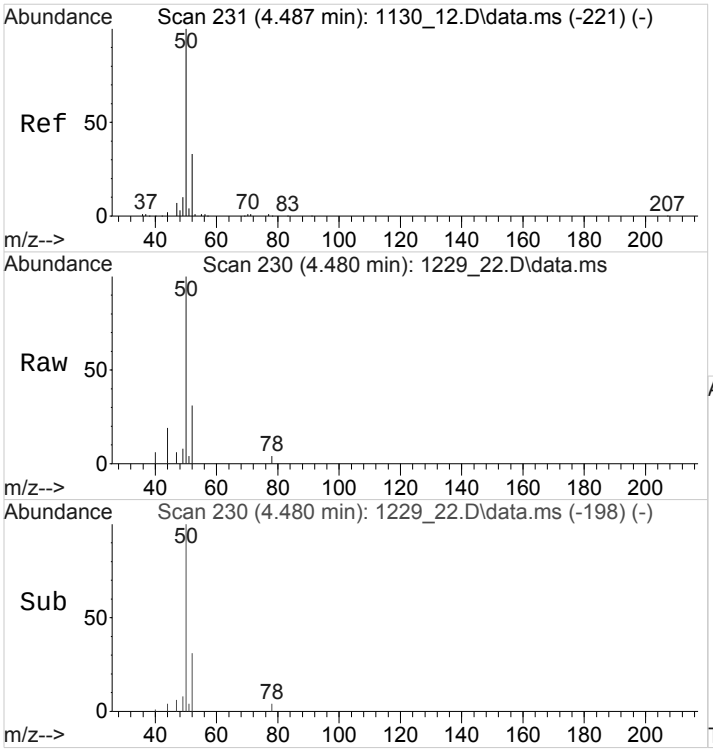


#6
CHLORODIFLUOROMETHANE
Concen: 0.2085968 ppbv
RT: 4.237 min Scan# 190
Delta R.T. -0.006 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 51 Resp: 1481

Ion	Ratio	Lower	Upper
51	100		
67	12.8	13.0	19.4#

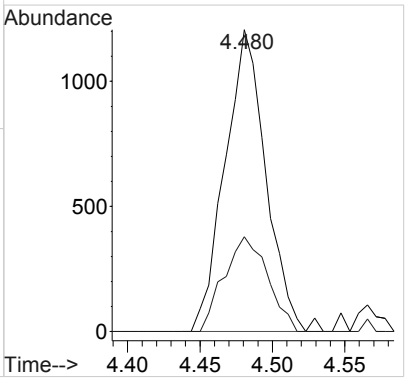


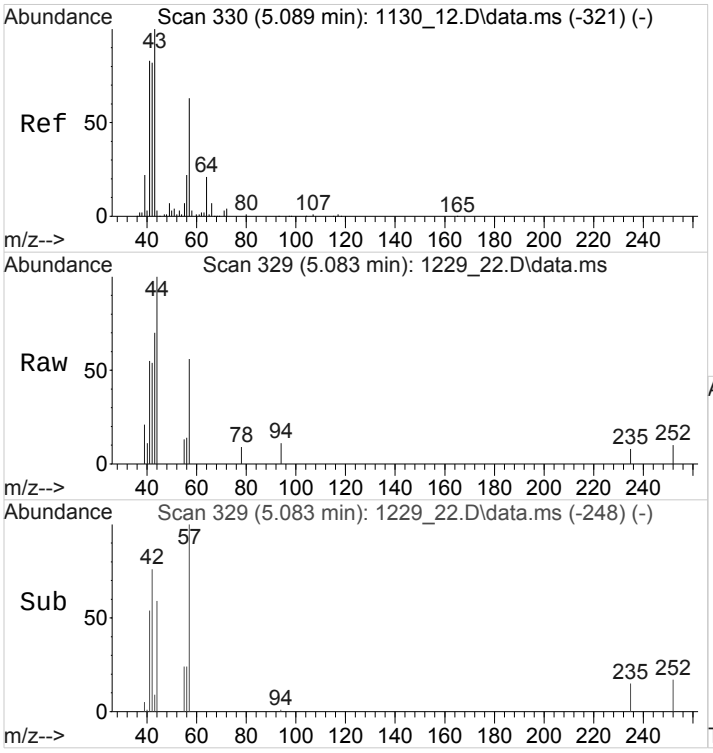


#8
Chloromethane
Concen: 0.5229492 ppbv
RT: 4.480 min Scan# 230
Delta R.T. -0.006 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 50 Resp: 2368

Ion	Ratio	Lower	Upper
50	100		
52	33.5	27.1	40.7

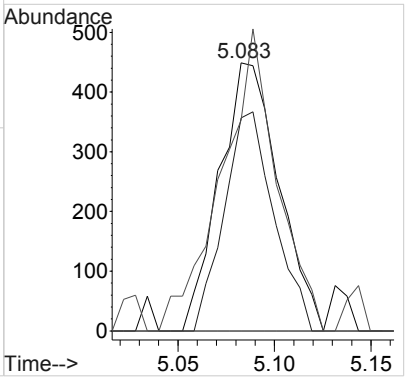




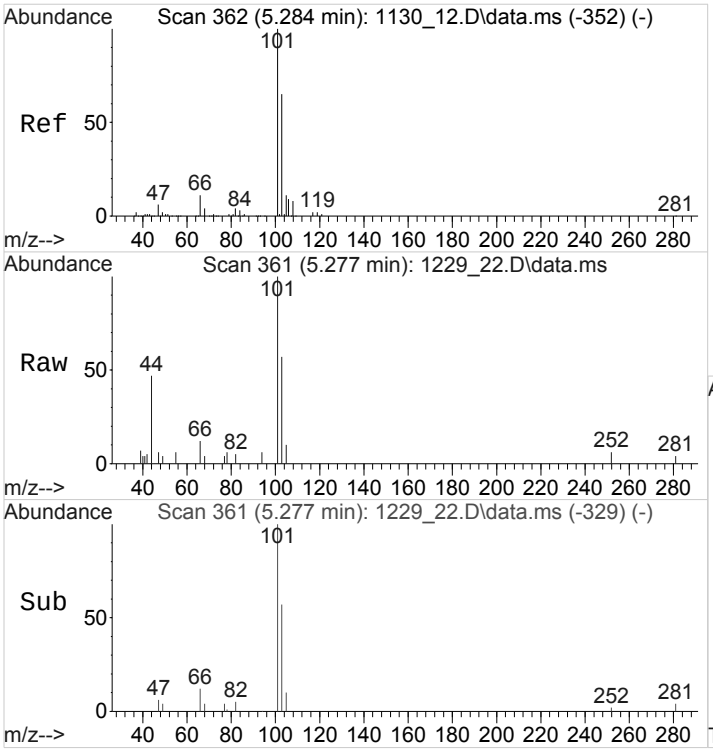
#13
ISOPENTANE
Concen: 0.2055035 ppbv
RT: 5.083 min Scan# 329
Delta R.T. -0.006 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 43 Resp: 967

Ion	Ratio	Lower	Upper
43	100		
57	68.1	51.7	77.5
41	104.3	66.4	99.6#
72	0.0	3.2	4.8#



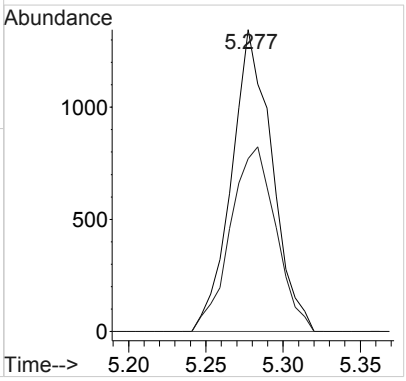
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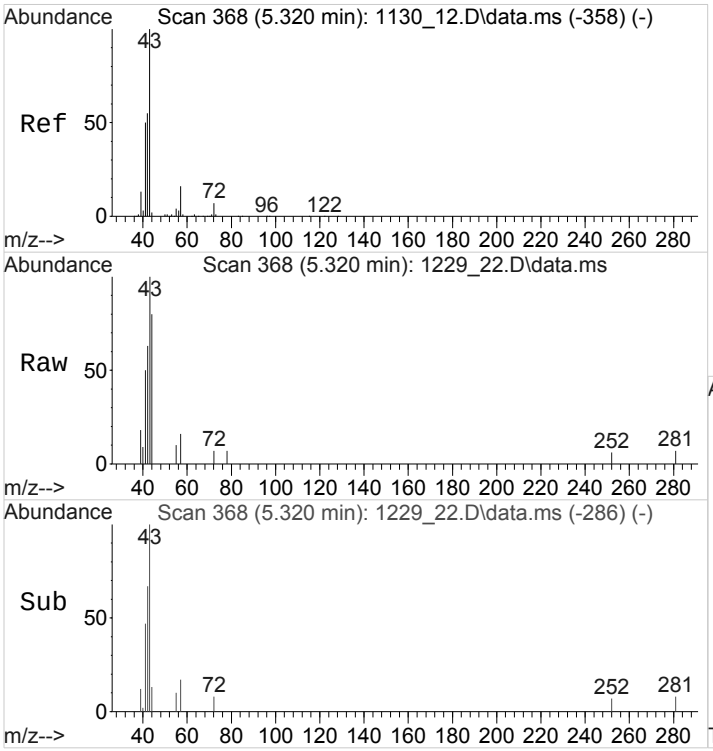


#15
Trichlorofluoromethane
Concen: 0.2333932 ppbv
RT: 5.277 min Scan# 361
Delta R.T. -0.006 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion:101 Resp: 2461

Ion	Ratio	Lower	Upper
101	100		
103	68.7	52.8	79.2

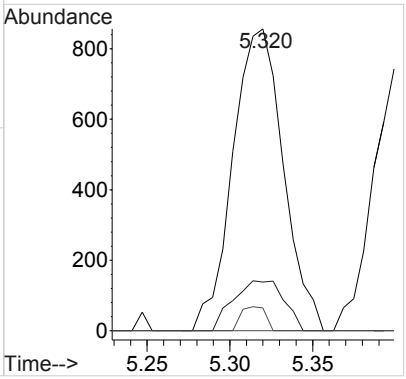




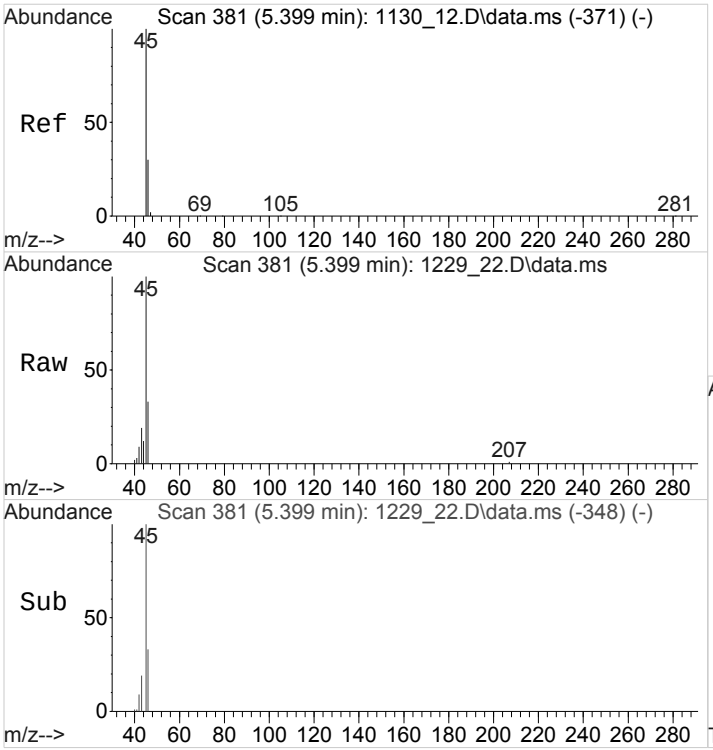
#16
PENTANE
Concen: 0.1884511 ppbv
RT: 5.320 min Scan# 368
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 43 Resp: 1824

Ion	Ratio	Lower	Upper
43	100		
57	16.5	13.0	19.4
72	3.8	5.8	8.8#



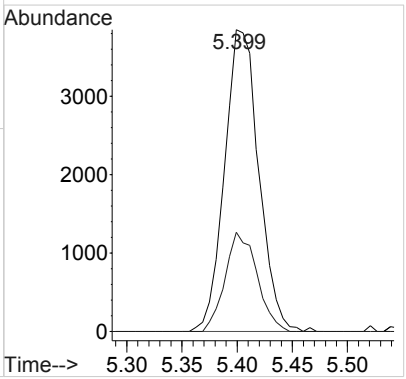
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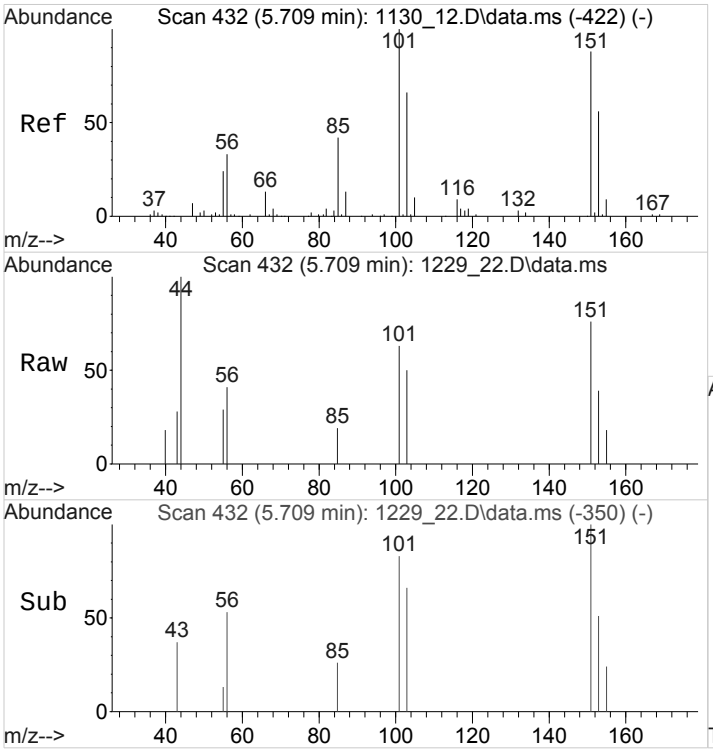


#17
Ethanol
Concen: 3.5048481 ppbv
RT: 5.399 min Scan# 381
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 45 Resp: 8353

Ion	Ratio	Lower	Upper
45	100		
46	30.7	23.6	35.4

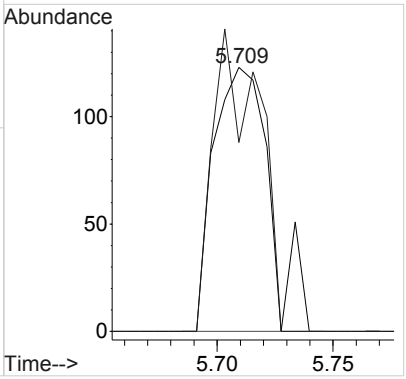


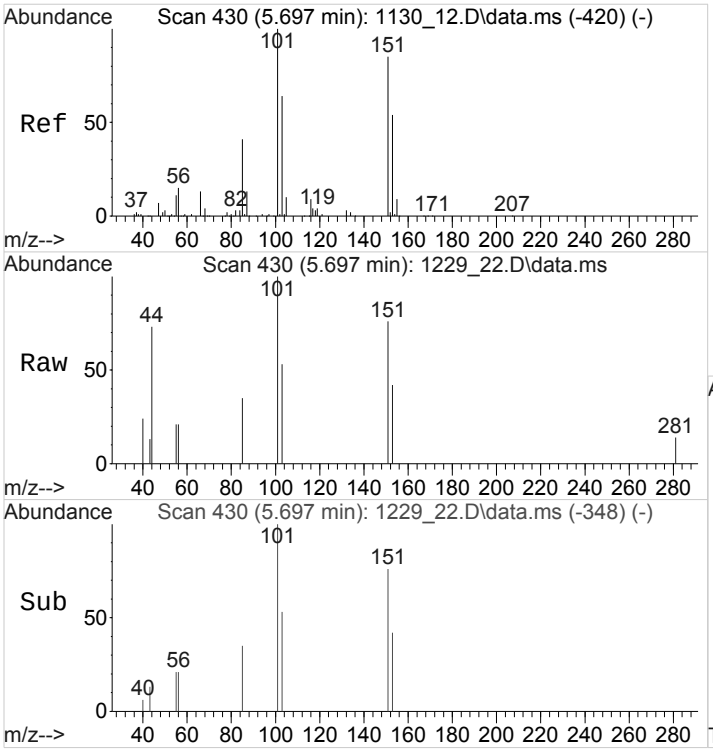


#18
ACROLEIN
Concen: 0.0935655 ppbv
RT: 5.709 min Scan# 432
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 56 Resp: 207

Ion	Ratio	Lower	Upper
56	100		
55	94.2	60.4	90.6#

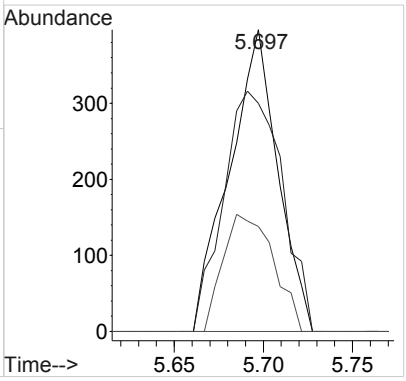


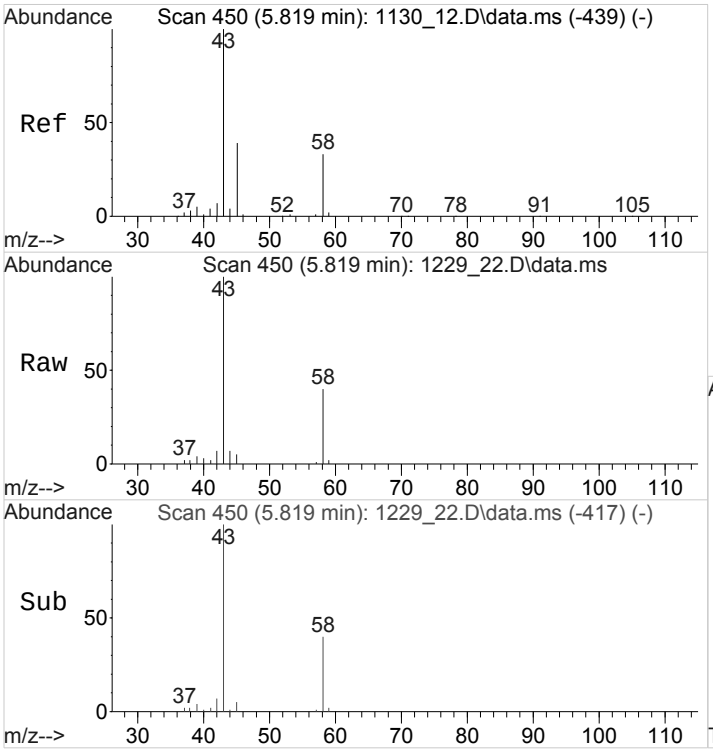


#19
1,1,2-Trichlorotrifluoroethane
Concen: 0.0659196 ppbv
RT: 5.697 min Scan# 430
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion:101 Resp: 752

Ion	Ratio	Lower	Upper
101	100		
151	96.1	67.4	101.2
85	40.3	34.4	51.6

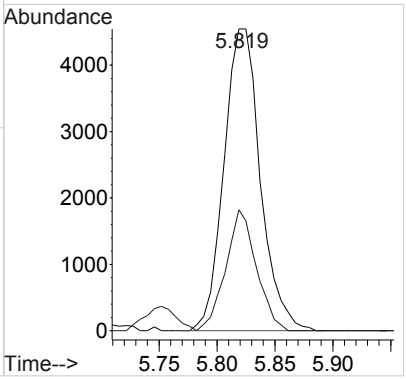




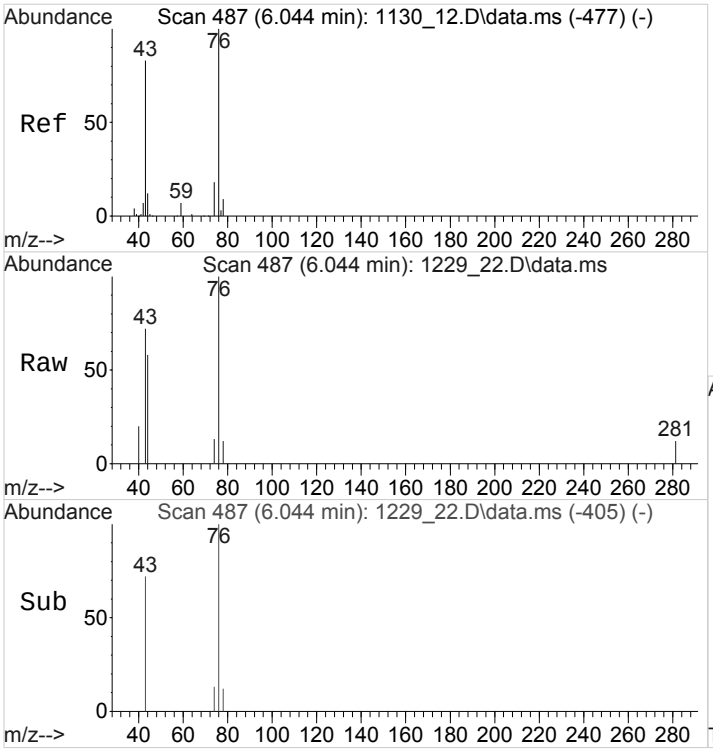
#21
Acetone
Concen: 1.2208542 ppbv
RT: 5.819 min Scan# 450
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 43 Resp: 9946

Ion	Ratio	Lower	Upper
43	100		
58	33.7	23.1	34.7



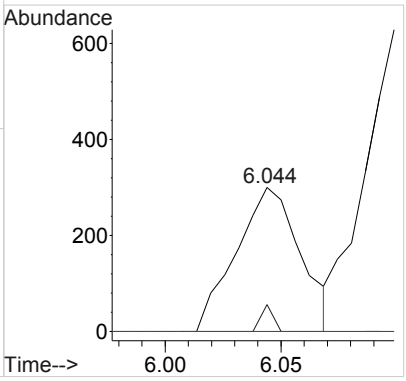
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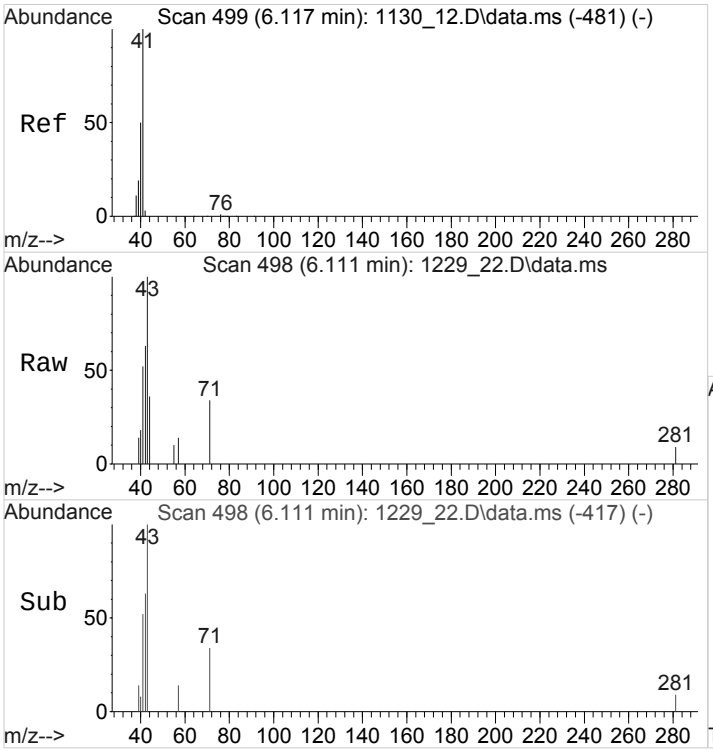


#26
METHYL ACETATE
Concen: 0.0639701 ppbv
RT: 6.044 min Scan# 487
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 43 Resp: 579

Ion	Ratio	Lower	Upper
43	100		
74	3.5	17.4	26.0#
29	0.0	0.0	0.0

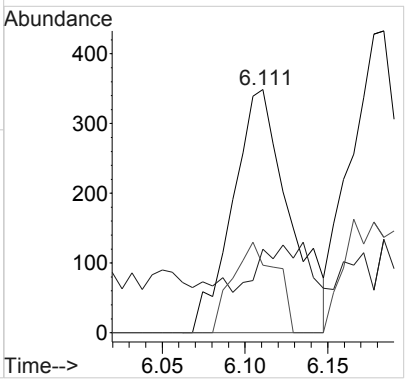


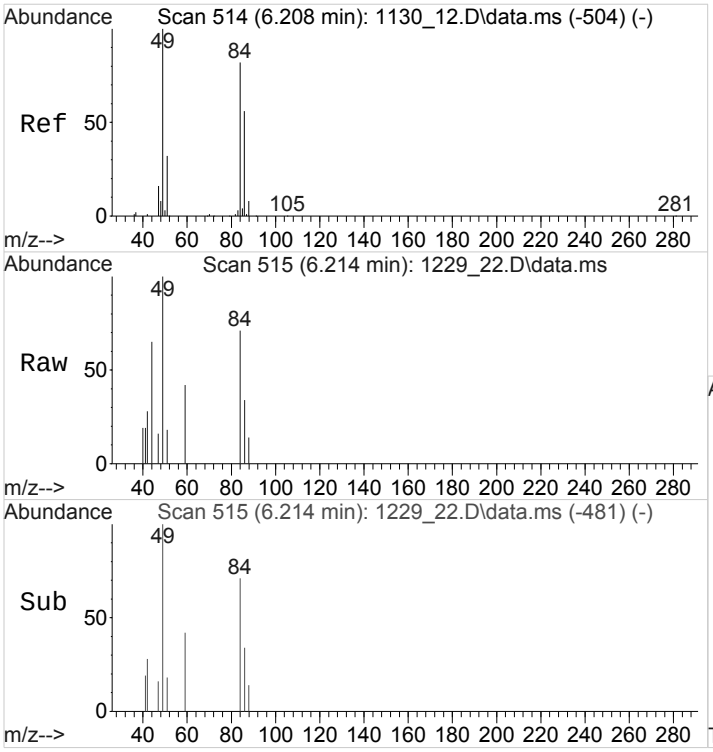


#27
ACETONITRILE
Concen: 0.1658593 ppbv
RT: 6.111 min Scan# 498
Delta R.T. -0.006 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 41 Resp: 835

Ion	Ratio	Lower	Upper
41	100		
40	15.8	32.7	49.1#
39	28.6	22.7	34.1

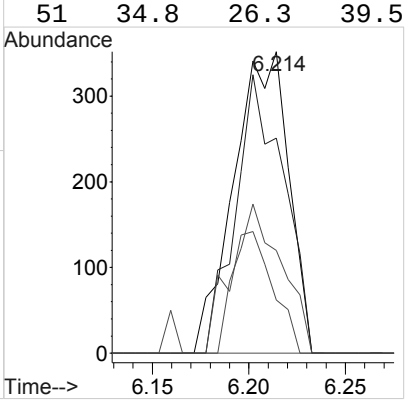


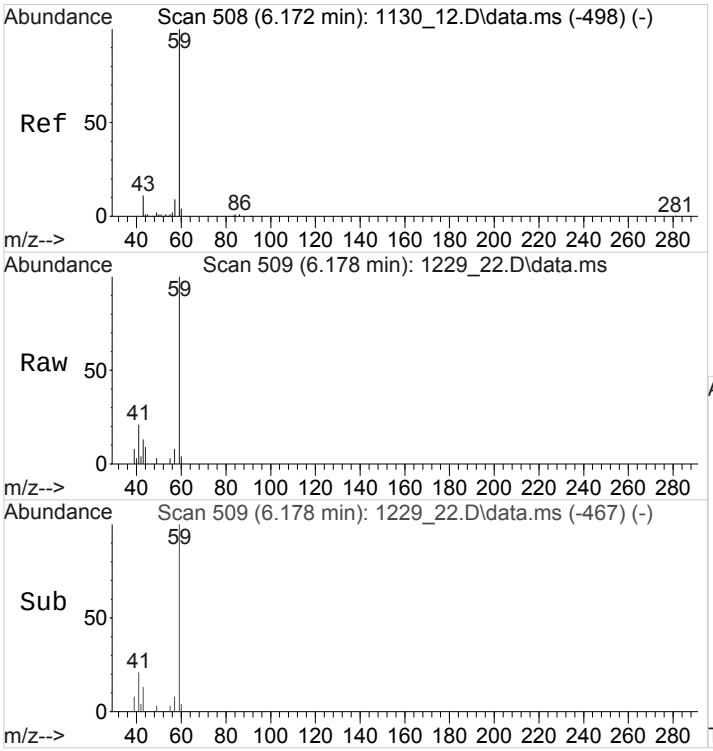


#28
Methylene Chloride
Concen: 0.1232171 ppbv
RT: 6.214 min Scan# 515
Delta R.T. 0.006 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 49 Resp: 692

Ion	Ratio	Lower	Upper
49	100		
84	80.9	65.0	97.6
86	41.3	41.8	62.6#
51	34.8	26.3	39.5

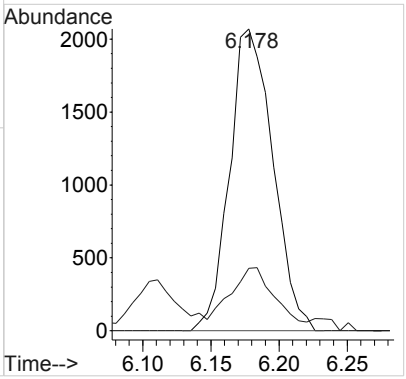


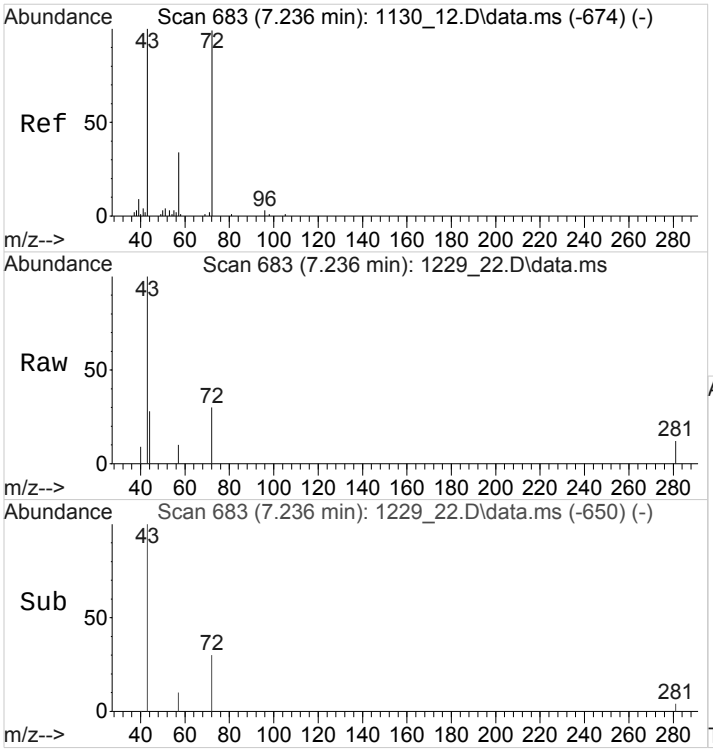


#29
TERT-BUTYL ALCOHOL
Concen: 0.4817165 ppbv
RT: 6.178 min Scan# 509
Delta R.T. 0.006 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 59 Resp: 4562

Ion	Ratio	Lower	Upper
59	100		
41	22.4	216.4	324.6#

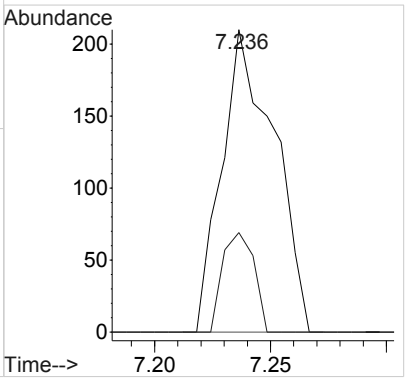


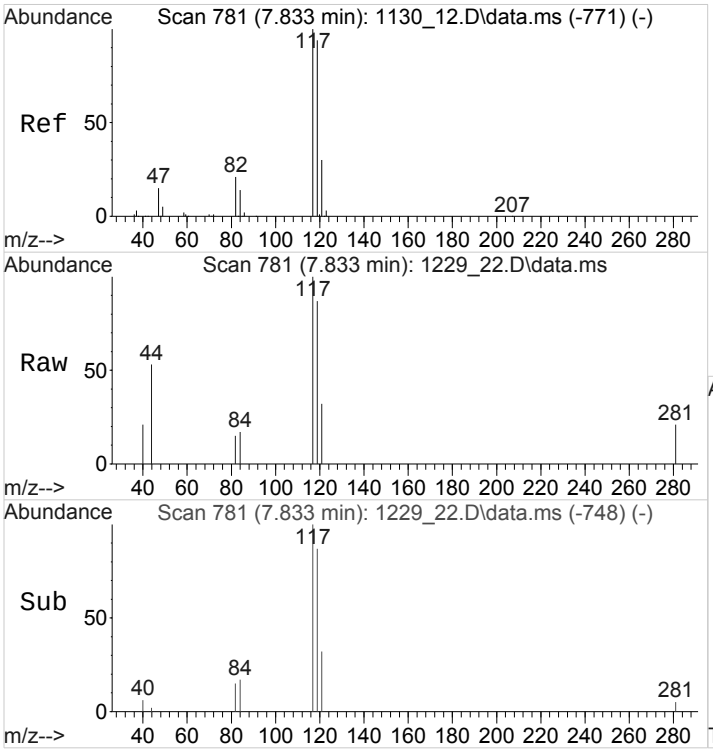


#39
2-Butanone (MEK)
Concen: 0.1324812 ppbv
RT: 7.236 min Scan# 683
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 72 Resp: 330

Ion	Ratio	Lower	Upper
72	100		
57	19.7	27.3	40.9#

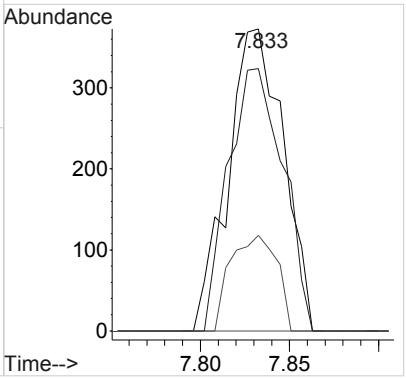




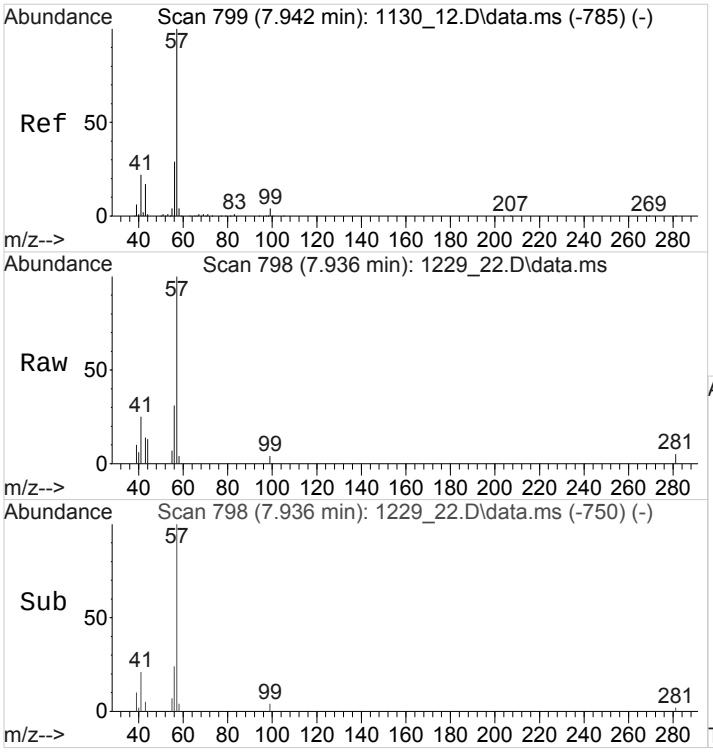
#45
Carbon Tetrachloride
Concen: 0.0680609 ppbv
RT: 7.833 min Scan# 781
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion:117 Resp: 801

Ion	Ratio	Lower	Upper
117	100		
119	86.4	77.3	115.9
121	26.6	25.0	37.4



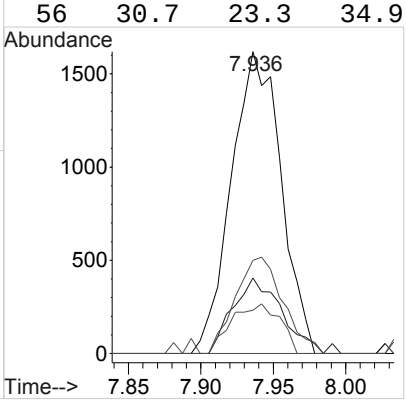
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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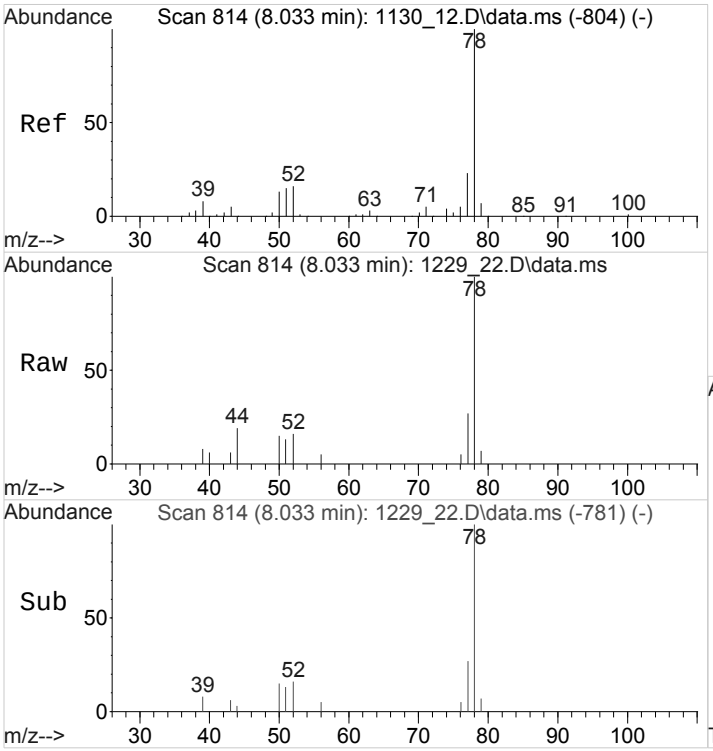


#46
2,2,4-Trimethylpentane
Concen: 0.1548267 ppbv
RT: 7.936 min Scan# 798
Delta R.T. -0.006 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 57 Resp: 3856

Ion	Ratio	Lower	Upper
57	100		
41	25.1	18.2	27.2
43	16.0	13.3	19.9
56	30.7	23.3	34.9

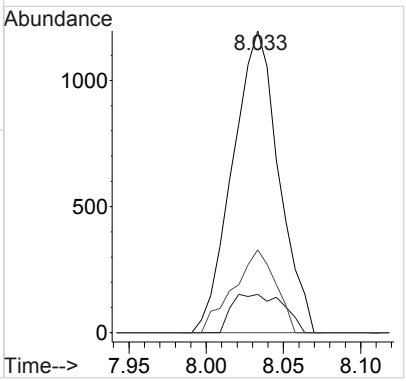


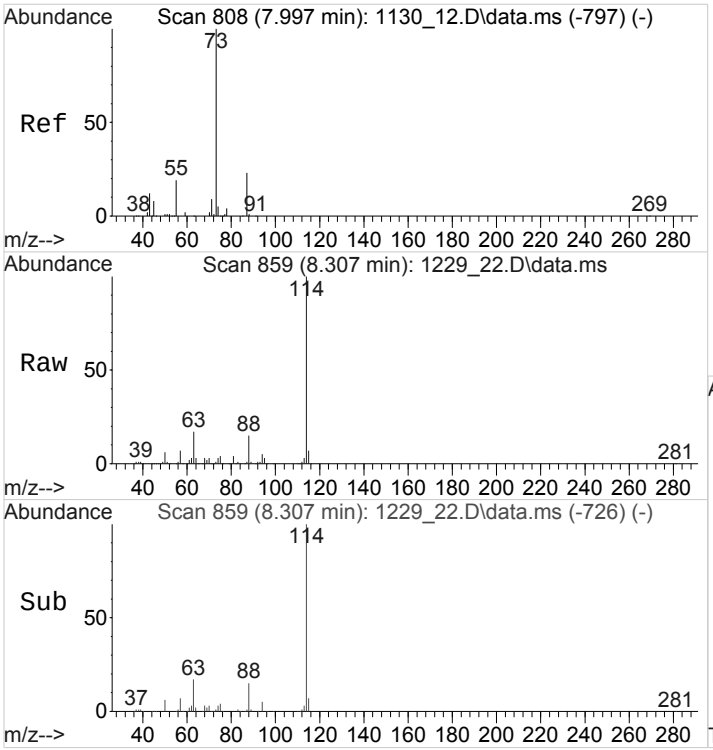


#48
Benzene
Concen: 0.1656729 ppbv
RT: 8.033 min Scan# 814
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 78 Resp: 2491

Ion	Ratio	Lower	Upper
78	100		
51	14.3	12.1	18.1
77	25.1	18.8	28.2

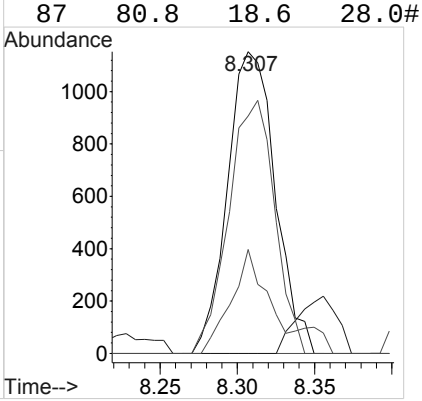


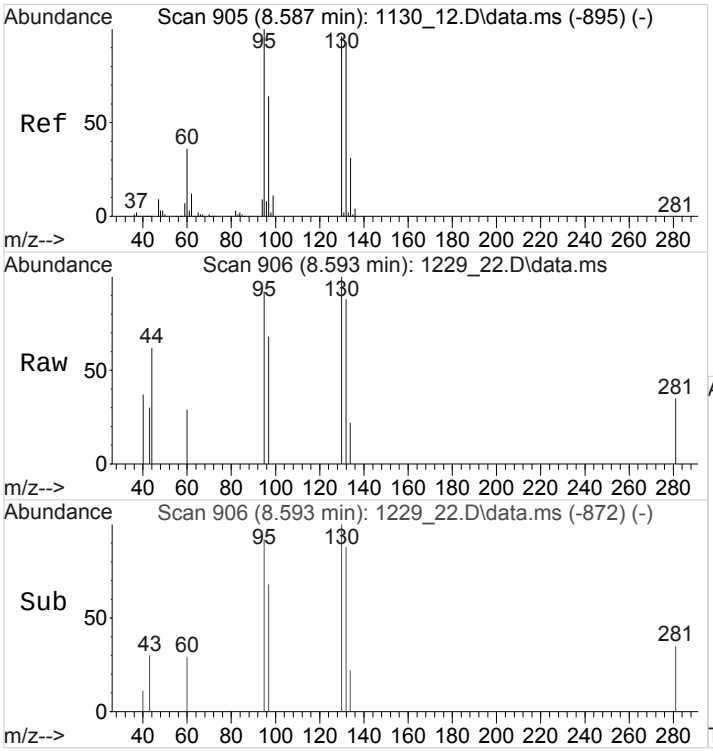


#49
TERT-AMYL METHYL ETHER
Concen: 0.1679268 ppbv
RT: 8.307 min Scan# 859
Delta R.T. 0.310 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 73 Resp: 2485

Ion	Ratio	Lower	Upper
73	100		
43	15.7	24.9	37.3#
55	27.0	18.8	28.2
87	80.8	18.6	28.0#

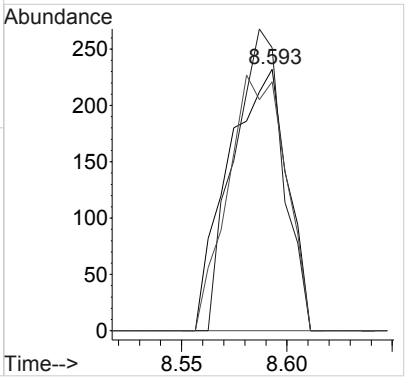




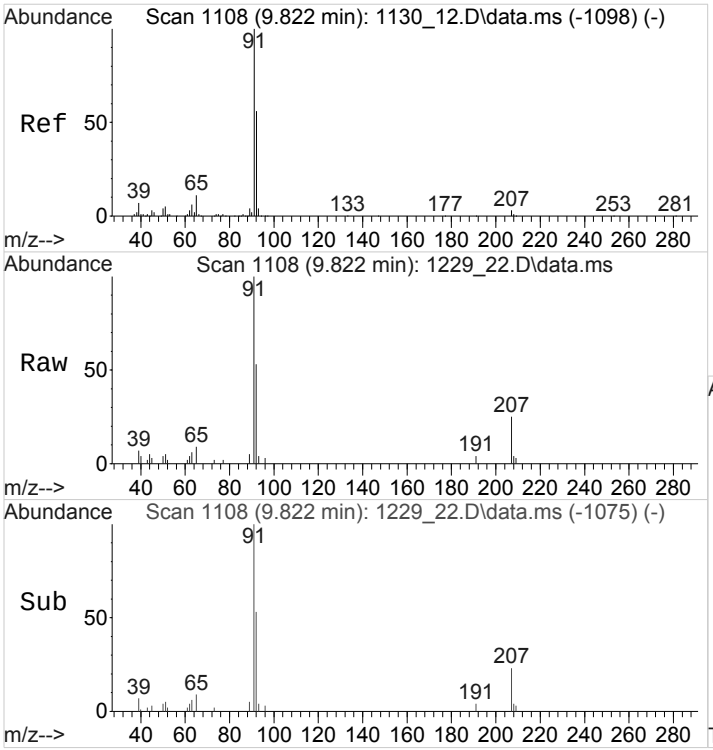
#52
Trichloroethene
Concen: 0.0618946 ppbv
RT: 8.593 min Scan# 906
Delta R.T. 0.006 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 95 Resp: 455

Ion	Ratio	Lower	Upper
95	100		
130	95.4	76.9	115.3
132	94.9	73.3	109.9



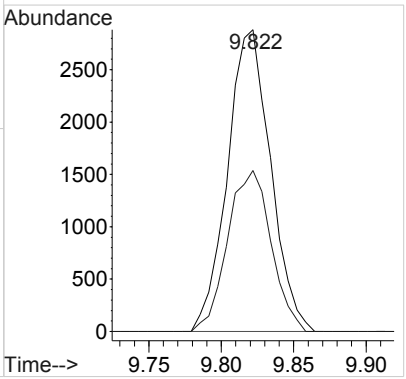
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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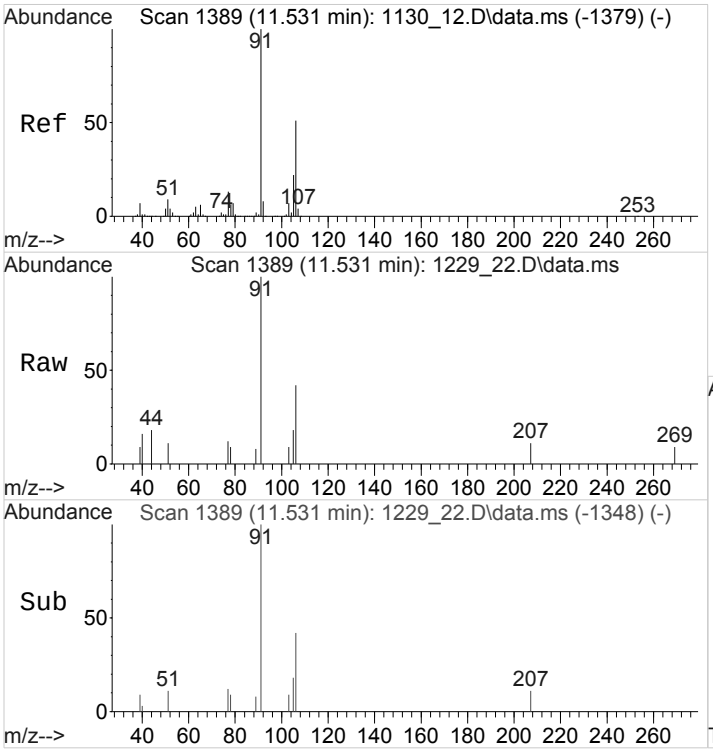


#62
Toluene
Concen: 0.3092040 ppbv
RT: 9.822 min Scan# 1108
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 91 Resp: 5958

Ion	Ratio	Lower	Upper
91	100		
92	53.7	44.1	66.1

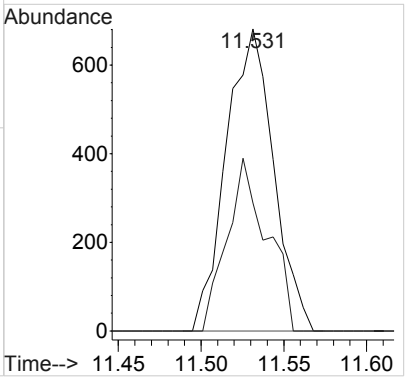




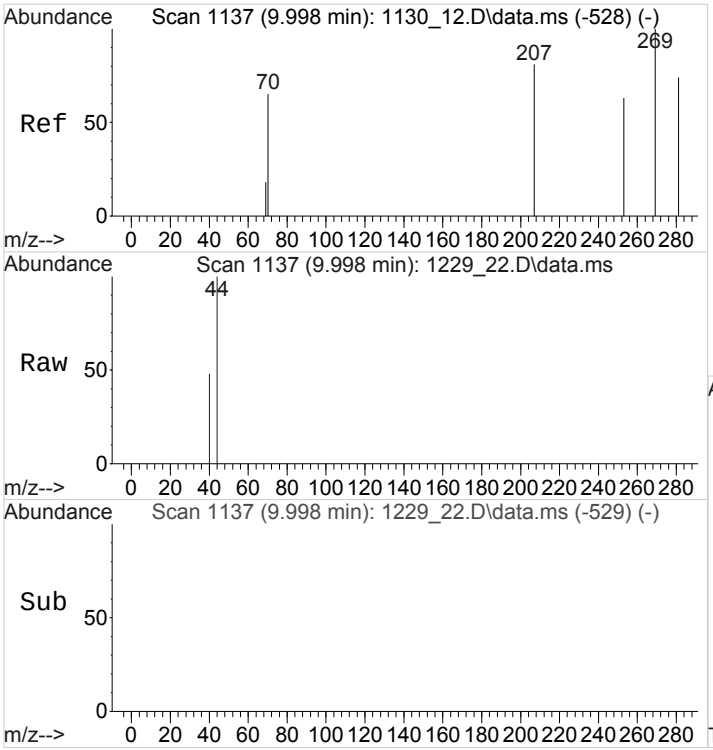
#73
M&P-Xylene
Concen: 0.0789640 ppbv
RT: 11.531 min Scan# 1389
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion: 91 Resp: 1363

Ion	Ratio	Lower	Upper
91	100		
106	48.2	39.7	59.5

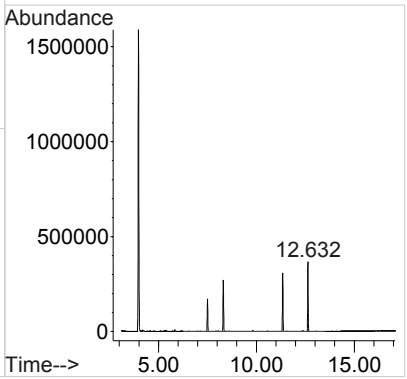


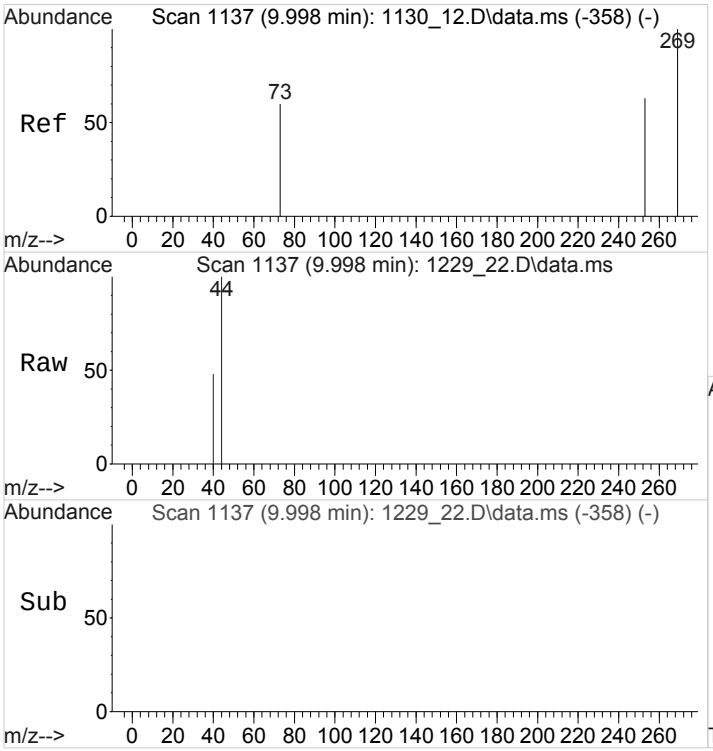
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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#101
TPH (GC/MS) Low Fraction
Concen: 5.6594059 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

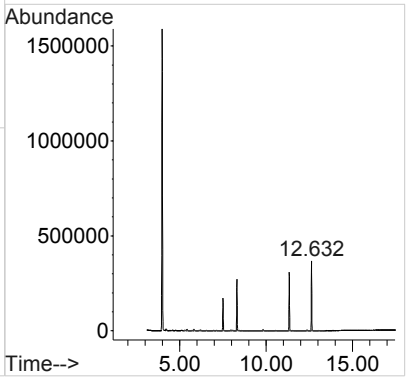
Tgt Ion:TIC Resp: 193487





#102
TPH-GRO (C5-C10)
Concen: 9.7194415 ppbv m
RT: 10.000 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 1229_22.D
Acq: 30 Dec 2022 1:56 am

Tgt Ion:TIC Resp: 280435



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	228 of 500

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1570581 **Analytical Method:** TO-15

Instrument ID: AIRMS4

Analyte	RRF: 0.19	RRF: 0.31	RRF: 0.63	RRF: 1.25	RRF: 2.5	RRF: 3.75	RRF: 10	RRF: 25	RRF: 50	RRF: 100
Analysis date/time	11/30/22 18:49	11/30/22 19:29	11/30/22 20:09	11/30/22 20:50	11/30/22 21:31	11/30/22 22:14	11/30/22 22:55	11/30/22 23:36	12/01/22 00:21	12/01/22 01:11
DICHLORODIFLUOROMETHANE	0.62	0.6840	0.6830	0.7130	0.7040	0.7160	0.7230	0.7140	0.6750	0.5540
CHLOROMETHANE	0.2110	0.2410	0.2430	0.2510	0.2550	0.2470	0.2560	0.2480	0.2440	0.2420
VINYL CHLORIDE	0.20	0.2280	0.2480	0.2420	0.2550	0.2450	0.2530	0.2460	0.2370	0.2280
1,3-BUTADIENE	0.1460	0.1670	0.1720	0.1730	0.1570	0.1570	0.1620	0.1560	0.15	0.1420
BROMOMETHANE	0.2510	0.23	0.2320	0.2270	0.2310	0.2320	0.2350	0.2330	0.2230	0.2220
CHLOROETHANE	0.12	0.1130	0.1050	0.10	0.0960	0.0980	0.0980	0.0950	0.0920	0.09
TRICHLOROFLUOROMETHANE	0.5110	0.5510	0.5820	0.5910	0.59	0.5910	0.6030	0.5880	0.5550	0.52
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5480	0.6030	0.6260	0.6420	0.6490	0.6430	0.6460	0.6190	0.6030	0.5680
1,1-DICHLOROETHENE	0.39	0.4290	0.4340	0.4610	0.4630	0.4560	0.4660	0.4460	0.4280	0.4280
ACETONE	0.5680	0.4860	0.47	0.4430	0.4280	0.4320	0.4140	0.3920	0.3810	0.3750
CARBON DISULFIDE	1.2830	1.1910	1.1150	1.0950	1.0730	1.0520	1.06	1.0260	0.99	0.9750
METHYLENE CHLORIDE	0.3080	0.3170	0.3110	0.3060	0.3050	0.31	0.3060	0.2920	0.2850	0.2860
METHYL TERT-BUTYL ETHER	0.6240	0.68	0.6990	0.7140	0.7080	0.7070	0.7030	0.7040	0.6880	0.7010
TRANS-1,2-DICHLOROETHENE	0.3870	0.4240	0.4380	0.4540	0.4510	0.4560	0.4560	0.4440	0.4320	0.4360
1,1-DICHLOROETHANE	0.4820	0.53	0.5410	0.5560	0.5650	0.5570	0.5610	0.5420	0.5320	0.53
VINYL ACETATE	0.6090	0.6340	0.6640	0.67	0.6850	0.6680	0.6350	0.6310	0.6150	0.6240
2-BUTANONE (MEK)	0.1350	0.1260	0.13	0.1390	0.1370	0.1390	0.1370	0.1340	0.1320	0.1350
CIS-1,2-DICHLOROETHENE	0.37	0.4020	0.4280	0.4350	0.4270	0.4350	0.4290	0.42	0.4120	0.4090
CHLOROFORM	0.5690	0.5750	0.6110	0.5880	0.60	0.59	0.5980	0.5810	0.5730	0.5680
1,1,1-TRICHLOROETHANE	0.56	0.5750	0.5970	0.6010	0.6130	0.6080	0.6150	0.5990	0.5920	0.5880
CARBON TETRACHLORIDE	0.5450	0.5990	0.64	0.6550	0.6530	0.6550	0.6630	0.6530	0.6370	0.6420
BENZENE	0.2150	0.2280	0.2370	0.2340	0.2380	0.2380	0.2340	0.2190	0.2130	0.20
1,2-DICHLOROETHANE	0.07	0.0790	0.0880	0.09	0.0890	0.09	0.0880	0.0830	0.0810	0.0770
TRICHLOROETHENE	0.1010	0.1070	0.1110	0.1140	0.1120	0.1160	0.1140	0.1120	0.1090	0.1060
1,2-DICHLOROPROPANE	0.0850	0.0850	0.0980	0.0990	0.0980	0.10	0.0980	0.0950	0.0910	0.0880
BROMODICHLOROMETHANE	0.1630	0.1710	0.1750	0.1740	0.1750	0.1810	0.1790	0.1770	0.17	0.1650
CIS-1,3-DICHLOROPROPENE	0.1260	0.1360	0.15	0.1510	0.1550	0.1560	0.1570	0.1550	0.1510	0.1490
4-METHYL-2-PENTANONE (MIBK)	0.1540	0.1590	0.1640	0.1650	0.1630	0.1650	0.1690	0.1630	0.1570	0.1510
TOLUENE	0.2740	0.2870	0.2950	0.3050	0.3010	0.3070	0.2980	0.2860	0.2770	0.2610
TRANS-1,3-DICHLOROPROPENE	0.1170	0.1180	0.13	0.1310	0.1340	0.1380	0.1370	0.1330	0.1340	0.13
1,1,2-TRICHLOROETHANE	0.1010	0.1070	0.11	0.1110	0.1110	0.1120	0.1110	0.1110	0.1070	0.1010
TETRACHLOROETHENE	0.1320	0.1430	0.1460	0.1490	0.1490	0.1510	0.1530	0.1470	0.1410	0.1320
METHYL BUTYL KETONE	0.1410	0.1470	0.1460	0.1490	0.15	0.1530	0.16	0.1540	0.1450	0.1360
CHLORODIBROMOMETHANE	0.1750	0.1840	0.20	0.2030	0.21	0.2140	0.2160	0.2150	0.2080	0.1970
1,2-DIBROMOETHANE	0.1540	0.1610	0.1770	0.1780	0.1830	0.1840	0.1830	0.18	0.1760	0.1690
CHLOROBENZENE	0.1920	0.20	0.2230	0.2230	0.2260	0.23	0.2270	0.2210	0.2070	0.1890
ETHYLBENZENE	0.3610	0.3840	0.39	0.3860	0.3960	0.3920	0.4040	0.38	0.37	0.3680
M&P-XYLENE	0.2860	0.2960	0.31	0.3120	0.3120	0.3090	0.3160	0.2980	0.2920	0.2690
O-XYLENE	0.3120	0.2980	0.3140	0.3240	0.3250	0.3210	0.3320	0.3160	0.3150	0.3090
STYRENE	0.2380	0.2340	0.2540	0.2550	0.2650	0.2640	0.27	0.2580	0.2530	0.2430
BROMOFORM	0.1940	0.1990	0.2120	0.2140	0.2240	0.2220	0.2340	0.2370	0.2420	0.2480
1,1,2,2-TETRACHLOROETHANE	0.2450	0.2440	0.2530	0.2570	0.2660	0.2620	0.2680	0.2590	0.2560	0.2480
4-ETHYLTOLUENE	0.3690	0.3840	0.3940	0.4060	0.4240	0.4140	0.4190	0.4050	0.3890	0.3730
1,3,5-TRIMETHYLBENZENE	0.3160	0.3320	0.3450	0.3460	0.3570	0.3470	0.3470	0.3220	0.3040	0.2610
1,2,4-TRIMETHYLBENZENE	0.2990	0.3280	0.3310	0.3250	0.3440	0.3350	0.3340	0.3140	0.3010	0.2870
1,3-DICHLOROBENZENE	0.1540	0.1560	0.1780	0.1990	0.2120	0.2120	0.2250	0.2170	0.2140	0.21
1,4-DICHLOROBENZENE	0.1360	0.1420	0.1680	0.1990	0.2050	0.2060	0.21	0.2030	0.1930	0.1790
BENZYL CHLORIDE	0.1620	0.1710	0.1880	0.1980	0.2220	0.2360	0.2510	0.26	0.2480	0.2580
1,2-DICHLOROBENZENE	0.1620	0.1730	0.1780	0.1930	0.2130	0.2070	0.2130	0.2090	0.2060	0.2010
HEXACHLORO-1,3-BUTADIENE	0.1680	0.1670	0.17	0.1750	0.1810	0.1810	0.1810	0.1840	0.1770	0.1590

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1570581 **Analytical Method:** TO-15

Instrument ID: AIRMS4

Analyte	**RRF: 0.19**	**RRF: 0.31**	**RRF: 0.63**	**RRF: 1.25**	**RRF: 2.5**	**RRF: 3.75**	**RRF: 10**	**RRF: 25**	**RRF: 50**	**RRF: 100**
Analysis date/time	11/30/22 18:49	11/30/22 19:29	11/30/22 20:09	11/30/22 20:50	11/30/22 21:31	11/30/22 22:14	11/30/22 22:55	11/30/22 23:36	12/01/22 00:21	12/01/22 01:11
NAPHTHALENE	0.1490	0.1410	0.1620	0.1910	0.2110	0.22	0.2450	0.2760	0.2750	0.2610
1,4-BROMOFLUOROBENZENE	0.6520	0.6580	0.6510	0.6590	0.6670	0.6560	0.6790	0.70	0.7170	0.7860
1,2,4-TRICHLOROBENZENE		0.0550	0.0620	0.0730	0.0840	0.0910	0.1030	0.1230		
File ID:	1130_07	1130_08	1130_09	1130_10	1130_11	1130_12	1130_13	1130_14	1130_15	1130_16

GC/MS INITIAL CALIBRATION DATA

SDG: L1570581 **Analytical Method:** TO-15

Instrument ID: AIRMS4

Analyte	RRF. Avg	%RSD	COD
Analysis date/time			
DICHLORODIFLUOROMETHANE	0.678668	7.84	
CHLOROMETHANE	0.243971	5.15	
VINYL CHLORIDE	0.238124	6.84	
1,3-BUTADIENE	0.158135	6.68	
BROMOMETHANE	0.231613	3.44	
CHLOROETHANE	0.100712	9.33	
TRICHLOROFLUOROMETHANE	0.568119	5.67	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.614638	5.63	
1,1-DICHLOROETHENE	0.440043	5.29	
ACETONE	0.438936	13.21	
CARBON DISULFIDE	1.086114	8.57	
METHYLENE CHLORIDE	0.302588	3.62	
METHYL TERT-BUTYL ETHER	0.692781	3.77	
TRANS-1,2-DICHLOROETHENE	0.437681	4.75	
1,1-DICHLOROETHANE	0.539493	4.49	
VINYL ACETATE	0.643468	4.03	
2-BUTANONE (MEK)	0.134207	3.14	
CIS-1,2-DICHLOROETHENE	0.416728	4.76	
CHLOROFORM	0.58541	2.5	
1,1,1-TRICHLOROETHANE	0.59481	2.88	
CARBON TETRACHLORIDE	0.63409	5.67	
BENZENE	0.22565	5.9	
1,2-DICHLOROETHANE	0.0836	8.01	
TRICHLOROETHENE	0.110324	4.17	
1,2-DICHLOROPROPANE	0.093712	6.43	
BROMODICHLOROMETHANE	0.172982	3.38	
CIS-1,3-DICHLOROPROPENE	0.148616	6.64	
4-METHYL-2-PENTANONE (MIBK)	0.160994	3.5	
TOLUENE	0.28918	5.2	
TRANS-1,3-DICHLOROPROPENE	0.130125	5.42	
1,1,2-TRICHLOROETHANE	0.108229	3.82	
TETRACHLOROETHENE	0.144296	5.12	
METHYL BUTYL KETONE	0.148178	4.66	
CHLORODIBROMOMETHANE	0.202168	6.77	
1,2-DIBROMOETHANE	0.174648	5.78	
CHLOROBENZENE	0.213731	7.26	
ETHYLBENZENE	0.382986	3.52	
M&P-XYLENE	0.300144	4.92	
O-XYLENE	0.316575	2.99	
STYRENE	0.253392	4.73	
BROMOFORM	0.222477	8.03	
1,1,2,2-TETRACHLOROETHANE	0.255829	3.18	
4-ETHYLTOLUENE	0.397759	4.74	
1,3,5-TRIMETHYLBENZENE	0.327719	8.8	
1,2,4-TRIMETHYLBENZENE	0.319933	5.85	
1,3-DICHLOROBENZENE	0.197736	13.07	
1,4-DICHLOROBENZENE	0.184073	14.75	
BENZYL CHLORIDE	0.219417	16.9	
1,2-DICHLOROBENZENE	0.195363	9.28	
HEXACHLORO-1,3-BUTADIENE	0.17424	4.63	
NAPHTHALENE	0.212862	24.03	

GC/MS INITIAL CALIBRATION DATA

SDG: L1570581 **Analytical Method:** TO-15

Instrument ID: AIRMS4

Analyte Analysis date/time	RRF. Avg	%RSD	COD
1,4-BROMOFLUOROBENZENE	0.682503	6.24	
1,2,4-TRICHLOROBENZENE	0.084459	28.21	

Response Factor Report AIRMS4

Method Path : C:\msdchem\1\methods\
Method File : TOAIRMS4K30V.m
Title : AIRMS4
Last Update : Thu Dec 01 08:21:50 2022
Response Via : Initial Calibration

Calibration Files
0.19=1130_07.D 0.31=1130_08.D 0.63=1130_09.D 1.25=1130_10.D 2.5 =1130_11.D 3.75=1130_12.D 10 =1130_13.D
25 =1130_14.D 50 =1130_15.D 100 =1130_16.D

		Compound	0.19	0.31	0.63	1.25	2.5	3.75	10	25	50	100	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------											
2)	T,M	Propene			0.306	0.269	0.237	0.218	0.208	0.205	0.202	0.198	0.230	16.66
3)	T	BUTANE	0.425	0.443	0.410	0.407	0.361	0.342	0.338	0.324	0.315	0.306	0.367	13.55
4)		1,1-DIFLUOROET...	0.317	0.325	0.317	0.320	0.317	0.318	0.314	0.310	0.307	0.310	0.315	1.76
5)	T,M	Dichlorodifluo...	0.620	0.684	0.683	0.713	0.704	0.716	0.723	0.714	0.675	0.554	0.679	7.84
6)		CHLORODIFLUORO...	0.341	0.370	0.386	0.383	0.401	0.394	0.398	0.399	0.384	0.369	0.383	4.81
7)	T,M	1,2-Dichlorote...	0.678	0.740	0.756	0.762	0.778	0.771	0.789	0.765	0.734	0.710	0.748	4.50
8)	T,M	Chloromethane	0.211	0.241	0.243	0.251	0.255	0.247	0.256	0.248	0.244	0.242	0.244	5.15
9)	T,M	Vinyl Chloride	0.200	0.228	0.248	0.242	0.255	0.245	0.253	0.246	0.237	0.228	0.238	6.84
10)	T,M	1,3-Butadiene	0.146	0.167	0.172	0.173	0.157	0.157	0.162	0.156	0.150	0.142	0.158	6.68
11)	T,M	Bromomethane	0.251	0.230	0.232	0.227	0.231	0.232	0.235	0.233	0.223	0.222	0.232	3.44
12)	T,M	Chloroethane	0.120	0.113	0.105	0.100	0.096	0.098	0.098	0.095	0.092	0.090	0.101	9.33
13)		ISOPENTANE	0.334	0.300	0.267	0.235	0.233	0.240	0.244	0.239	0.228	0.216	0.254	14.51
14)	T,M	Vinyl Bromide	0.253	0.237	0.238	0.236	0.235	0.234	0.238	0.233	0.222	0.214	0.234	4.40
15)	T,M	Trichlorofluor...	0.511	0.551	0.582	0.591	0.590	0.591	0.603	0.588	0.555	0.520	0.568	5.67
16)	T	PENTANE	0.904	0.720	0.541	0.490	0.450	0.443	0.445	0.429	0.405	0.388	0.521	31.59
17)	T,M	Ethanol			0.166	0.144	0.132	0.123	0.123	0.114	0.112	0.114	0.128	14.49
18)	T	ACROLEIN	0.127	0.132	0.124	0.119	0.124	0.119	0.117	0.112	0.111	0.106	0.119	6.72
19)	T,M	1,1,2-Trichlor...	0.548	0.603	0.626	0.642	0.649	0.643	0.646	0.619	0.603	0.568	0.615	5.63
20)	T,M	1,1-Dichloroet...	0.390	0.429	0.434	0.461	0.463	0.456	0.466	0.446	0.428	0.428	0.440	5.29
21)	T,M	Acetone	0.568	0.486	0.470	0.443	0.428	0.432	0.414	0.392	0.381	0.375	0.439	13.21
22)	T	BROMOETHANE	0.222	0.262	0.265	0.268	0.271	0.264	0.268	0.260	0.260	0.266	0.261	5.39
23)	T,M	2-Propanol	0.598	0.547	0.506	0.501	0.493	0.470	0.458	0.440	0.416	0.418	0.485	11.85
24)	T,M	Carbon Disulfide	1.283	1.191	1.115	1.095	1.073	1.052	1.060	1.026	0.990	0.975	1.086	8.57
25)	T,M	Allyl Chloride	0.275	0.377	0.255	0.246	0.355	0.360	0.371	0.351	0.320	0.303	0.321	15.27
26)		METHYL ACETATE	0.451	0.489	0.498	0.502	0.504	0.491	0.506	0.490	0.476	0.469	0.488	3.59
27)	T	ACETONITRILE	0.238	0.263	0.269	0.275	0.280	0.284	0.307	0.278	0.263	0.257	0.271	6.78
28)	T,M	Methylene Chlo...	0.308	0.317	0.311	0.306	0.305	0.310	0.306	0.292	0.285	0.286	0.303	3.62
29)		TERT-BUTYL ALC...	0.459	0.497	0.505	0.533	0.521	0.525	0.544	0.526	0.497	0.495	0.510	4.83
30)	T,M	Methyl Tert-Bu...	0.624	0.680	0.699	0.714	0.708	0.707	0.703	0.704	0.688	0.701	0.693	3.77
31)	T,M	Trans-1,2-Dich...	0.387	0.424	0.438	0.454	0.451	0.456	0.456	0.444	0.432	0.436	0.438	4.75
32)	T	ACRYLONITRILE	0.210	0.208	0.235	0.238	0.232	0.235	0.229	0.223	0.221	0.222	0.225	4.62
33)	T,M	n-Hexane	0.378	0.411	0.403	0.435	0.409	0.427	0.418	0.404	0.396	0.396	0.408	4.05
34)	T,M	1,1-Dichloroet...	0.482	0.530	0.541	0.556	0.565	0.557	0.561	0.542	0.532	0.530	0.539	4.49
35)	T,M	Vinyl Acetate	0.609	0.634	0.664	0.670	0.685	0.668	0.635	0.631	0.615	0.624	0.643	4.03
36)		DI-ISOPROPYL E...	0.718	0.801	0.828	0.860	0.852	0.849	0.873	0.840	0.823	0.816	0.826	5.28
37)		ETHYL TERT-BUT...	0.750	0.847	0.889	0.901	0.916	0.908	0.912	0.898	0.861	0.873	0.875	5.68
38)		ETHYL ACETATE	0.098	0.081	0.101	0.085	0.092	0.091	0.093	0.090	0.090	0.090	0.091	6.17
39)	T,M	2-Butanone (MEK)	0.135	0.126	0.130	0.139	0.137	0.139	0.137	0.134	0.132	0.135	0.134	3.14
40)	T,M	cis-1,2-Dichlo...	0.370	0.402	0.428	0.435	0.427	0.435	0.429	0.420	0.412	0.409	0.417	4.76

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Response Factor Report AIRMS4

Method Path : C:\msdchem\1\methods\
Method File : TOAIRMS4K30V.m
Title : AIRMS4

41)	T,M	Tetrahydrofuran	0.312	0.272	0.282	0.282	0.277	0.280	0.280	0.277	0.269	0.266	0.280	4.51
42)	T,M	Chloroform	0.569	0.575	0.611	0.588	0.600	0.590	0.598	0.581	0.573	0.568	0.585	2.50
43)	T,M	Cyclohexane	0.326	0.315	0.330	0.327	0.342	0.333	0.332	0.326	0.316	0.317	0.326	2.69
44)	T,M	1,1,1-Trichlor...	0.560	0.575	0.597	0.601	0.613	0.608	0.615	0.599	0.592	0.588	0.595	2.88
45)	T,M	Carbon Tetrach...	0.545	0.599	0.640	0.655	0.653	0.655	0.663	0.653	0.637	0.642	0.634	5.67
46)	T,M	2,2,4-Trimethy...	1.244	1.311	1.343	1.383	1.390	1.387	1.396	1.358	1.304	1.303	1.342	3.74
47)	I	1,4-Difluorobenzene	----------ISTD----------											
48)	T,M	Benzene	0.215	0.228	0.237	0.234	0.238	0.238	0.234	0.219	0.213	0.200	0.226	5.90
49)		TERT-AMYL METH...	0.205	0.219	0.230	0.232	0.235	0.239	0.230	0.220	0.209	0.202	0.222	5.91
50)	T,M	1,2-Dichloroet...	0.070	0.079	0.088	0.090	0.089	0.090	0.088	0.083	0.081	0.077	0.084	8.01
51)	T,M	Heptane	0.125	0.121	0.133	0.129	0.130	0.131	0.127	0.120	0.114	0.108	0.124	6.53
52)	T,M	Trichloroethene	0.101	0.107	0.111	0.114	0.112	0.116	0.114	0.112	0.109	0.106	0.110	4.17
53)		TERT-AMYL ETHY...	0.081	0.077	0.078	0.077	0.076	0.077	0.074	0.073	0.070	0.068	0.075	5.20
54)		METHYL CYCLOHE...	0.157	0.150	0.151	0.152	0.152	0.154	0.152	0.147	0.141	0.135	0.149	4.50
55)	T,M	1,2-Dichloropr...	0.085	0.085	0.098	0.099	0.098	0.100	0.098	0.095	0.091	0.088	0.094	6.43
56)	T,M	Methyl Methacr...	0.099	0.091	0.099	0.106	0.099	0.109	0.106	0.103	0.092	0.091	0.099	6.62
57)	T,M	1,4-Dioxane	0.042	0.043	0.048	0.048	0.047	0.048	0.051	0.050	0.048	0.047	0.047	5.65
58)	T,M	Bromodichlorom...	0.163	0.171	0.175	0.174	0.175	0.181	0.179	0.177	0.170	0.165	0.173	3.38
59)	T,M	cis-1,3-Dichlo...	0.126	0.136	0.150	0.151	0.155	0.156	0.157	0.155	0.151	0.149	0.149	6.64
60)	T,M	4-Methyl-2-Pen...	0.154	0.159	0.164	0.165	0.163	0.165	0.169	0.163	0.157	0.151	0.161	3.50
61)		n-OCTANE	0.182	0.192	0.202	0.205	0.204	0.207	0.202	0.196	0.187	0.172	0.195	5.88
62)	T,M	Toluene	0.274	0.287	0.295	0.305	0.301	0.307	0.298	0.286	0.277	0.261	0.289	5.20
63)	T,M	trans-1,3-Dich...	0.117	0.118	0.130	0.131	0.134	0.138	0.137	0.133	0.134	0.130	0.130	5.42
64)	T,M	1,1,2-Trichlor...	0.101	0.107	0.110	0.111	0.111	0.112	0.111	0.111	0.107	0.101	0.108	3.82
65)	T,M	Tetrachloroethene	0.132	0.143	0.146	0.149	0.149	0.151	0.153	0.147	0.141	0.132	0.144	5.12
66)	T,M	Methyl Butyl K...	0.141	0.147	0.146	0.149	0.150	0.153	0.160	0.154	0.145	0.136	0.148	4.66
67)	T,M	Chlorodibromom...	0.175	0.184	0.200	0.203	0.210	0.214	0.216	0.215	0.208	0.197	0.202	6.77
68)	T,M	1,2-Dibromoethane	0.154	0.161	0.177	0.178	0.183	0.184	0.183	0.180	0.176	0.169	0.175	5.78
69)	T,M	Chlorobenzene	0.192	0.200	0.223	0.223	0.226	0.230	0.227	0.221	0.207	0.189	0.214	7.26
70)	T	NONANE	0.210	0.204	0.212	0.214	0.214	0.220	0.211	0.206	0.196	0.173	0.206	6.44
71)	I	Chlorobenzene-d5	----------ISTD----------											
72)	T,M	Ethylbenzene	0.361	0.384	0.390	0.386	0.396	0.392	0.404	0.380	0.370	0.368	0.383	3.52
73)	T,M	M&P-Xylene	0.286	0.296	0.310	0.312	0.312	0.309	0.316	0.298	0.292	0.269	0.300	4.92
74)	T,M	O-Xylene	0.312	0.298	0.314	0.324	0.325	0.321	0.332	0.316	0.315	0.309	0.317	2.99
75)		TOTAL XYLENES											0.000	-1.00
76)		XYLENES, TOTAL											0.000	-1.00
77)	T,M	Styrene	0.238	0.234	0.254	0.255	0.265	0.264	0.270	0.258	0.253	0.243	0.253	4.73
78)	T,M	Bromoform	0.194	0.199	0.212	0.214	0.224	0.222	0.234	0.237	0.242	0.248	0.222	8.03
79)	T,M	Isopropylbenzene	0.404	0.425	0.435	0.444	0.447	0.443	0.446	0.429	0.414	0.408	0.430	3.80
80)		n-DECANE	0.193	0.206	0.206	0.215	0.221	0.220	0.221	0.201	0.178	0.145	0.201	11.98
81)	T,M	1,1,2,2-Tetrac...	0.245	0.244	0.253	0.257	0.266	0.262	0.268	0.259	0.256	0.248	0.256	3.18
82)	T,M	n-Propylbenzene	0.456	0.471	0.488	0.521	0.529	0.520	0.526	0.495	0.452	0.386	0.484	9.28
83)	T,M	4-Ethyltoluene	0.369	0.384	0.394	0.406	0.424	0.414	0.419	0.405	0.389	0.373	0.398	4.74
84)	T,M	2-Chlorotoluene	0.093	0.101	0.109	0.110	0.110	0.105	0.108	0.101	0.095	0.085	0.102	8.46
85)	S	1,4-Bromofluor...	0.652	0.658	0.651	0.659	0.667	0.656	0.679	0.700	0.717	0.786	0.683	6.24
86)	T,M	1,3,5-Trimethy...	0.316	0.332	0.345	0.346	0.357	0.347	0.347	0.322	0.304	0.261	0.328	8.80
87)	T,M	Tert-Butylbenzene	0.282	0.305	0.310	0.316	0.317	0.318	0.316	0.298	0.289	0.281	0.303	4.87
88)	T,M	1,2,4-Trimethy...	0.299	0.328	0.331	0.325	0.344	0.335	0.334	0.314	0.301	0.287	0.320	5.85

Method Path : C:\msdchem\1\methods\
Method File : TOAIRMS4K30V.m
Title : AIRMS4

89)	T,M	sec-Butylbenzene	0.089	0.092	0.094	0.095	0.097	0.094	0.097	0.092	0.090	0.088	0.093	3.51
90)	T,M	1,3-Dichlorobe...	0.154	0.156	0.178	0.199	0.212	0.212	0.225	0.217	0.214	0.210	0.198	13.07
91)		P-ISOPROPYLTOL...	0.356	0.369	0.381	0.384	0.394	0.387	0.391	0.371	0.354	0.333	0.372	5.26
92)	T,M	1,4-Dichlorobe...	0.136	0.142	0.168	0.199	0.205	0.206	0.210	0.203	0.193	0.179	0.184	14.75
93)		1,2,3-TRIMETHY...	0.302	0.317	0.328	0.327	0.342	0.331	0.325	0.306	0.283	0.251	0.311	8.75
94)	T,M	Benzyl Chloride	0.162	0.171	0.188	0.198	0.222	0.236	0.251	0.260	0.248	0.258	0.219	16.90
95)	T,M	n-Butylbenzene	0.316	0.323	0.350	0.362	0.369	0.376	0.388	0.376	0.344	0.317	0.352	7.47
96)	T,M	1,2-Dichlorobe...	0.162	0.173	0.178	0.193	0.213	0.207	0.213	0.209	0.206	0.201	0.195	9.28
97)		1,2-DIBROMO-3-...	0.078	0.077	0.083	0.089	0.096	0.100	0.108	0.110	0.104	0.102	0.095	12.68
98)	T,M	1,2,4-Trichlor...		0.055	0.062	0.073	0.084	0.091	0.103	0.123			0.084	28.21
99)	T,M	Hexachloro-1,3...	0.168	0.167	0.170	0.175	0.181	0.181	0.181	0.184	0.177	0.159	0.174	4.63
100)	T,M	Naphthalene	0.149	0.141	0.162	0.191	0.211	0.220	0.245	0.276	0.275	0.261	0.213	24.03
101)	h,n,MTPH (GC/MS) Lo...				0.663	0.626	0.614	0.595	0.591	0.566	0.551	0.549	0.594	6.62
102)	h,n,MTPH-GRO (C5-C10)				0.612	0.542	0.513	0.495	0.486	0.464	0.452	0.451	0.502	10.85

(#) = Out of Range

BHATE Environmental - Birmingham
PROJECT: MSC2021.0012
SDG: L1570581
DATE/TIME: 02/27/23 16:12
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:05:21 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	103391	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	387756	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.349	117	337551	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	220022	3.9768953	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 99.42%				
Target Compounds							Qvalue
2) Propene	4.182	41	2619	0.4644560	ppbv		93
3) BUTANE	4.578	43	2089m	0.2362754	ppbv		
4) 1,1-DIFLUOROETHANE	4.189	51	1555	0.1891790	ppbv		97
5) Dichlorodifluoromethane	4.225	85	3046	0.1644826	ppbv		92
6) CHLORODIFLUOROMETHANE	4.243	51	1676	0.1646214	ppbv	#	87
7) 1,2-Dichlorotetrafluor...	4.377	85	3328	0.1669802	ppbv		96
8) Chloromethane	4.493	50	1038m	0.1623460	ppbv		
9) Vinyl Chloride	4.602	62	980	0.1550408	ppbv	#	48
10) 1,3-Butadiene	4.633	39	716m	0.1763592	ppbv		
11) Bromomethane	4.992	94	1232	0.2055873	ppbv		88
12) Chloroethane	5.077	64	587	0.2313392	ppbv	#	32
13) ISOPENTANE	5.089	43	1640	0.2648501	ppbv	#	90
14) Vinyl Bromide	5.259	106	1243	0.2051135	ppbv		95
15) Trichlorofluoromethane	5.278	101	2511	0.1644417	ppbv		85
16) PENTANE	5.320	43	4440	0.3873936	ppbv	#	94
17) Ethanol	5.405	45	1238	0.3894888	ppbv		98
18) ACROLEIN	5.709	56	623	0.2023284	ppbv		84
19) 1,1,2-Trichlorotrifluo...	5.697	101	2691	0.1619725	ppbv	#	93
20) 1,1-Dichloroethene	5.782	61	1914	0.1624096	ppbv	#	89
21) Acetone	5.831	43	2789	0.2499803	ppbv		95
22) BROMOETHANE	5.965	108	1091	0.1600426	ppbv		97
23) 2-Propanol	5.849	45	2939	0.2420214	ppbv		97
24) Carbon Disulfide	6.056	76	6303	0.2317931	ppbv	#	85
25) Allyl Chloride	6.087	41	1349m	0.1449857	ppbv		
26) METHYL ACETATE	6.050	43	2217	0.1746875	ppbv	#	99
27) ACETONITRILE	6.117	41	5842	0.7956622	ppbv	#	77
28) Methylene Chloride	6.208	49	1513	0.1888496	ppbv	#	89
29) TERT-BUTYL ALCOHOL	6.190	59	2256	0.1662414	ppbv	#	1
30) Methyl Tert-Butyl Ether	6.354	73	3064	0.1677718	ppbv	#	88
31) Trans-1,2-Dichloroethene	6.403	61	1903	0.1616039	ppbv		96
32) ACRYLONITRILE	6.439	53	1033	0.1702145	ppbv		95
33) n-Hexane	6.525	57	1854	0.1680852	ppbv		90
34) 1,1-Dichloroethane	6.792	63	2365	0.1643547	ppbv	#	75
35) Vinyl Acetate	6.719	43	2992	0.1733588	ppbv	#	91
36) DI-ISOPROPYL ETHER	6.683	45	3527	0.1607836	ppbv		93
37) ETHYL TERT-BUTYL ETHER	6.987	59	3681	0.1567945	ppbv		95
38) ETHYL ACETATE	7.206	45	481	0.2041460	ppbv	#	48
39) 2-Butanone (MEK)	7.243	72	662	0.1843508	ppbv		90
40) cis-1,2-Dichloroethene	7.279	61	1817	0.1616159	ppbv		94
41) Tetrahydrofuran	7.522	42	1532	0.2117475	ppbv	#	86
42) Chloroform	7.504	83	2793	0.1830279	ppbv		100
43) Cyclohexane	7.729	84	1602	0.1859616	ppbv		98
44) 1,1,1-Trichloroethane	7.699	97	2748	0.1749207	ppbv		92
45) Carbon Tetrachloride	7.839	117	2678	0.1581190	ppbv		97
46) 2,2,4-Trimethylpentane	7.942	57	6109	0.1704503	ppbv	#	93
48) Benzene	8.033	78	3952	0.1712391	ppbv	#	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:05:21 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration

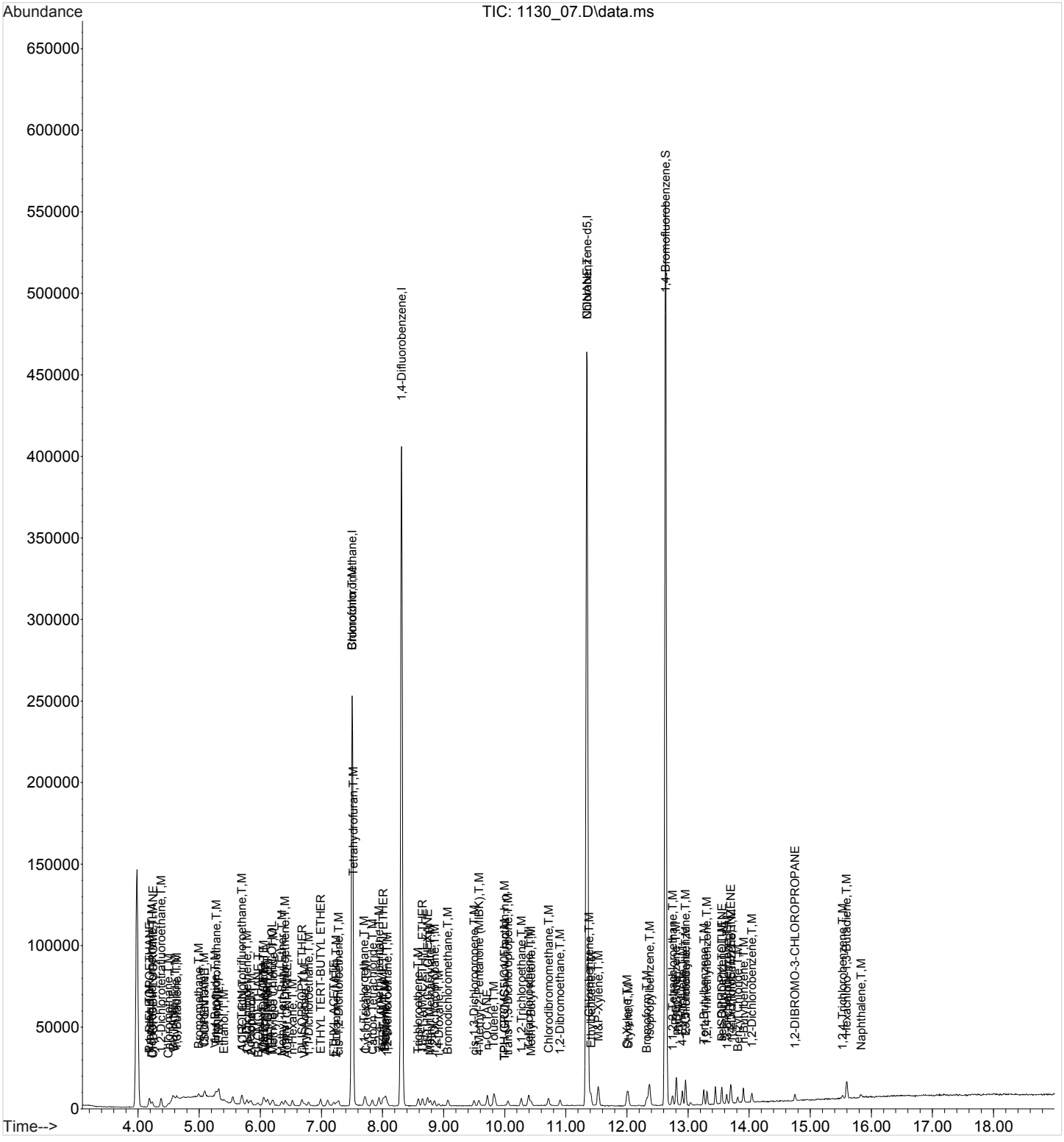
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	TERT-AMYL METHYL ETHER	8.009	73	3774	0.1629244	ppbv		95
50)	1,2-Dichloroethane	8.082	62	1296	0.1477909	ppbv	#	83
51)	Heptane	8.052	43	2302	0.1813722	ppbv		94
52)	Trichloroethene	8.581	95	1860	0.1649800	ppbv		99
53)	TERT-AMYL ETHYL ETHER	8.654	73	1492	0.1991584	ppbv	#	85
54)	METHYL CYCLOHEXANE	8.739	83	2900	0.1939163	ppbv	#	81
55)	1,2-Dichloropropane	8.855	63	1562	0.1618512	ppbv		96
56)	Methyl Methacrylate	8.782	41	1818	0.1712999	ppbv		92
57)	1,4-Dioxane	8.922	88	782	0.1672807	ppbv	#	72
58)	Bromodichloromethane	9.068	83	2994	0.1704856	ppbv		100
59)	cis-1,3-Dichloropropene	9.500	75	2328	0.1536414	ppbv	#	84
60)	4-Methyl-2-Pentanone (...	9.579	43	2838	0.1778708	ppbv	#	92
61)	n-OCTANE	9.712	43	3351	0.1671032	ppbv	#	88
62)	Toluene	9.822	91	5045	0.1694305	ppbv		96
63)	trans-1,3-Dichloropropene	10.053	75	2156	0.1615757	ppbv		98
64)	1,1,2-Trichloroethane	10.272	97	1861	0.1712558	ppbv		93
65)	Tetrachloroethene	10.394	166	2430	0.1659323	ppbv	#	95
66)	Methyl Butyl Ketone	10.430	43	2596	0.1747343	ppbv	#	93
67)	Chlorodibromomethane	10.716	129	3231	0.1560626	ppbv		98
68)	1,2-Dibromoethane	10.905	107	2839	0.1587661	ppbv		97
69)	Chlorobenzene	11.379	112	3532	0.1581273	ppbv	#	3
70)	NONANE	11.349	43	3876	0.1817913	ppbv	#	89
72)	Ethylbenzene	11.410	91	5789	0.1749855	ppbv		100
73)	M&P-Xylene	11.531	91	9175	0.3518812	ppbv		96
74)	O-Xylene	12.000	91	4995	0.1843479	ppbv		95
77)	Styrene	12.024	104	3815	0.1712073	ppbv		96
78)	Bromoform	12.322	173	3113	0.1662088	ppbv		98
79)	Isopropylbenzene	12.371	105	6478	0.1731669	ppbv	#	97
80)	n-DECANE	12.809	43	3090	0.1665745	ppbv	#	91
81)	1,1,2,2-Tetrachloroethane	12.748	83	3935	0.1779258	ppbv		96
82)	n-Propylbenzene	12.803	91	7308	0.1664649	ppbv		100
83)	4-Ethyltoluene	12.906	105	5920	0.1693809	ppbv		99
84)	2-Chlorotoluene	12.961	126	1493	0.1677997	ppbv		95
86)	1,3,5-Trimethylbenzene	12.955	105	5071	0.1731522	ppbv		96
87)	Tert-Butylbenzene	13.259	119	4517	0.1684160	ppbv		98
88)	1,2,4-Trimethylbenzene	13.308	105	4798	0.1698870	ppbv		100
89)	sec-Butylbenzene	13.551	134	1425	0.1798441	ppbv		95
90)	1,3-Dichlorobenzene	13.636	146	2463	0.1375028	ppbv		99
91)	P-ISOPROPYLTOLUENE	13.551	119	5714	0.1750245	ppbv		98
92)	1,4-Dichlorobenzene	13.709	146	2178	0.1250597	ppbv		95
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	4839	0.1733065	ppbv		98
94)	Benzyl Chloride	13.813	91	2590	0.1298398	ppbv		98
95)	n-Butylbenzene	13.910	91	5063	0.1595480	ppbv		98
96)	1,2-Dichlorobenzene	14.044	146	2600	0.1490885	ppbv		97
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	1257	0.1494722	ppbv		91
98)	1,2,4-Trichlorobenzene	15.528	180	869	0.1136958	ppbv		97
99)	Hexachloro-1,3-Butadiene	15.595	225	2699	0.1769894	ppbv		98
100)	Naphthalene	15.833	128	2387	0.1285486	ppbv	#	96
101)	TPH (GC/MS) Low Fraction	10.000	TIC	753435m	14.9971957	ppbv		
102)	TPH-GRO (C5-C10)	10.000	TIC	1140832m	27.3326835	ppbv		

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

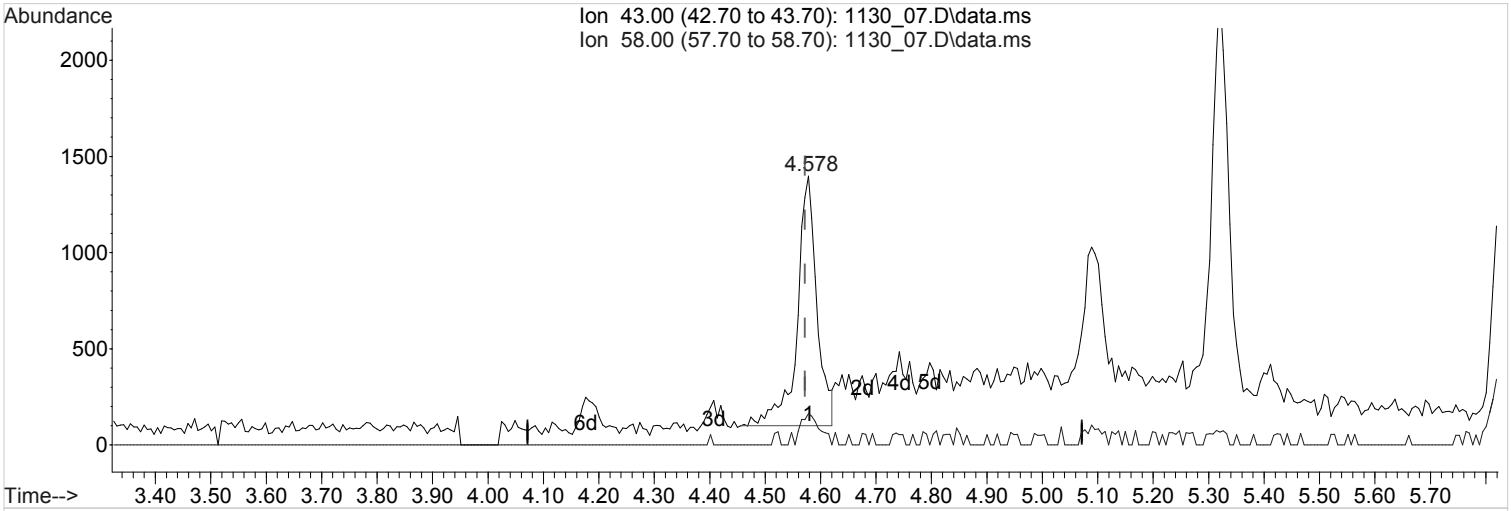
Quant Time: Dec 01 08:05:21 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration

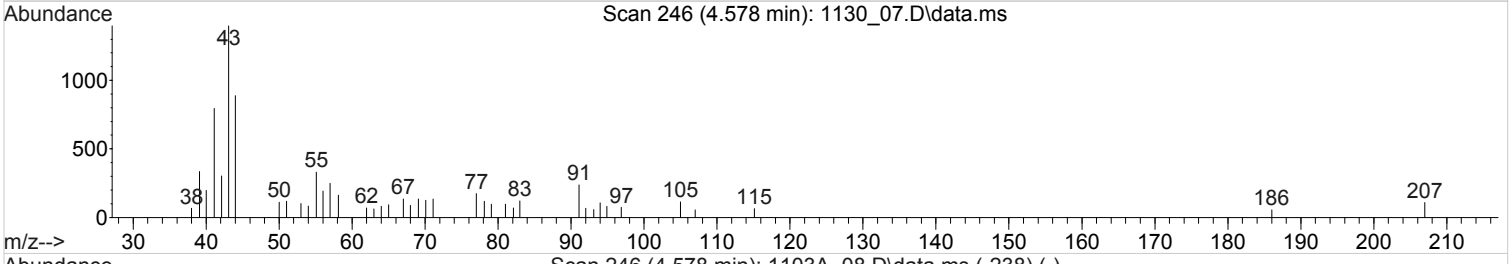


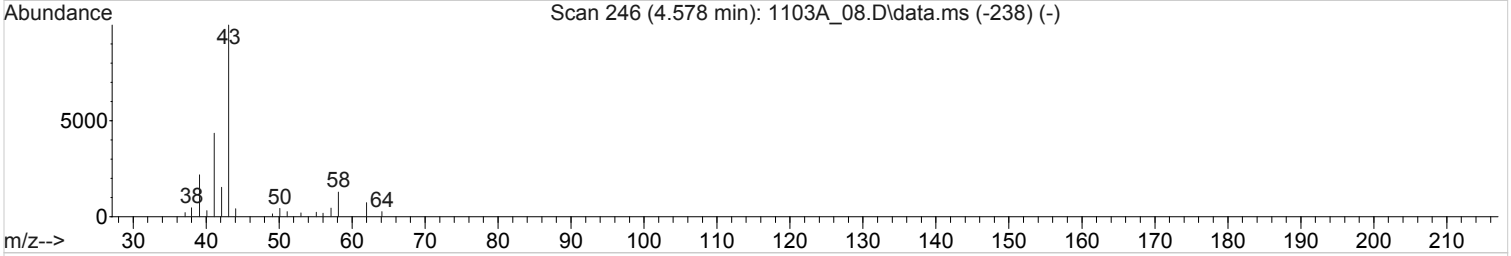
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration







TIC: 1130_07.D\data.ms

(3) BUTANE (T)

4.578min (+0.006) 0.3662326 ppbv

Qvalue = 91

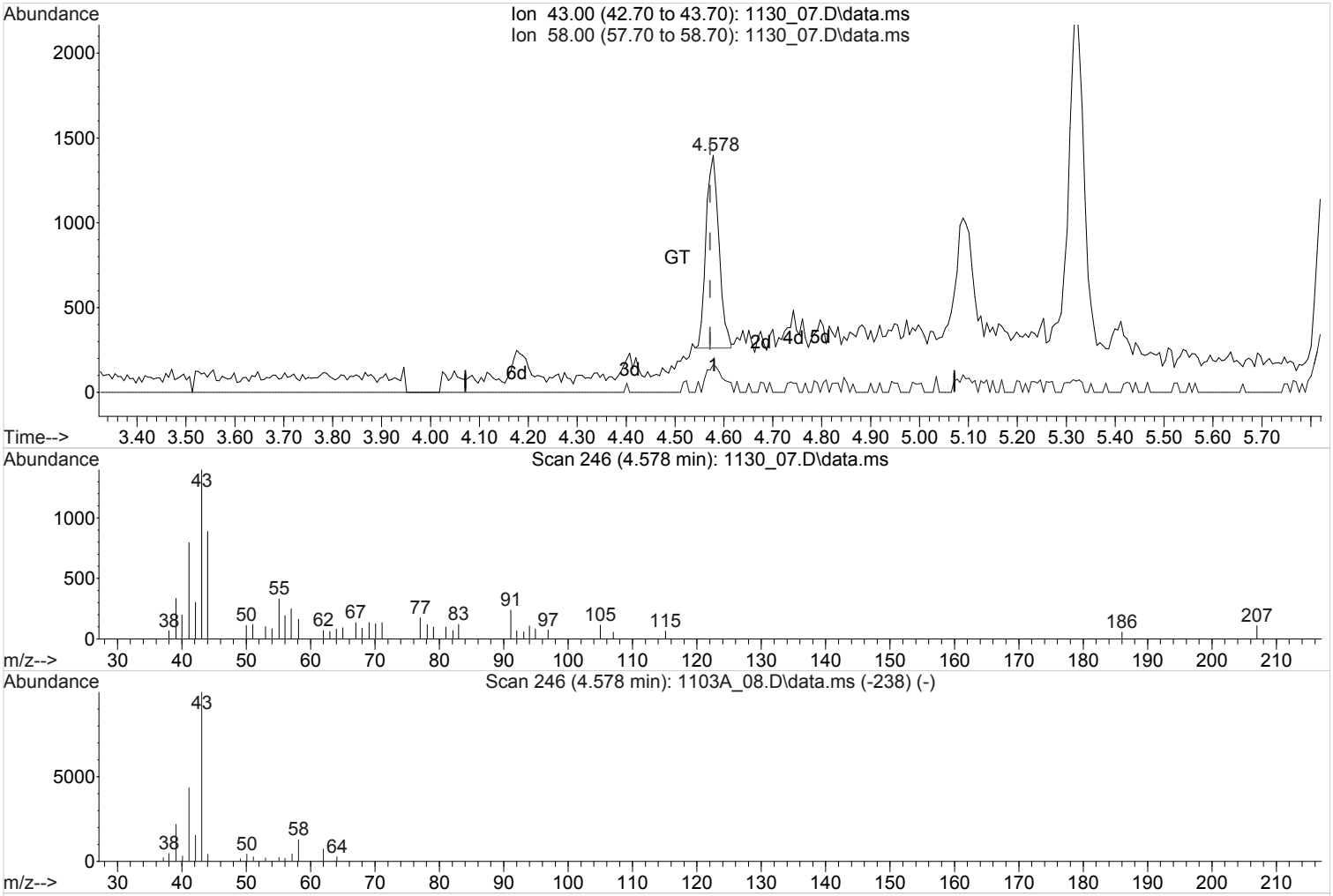
response 3238

Ion	Exp%	Act%
43.00	100	100
58.00	10.00	13.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration



TIC: 1130_07.D\data.ms

(3) BUTANE (T)

4.578min (+0.006) 0.2362754 ppbv m

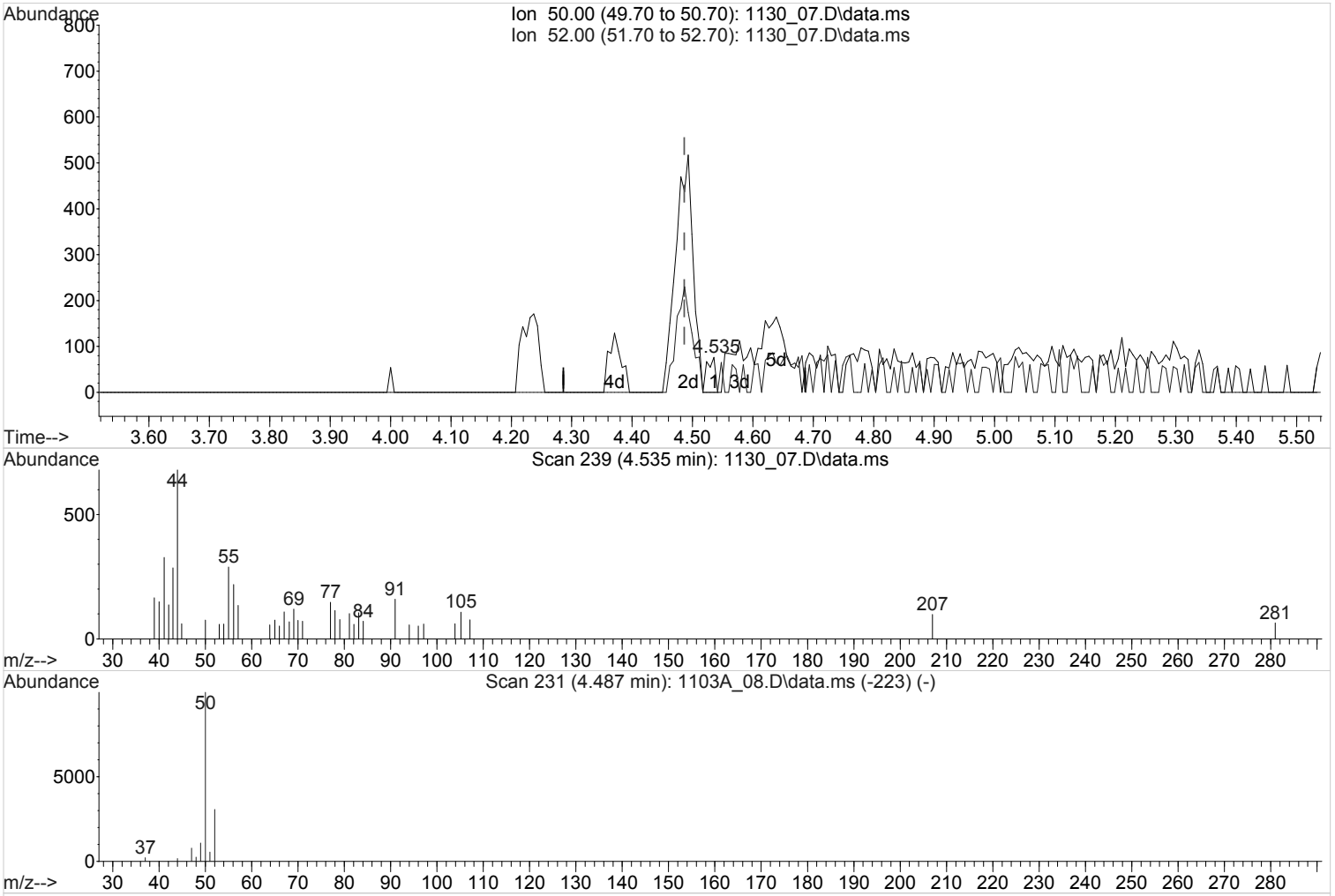
response 2089

Ion	Exp%	Act%
43.00	100	100
58.00	10.00	20.63#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration



TIC: 1130_07.D\data.ms

(8) Chloromethane (T,M)

4.535min (+0.049) 0.0112610 ppbv

Qvalue = 99

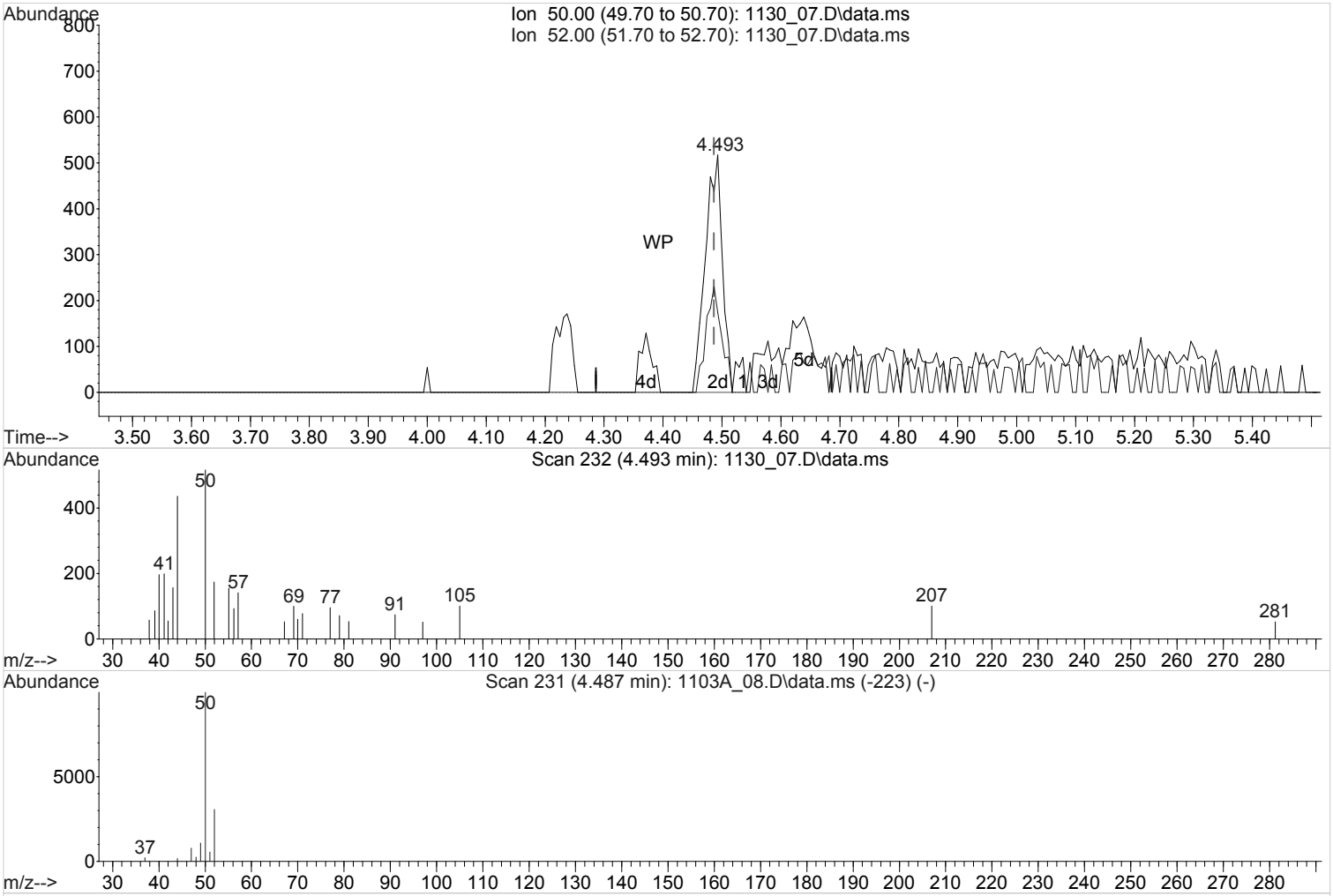
response 72

Ion	Exp%	Act%
50.00	100	100
52.00	33.90	33.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration



TIC: 1130_07.D\data.ms

(8) Chloromethane (T,M)

4.493min (+0.006) 0.1623460 ppbv m

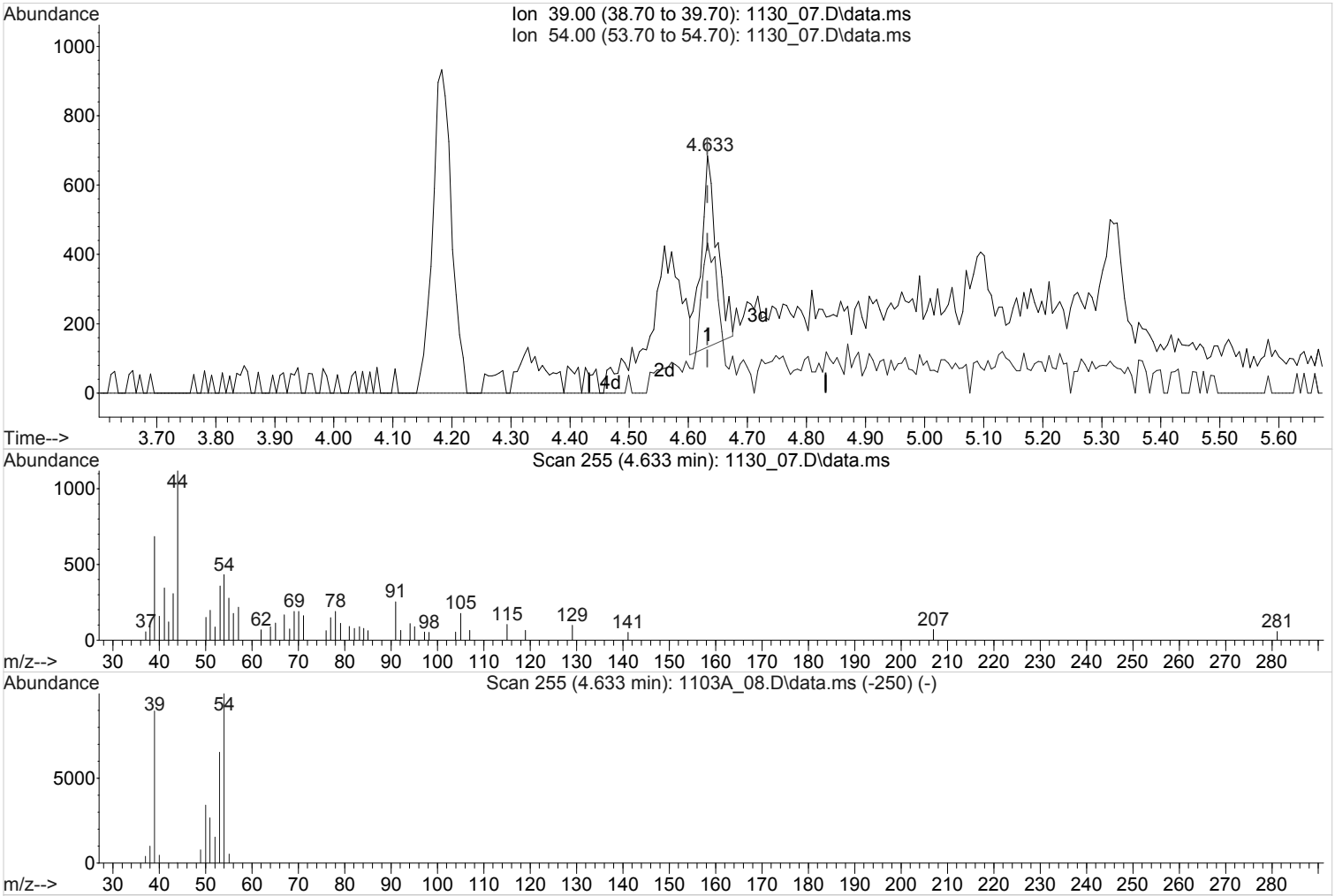
response 1038

Ion	Exp%	Act%
50.00	100	100
52.00	33.90	2.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration



TIC: 1130_07.D\data.ms

(10) 1,3-Butadiene (T,M)

4.633min (+0.000) 0.2586273 ppbv

Qvalue = 60

response 1050

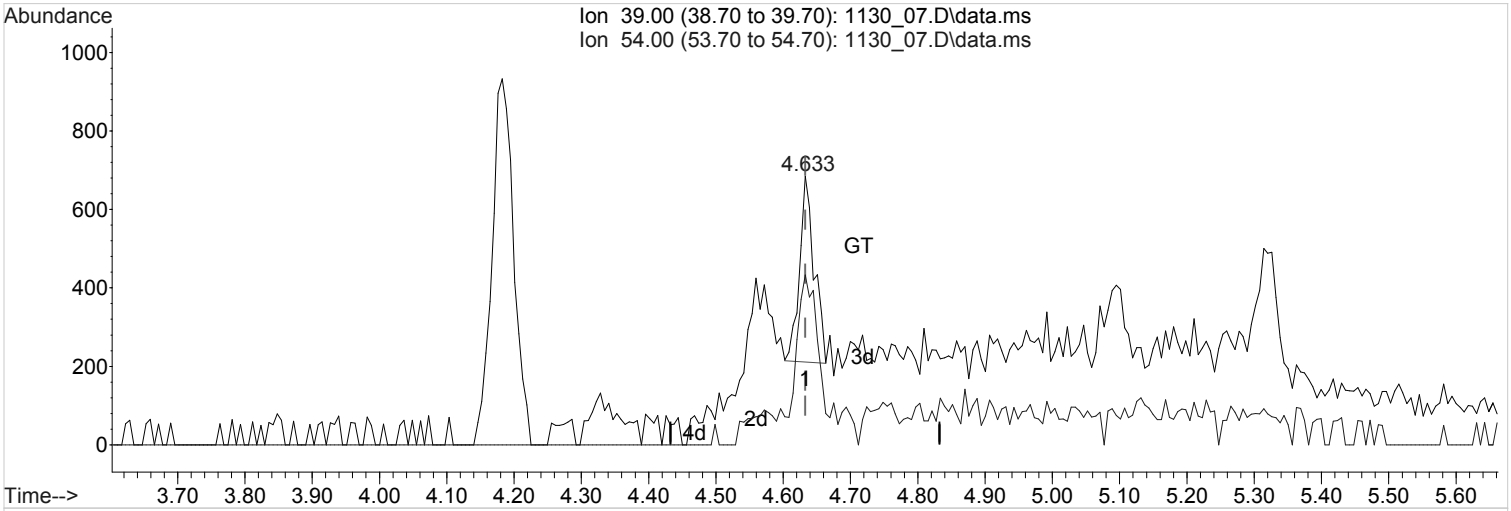
Ion	Exp%	Act%
39.00	100	100
54.00	112.60	69.24#
0.00	0.00	0.00
0.00	0.00	0.00

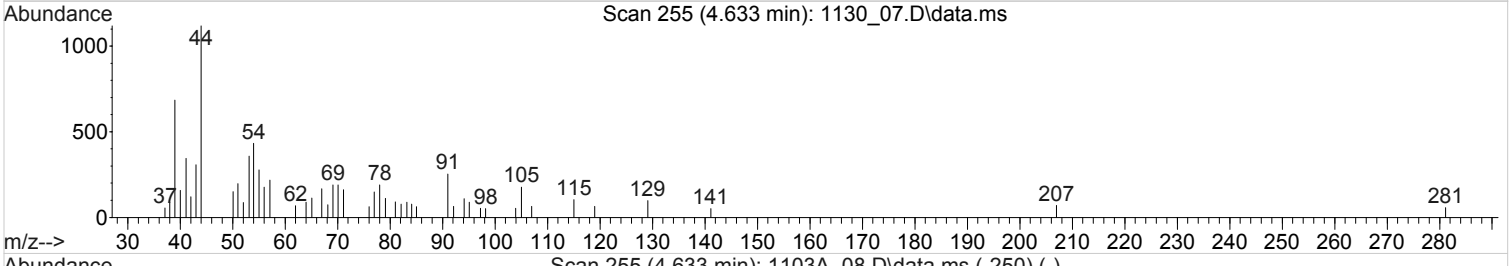
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	243 of 500

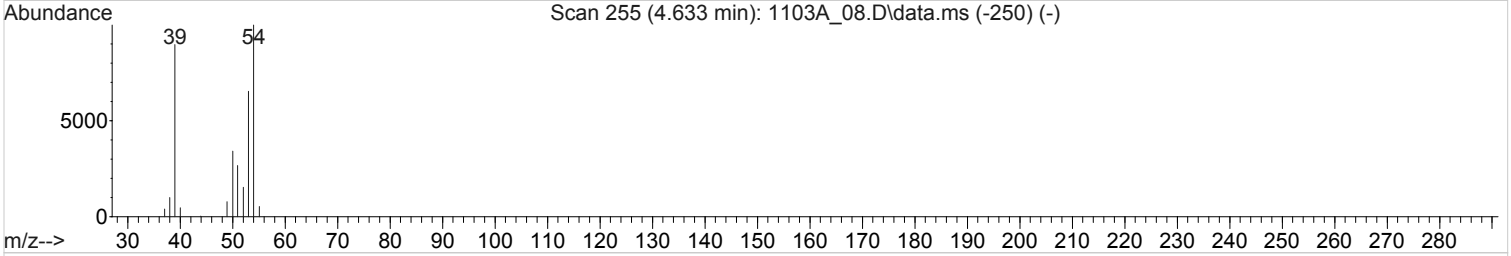
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration







TIC: 1130_07.D\data.ms

(10) 1,3-Butadiene (T,M)

4.633min (+0.000) 0.1763592 ppbv m

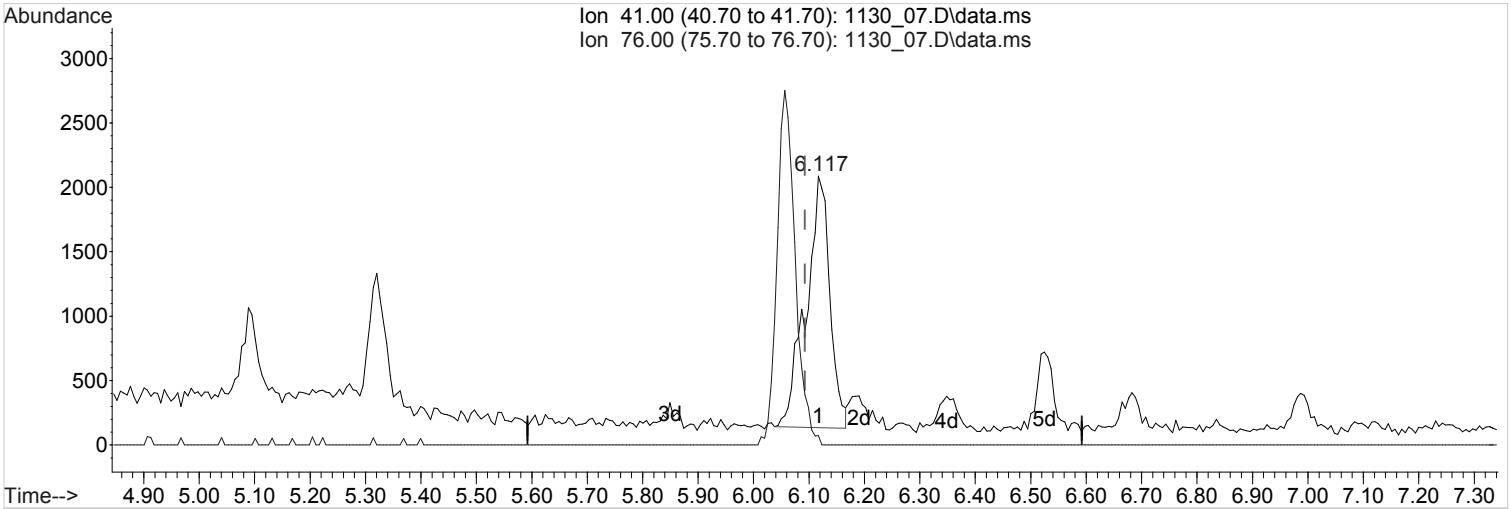
response 716

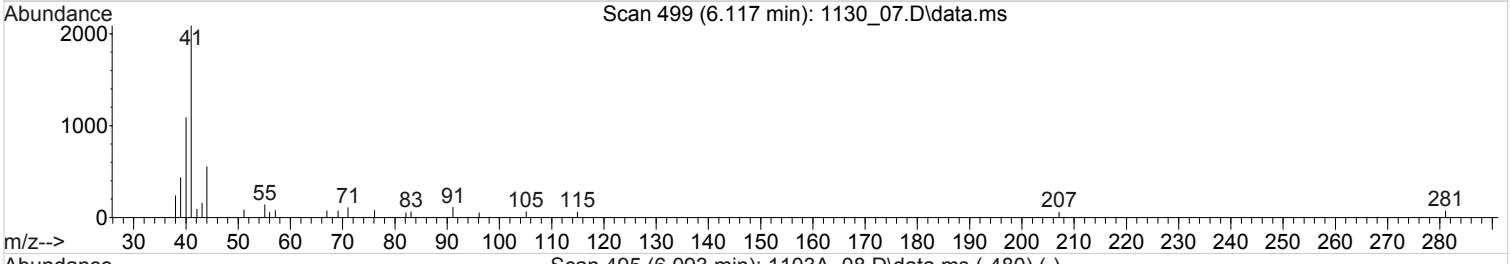
Ion	Exp%	Act%
39.00	100	100
54.00	112.60	101.54
0.00	0.00	0.00
0.00	0.00	0.00

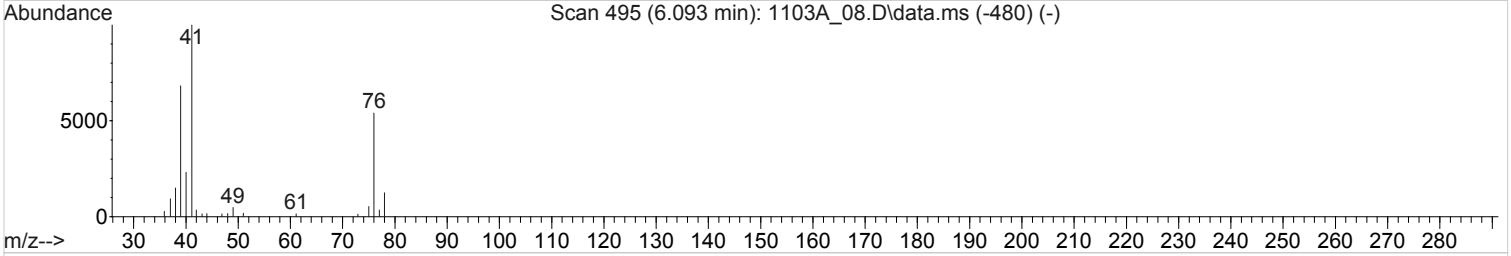
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration







TIC: 1130_07.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 0.6278774 ppbv

Qvalue = 4

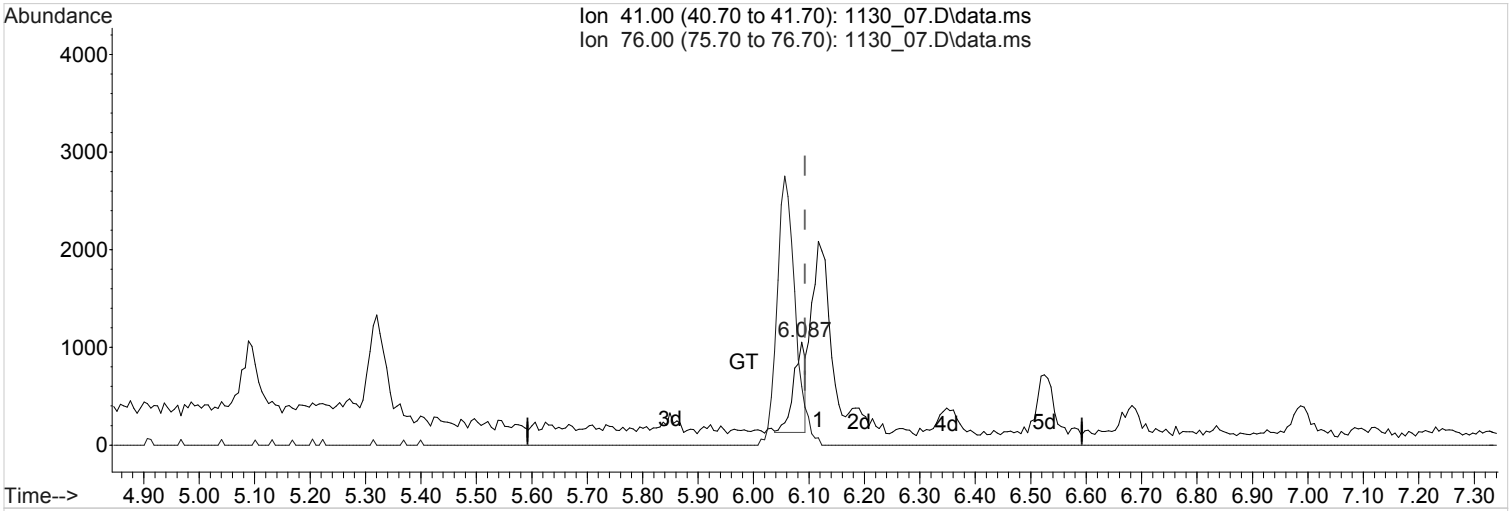
response 5842

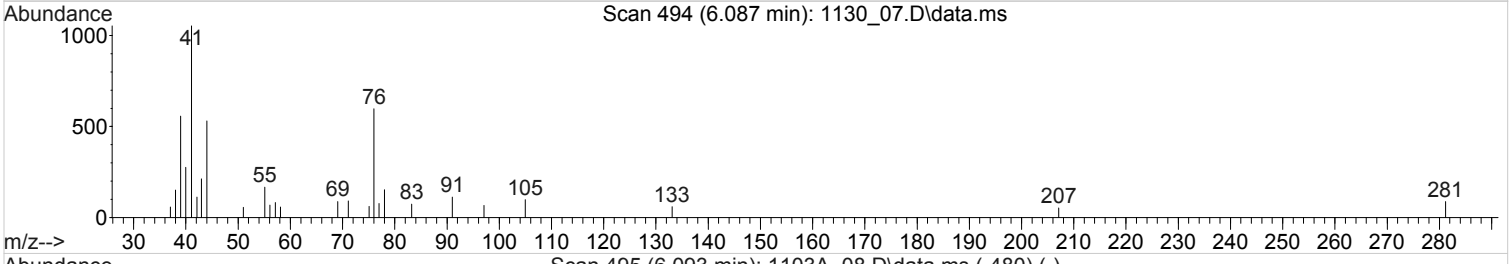
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	107.89#
0.00	0.00	0.00
0.00	0.00	0.00

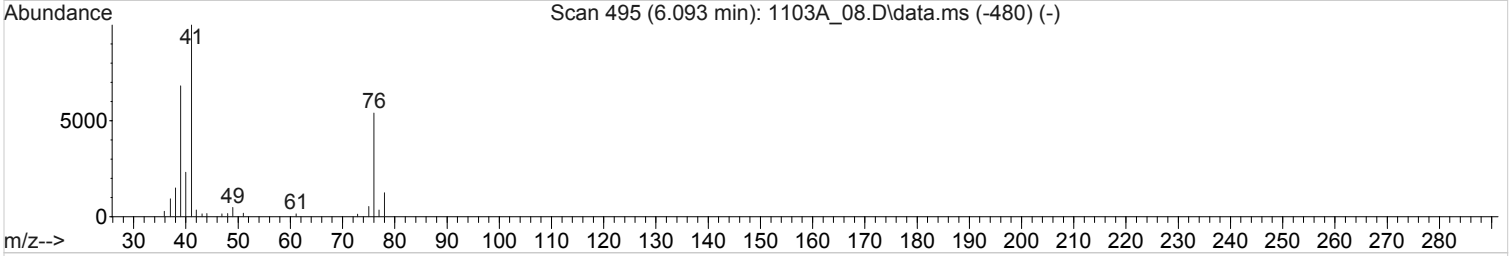
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_07.D
Acq On : 30 Nov 2022 6:49 pm
Operator :
Sample : STD AMS 0.19 ppbv 22K29457
Misc : 22K22745
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 01 08:03:18 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:03:08 2022
Response via : Initial Calibration







TIC: 1130_07.D\data.ms

(25) Allyl Chloride (T,M)

6.087min (-0.006) 0.1449857 ppbv m

response 1349

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	467.23#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 01 08:06:55 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	100986	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	386606	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	337064	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	221861	4.0275611	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.69%				
Target Compounds							Qvalue
2) Propene	4.189	41	3286	0.3464187	ppbv		95
3) BUTANE	4.572	43	3465m	0.3576829	ppbv		
4) 1,1-DIFLUOROETHANE	4.183	51	2545	0.3176809	ppbv		97
5) Dichlorodifluoromethane	4.225	85	5356	0.3174249	ppbv		95
6) CHLORODIFLUOROMETHANE	4.243	51	2892	0.3116383	ppbv		97
7) 1,2-Dichlorotetrafluor...	4.371	85	5794	0.3168263	ppbv		98
8) Chloromethane	4.487	50	1886	0.3257030	ppbv		98
9) Vinyl Chloride	4.602	62	1788	0.3189497	ppbv	#	82
10) 1,3-Butadiene	4.639	39	1309	0.3423914	ppbv		95
11) Bromomethane	4.992	94	1798	0.2950788	ppbv		88
12) Chloroethane	5.071	64	883	0.3213254	ppbv	#	84
13) ISOPENTANE	5.095	43	2350	0.3246094	ppbv	#	95
14) Vinyl Bromide	5.259	106	1853	0.3010799	ppbv		96
15) Trichlorofluoromethane	5.284	101	4311	0.3098872	ppbv		93
16) PENTANE	5.320	43	5635	0.3312811	ppbv		98
17) Ethanol	5.405	45	1550	0.3273906	ppbv		97
18) ACROLEIN	5.710	56	1036	0.3336445	ppbv		99
19) 1,1,2-Trichlorotrifluo...	5.697	101	4718	0.3138933	ppbv		95
20) 1,1-Dichloroethene	5.776	61	3358	0.3145631	ppbv		93
21) Acetone	5.825	43	3805	0.3015670	ppbv		90
22) BROMOETHANE	5.959	108	2048	0.3339067	ppbv		100
23) 2-Propanol	5.849	45	4280	0.3173934	ppbv		97
24) Carbon Disulfide	6.056	76	9321	0.3161705	ppbv	#	91
25) Allyl Chloride	6.093	41	2952m	0.3684754	ppbv		
26) METHYL ACETATE	6.050	43	3828	0.3217750	ppbv	#	93
27) ACETONITRILE	6.117	41	10273	1.5591196	ppbv	#	89
28) Methylene Chloride	6.208	49	2481	0.3180110	ppbv		95
29) TERT-BUTYL ALCOHOL	6.184	59	3886	0.3127257	ppbv	#	1
30) Methyl Tert-Butyl Ether	6.348	73	5324	0.3170059	ppbv		94
31) Trans-1,2-Dichloroethene	6.409	61	3315	0.3114929	ppbv		95
32) ACRYLONITRILE	6.440	53	1628	0.2897308	ppbv		91
33) n-Hexane	6.531	57	3217	0.3168761	ppbv		95
34) 1,1-Dichloroethane	6.792	63	4146	0.3163350	ppbv	#	93
35) Vinyl Acetate	6.726	43	4965	0.3080158	ppbv		99
36) DI-ISOPROPYL ETHER	6.677	45	6270	0.3170077	ppbv		95
37) ETHYL TERT-BUTYL ETHER	6.981	59	6629	0.3167714	ppbv		100
38) ETHYL ACETATE	7.200	45	635	0.2660220	ppbv	#	89
39) 2-Butanone (MEK)	7.237	72	983	0.2844900	ppbv	#	55
40) cis-1,2-Dichloroethene	7.279	61	3149	0.3099121	ppbv		98
41) Tetrahydrofuran	7.516	42	2126	0.2845606	ppbv	#	90
42) Chloroform	7.504	83	4500	0.3075549	ppbv		100
43) Cyclohexane	7.729	84	2463	0.2958604	ppbv		90
44) 1,1,1-Trichloroethane	7.699	97	4501	0.3054501	ppbv		96
45) Carbon Tetrachloride	7.833	117	4686	0.3092098	ppbv		99
46) 2,2,4-Trimethylpentane	7.942	57	10263	0.3090735	ppbv		96
48) Benzene	8.033	78	6826	0.3120549	ppbv		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 01 08:06:55 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration

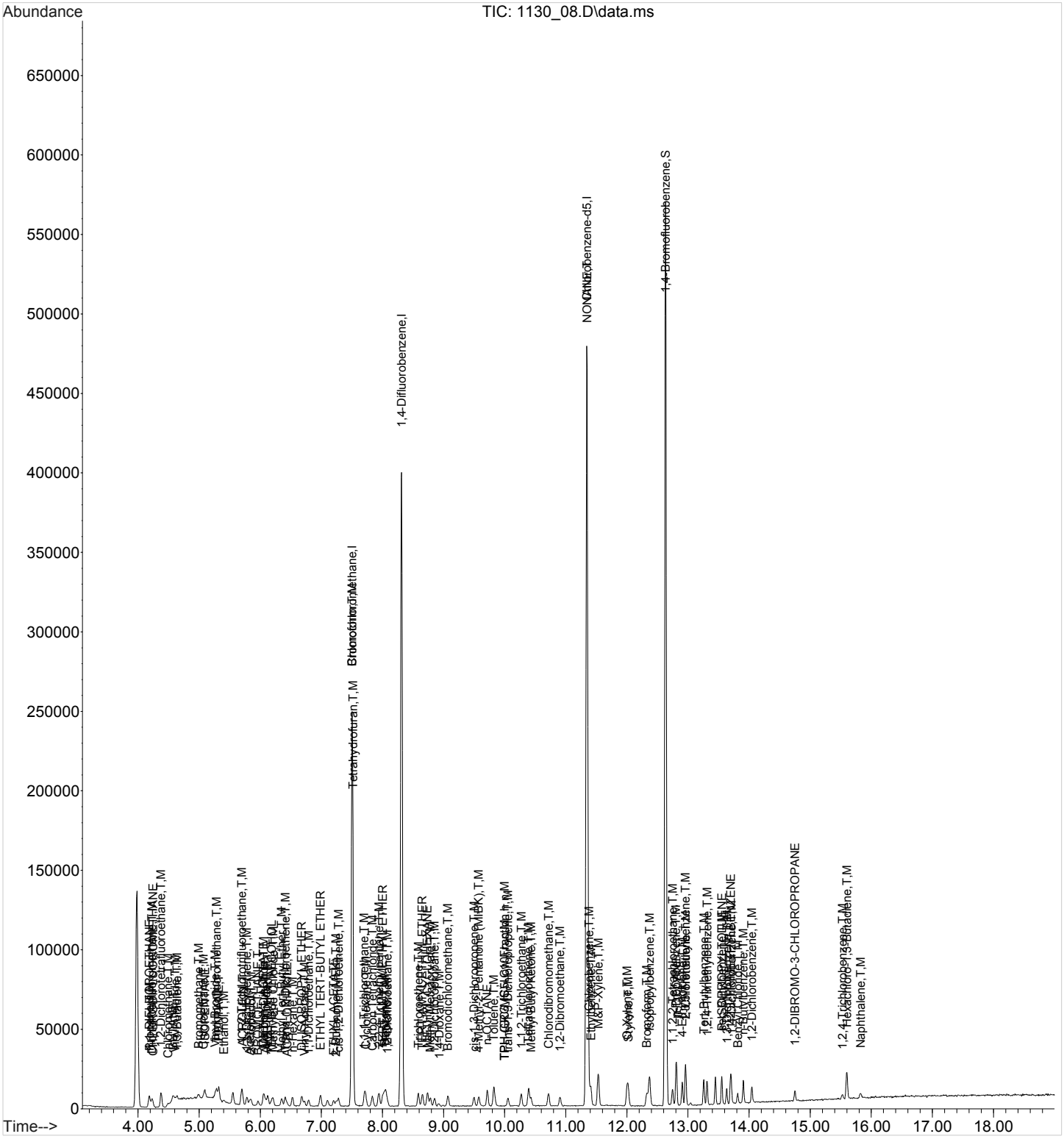
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	TERT-AMYL METHYL ETHER	8.003	73	6547	0.3052238	ppbv		95
50)	1,2-Dichloroethane	8.082	62	2372	0.3051988	ppbv		94
51)	Heptane	8.058	43	3632	0.2936807	ppbv		97
52)	Trichloroethene	8.587	95	3194	0.3041746	ppbv		99
53)	TERT-AMYL ETHYL ETHER	8.648	73	2304	0.3012031	ppbv		91
54)	METHYL CYCLOHEXANE	8.733	83	4486	0.2977917	ppbv		99
55)	1,2-Dichloropropane	8.849	63	2541	0.2852030	ppbv		94
56)	Methyl Methacrylate	8.782	41	2735	0.2718481	ppbv	#	84
57)	1,4-Dioxane	8.928	88	1300	0.2966514	ppbv		91
58)	Bromodichloromethane	9.068	83	5125	0.3085427	ppbv		96
59)	cis-1,3-Dichloropropene	9.500	75	4071	0.2979850	ppbv		98
60)	4-Methyl-2-Pentanone (...	9.573	43	4768	0.3096041	ppbv		97
61)	n-OCTANE	9.713	43	5739	0.3054403	ppbv		99
62)	Toluene	9.822	91	8614	0.3067566	ppbv		96
63)	trans-1,3-Dichloropropene	10.053	75	3547	0.2881663	ppbv		95
64)	1,1,2-Trichloroethane	10.272	97	3196	0.3102876	ppbv		98
65)	Tetrachloroethene	10.388	166	4283	0.3131691	ppbv		98
66)	Methyl Butyl Ketone	10.430	43	4405	0.3098249	ppbv	#	95
67)	Chlorodibromomethane	10.716	129	5510	0.2931112	ppbv		99
68)	1,2-Dibromoethane	10.905	107	4829	0.2951134	ppbv		99
69)	Chlorobenzene	11.379	112	5985	0.2933498	ppbv	#	56
70)	NONANE	11.349	43	6126	0.2945375	ppbv		95
72)	Ethylbenzene	11.410	91	10024	0.3159181	ppbv		96
73)	M&P-Xylene	11.532	91	15480	0.6173920	ppbv		100
74)	O-Xylene	12.000	91	7785	0.2920765	ppbv		100
77)	Styrene	12.024	104	6103	0.2885527	ppbv		93
78)	Bromoform	12.322	173	5201	0.2966660	ppbv		100
79)	Isopropylbenzene	12.371	105	11094	0.3107538	ppbv		97
80)	n-DECANE	12.809	43	5393	0.3102707	ppbv		99
81)	1,1,2,2-Tetrachloroethane	12.748	83	6379	0.2983302	ppbv		98
82)	n-Propylbenzene	12.803	91	12291	0.2988857	ppbv		100
83)	4-Ethyltoluene	12.906	105	10044	0.3043022	ppbv		97
84)	2-Chlorotoluene	12.961	126	2643	0.3159361	ppbv		99
86)	1,3,5-Trimethylbenzene	12.955	105	8673	0.3103314	ppbv		100
87)	Tert-Butylbenzene	13.259	119	7966	0.3153529	ppbv		99
88)	1,2,4-Trimethylbenzene	13.314	105	8578	0.3211666	ppbv		97
89)	sec-Butylbenzene	13.551	134	2392	0.3106236	ppbv		97
90)	1,3-Dichlorobenzene	13.636	146	4070	0.2640202	ppbv		99
91)	P-ISOPROPYLTOLUENE	13.551	119	9652	0.3082226	ppbv		98
92)	1,4-Dichlorobenzene	13.709	146	3702	0.2567520	ppbv	#	96
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	8286	0.3108434	ppbv		98
94)	Benzyl Chloride	13.813	91	4474	0.2668592	ppbv		100
95)	n-Butylbenzene	13.904	91	8450	0.2898971	ppbv		99
96)	1,2-Dichlorobenzene	14.044	146	4522	0.2910040	ppbv		99
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	2019	0.2691336	ppbv		97
98)	1,2,4-Trichlorobenzene	15.528	180	1432	0.2347684	ppbv		91
99)	Hexachloro-1,3-Butadiene	15.601	225	4366	0.2968829	ppbv		98
100)	Naphthalene	15.827	128	3678	0.2366256	ppbv		98
101)	TPH (GC/MS) Low Fraction	10.000	TIC	1005953m	14.6054816	ppbv		
102)	TPH-GRO (C5-C10)	10.000	TIC	1580427m	24.3933184	ppbv		

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

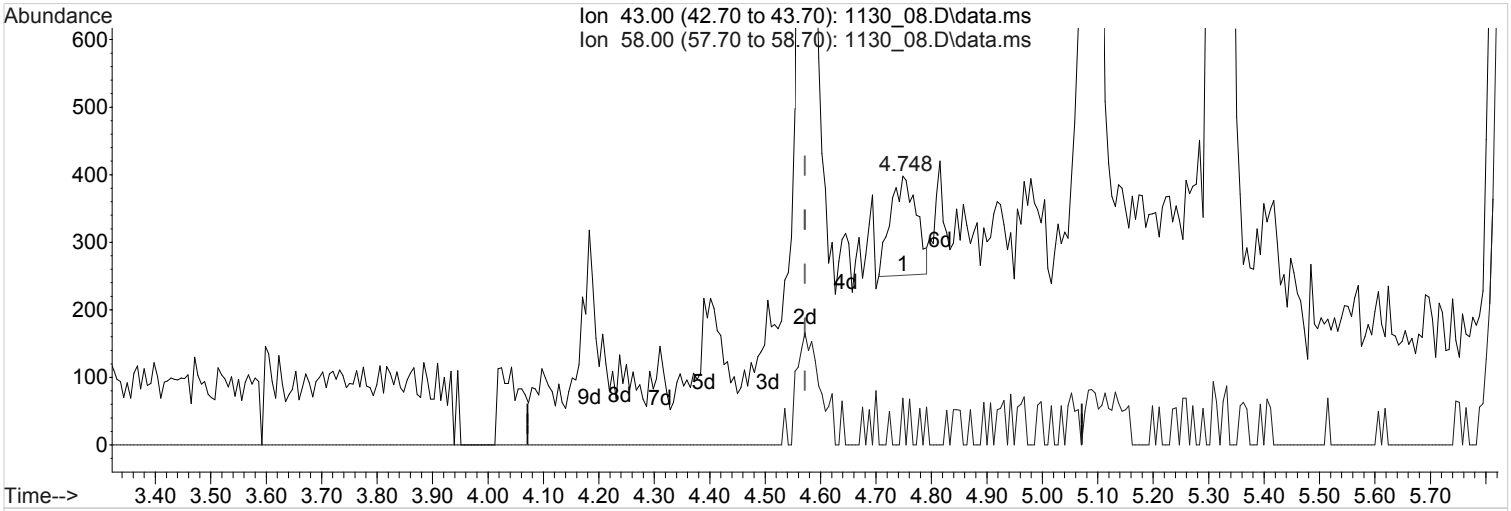
Quant Time: Dec 01 08:06:55 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration

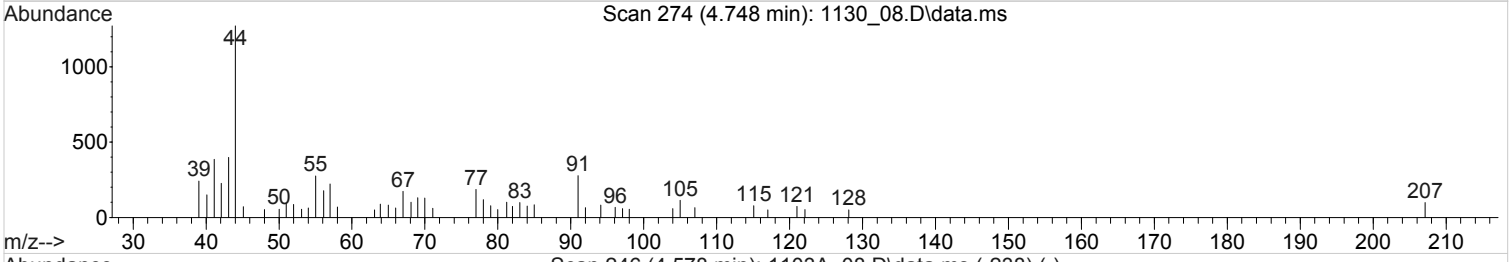


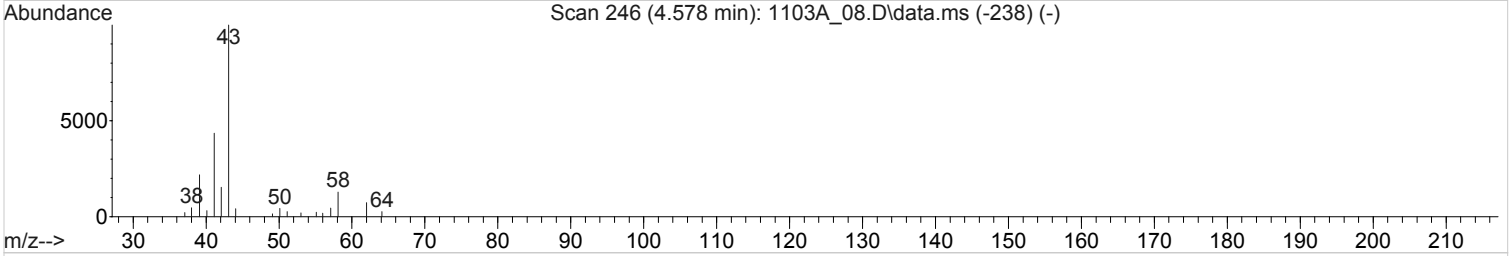
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 01 08:05:37 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration







TIC: 1130_08.D\data.ms

(3) BUTANE (T)

4.748min (+0.177) 0.0491362 ppbv

Qvalue = 99

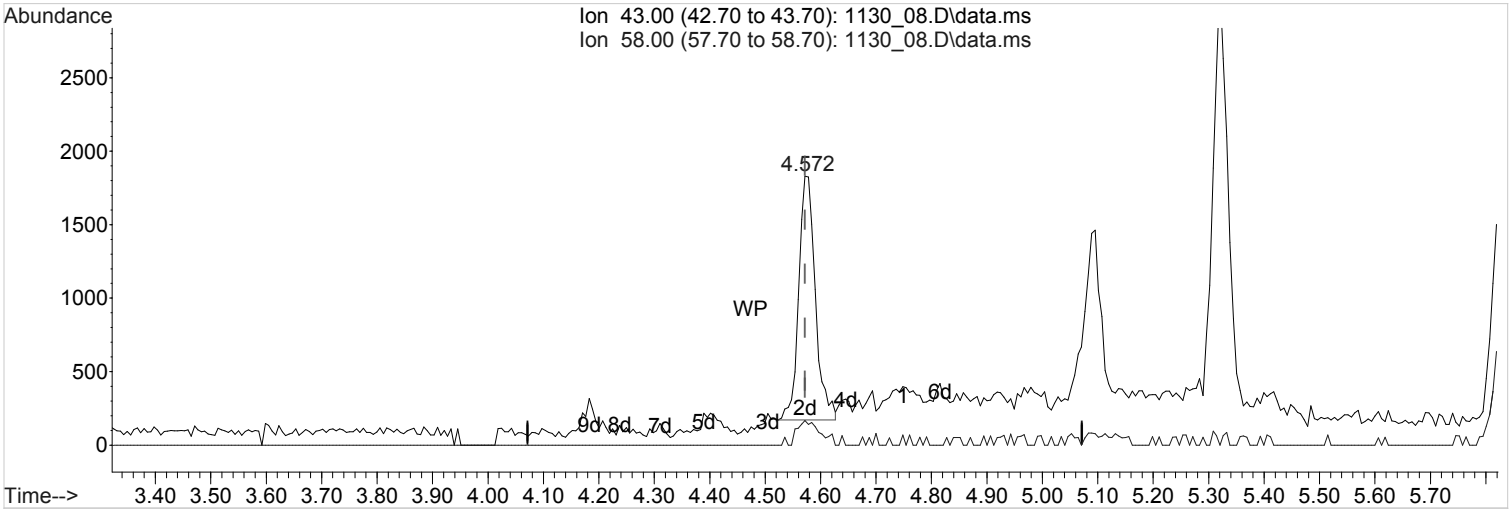
response 476

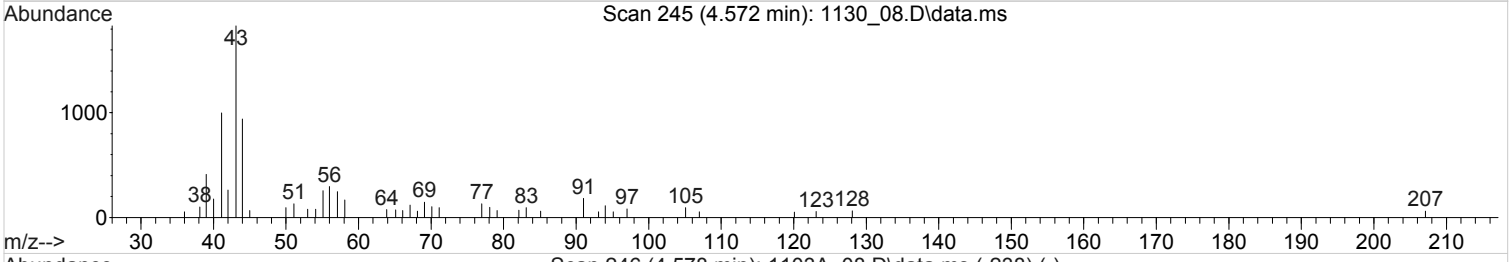
Ion	Exp%	Act%
43.00	100	100
58.00	10.00	10.50
0.00	0.00	0.00
0.00	0.00	0.00

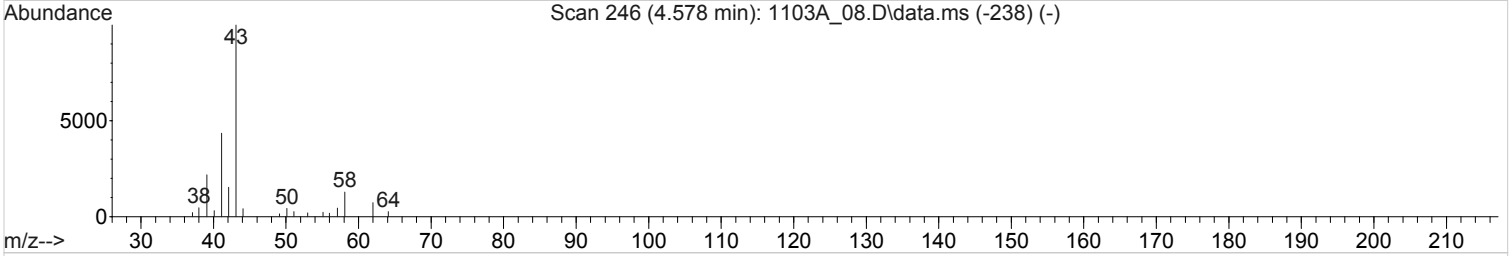
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 01 08:05:37 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration







TIC: 1130_08.D\data.ms

(3) BUTANE (T)

4.572min (+0.000) 0.3576829 ppbv m

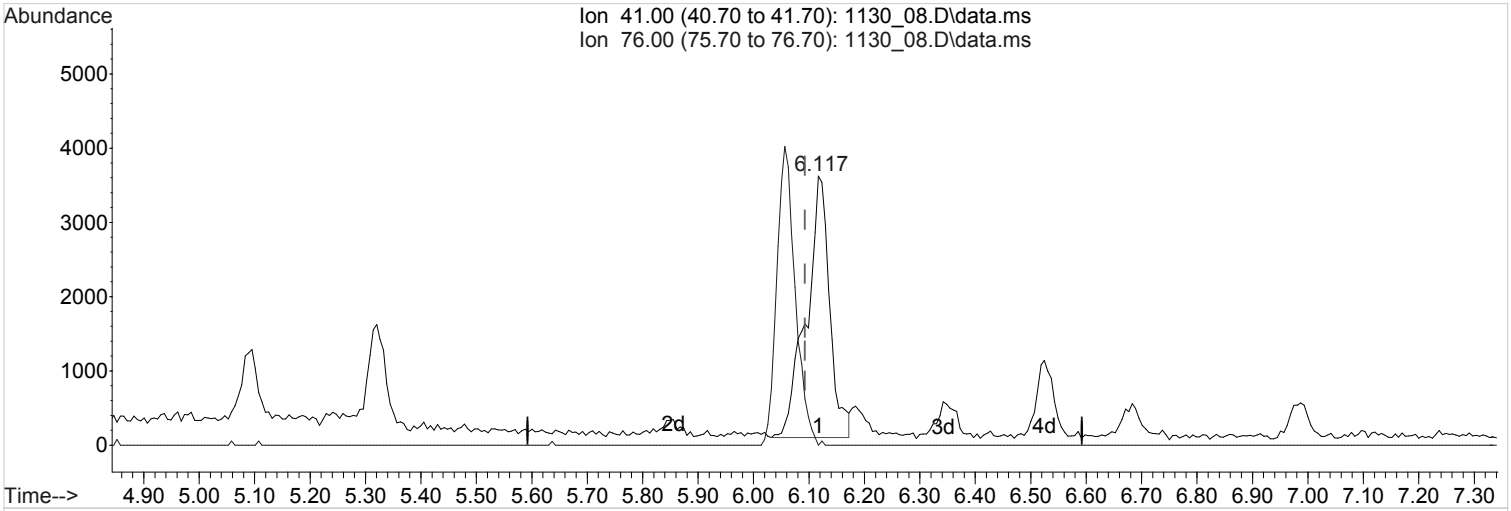
response 3465

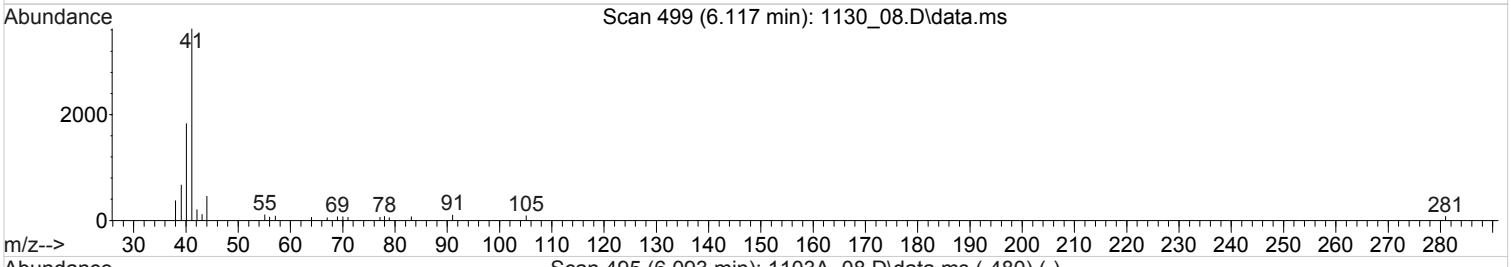
Ion	Exp%	Act%
43.00	100	100
58.00	10.00	1.44#
0.00	0.00	0.00
0.00	0.00	0.00

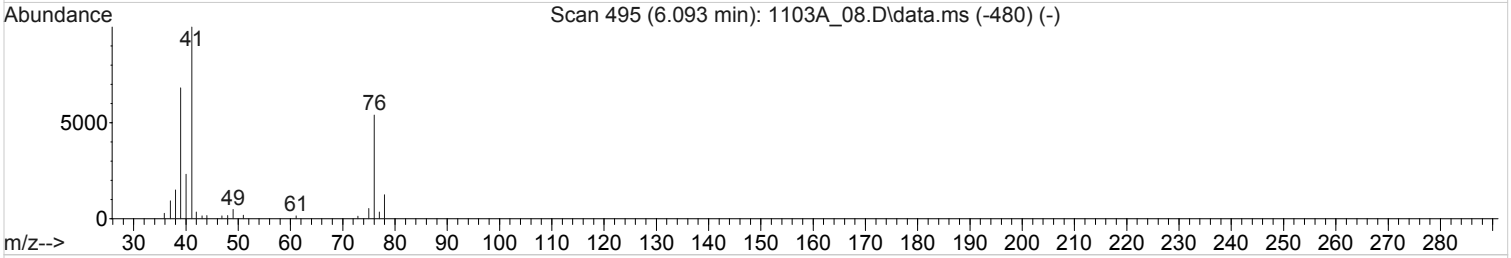
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 01 08:05:37 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration







TIC: 1130_08.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.025) 1.2822994 ppbv

Qvalue = 1

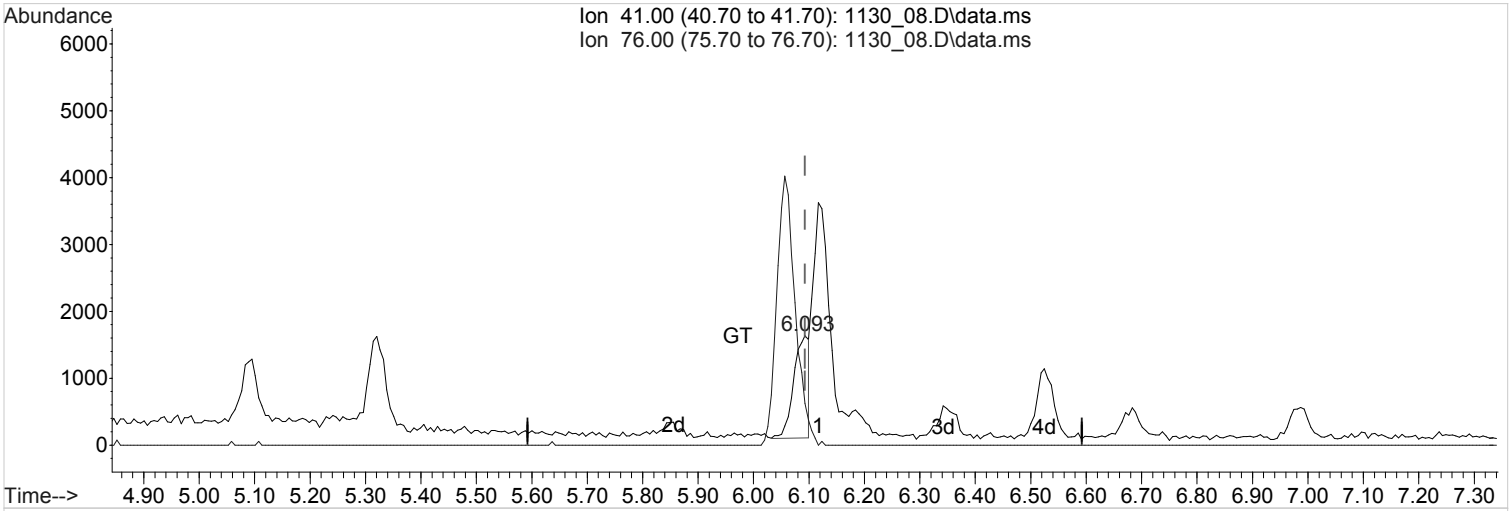
response 10273

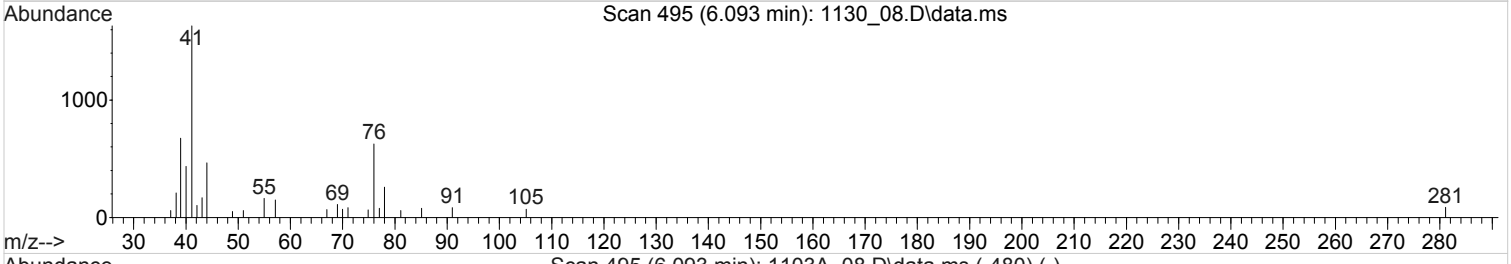
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	90.73#
0.00	0.00	0.00
0.00	0.00	0.00

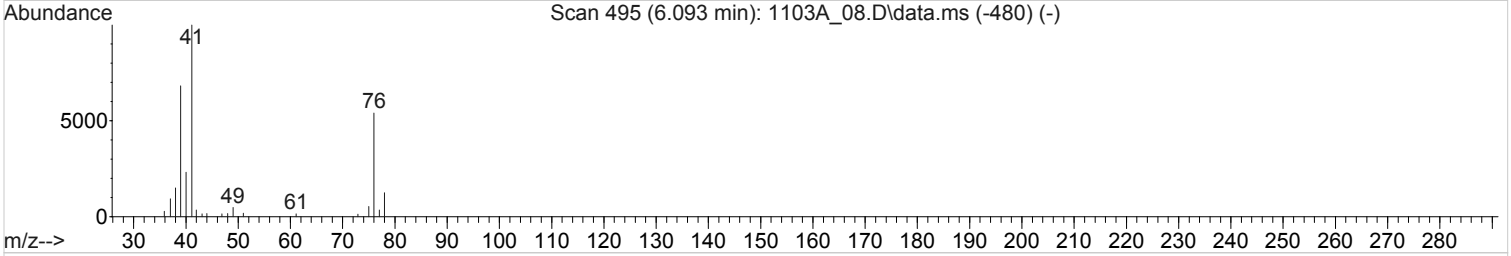
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_08.D
Acq On : 30 Nov 2022 7:29 pm
Operator :
Sample : STD AMS 0.31 ppbv 22K29457
Misc : 22K22745
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 01 08:05:37 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:05:32 2022
Response via : Initial Calibration







TIC: 1130_08.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 0.3684754 ppbv m

response 2952

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	315.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_09.D
Acq On : 30 Nov 2022 8:09 pm
Operator :
Sample : STD AMS 0.63 ppbv 22K29457
Misc : 22K22745
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 01 08:08:13 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:07:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	101168	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	380143	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	344670	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.633	95	224426	3.9750894	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 99.38%				
Target Compounds							Qvalue
2) Propene	4.182	41	4871	0.4932732	ppbv		96
3) BUTANE	4.578	43	6526	0.6396538	ppbv		100
4) 1,1-DIFLUOROETHANE	4.182	51	5053	0.6244512	ppbv		99
5) Dichlorodifluoromethane	4.225	85	10876	0.6383135	ppbv		99
6) CHLORODIFLUOROMETHANE	4.243	51	6150	0.6603608	ppbv		98
7) 1,2-Dichlorotetrafluor...	4.377	85	12044	0.6526125	ppbv		99
8) Chloromethane	4.487	50	3878	0.6574066	ppbv		96
9) Vinyl Chloride	4.602	62	3952	0.6969960	ppbv		93
10) 1,3-Butadiene	4.633	39	2736	0.6903169	ppbv		98
11) Bromomethane	4.992	94	3703	0.6165163	ppbv		91
12) Chloroethane	5.071	64	1681	0.6032721	ppbv	#	81
13) ISOPENTANE	5.089	43	4259	0.5781620	ppbv		98
14) Vinyl Bromide	5.259	106	3788	0.6203260	ppbv		98
15) Trichlorofluoromethane	5.284	101	9272	0.6653799	ppbv		99
16) PENTANE	5.320	43	8628	0.4949997	ppbv	#	94
17) Ethanol	5.405	45	2651	0.5486761	ppbv		97
18) ACROLEIN	5.709	56	1982	0.6213586	ppbv		98
19) 1,1,2-Trichlorotrifluo...	5.697	101	9969	0.6592944	ppbv		97
20) 1,1-Dichloroethene	5.782	61	6918	0.6437245	ppbv		99
21) Acetone	5.825	43	7494	0.5982971	ppbv		99
22) BROMOETHANE	5.959	108	4229	0.6710083	ppbv		99
23) 2-Propanol	5.843	45	8057	0.5917068	ppbv		99
24) Carbon Disulfide	6.056	76	17770	0.5977124	ppbv		97
25) Allyl Chloride	6.087	41	4057m	0.4755895	ppbv		
26) METHYL ACETATE	6.050	43	7932	0.6572293	ppbv	#	99
27) ACETONITRILE	6.117	41	21413	3.2376266	ppbv	#	90
28) Methylene Chloride	6.208	49	4963	0.6295826	ppbv		98
29) TERT-BUTYL ALCOHOL	6.178	59	8040	0.6439674	ppbv		98
30) Methyl Tert-Butyl Ether	6.348	73	11142	0.6572810	ppbv		99
31) Trans-1,2-Dichloroethene	6.403	61	6975	0.6531760	ppbv		95
32) ACRYLONITRILE	6.433	53	3745	0.6801115	ppbv		95
33) n-Hexane	6.525	57	6421	0.6267003	ppbv		95
34) 1,1-Dichloroethane	6.786	63	8617	0.6518441	ppbv	#	91
35) Vinyl Acetate	6.719	43	10582	0.6567001	ppbv		99
36) DI-ISOPROPYL ETHER	6.677	45	13189	0.6606507	ppbv		98
37) ETHYL TERT-BUTYL ETHER	6.981	59	14162	0.6706406	ppbv		99
38) ETHYL ACETATE	7.200	45	1610	0.7066854	ppbv		72
39) 2-Butanone (MEK)	7.242	72	2064	0.6130845	ppbv		88
40) cis-1,2-Dichloroethene	7.279	61	6819	0.6699550	ppbv		99
41) Tetrahydrofuran	7.522	42	4498	0.6178659	ppbv		96
42) Chloroform	7.504	83	9738	0.6661028	ppbv		98
43) Cyclohexane	7.723	84	5263	0.6408073	ppbv		98
44) 1,1,1-Trichloroethane	7.705	97	9516	0.6477890	ppbv		98
45) Carbon Tetrachloride	7.839	117	10194	0.6720209	ppbv		98
46) 2,2,4-Trimethylpentane	7.942	57	21403	0.6440402	ppbv		97
48) Benzene	8.033	78	14207	0.6590679	ppbv		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_09.D
Acq On : 30 Nov 2022 8:09 pm
Operator :
Sample : STD AMS 0.63 ppbv 22K29457
Misc : 22K22745
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 01 08:08:13 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:07:04 2022
Response via : Initial Calibration

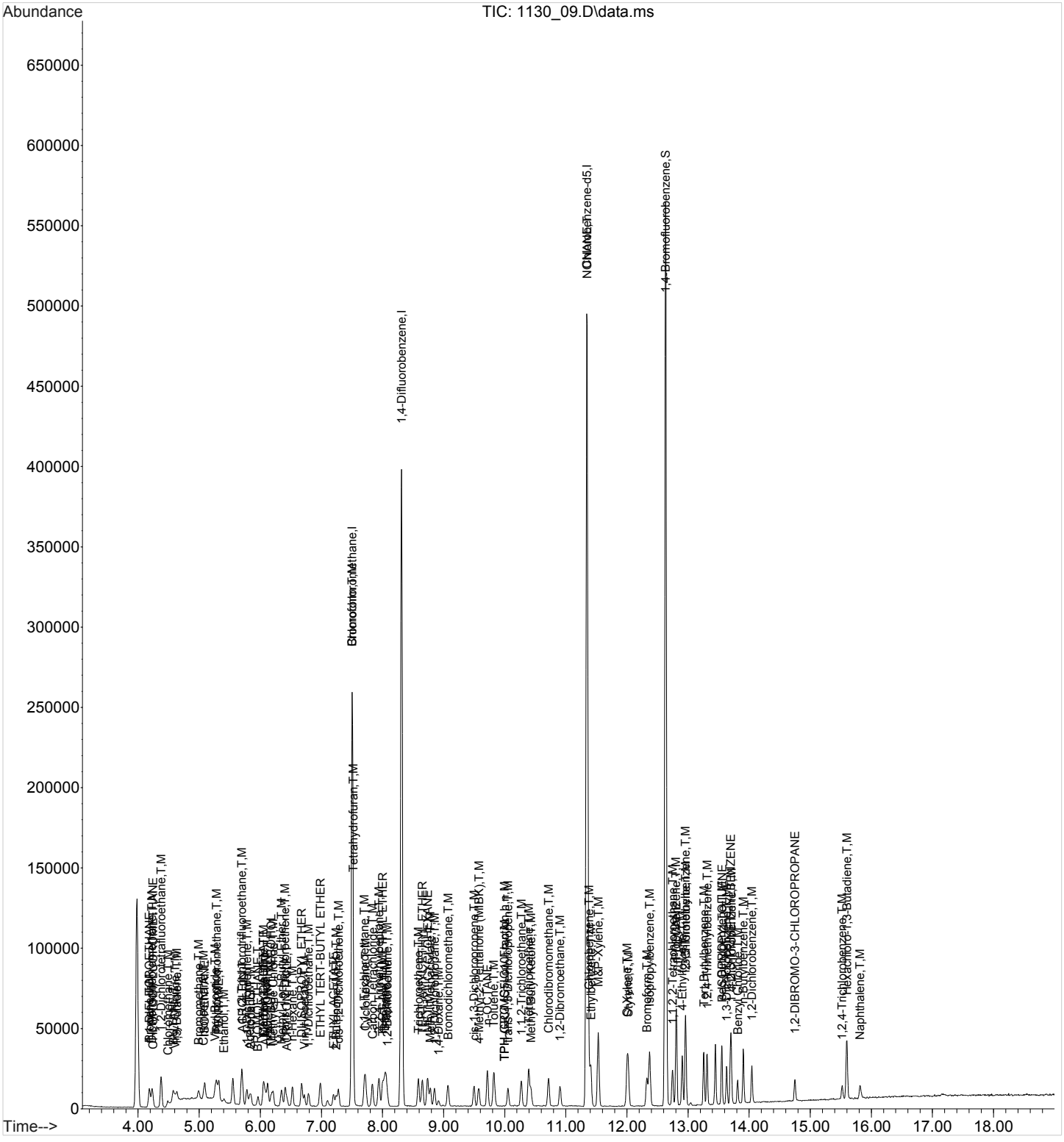
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	TERT-AMYL METHYL ETHER	8.003	73	13765	0.6560094	ppbv		97
50)	1,2-Dichloroethane	8.082	62	5267	0.6927890	ppbv		94
51)	Heptane	8.058	43	7985	0.6683664	ppbv		98
52)	Trichloroethene	8.587	95	6664	0.6494916	ppbv		97
53)	TERT-AMYL ETHYL ETHER	8.654	73	4654	0.6246727	ppbv		94
54)	METHYL CYCLOHEXANE	8.739	83	9039	0.6183496	ppbv		96
55)	1,2-Dichloropropane	8.855	63	5878	0.6893465	ppbv		99
56)	Methyl Methacrylate	8.782	41	5945	0.6266636	ppbv		89
57)	1,4-Dioxane	8.915	88	2851	0.6712753	ppbv	#	93
58)	Bromodichloromethane	9.074	83	10467	0.6418689	ppbv		98
59)	cis-1,3-Dichloropropene	9.499	75	8961	0.6758009	ppbv		93
60)	4-Methyl-2-Pentanone (...	9.579	43	9790	0.6467846	ppbv		99
61)	n-OCTANE	9.718	43	12073	0.6566916	ppbv		97
62)	Toluene	9.822	91	17687	0.6428092	ppbv		98
63)	trans-1,3-Dichloropropene	10.053	75	7768	0.6572496	ppbv		94
64)	1,1,2-Trichloroethane	10.272	97	6565	0.6480069	ppbv		98
65)	Tetrachloroethene	10.394	166	8717	0.6460142	ppbv		98
66)	Methyl Butyl Ketone	10.430	43	8713	0.6233636	ppbv		100
67)	Chlorodibromomethane	10.716	129	11951	0.6585153	ppbv		99
68)	1,2-Dibromoethane	10.905	107	10568	0.6675044	ppbv		99
69)	Chlorobenzene	11.379	112	13323	0.6762248	ppbv	#	80
70)	NONANE	11.349	43	12721	0.6325399	ppbv		98
72)	Ethylbenzene	11.410	91	21160	0.6480419	ppbv		100
73)	M&P-Xylene	11.531	91	33351	1.3026183	ppbv		99
74)	O-Xylene	12.000	91	17048	0.6377816	ppbv		100
77)	Styrene	12.024	104	13770	0.6517146	ppbv		99
78)	Bromoform	12.328	173	11494	0.6504783	ppbv		99
79)	Isopropylbenzene	12.371	105	23621	0.6465224	ppbv		99
80)	n-DECANE	12.809	43	11172	0.6283820	ppbv		99
81)	1,1,2,2-Tetrachloroethane	12.748	83	13717	0.6353261	ppbv		99
82)	n-Propylbenzene	12.803	91	26473	0.6371643	ppbv		99
83)	4-Ethyltoluene	12.906	105	21404	0.6380742	ppbv		100
84)	2-Chlorotoluene	12.961	126	5899	0.6852138	ppbv		95
86)	1,3,5-Trimethylbenzene	12.955	105	18714	0.6546018	ppbv		99
87)	Tert-Butylbenzene	13.259	119	16834	0.6479779	ppbv		98
88)	1,2,4-Trimethylbenzene	13.314	105	17962	0.6498668	ppbv		99
89)	sec-Butylbenzene	13.551	134	5090	0.6459648	ppbv		98
90)	1,3-Dichlorobenzene	13.630	146	9688	0.6465566	ppbv		99
91)	P-ISOPROPYLTOLUENE	13.557	119	20686	0.6472371	ppbv		99
92)	1,4-Dichlorobenzene	13.709	146	9144	0.6578527	ppbv		98
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	17788	0.6519872	ppbv		99
94)	Benzyl Chloride	13.813	91	10194	0.6235453	ppbv		100
95)	n-Butylbenzene	13.904	91	18974	0.6506473	ppbv		100
96)	1,2-Dichlorobenzene	14.044	146	9646	0.6197082	ppbv		100
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	4483	0.6112588	ppbv		96
98)	1,2,4-Trichlorobenzene	15.522	180	3391	0.5915177	ppbv		99
99)	Hexachloro-1,3-Butadiene	15.601	225	9205	0.6208736	ppbv		100
100)	Naphthalene	15.814	128	8769	0.5989641	ppbv		100
101)	TPH (GC/MS) Low Fraction	10.000	TIC	1965316m	29.3771180	ppbv		
102)	TPH-GRO (C5-C10)	10.000	TIC	2576757m	38.8546101	ppbv		

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_09.D
Acq On : 30 Nov 2022 8:09 pm
Operator :
Sample : STD AMS 0.63 ppbv 22K29457
Misc : 22K22745
ALS Vial : 9 Sample Multiplier: 1

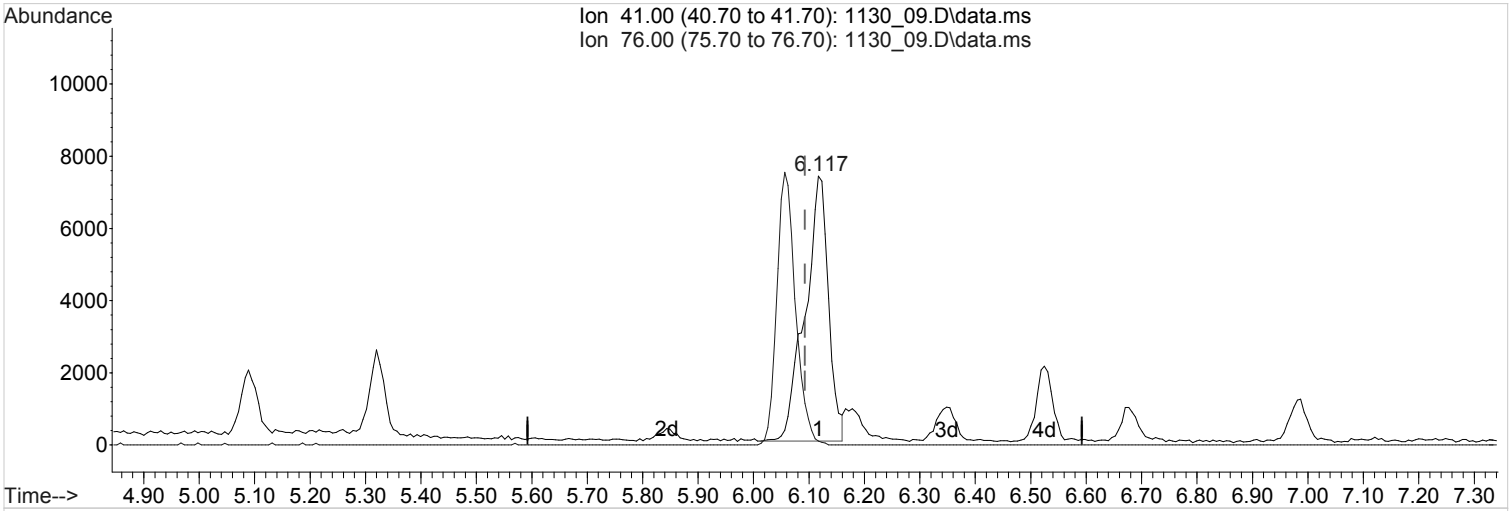
Quant Time: Dec 01 08:08:13 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:07:04 2022
Response via : Initial Calibration

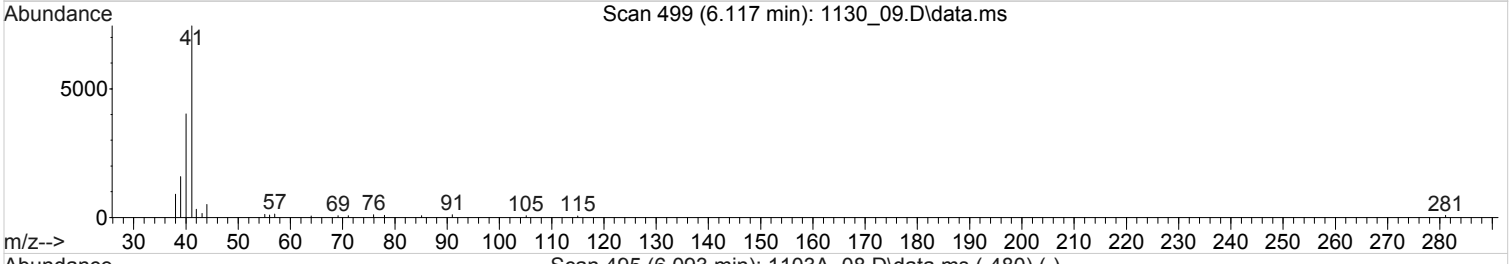


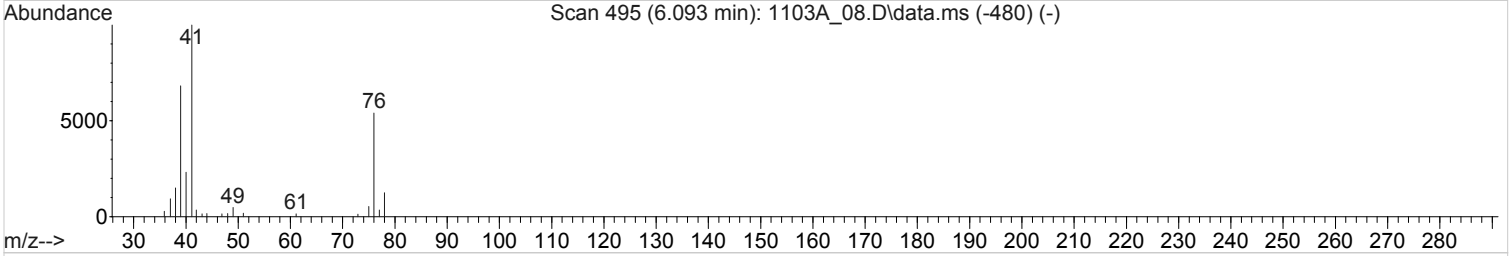
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_09.D
Acq On : 30 Nov 2022 8:09 pm
Operator :
Sample : STD AMS 0.63 ppbv 22K29457
Misc : 22K22745
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 01 08:07:09 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:07:04 2022
Response via : Initial Calibration







TIC: 1130_09.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 2.5101794 ppbv

Qvalue = 1

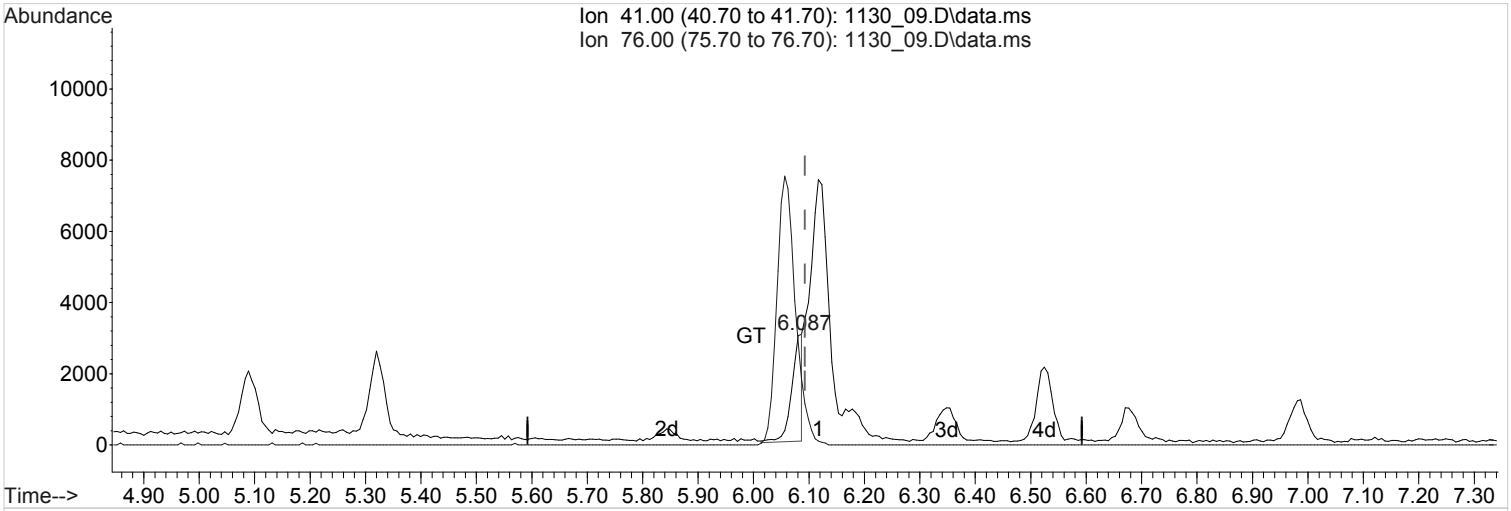
response 21413

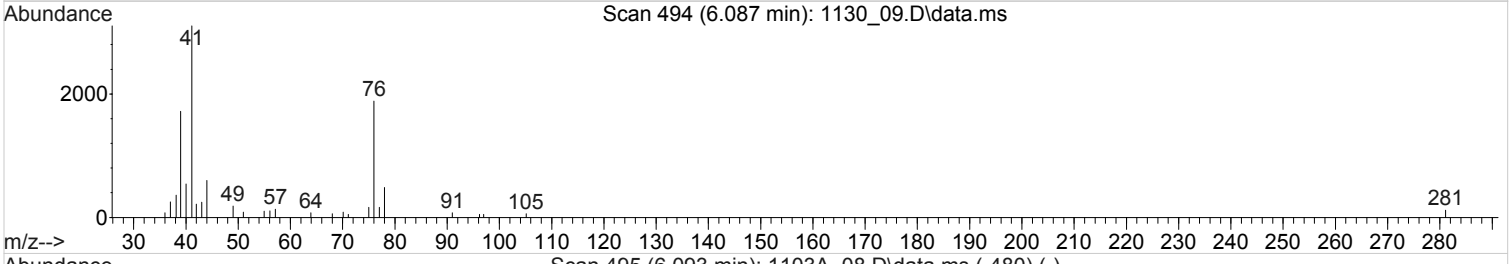
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	82.99#
0.00	0.00	0.00
0.00	0.00	0.00

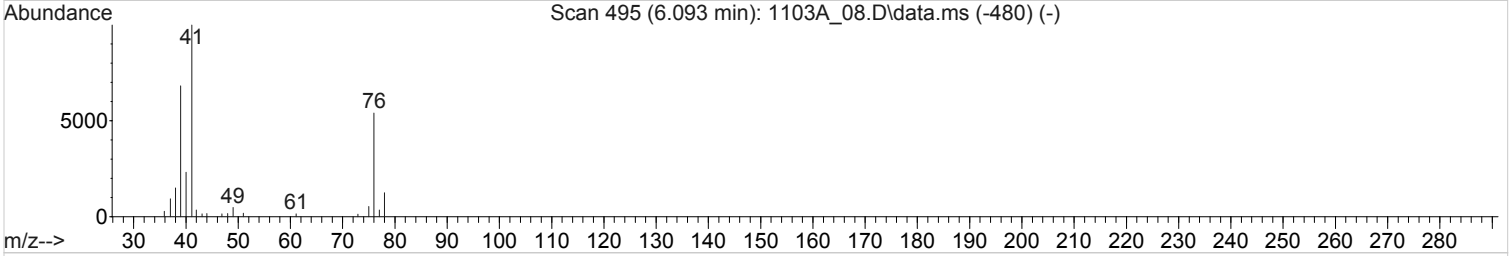
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_09.D
Acq On : 30 Nov 2022 8:09 pm
Operator :
Sample : STD AMS 0.63 ppbv 22K29457
Misc : 22K22745
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 01 08:07:09 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:07:04 2022
Response via : Initial Calibration







TIC: 1130_09.D\data.ms

(25) Allyl Chloride (T,M)

6.087min (-0.006) 0.4755895 ppbv m

response 4057

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	438.01#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_10.D
Acq On : 30 Nov 2022 8:50 pm
Operator :
Sample : STD AMS 1.25 ppbv 22K29457
Misc : 22K22745
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 01 08:09:27 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:08:22 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	99744	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.313	114	376807	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.349	117	343075	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.632	95	226149	4.0305054	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.76%				
Target Compounds						Qvalue	
2) Propene	4.182	41	8376	0.9096811	ppbv		98
3) BUTANE	4.572	43	12674	1.2551841	ppbv		97
4) 1,1-DIFLUOROETHANE	4.182	51	9983	1.2540765	ppbv		98
5) Dichlorodifluoromethane	4.225	85	22231	1.3190153	ppbv		98
6) CHLORODIFLUOROMETHANE	4.243	51	11938	1.2846743	ppbv		98
7) 1,2-Dichlorotetrafluor...	4.371	85	23767	1.2946004	ppbv		100
8) Chloromethane	4.487	50	7833	1.3323338	ppbv		99
9) Vinyl Chloride	4.602	62	7536	1.3131532	ppbv		97
10) 1,3-Butadiene	4.633	39	5400	1.3496154	ppbv		91
11) Bromomethane	4.992	94	7074	1.2009980	ppbv		95
12) Chloroethane	5.071	64	3125	1.1496955	ppbv		95
13) ISOPENTANE	5.089	43	7325	1.0297523	ppbv	#	88
14) Vinyl Bromide	5.259	106	7361	1.2273647	ppbv		97
15) Trichlorofluoromethane	5.284	101	18410	1.3214523	ppbv		100
16) PENTANE	5.320	43	15260	0.9382486	ppbv		98
17) Ethanol	5.405	45	4477	0.9711722	ppbv		97
18) ACROLEIN	5.709	56	3701	1.1808805	ppbv		100
19) 1,1,2-Trichlorotrifluo...	5.697	101	20012	1.3269520	ppbv		99
20) 1,1-Dichloroethene	5.776	61	14356	1.3475672	ppbv		100
21) Acetone	5.825	43	13812	1.1326989	ppbv		99
22) BROMOETHANE	5.965	108	8348	1.3219609	ppbv		99
23) 2-Propanol	5.843	45	15614	1.1810106	ppbv		96
24) Carbon Disulfide	6.056	76	34129	1.1794653	ppbv		99
25) Allyl Chloride	6.087	41	7679m	0.9726340	ppbv		
26) METHYL ACETATE	6.050	43	15654	1.3015127	ppbv	#	100
27) ACETONITRILE	6.117	41	42855	6.5267546	ppbv	#	92
28) Methylene Chloride	6.208	49	9530	1.2263930	ppbv		95
29) TERT-BUTYL ALCOHOL	6.178	59	16623	1.3429911	ppbv	#	1
30) Methyl Tert-Butyl Ether	6.342	73	22258	1.3175106	ppbv		99
31) Trans-1,2-Dichloroethene	6.403	61	14139	1.3307155	ppbv		99
32) ACRYLONITRILE	6.433	53	7428	1.3415447	ppbv		98
33) n-Hexane	6.525	57	13569	1.3450255	ppbv		99
34) 1,1-Dichloroethane	6.786	63	17343	1.3192281	ppbv		98
35) Vinyl Acetate	6.719	43	20879	1.3004335	ppbv		99
36) DI-ISOPROPYL ETHER	6.677	45	26807	1.3455944	ppbv		98
37) ETHYL TERT-BUTYL ETHER	6.981	59	28078	1.3272102	ppbv		99
38) ETHYL ACETATE	7.200	45	2664	1.1509914	ppbv		95
39) 2-Butanone (MEK)	7.242	72	4320	1.3103153	ppbv		98
40) cis-1,2-Dichloroethene	7.279	61	13567	1.3308630	ppbv		98
41) Tetrahydrofuran	7.516	42	8797	1.2315781	ppbv		99
42) Chloroform	7.504	83	18338	1.2543019	ppbv		99
43) Cyclohexane	7.723	84	10198	1.2540272	ppbv		99
44) 1,1,1-Trichloroethane	7.705	97	18727	1.2839520	ppbv		98
45) Carbon Tetrachloride	7.833	117	20402	1.3417918	ppbv		99
46) 2,2,4-Trimethylpentane	7.942	57	43107	1.3083669	ppbv		98
48) Benzene	8.033	78	27586	1.2763321	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_10.D
Acq On : 30 Nov 2022 8:50 pm
Operator :
Sample : STD AMS 1.25 ppbv 22K29457
Misc : 22K22745
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 01 08:09:27 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:08:22 2022
Response via : Initial Calibration

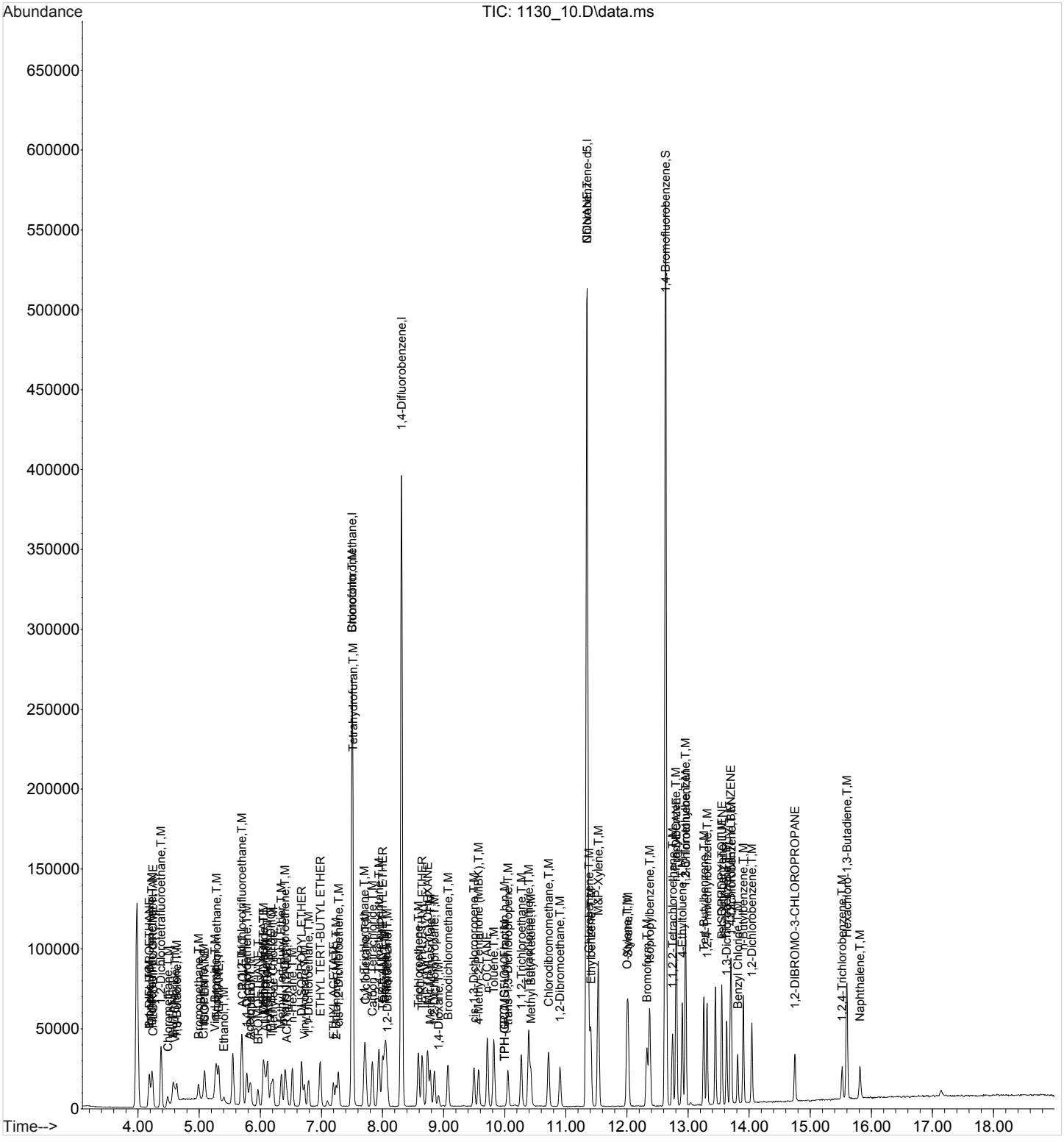
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	TERT-AMYL METHYL ETHER	8.003	73	27312	1.2997383	ppbv		98
50)	1,2-Dichloroethane	8.082	62	10608	1.3734436	ppbv		98
51)	Heptane	8.058	43	15145	1.2597222	ppbv		99
52)	Trichloroethene	8.587	95	13389	1.3063769	ppbv		99
53)	TERT-AMYL ETHYL ETHER	8.648	73	9015	1.2233169	ppbv		96
54)	METHYL CYCLOHEXANE	8.739	83	17950	1.2445681	ppbv		98
55)	1,2-Dichloropropane	8.848	63	11668	1.3487246	ppbv		99
56)	Methyl Methacrylate	8.782	41	12466	1.3274345	ppbv		98
57)	1,4-Dioxane	8.915	88	5656	1.3218591	ppbv		96
58)	Bromodichloromethane	9.074	83	20544	1.2650173	ppbv		97
59)	cis-1,3-Dichloropropene	9.493	75	17836	1.3328012	ppbv		98
60)	4-Methyl-2-Pentanone (...	9.572	43	19420	1.2857933	ppbv		100
61)	n-OCTANE	9.712	43	24117	1.3095491	ppbv		99
62)	Toluene	9.822	91	35909	1.3099578	ppbv		100
63)	trans-1,3-Dichloropropene	10.053	75	15395	1.3000435	ppbv		97
64)	1,1,2-Trichloroethane	10.272	97	13057	1.2909936	ppbv		99
65)	Tetrachloroethene	10.394	166	17603	1.3077918	ppbv		100
66)	Methyl Butyl Ketone	10.430	43	17552	1.2702044	ppbv		99
67)	Chlorodibromomethane	10.716	129	23877	1.3124499	ppbv		100
68)	1,2-Dibromoethane	10.905	107	20958	1.3159014	ppbv		99
69)	Chlorobenzene	11.379	112	26223	1.3185764	ppbv	#	86
70)	NONANE	11.349	43	25166	1.2611635	ppbv		99
72)	Ethylbenzene	11.410	91	41391	1.2644729	ppbv		99
73)	M&P-Xylene	11.531	91	66988	2.6011970	ppbv		100
74)	O-Xylene	12.000	91	34728	1.3012289	ppbv		99
77)	Styrene	12.018	104	27321	1.2879775	ppbv		98
78)	Bromoform	12.328	173	22962	1.2950031	ppbv		99
79)	Isopropylbenzene	12.371	105	47577	1.2997464	ppbv		99
80)	n-DECANE	12.809	43	23096	1.3059391	ppbv		99
81)	1,1,2,2-Tetrachloroethane	12.748	83	27514	1.2775820	ppbv		99
82)	n-Propylbenzene	12.803	91	55842	1.3464516	ppbv		100
83)	4-Ethyltoluene	12.906	105	43480	1.2980485	ppbv		99
84)	2-Chlorotoluene	12.961	126	11845	1.3526469	ppbv		98
86)	1,3,5-Trimethylbenzene	12.955	105	37124	1.2919938	ppbv		99
87)	Tert-Butylbenzene	13.259	119	33921	1.3024727	ppbv		99
88)	1,2,4-Trimethylbenzene	13.314	105	34889	1.2582363	ppbv		99
89)	sec-Butylbenzene	13.551	134	10185	1.2903984	ppbv		97
90)	1,3-Dichlorobenzene	13.630	146	21353	1.4223345	ppbv		100
91)	P-ISOPROPYLTOLUENE	13.551	119	41180	1.2856630	ppbv		100
92)	1,4-Dichlorobenzene	13.709	146	21297	1.5224797	ppbv		99
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	35055	1.2796863	ppbv		99
94)	Benzyl Chloride	13.813	91	21211	1.3068109	ppbv		99
95)	n-Butylbenzene	13.904	91	38759	1.3244326	ppbv		99
96)	1,2-Dichlorobenzene	14.044	146	20742	1.3442570	ppbv		99
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	9559	1.3192441	ppbv		98
98)	1,2,4-Trichlorobenzene	15.522	180	7774	1.3835093	ppbv		99
99)	Hexachloro-1,3-Butadiene	15.601	225	18760	1.2758581	ppbv		100
100)	Naphthalene	15.814	128	20460	1.4215191	ppbv		99
101)	TPH (GC/MS) Low Fraction	10.000	TIC	3691019m	57.5216728	ppbv		
102)	TPH-GRO (C5-C10)	10.000	TIC	4534180m	72.3975124	ppbv		

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_10.D
Acq On : 30 Nov 2022 8:50 pm
Operator :
Sample : STD AMS 1.25 ppbv 22K29457
Misc : 22K22745
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 01 08:09:27 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:08:22 2022
Response via : Initial Calibration

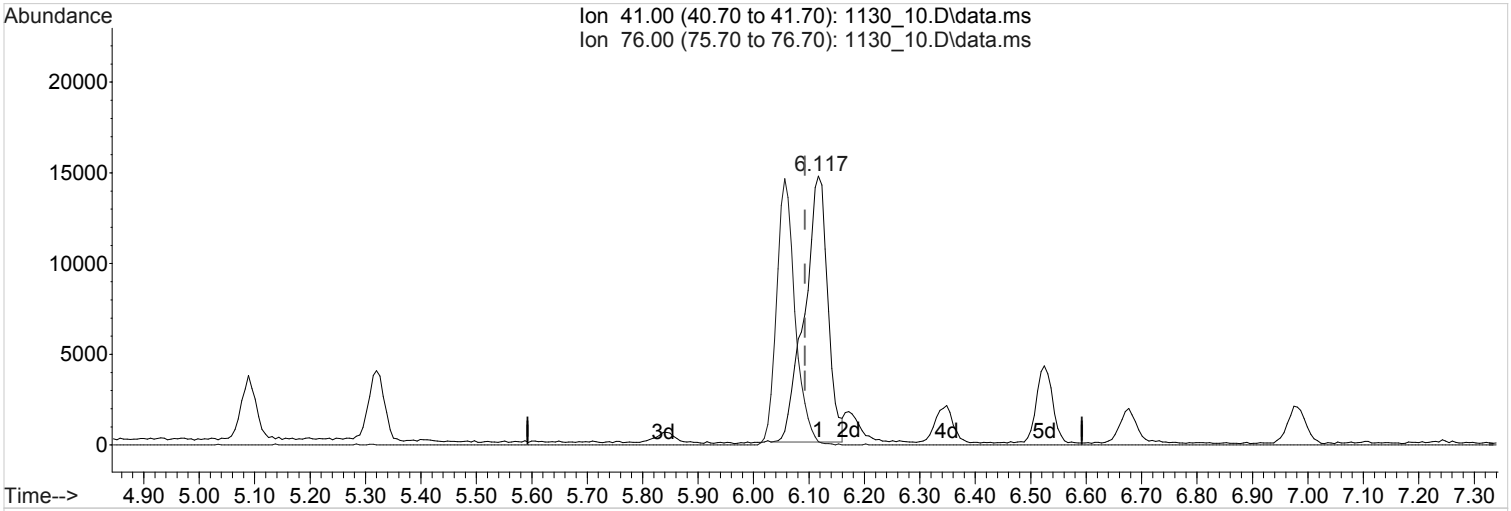


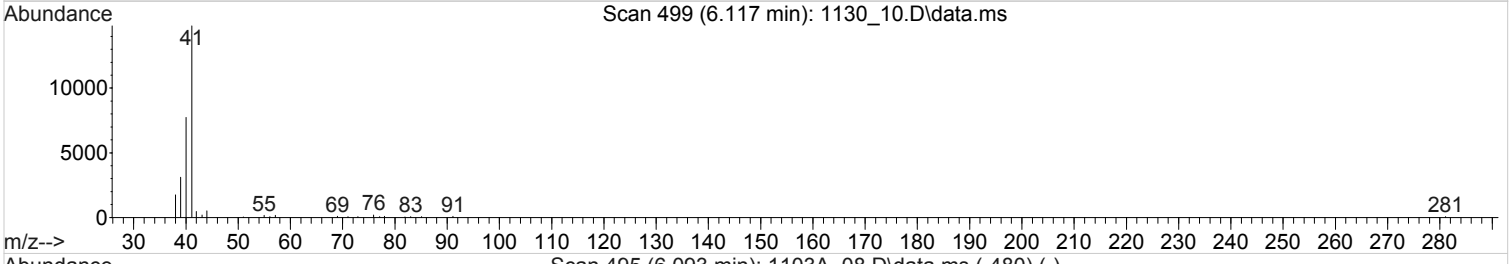
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	261 of 500

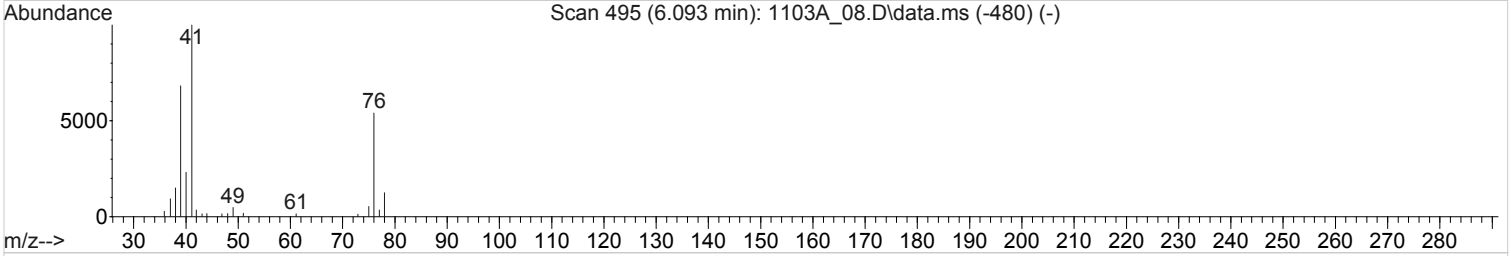
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_10.D
Acq On : 30 Nov 2022 8:50 pm
Operator :
Sample : STD AMS 1.25 ppbv 22K29457
Misc : 22K22745
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 01 08:08:28 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:08:22 2022
Response via : Initial Calibration







TIC: 1130_10.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 5.4280806 ppbv

Qvalue = 1

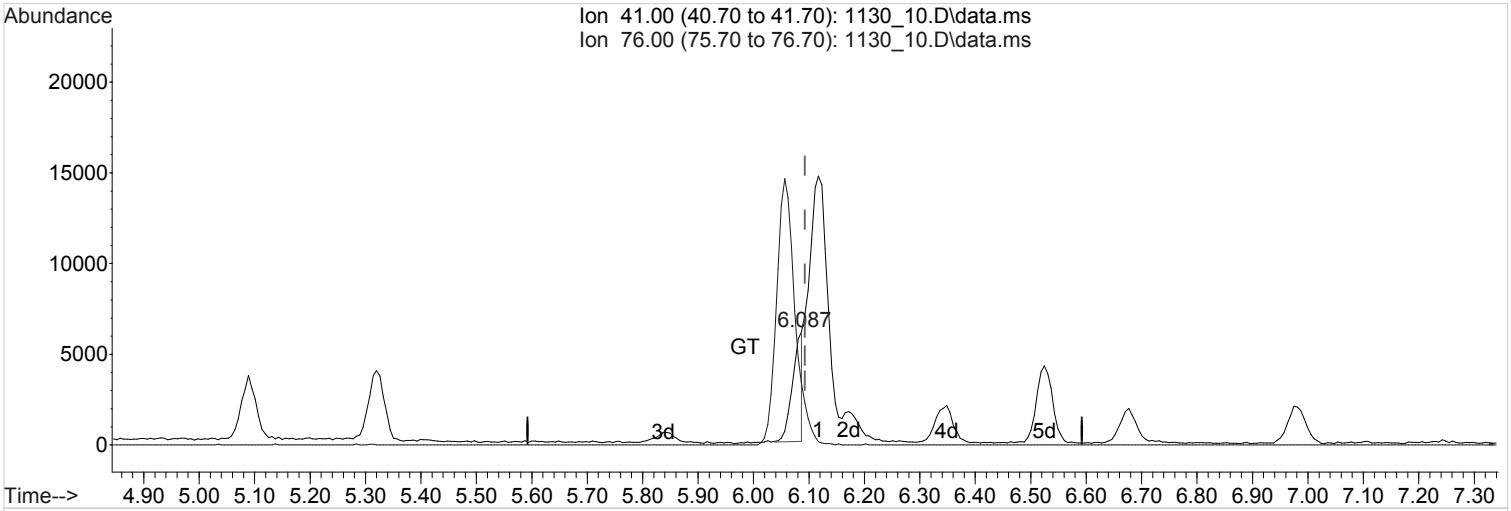
response 42855

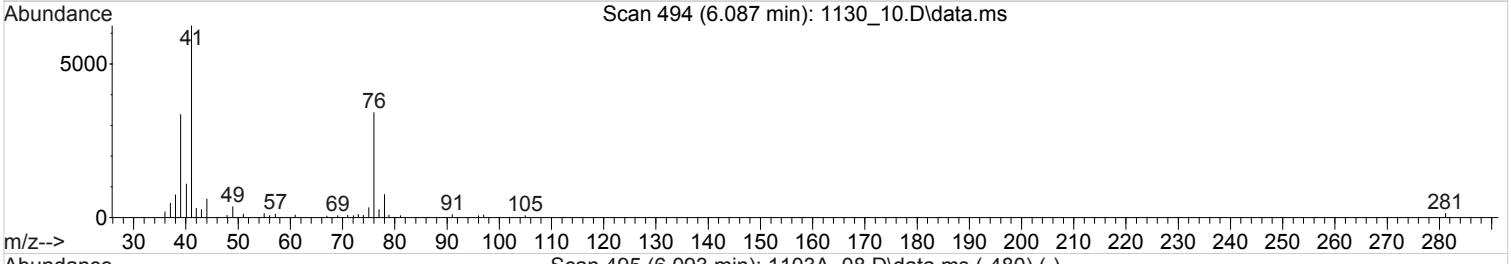
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	79.64#
0.00	0.00	0.00
0.00	0.00	0.00

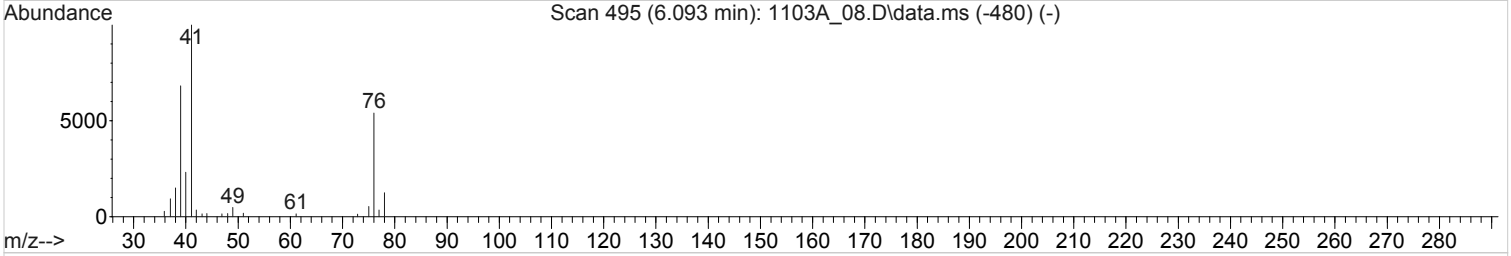
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_10.D
Acq On : 30 Nov 2022 8:50 pm
Operator :
Sample : STD AMS 1.25 ppbv 22K29457
Misc : 22K22745
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 01 08:08:28 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:08:22 2022
Response via : Initial Calibration







TIC: 1130_10.D\data.ms

(25) Allyl Chloride (T,M)

6.087min (-0.006) 0.9726340 ppbv m

response 7679

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	444.45#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_11.D
Acq On : 30 Nov 2022 9:31 pm
Operator :
Sample : STD AMS 2.5 ppbv 22K29457
Misc : 22K22745
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 01 08:10:39 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:09:36 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	98023	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	370651	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	335639	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.632	95	223835	4.0714356	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 101.79%			
Target Compounds						Qvalue
2) Propene	4.182	41	14537	1.6990339	ppbv	97
3) BUTANE	4.572	43	22090	2.2242734	ppbv	99
4) 1,1-DIFLUOROETHANE	4.182	51	19435	2.4826935	ppbv	99
5) Dichlorodifluoromethane	4.225	85	43135	2.5757876	ppbv	99
6) CHLORODIFLUOROMETHANE	4.243	51	24562	2.6747378	ppbv	100
7) 1,2-Dichlorotetrafluor...	4.371	85	47644	2.6220455	ppbv	99
8) Chloromethane	4.486	50	15642	2.6720969	ppbv	97
9) Vinyl Chloride	4.602	62	15619	2.7417017	ppbv	98
10) 1,3-Butadiene	4.632	39	9636	2.4121507	ppbv	95
11) Bromomethane	4.991	94	14153	2.4643531	ppbv	99
12) Chloroethane	5.071	64	5899	2.2443800	ppbv	99
13) ISOPENTANE	5.089	43	14257	2.1139399	ppbv	94
14) Vinyl Bromide	5.259	106	14409	2.4536079	ppbv	99
15) Trichlorofluoromethane	5.283	101	36172	2.6121143	ppbv	99
16) PENTANE	5.320	43	27559	1.8147102	ppbv	99
17) Ethanol	5.405	45	8057	1.8614943	ppbv	99
18) ACROLEIN	5.703	56	7620	2.5016716	ppbv	99
19) 1,1,2-Trichlorotrifluo...	5.697	101	39761	2.6501245	ppbv	99
20) 1,1-Dichloroethene	5.776	61	28338	2.6651256	ppbv	99
21) Acetone	5.825	43	26209	2.2289253	ppbv	98
22) BROMOETHANE	5.959	108	16631	2.6493634	ppbv	98
23) 2-Propanol	5.837	45	30214	2.3514036	ppbv	95
24) Carbon Disulfide	6.056	76	65751	2.3385781	ppbv	100
25) Allyl Chloride	6.093	41	21720m	2.9293921	ppbv	
26) METHYL ACETATE	6.044	43	30865	2.5899022	ppbv #	100
27) ACETONITRILE	6.117	41	85848	13.1872886	ppbv	99
28) Methylene Chloride	6.208	49	18658	2.4524724	ppbv	98
29) TERT-BUTYL ALCOHOL	6.172	59	31927	2.5862264	ppbv	99
30) Methyl Tert-Butyl Ether	6.342	73	43392	2.5856545	ppbv	99
31) Trans-1,2-Dichloroethene	6.403	61	27632	2.6125514	ppbv	99
32) ACRYLONITRILE	6.433	53	14189	2.5699744	ppbv	99
33) n-Hexane	6.524	57	25054	2.4892309	ppbv	95
34) 1,1-Dichloroethane	6.786	63	34594	2.6483246	ppbv	98
35) Vinyl Acetate	6.719	43	41936	2.6365367	ppbv	100
36) DI-ISOPROPYL ETHER	6.677	45	52193	2.6256977	ppbv	100
37) ETHYL TERT-BUTYL ETHER	6.981	59	56105	2.6656410	ppbv	100
38) ETHYL ACETATE	7.194	45	5632	2.5159047	ppbv	96
39) 2-Butanone (MEK)	7.236	72	8374	2.5598396	ppbv	91
40) cis-1,2-Dichloroethene	7.279	61	26173	2.5791638	ppbv	99
41) Tetrahydrofuran	7.510	42	16970	2.4246552	ppbv	99
42) Chloroform	7.504	83	36755	2.5563864	ppbv	100
43) Cyclohexane	7.723	84	20972	2.6224719	ppbv	98
44) 1,1,1-Trichloroethane	7.705	97	37564	2.6065037	ppbv	100
45) Carbon Tetrachloride	7.832	117	40022	2.6395993	ppbv	100
46) 2,2,4-Trimethylpentane	7.942	57	85159	2.6057586	ppbv	100
48) Benzene	8.033	78	55235	2.5871237	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_11.D
Acq On : 30 Nov 2022 9:31 pm
Operator :
Sample : STD AMS 2.5 ppbv 22K29457
Misc : 22K22745
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 01 08:10:39 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:09:36 2022
Response via : Initial Calibration

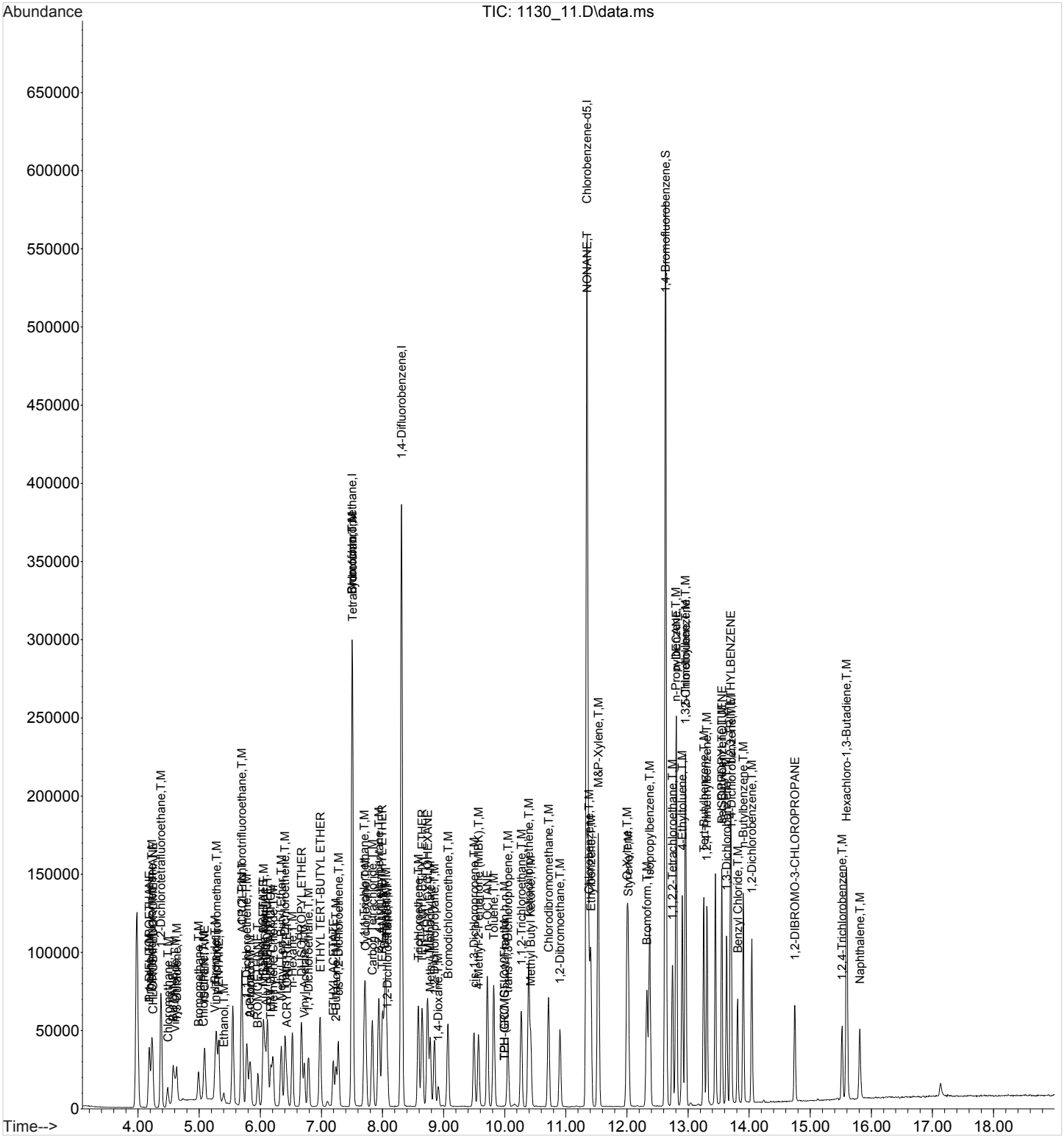
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	TERT-AMYL METHYL ETHER	7.997	73	54510	2.6163141	ppbv	99
50)	1,2-Dichloroethane	8.082	62	20660	2.6666578	ppbv	100
51)	Heptane	8.058	43	30089	2.5403410	ppbv	100
52)	Trichloroethene	8.587	95	26025	2.5583795	ppbv	98
53)	TERT-AMYL ETHYL ETHER	8.648	73	17641	2.4440401	ppbv	99
54)	METHYL CYCLOHEXANE	8.739	83	35226	2.4851291	ppbv	96
55)	1,2-Dichloropropane	8.848	63	22746	2.6313536	ppbv	98
56)	Methyl Methacrylate	8.781	41	22835	2.4417048	ppbv	94
57)	1,4-Dioxane	8.909	88	10932	2.5678188	ppbv	98
58)	Bromodichloromethane	9.073	83	40540	2.5316679	ppbv	97
59)	cis-1,3-Dichloropropene	9.499	75	35797	2.6838145	ppbv	99
60)	4-Methyl-2-Pentanone (...	9.572	43	37713	2.5239848	ppbv	100
61)	n-OCTANE	9.718	43	47359	2.5896227	ppbv	99
62)	Toluene	9.822	91	69725	2.5612376	ppbv	99
63)	trans-1,3-Dichloropropene	10.053	75	31094	2.6481651	ppbv	98
64)	1,1,2-Trichloroethane	10.272	97	25826	2.5790063	ppbv	100
65)	Tetrachloroethene	10.394	166	34564	2.5866184	ppbv	98
66)	Methyl Butyl Ketone	10.424	43	34790	2.5512530	ppbv	100
67)	Chlorodibromomethane	10.716	129	48698	2.6943249	ppbv	100
68)	1,2-Dibromoethane	10.905	107	42339	2.6743150	ppbv	100
69)	Chlorobenzene	11.379	112	52351	2.6470520	ppbv	98
70)	NONANE	11.349	43	49648	2.5248624	ppbv	100
72)	Ethylbenzene	11.410	91	83075	2.5881301	ppbv	100
73)	M&P-Xylene	11.531	91	131062	5.1602161	ppbv	100
74)	O-Xylene	12.000	91	68094	2.5867485	ppbv	99
77)	Styrene	12.024	104	55673	2.6665025	ppbv	100
78)	Bromoform	12.328	173	46905	2.6846084	ppbv	100
79)	Isopropylbenzene	12.371	105	93825	2.5992841	ppbv	100
80)	n-DECANE	12.809	43	46292	2.6517892	ppbv	100
81)	1,1,2,2-Tetrachloroethane	12.742	83	55757	2.6347459	ppbv	99
82)	n-Propylbenzene	12.803	91	110995	2.6940080	ppbv	99
83)	4-Ethyltoluene	12.906	105	88948	2.6935698	ppbv	99
84)	2-Chlorotoluene	12.961	126	23136	2.6569269	ppbv	99
86)	1,3,5-Trimethylbenzene	12.955	105	74963	2.6488722	ppbv	99
87)	Tert-Butylbenzene	13.259	119	66456	2.5865441	ppbv	100
88)	1,2,4-Trimethylbenzene	13.308	105	72214	2.6585192	ppbv	99
89)	sec-Butylbenzene	13.551	134	20392	2.6238628	ppbv	98
90)	1,3-Dichlorobenzene	13.630	146	44551	2.9519163	ppbv	100
91)	P-ISOPROPYLTOLUENE	13.551	119	82674	2.6233445	ppbv	99
92)	1,4-Dichlorobenzene	13.709	146	43091	3.0171965	ppbv	99
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	71816	2.6670642	ppbv	100
94)	Benzyl Chloride	13.813	91	46649	2.9112587	ppbv	99
95)	n-Butylbenzene	13.904	91	77368	2.6705074	ppbv	100
96)	1,2-Dichlorobenzene	14.044	146	44628	2.9124268	ppbv	99
97)	1,2-DIBROMO-3-CHLOROPR...	14.749	157	20225	2.8218425	ppbv	98
98)	1,2,4-Trichlorobenzene	15.522	180	17682	3.1492424	ppbv	100
99)	Hexachloro-1,3-Butadiene	15.595	225	37974	2.6289325	ppbv	99
100)	Naphthalene	15.814	128	44193	3.0546358	ppbv	100
101)	TPH (GC/MS) Low Fraction	10.000	TIC	7082287m	116.6267378	ppbv	
102)	TPH-GRO (C5-C10)	10.000	TIC	8388639m	144.3418135	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_11.D
Acq On : 30 Nov 2022 9:31 pm
Operator :
Sample : STD AMS 2.5 ppbv 22K29457
Misc : 22K22745
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 01 08:10:39 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:09:36 2022
Response via : Initial Calibration

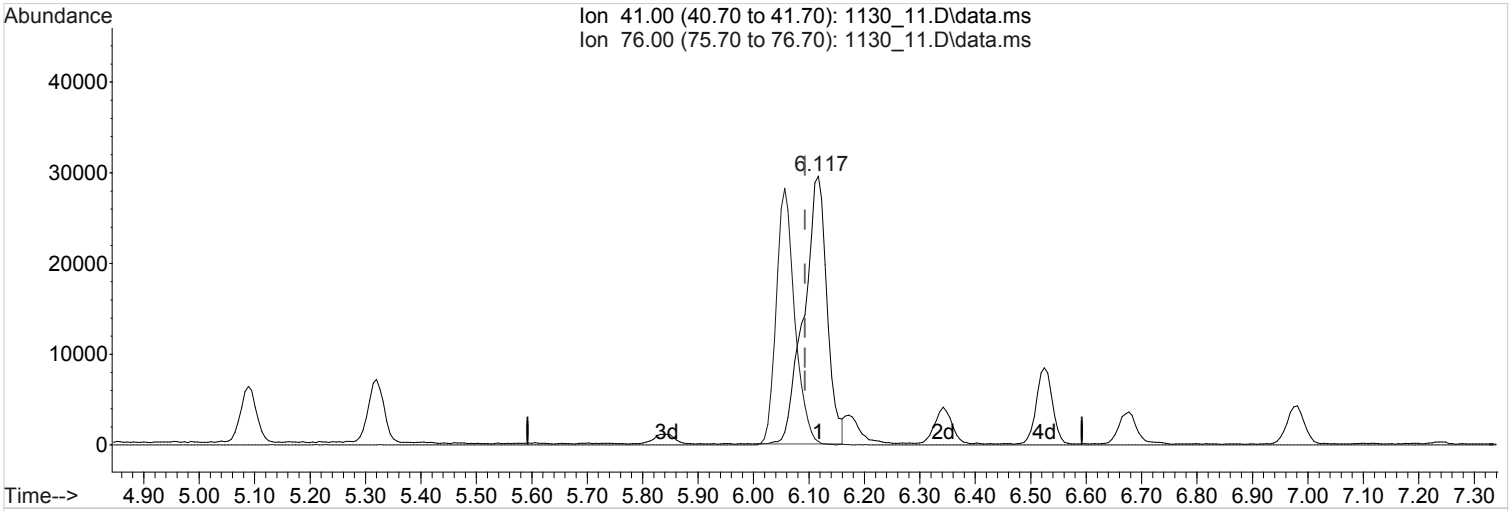


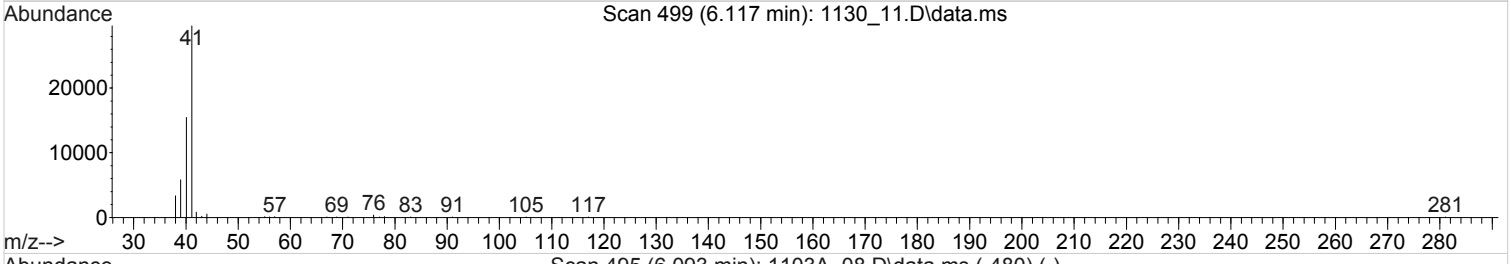
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	266 of 500

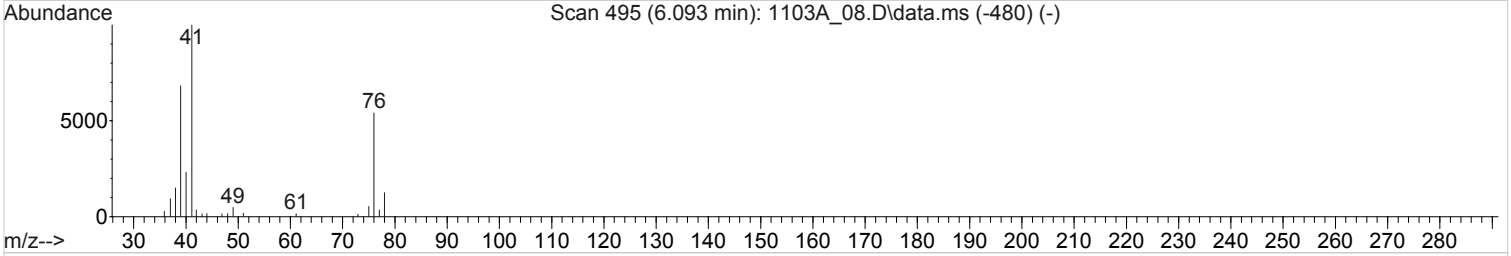
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_11.D
Acq On : 30 Nov 2022 9:31 pm
Operator :
Sample : STD AMS 2.5 ppbv 22K29457
Misc : 22K22745
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 01 08:09:41 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:09:36 2022
Response via : Initial Calibration







TIC: 1130_11.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 11.5783819 ppbv

Qvalue = 1

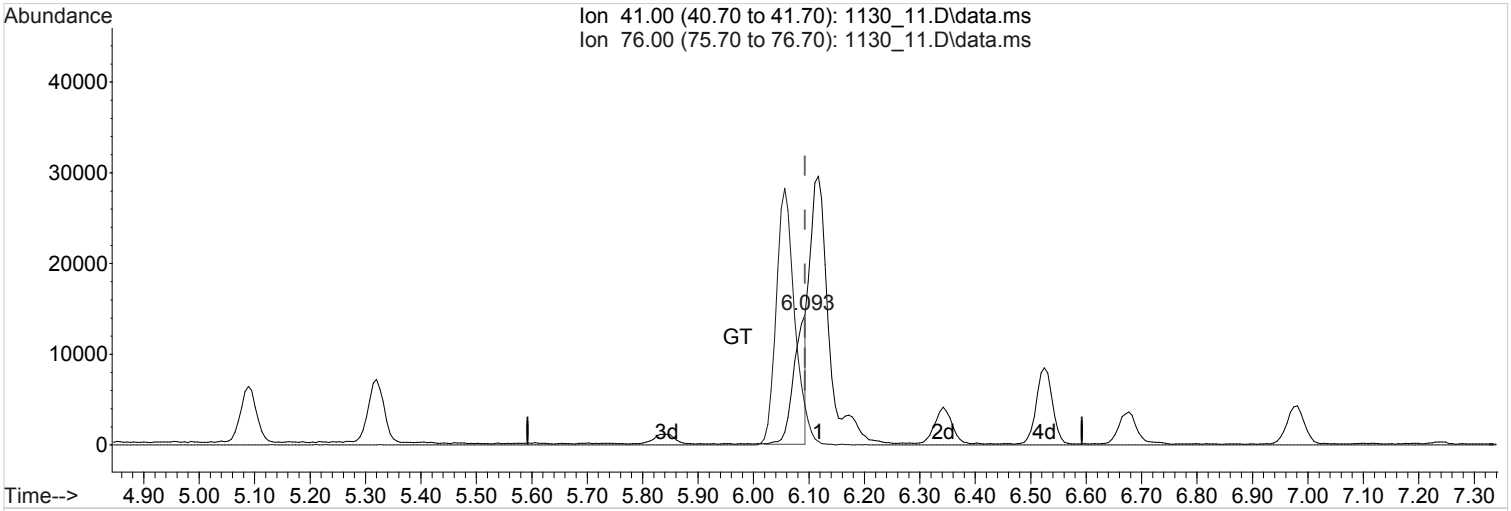
response 85848

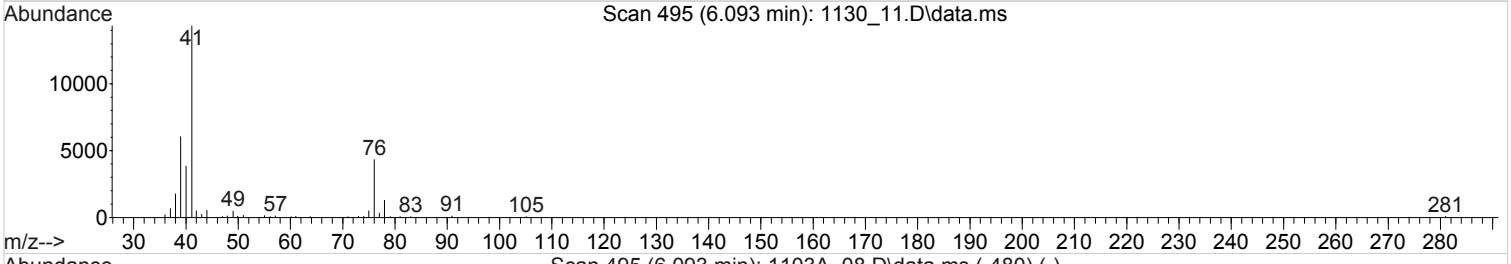
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	76.59#
0.00	0.00	0.00
0.00	0.00	0.00

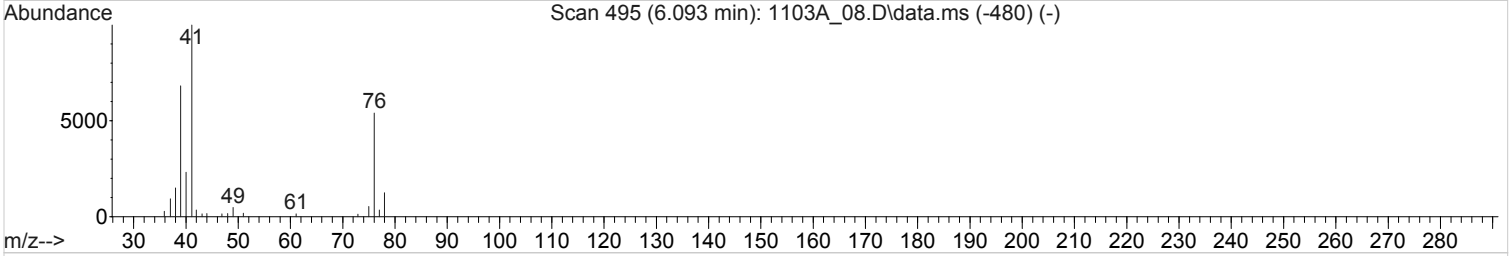
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_11.D
Acq On : 30 Nov 2022 9:31 pm
Operator :
Sample : STD AMS 2.5 ppbv 22K29457
Misc : 22K22745
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 01 08:09:41 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:09:36 2022
Response via : Initial Calibration







TIC: 1130_11.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (-0.000) 2.9293921 ppbv m

response 21720

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	302.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 01 08:11:52 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:10:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	97662	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	363792	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	339082	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.632	95	222304	3.9906513	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 99.77%			
Target Compounds						Qvalue
2) Propene	4.182	41	19974	2.4752961	ppbv	100
3) BUTANE	4.572	43	31318	3.2243801	ppbv	100
4) 1,1-DIFLUOROETHANE	4.182	51	29116	3.7374382	ppbv	100
5) Dichlorodifluoromethane	4.225	85	65597	3.9118109	ppbv	100
6) CHLORODIFLUOROMETHANE	4.243	51	36063	3.8962945	ppbv	100
7) 1,2-Dichlorotetrafluor...	4.377	85	70598	3.8681874	ppbv	100
8) Chloromethane	4.487	50	22648	3.8391741	ppbv	100
9) Vinyl Chloride	4.602	62	22390	3.8822299	ppbv	100
10) 1,3-Butadiene	4.633	39	14381	3.6345453	ppbv	100
11) Bromomethane	4.991	94	21227	3.7185938	ppbv	100
12) Chloroethane	5.071	64	8988	3.4917905	ppbv	100
13) ISOPENTANE	5.089	43	21934	3.3504924	ppbv	100
14) Vinyl Bromide	5.259	106	21466	3.6801887	ppbv	100
15) Trichlorofluoromethane	5.284	101	54089	3.8913206	ppbv	100
16) PENTANE	5.320	43	40598	2.8116388	ppbv	100
17) Ethanol	5.399	45	11259	2.7269814	ppbv	100
18) ACROLEIN	5.709	56	10907	3.5936404	ppbv	100
19) 1,1,2-Trichlorotrifluo...	5.697	101	58850	3.8979196	ppbv	100
20) 1,1-Dichloroethene	5.782	61	41745	3.8976297	ppbv	100
21) Acetone	5.819	43	39520	3.4354575	ppbv	100
22) BROMOETHANE	5.965	108	24147	3.8228354	ppbv	100
23) 2-Propanol	5.837	45	43015	3.3936341	ppbv	100
24) Carbon Disulfide	6.056	76	96321	3.4759366	ppbv	100
25) Allyl Chloride	6.093	41	32977m	4.3398393	ppbv	
26) METHYL ACETATE	6.044	43	44955	3.7635899	ppbv #	100
27) ACETONITRILE	6.117	41	130040	19.8674890	ppbv	100
28) Methylene Chloride	6.208	49	28379	3.7559236	ppbv	100
29) TERT-BUTYL ALCOHOL	6.172	59	48070	3.8859353	ppbv	100
30) Methyl Tert-Butyl Ether	6.342	73	64691	3.8471061	ppbv	100
31) Trans-1,2-Dichloroethene	6.403	61	41712	3.9288856	ppbv	100
32) ACRYLONITRILE	6.433	53	21497	3.8898780	ppbv	100
33) n-Hexane	6.525	57	39071	3.8990331	ppbv	100
34) 1,1-Dichloroethane	6.786	63	50971	3.8781323	ppbv	100
35) Vinyl Acetate	6.719	43	61135	3.8229961	ppbv	100
36) DI-ISOPROPYL ETHER	6.671	45	77703	3.8908856	ppbv	100
37) ETHYL TERT-BUTYL ETHER	6.975	59	83159	3.9223127	ppbv	100
38) ETHYL ACETATE	7.194	45	8346	3.7381098	ppbv	100
39) 2-Butanone (MEK)	7.236	72	12720	3.8872297	ppbv	100
40) cis-1,2-Dichloroethene	7.279	61	39824	3.9182007	ppbv	100
41) Tetrahydrofuran	7.510	42	25628	3.6937899	ppbv	100
42) Chloroform	7.504	83	54054	3.7593330	ppbv	100
43) Cyclohexane	7.723	84	30515	3.7988768	ppbv	100
44) 1,1,1-Trichloroethane	7.705	97	55648	3.8482719	ppbv	100
45) Carbon Tetrachloride	7.833	117	59993	3.9347673	ppbv	100
46) 2,2,4-Trimethylpentane	7.942	57	126954	3.8716947	ppbv	100
48) Benzene	8.033	78	81197	3.8524735	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 01 08:11:52 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:10:48 2022
Response via : Initial Calibration

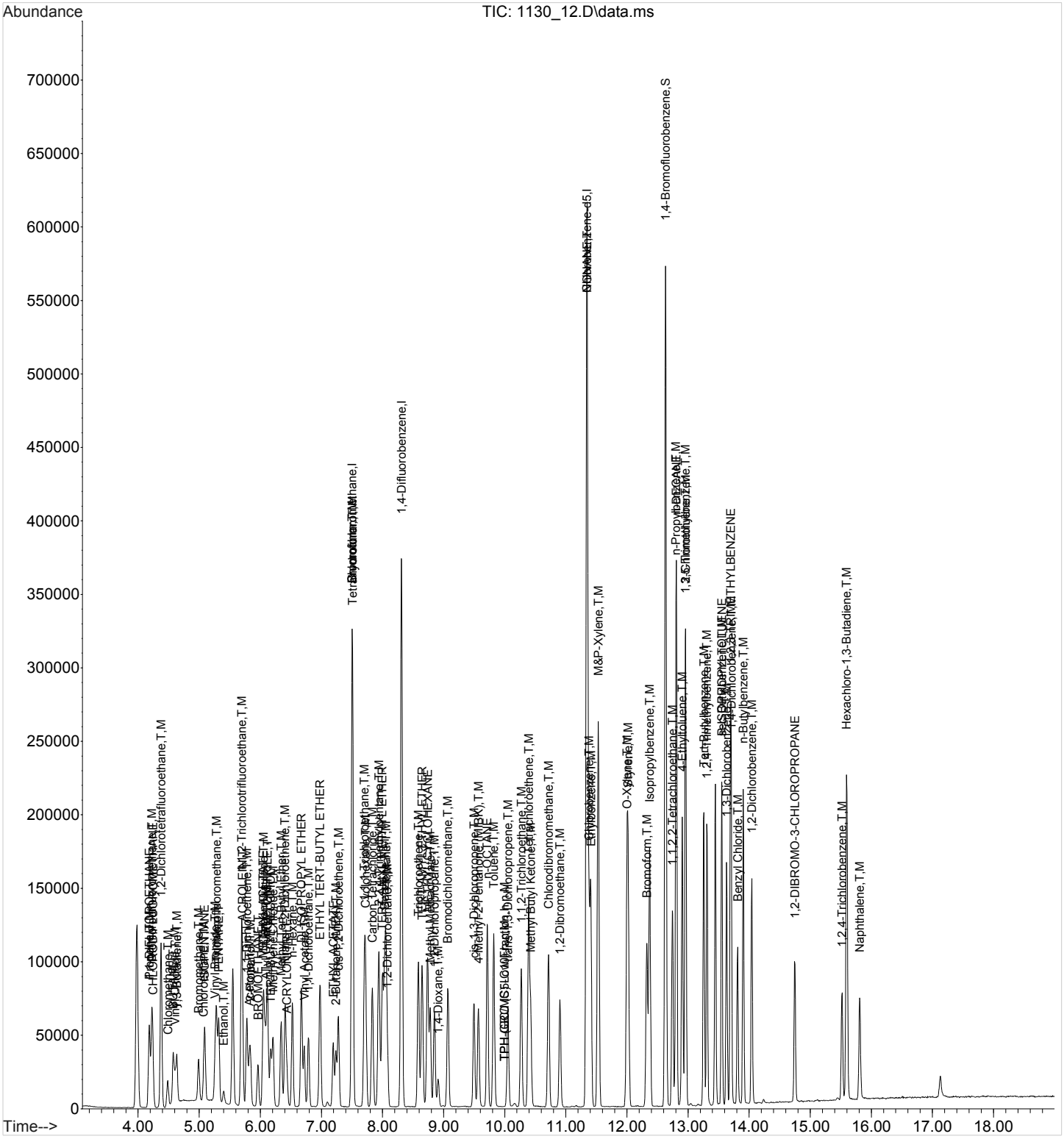
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	TERT-AMYL METHYL ETHER	7.997	73	81497	3.9546924	ppbv	100
50)	1,2-Dichloroethane	8.082	62	30852	4.0126723	ppbv	100
51)	Heptane	8.058	43	44654	3.8308067	ppbv	100
52)	Trichloroethene	8.587	95	39665	3.9573708	ppbv	100
53)	TERT-AMYL ETHYL ETHER	8.648	73	26357	3.7343616	ppbv	100
54)	METHYL CYCLOHEXANE	8.739	83	52615	3.7856285	ppbv	100
55)	1,2-Dichloropropane	8.848	63	33954	3.9672597	ppbv	100
56)	Methyl Methacrylate	8.782	41	37339	4.0837388	ppbv	100
57)	1,4-Dioxane	8.909	88	16447	3.9183601	ppbv	100
58)	Bromodichloromethane	9.067	83	61786	3.9229177	ppbv	100
59)	cis-1,3-Dichloropropene	9.499	75	53309	4.0228034	ppbv	100
60)	4-Methyl-2-Pentanone (...	9.572	43	56135	3.8216202	ppbv	100
61)	n-OCTANE	9.712	43	70553	3.9072785	ppbv	100
62)	Toluene	9.822	91	104760	3.9048060	ppbv	100
63)	trans-1,3-Dichloropropene	10.053	75	46946	4.0337624	ppbv	100
64)	1,1,2-Trichloroethane	10.272	97	38232	3.8694821	ppbv	100
65)	Tetrachloroethene	10.394	166	51523	3.9058980	ppbv	100
66)	Methyl Butyl Ketone	10.424	43	52270	3.8920843	ppbv	100
67)	Chlorodibromomethane	10.716	129	72839	4.0534488	ppbv	100
68)	1,2-Dibromoethane	10.905	107	62912	4.0022080	ppbv	100
69)	Chlorobenzene	11.379	112	78585	4.0091502	ppbv	100
70)	NONANE	11.349	43	75013	3.8802998	ppbv	100
72)	Ethylbenzene	11.410	91	124623	3.8206519	ppbv	100
73)	M&P-Xylene	11.531	91	196443	7.6152146	ppbv	100
74)	O-Xylene	12.000	91	102069	3.8159485	ppbv	100
77)	Styrene	12.018	104	83940	3.9358617	ppbv	100
78)	Bromoform	12.328	173	70554	3.9485605	ppbv	100
79)	Isopropylbenzene	12.371	105	140920	3.8389318	ppbv	100
80)	n-DECANE	12.809	43	69879	3.9226067	ppbv	100
81)	1,1,2,2-Tetrachloroethane	12.742	83	83311	3.8621176	ppbv	100
82)	n-Propylbenzene	12.803	91	165376	3.9224241	ppbv	100
83)	4-Ethyltoluene	12.906	105	131660	3.8962338	ppbv	100
84)	2-Chlorotoluene	12.961	126	33517	3.7705461	ppbv	100
86)	1,3,5-Trimethylbenzene	12.955	105	110322	3.8208045	ppbv	100
87)	Tert-Butylbenzene	13.259	119	101033	3.8700637	ppbv	100
88)	1,2,4-Trimethylbenzene	13.308	105	106389	3.8363418	ppbv	100
89)	sec-Butylbenzene	13.551	134	29848	3.7704462	ppbv	100
90)	1,3-Dichlorobenzene	13.630	146	67476	4.2960815	ppbv	100
91)	P-ISOPROPYLTOLUENE	13.551	119	122981	3.8312058	ppbv	100
92)	1,4-Dichlorobenzene	13.709	146	65605	4.3954125	ppbv	100
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	105181	3.8239039	ppbv	100
94)	Benzyl Chloride	13.813	91	75143	4.5180166	ppbv	100
95)	n-Butylbenzene	13.904	91	119540	4.0383550	ppbv	100
96)	1,2-Dichlorobenzene	14.044	146	65694	4.1301061	ppbv	100
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	31679	4.2831537	ppbv	100
98)	1,2,4-Trichlorobenzene	15.522	180	28792	4.8653285	ppbv	100
99)	Hexachloro-1,3-Butadiene	15.595	225	57445	3.9029768	ppbv	100
100)	Naphthalene	15.808	128	69949	4.6151579	ppbv	100
101)	TPH (GC/MS) Low Fraction	10.000	TIC	10408662m	174.0670756	ppbv	
102)	TPH-GRO (C5-C10)	10.000	TIC	12263955m	218.3343219	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

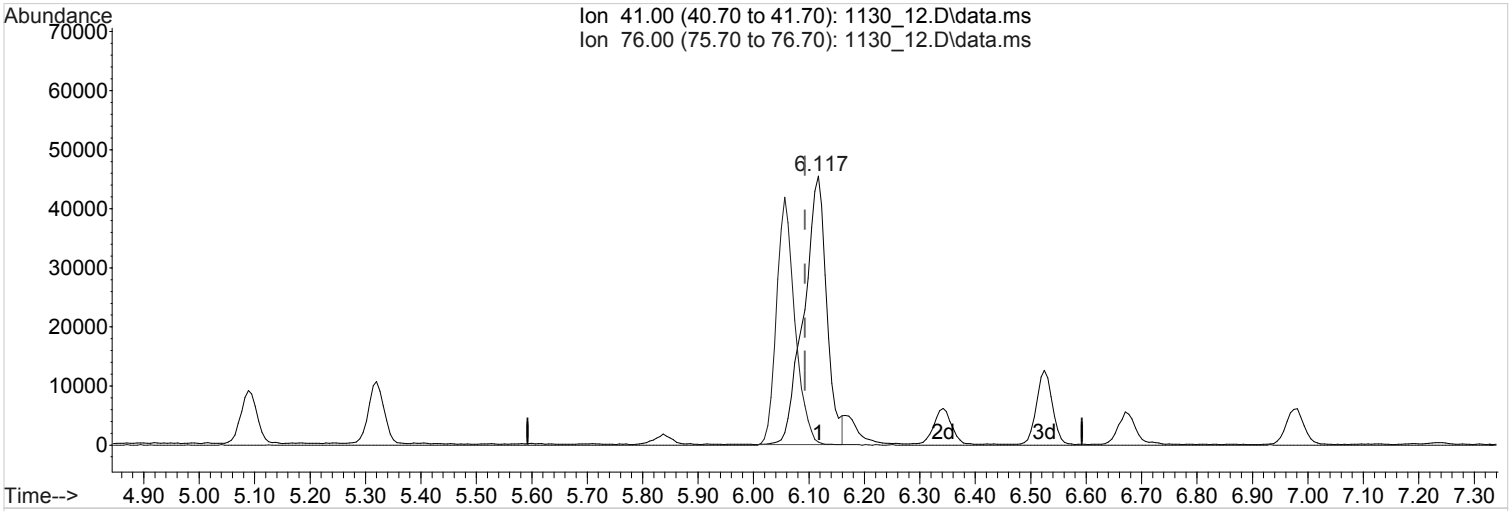
Quant Time: Dec 01 08:11:52 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:10:48 2022
Response via : Initial Calibration

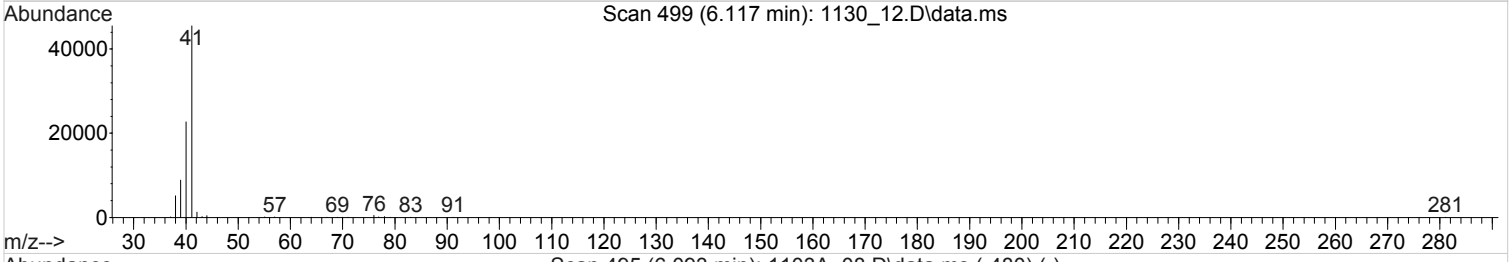


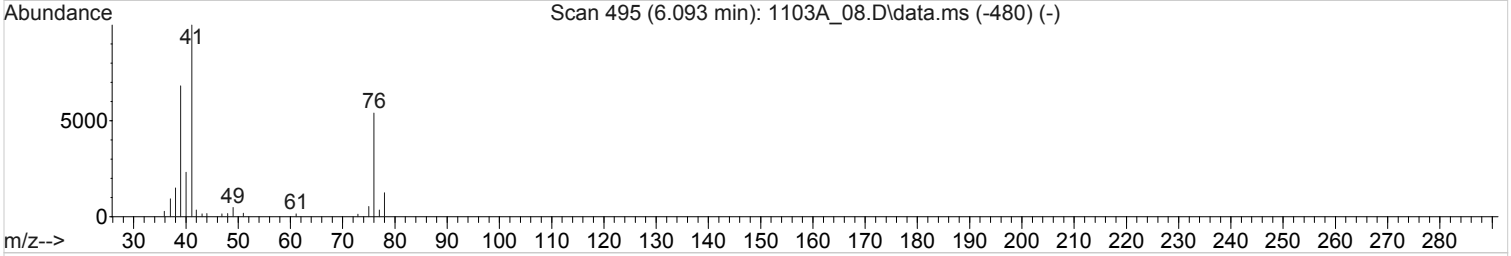
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 01 08:01:36 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Fri Nov 04 10:36:31 2022
Response via : Initial Calibration







TIC: 1130_12.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 0.0000000 ppbv

Qvalue = 1

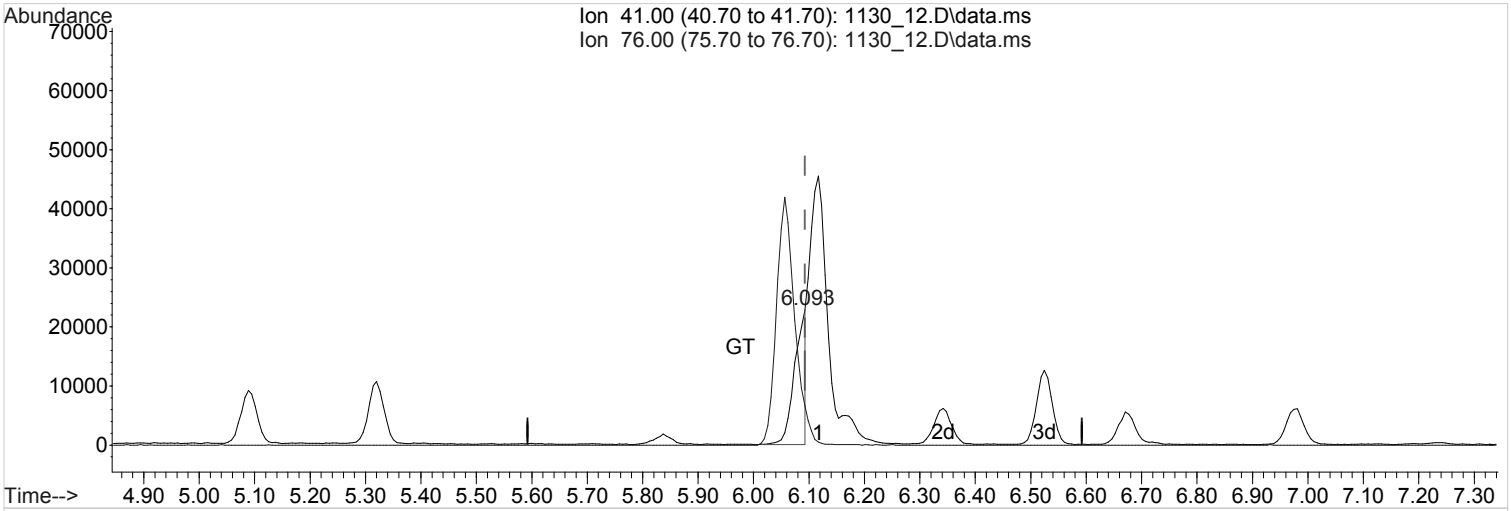
response 130040

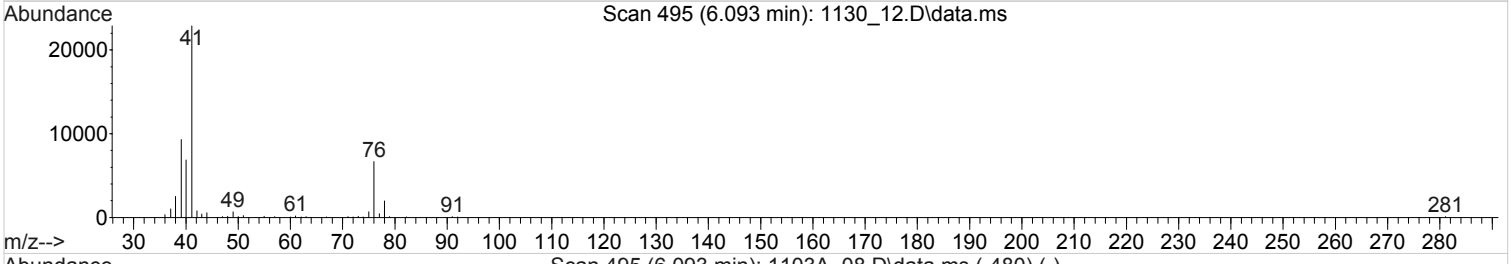
Ion	Exp%	Act%
41.00	100	100
76.00	455.70	74.07#
0.00	0.00	0.00
0.00	0.00	0.00

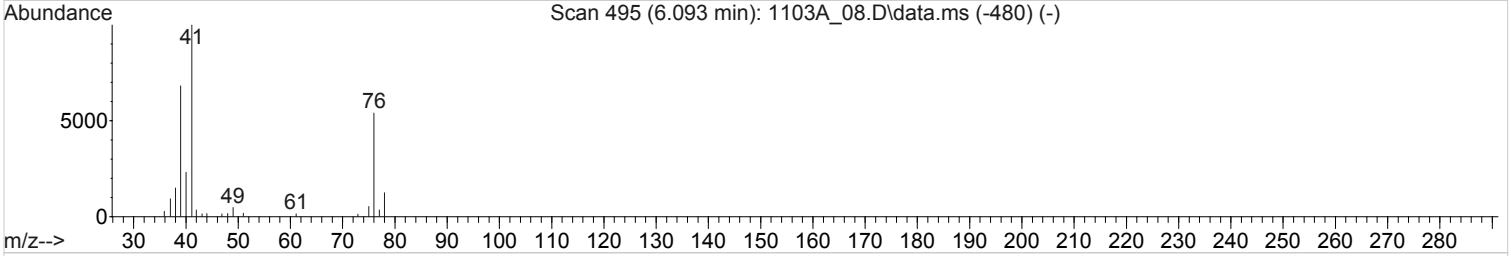
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 01 08:01:36 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Fri Nov 04 10:36:31 2022
Response via : Initial Calibration







TIC: 1130_12.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (-0.000) 0.0000000 ppbv m

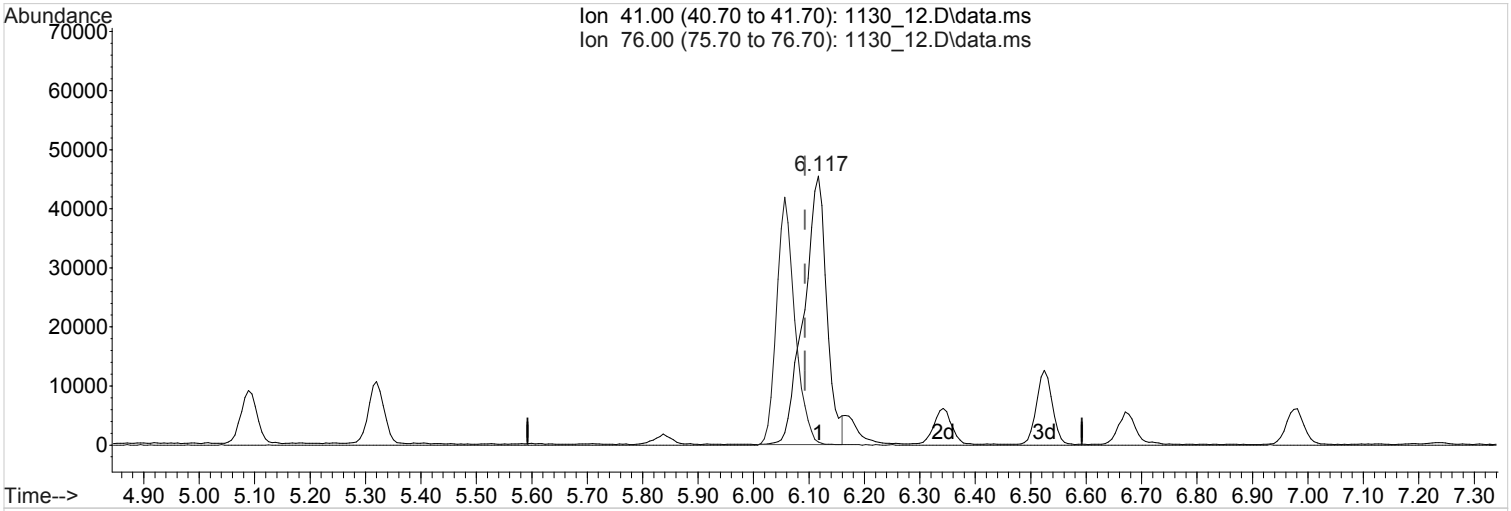
response 32958

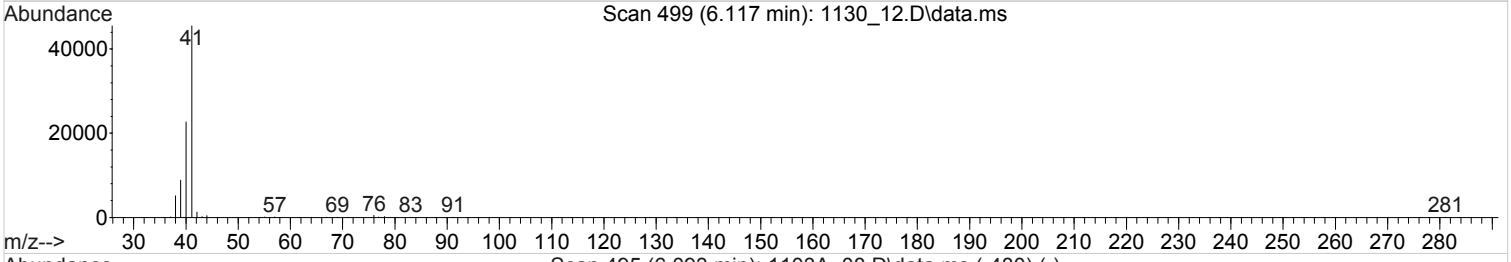
Ion	Exp%	Act%
41.00	100	100
76.00	455.70	292.25#
0.00	0.00	0.00
0.00	0.00	0.00

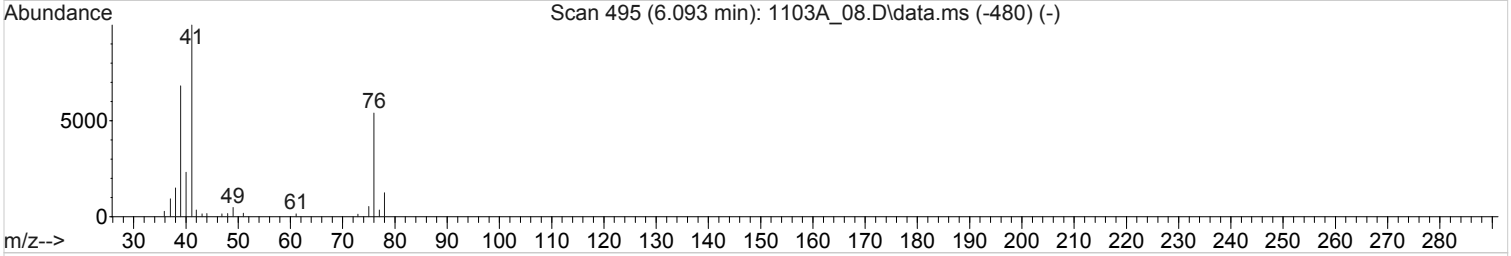
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 01 08:10:53 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:10:48 2022
Response via : Initial Calibration







TIC: 1130_12.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 17.1135248 ppbv

Qvalue = 1

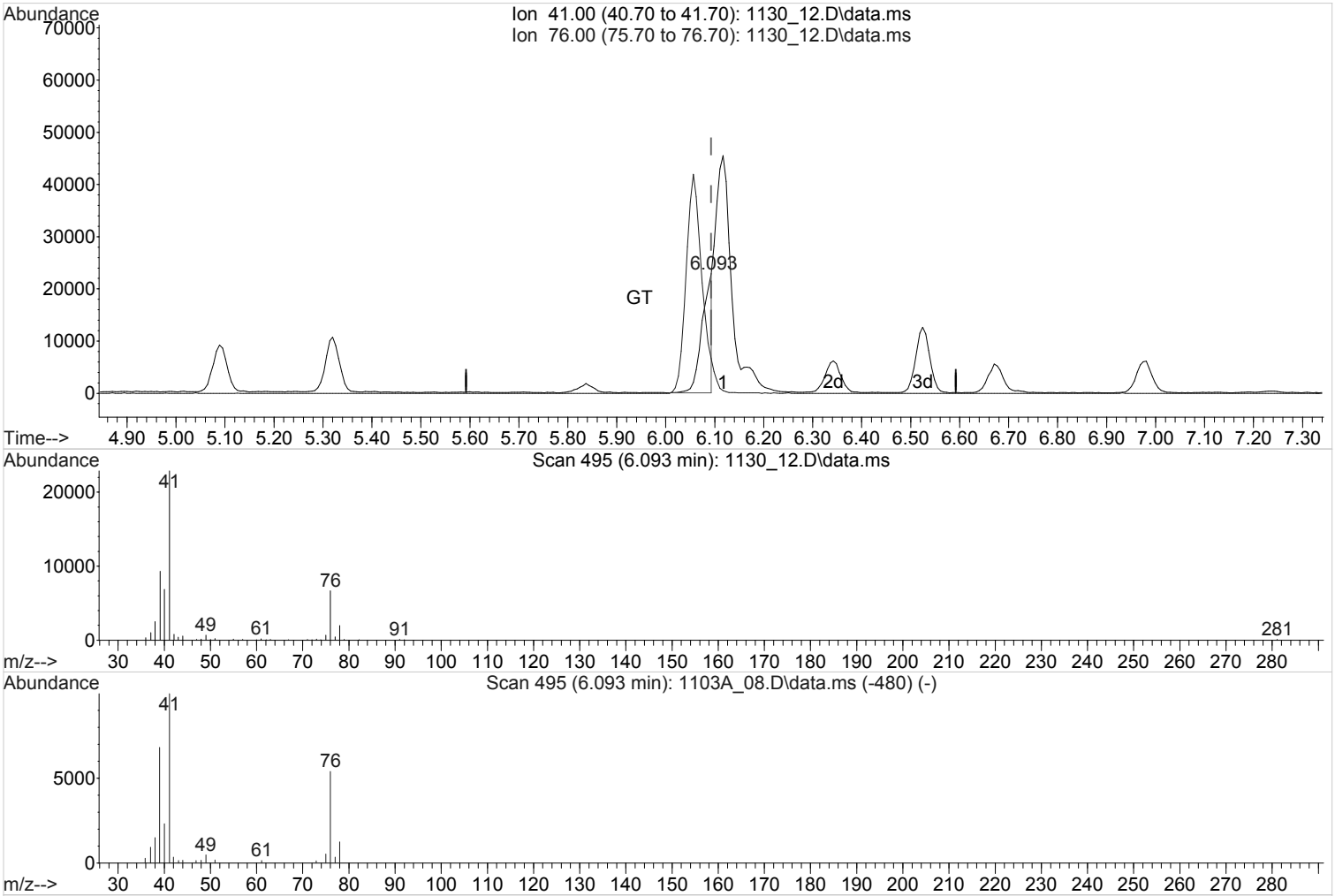
response 130040

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	74.07#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_12.D
Acq On : 30 Nov 2022 10:14 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 22K29457
Misc : 22K22745
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 01 08:10:53 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:10:48 2022
Response via : Initial Calibration



TIC: 1130_12.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (0.000) 4.3398393 ppbv m

response 32977

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	292.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_13.D
Acq On : 30 Nov 2022 10:55 pm
Operator :
Sample : STD AMS 10.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 01 08:13:17 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:12:01 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	95990	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	365949	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.349	117	331539	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.632	95	225079	4.1323928	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 103.31%			
Target Compounds						Qvalue
2) Propene	4.176	41	49909	6.2927517	ppbv	99
3) BUTANE	4.572	43	81164	8.5018860	ppbv	99
4) 1,1-DIFLUOROETHANE	4.182	51	75259	9.8287971	ppbv	99
5) Dichlorodifluoromethane	4.225	85	173429	10.5224098	ppbv	99
6) CHLORODIFLUOROMETHANE	4.237	51	95561	10.5043753	ppbv	99
7) 1,2-Dichlorotetrafluor...	4.371	85	189268	10.5509587	ppbv	100
8) Chloromethane	4.480	50	61349	10.5807161	ppbv	98
9) Vinyl Chloride	4.602	62	60607	10.6917690	ppbv	98
10) 1,3-Butadiene	4.633	39	38786	9.9732251	ppbv	94
11) Bromomethane	4.992	94	56359	10.0450713	ppbv	99
12) Chloroethane	5.071	64	23625	9.3380578	ppbv	99
13) ISOPENTANE	5.089	43	58484	9.0892384	ppbv	95
14) Vinyl Bromide	5.259	106	57189	9.9754177	ppbv	99
15) Trichlorofluoromethane	5.284	101	144655	10.5881755	ppbv	99
16) PENTANE	5.320	43	106676	7.5165965	ppbv	99
17) Ethanol	5.399	45	29399	7.2446022	ppbv	99
18) ACROLEIN	5.709	56	28002	9.3868090	ppbv	99
19) 1,1,2-Trichlorotrifluo...	5.697	101	155142	10.4547926	ppbv	99
20) 1,1-Dichloroethene	5.776	61	111942	10.6338076	ppbv	99
21) Acetone	5.819	43	99358	8.7875965	ppbv	99
22) BROMOETHANE	5.959	108	64351	10.3651918	ppbv	100
23) 2-Propanol	5.837	45	109875	8.8194925	ppbv	98
24) Carbon Disulfide	6.056	76	254426	9.3414002	ppbv	99
25) Allyl Chloride	6.093	41	88982m	11.9128598	ppbv	
26) METHYL ACETATE	6.044	43	121533	10.3518538	ppbv #	100
27) ACETONITRILE	6.117	41	368204	57.2340060	ppbv	96
28) Methylene Chloride	6.208	49	73330	9.8741785	ppbv	100
29) TERT-BUTYL ALCOHOL	6.166	59	130553	10.7376174	ppbv	94
30) Methyl Tert-Butyl Ether	6.342	73	168621	10.2023821	ppbv	99
31) Trans-1,2-Dichloroethene	6.403	61	109493	10.4928712	ppbv	99
32) ACRYLONITRILE	6.433	53	55006	10.1266970	ppbv	99
33) n-Hexane	6.525	57	100232	10.1767337	ppbv	97
34) 1,1-Dichloroethane	6.786	63	134619	10.4209054	ppbv	100
35) Vinyl Acetate	6.719	43	152357	9.6933964	ppbv	100
36) DI-ISOPROPYL ETHER	6.671	45	209532	10.6748224	ppbv	100
37) ETHYL TERT-BUTYL ETHER	6.975	59	218794	10.4994847	ppbv	100
38) ETHYL ACETATE	7.194	45	22228	10.1291659	ppbv	99
39) 2-Butanone (MEK)	7.236	72	32846	10.2125736	ppbv	98
40) cis-1,2-Dichloroethene	7.279	61	102888	10.2992629	ppbv	99
41) Tetrahydrofuran	7.510	42	67283	9.8664846	ppbv	99
42) Chloroform	7.510	83	143540	10.1567677	ppbv	100
43) Cyclohexane	7.723	84	79687	10.0932014	ppbv	99
44) 1,1,1-Trichloroethane	7.705	97	147500	10.3778607	ppbv	99
45) Carbon Tetrachloride	7.833	117	158988	10.6091953	ppbv	100
46) 2,2,4-Trimethylpentane	7.942	57	334965	10.3933074	ppbv	100
48) Benzene	8.033	78	214305	10.1079844	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_13.D
Acq On : 30 Nov 2022 10:55 pm
Operator :
Sample : STD AMS 10.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 01 08:13:17 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:12:01 2022
Response via : Initial Calibration

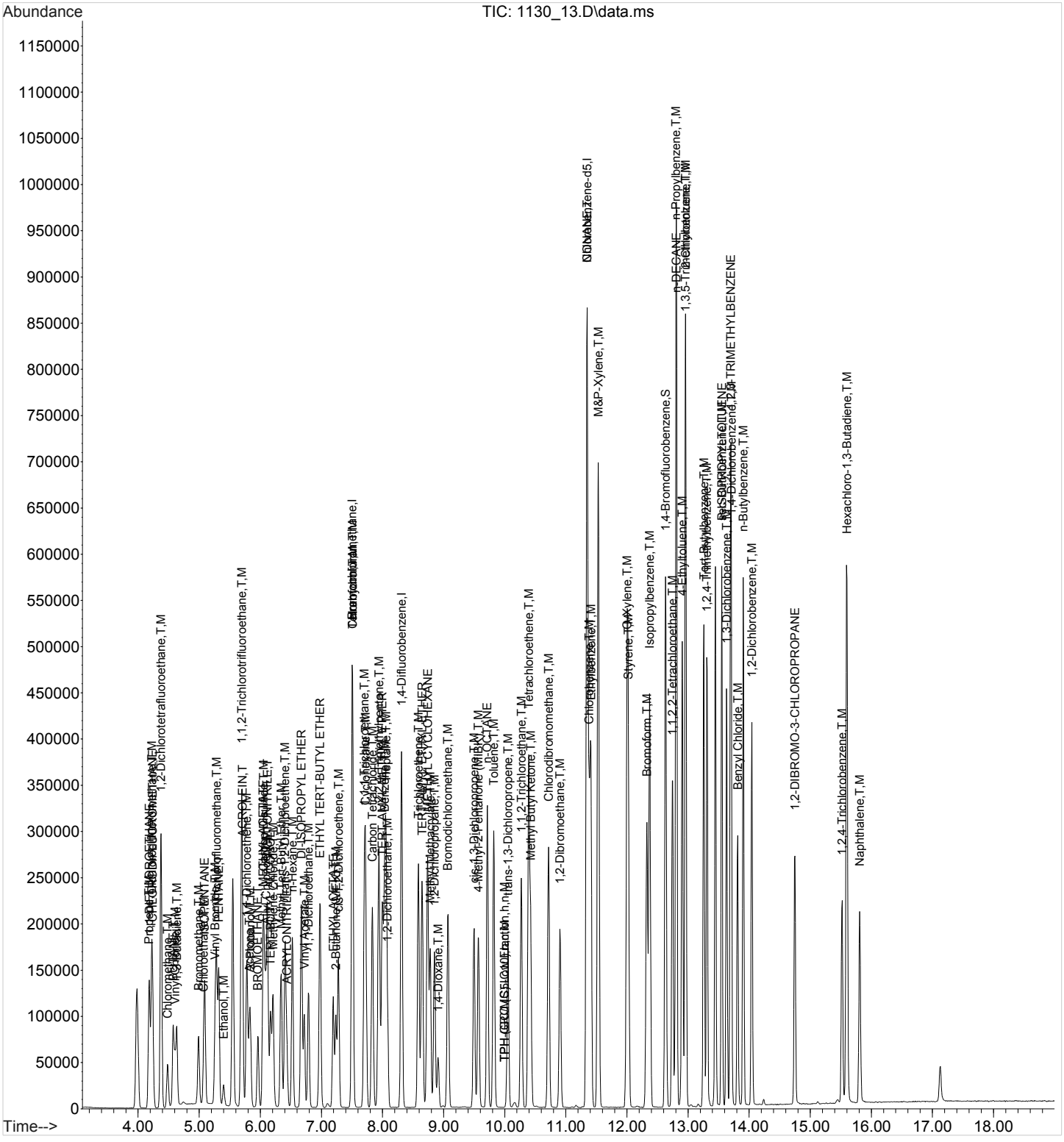
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	TERT-AMYL METHYL ETHER	7.997	73	210288	10.1442082	ppbv	99
50)	1,2-Dichloroethane	8.082	62	80569	10.4171982	ppbv	100
51)	Heptane	8.058	43	116532	9.9381980	ppbv	100
52)	Trichloroethene	8.587	95	104641	10.3784797	ppbv	99
53)	TERT-AMYL ETHYL ETHER	8.648	73	68078	9.5887007	ppbv	99
54)	METHYL CYCLOHEXANE	8.739	83	138687	9.9196593	ppbv	99
55)	1,2-Dichloropropane	8.848	63	89944	10.4473097	ppbv	100
56)	Methyl Methacrylate	8.782	41	97028	10.5493314	ppbv	99
57)	1,4-Dioxane	8.909	88	46923	11.1131199	ppbv	98
58)	Bromodichloromethane	9.068	83	163489	10.3190622	ppbv	99
59)	cis-1,3-Dichloropropene	9.499	75	143741	10.7830473	ppbv	100
60)	4-Methyl-2-Pentanone (...	9.566	43	155007	10.4905364	ppbv	100
61)	n-OCTANE	9.712	43	184385	10.1511922	ppbv	100
62)	Toluene	9.822	91	272690	10.1042891	ppbv	99
63)	trans-1,3-Dichloropropene	10.053	75	125078	10.6837872	ppbv	100
64)	1,1,2-Trichloroethane	10.272	97	101836	10.2461270	ppbv	99
65)	Tetrachloroethene	10.394	166	139718	10.5294260	ppbv	99
66)	Methyl Butyl Ketone	10.424	43	146659	10.8560300	ppbv	99
67)	Chlorodibromomethane	10.716	129	197958	10.9513171	ppbv	100
68)	1,2-Dibromoethane	10.905	107	167859	10.6155713	ppbv	99
69)	Chlorobenzene	11.379	112	208008	10.5493399	ppbv	97
70)	NONANE	11.349	43	193049	9.9272481	ppbv	100
72)	Ethylbenzene	11.410	91	334673	10.4937342	ppbv	100
73)	M&P-Xylene	11.531	91	523801	20.7673950	ppbv	100
74)	O-Xylene	12.000	91	275041	10.5166204	ppbv	99
77)	Styrene	12.024	104	224059	10.7449246	ppbv	100
78)	Bromoform	12.328	173	193735	11.0890759	ppbv	100
79)	Isopropylbenzene	12.371	105	369784	10.3028170	ppbv	100
80)	n-DECANE	12.809	43	183180	10.5166216	ppbv	99
81)	1,1,2,2-Tetrachloroethane	12.742	83	221860	10.5189469	ppbv	99
82)	n-Propylbenzene	12.803	91	436053	10.5777050	ppbv	100
83)	4-Ethyltoluene	12.906	105	347038	10.5036031	ppbv	99
84)	2-Chlorotoluene	12.961	126	89436	10.2901474	ppbv	99
86)	1,3,5-Trimethylbenzene	12.955	105	287501	10.1836195	ppbv	100
87)	Tert-Butylbenzene	13.259	119	261514	10.2451877	ppbv	99
88)	1,2,4-Trimethylbenzene	13.308	105	277158	10.2215814	ppbv	100
89)	sec-Butylbenzene	13.551	134	80110	10.3498573	ppbv	97
90)	1,3-Dichlorobenzene	13.630	146	186360	12.1351736	ppbv	99
91)	P-ISOPROPYLTOLUENE	13.551	119	324264	10.3315698	ppbv	99
92)	1,4-Dichlorobenzene	13.709	146	173820	11.9105704	ppbv	99
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	269769	10.0307136	ppbv	100
94)	Benzyl Chloride	13.813	91	208214	12.8038133	ppbv	100
95)	n-Butylbenzene	13.904	91	321309	11.1015661	ppbv	99
96)	1,2-Dichlorobenzene	14.044	146	176249	11.3326710	ppbv	100
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	89102	12.3211078	ppbv	100
98)	1,2,4-Trichlorobenzene	15.522	180	85557	14.7865206	ppbv	100
99)	Hexachloro-1,3-Butadiene	15.601	225	150047	10.4265630	ppbv	99
100)	Naphthalene	15.808	128	202726	13.6799534	ppbv	100
101)	TPH (GC/MS) Low Fraction	10.000	TIC	26936251m	460.7114208	ppbv	
102)	TPH-GRO (C5-C10)	10.000	TIC	31449572m	572.6329121	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_13.D
Acq On : 30 Nov 2022 10:55 pm
Operator :
Sample : STD AMS 10.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 13 Sample Multiplier: 1

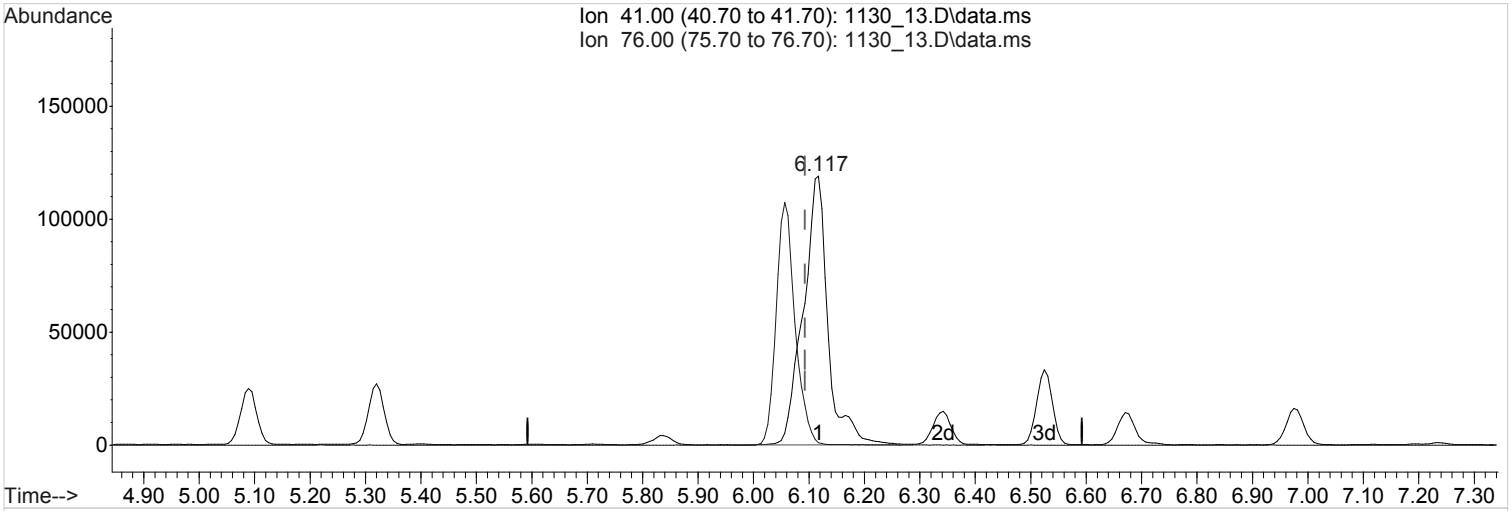
Quant Time: Dec 01 08:13:17 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:12:01 2022
Response via : Initial Calibration

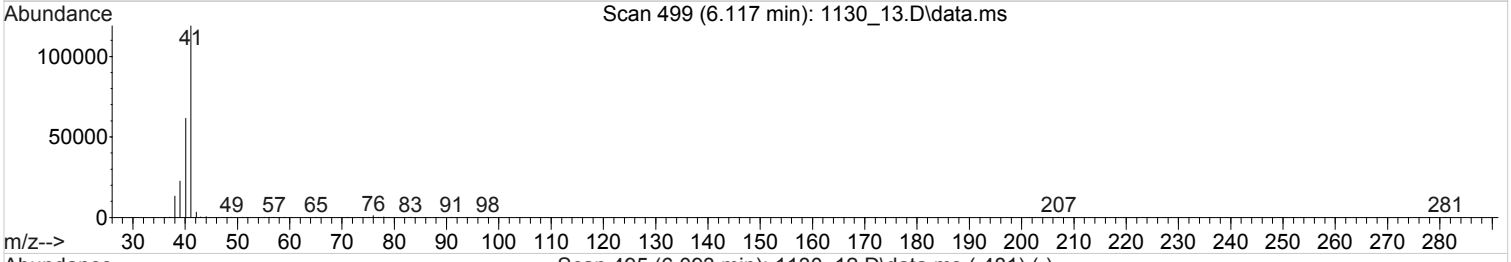


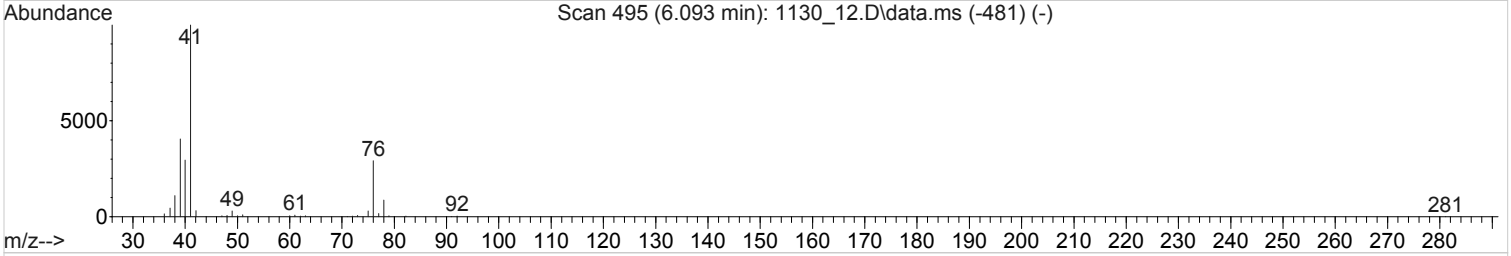
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_13.D
Acq On : 30 Nov 2022 10:55 pm
Operator :
Sample : STD AMS 10.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 01 08:12:10 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:12:01 2022
Response via : Initial Calibration







TIC: 1130_13.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 49.2949433 ppbv

Qvalue = 1

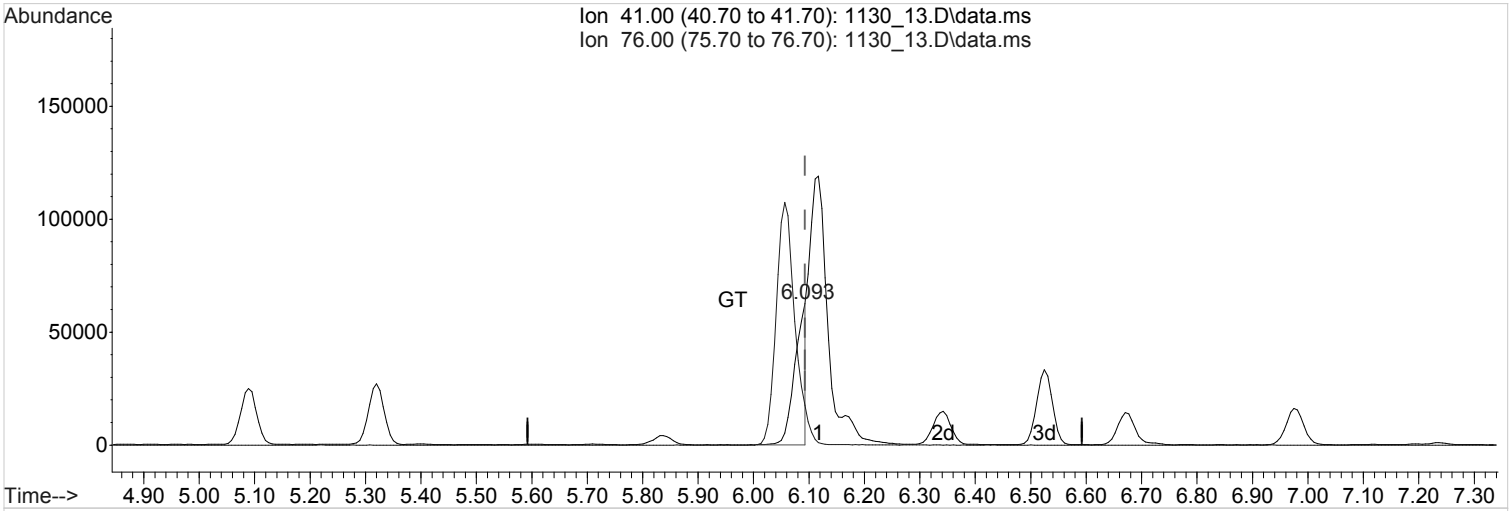
response 368204

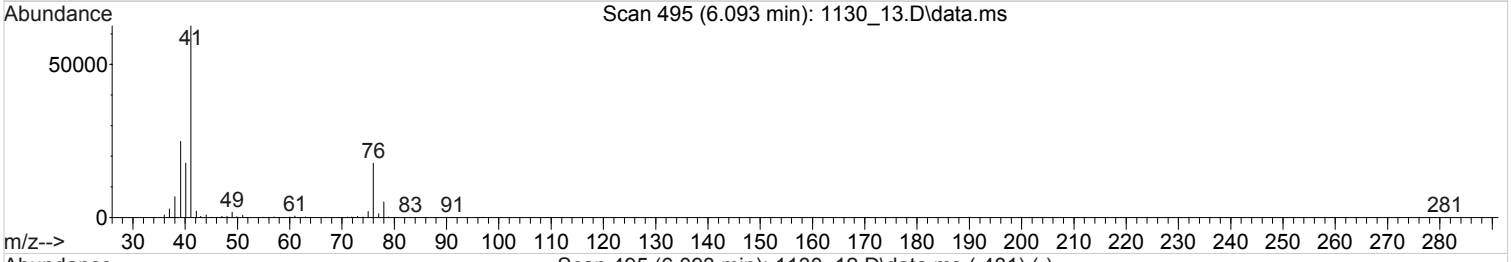
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	69.10#
0.00	0.00	0.00
0.00	0.00	0.00

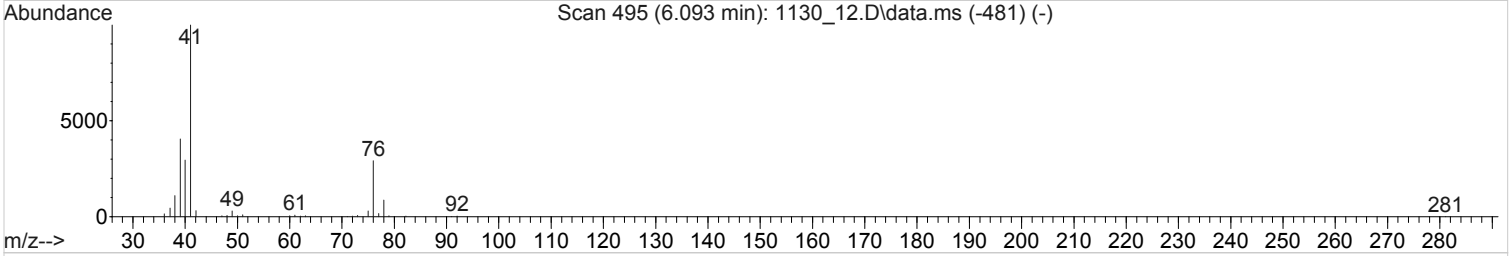
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_13.D
Acq On : 30 Nov 2022 10:55 pm
Operator :
Sample : STD AMS 10.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 01 08:12:10 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:12:01 2022
Response via : Initial Calibration







TIC: 1130_13.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 11.9128598 ppbv m

response 88982

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	285.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_14.D
Acq On : 30 Nov 2022 11:36 pm
Operator :
Sample : STD AMS 25.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 01 08:15:08 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:13:26 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	93994	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	363264	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	330277	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	231161	4.2402243	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 106.01%			
Target Compounds						Qvalue
2) Propene	4.182	41	120292	16.3552176	ppbv	99
3) BUTANE	4.578	43	190600	20.8351246	ppbv	98
4) 1,1-DIFLUOROETHANE	4.182	51	181870	24.3160110	ppbv	99
5) Dichlorodifluoromethane	4.225	85	419351	25.7909851	ppbv	99
6) CHLORODIFLUOROMETHANE	4.243	51	234410	26.1260354	ppbv	99
7) 1,2-Dichlorotetrafluor...	4.377	85	449118	25.3685808	ppbv	100
8) Chloromethane	4.487	50	145673	25.4462904	ppbv	98
9) Vinyl Chloride	4.602	62	144475	25.7735673	ppbv	97
10) 1,3-Butadiene	4.633	39	91426	24.0171989	ppbv	97
11) Bromomethane	4.992	94	137021	24.9243129	ppbv	99
12) Chloroethane	5.071	64	55726	22.7088341	ppbv	98
13) ISOPENTANE	5.089	43	140221	22.5484648	ppbv	96
14) Vinyl Bromide	5.259	106	137125	24.4350722	ppbv	99
15) Trichlorofluoromethane	5.284	101	345152	25.5852709	ppbv	100
16) PENTANE	5.320	43	252012	18.8013527	ppbv	99
17) Ethanol	5.399	45	66941	17.5364084	ppbv	98
18) ACROLEIN	5.703	56	65848	22.7414683	ppbv	99
19) 1,1,2-Trichlorotrifluo...	5.697	101	363409	24.8482080	ppbv	100
20) 1,1-Dichloroethene	5.782	61	261835	25.1729850	ppbv	99
21) Acetone	5.819	43	230488	21.1850429	ppbv	99
22) BROMOETHANE	5.965	108	152901	25.0206387	ppbv	100
23) 2-Propanol	5.837	45	258466	21.5506594	ppbv	97
24) Carbon Disulfide	6.056	76	602891	22.8202597	ppbv	98
25) Allyl Chloride	6.093	41	206256m	27.4497125	ppbv	
26) METHYL ACETATE	6.044	43	288107	24.9359590	ppbv #	100
27) ACETONITRILE	6.117	41	815248	126.7933555	ppbv	99
28) Methylene Chloride	6.208	49	171738	23.6588088	ppbv	99
29) TERT-BUTYL ALCOHOL	6.172	59	309016	25.6847597	ppbv	96
30) Methyl Tert-Butyl Ether	6.342	73	413331	25.4659541	ppbv	99
31) Trans-1,2-Dichloroethene	6.403	61	260734	25.3387014	ppbv	98
32) ACRYLONITRILE	6.433	53	130919	24.5697618	ppbv	100
33) n-Hexane	6.525	57	237611	24.5753270	ppbv	98
34) 1,1-Dichloroethane	6.792	63	318645	25.0396640	ppbv	99
35) Vinyl Acetate	6.719	43	370455	24.1758244	ppbv	100
36) DI-ISOPROPYL ETHER	6.671	45	493514	25.4313229	ppbv	99
37) ETHYL TERT-BUTYL ETHER	6.975	59	527413	25.6638238	ppbv	100
38) ETHYL ACETATE	7.194	45	52695	24.4775491	ppbv	98
39) 2-Butanone (MEK)	7.236	72	78726	24.9218286	ppbv	98
40) cis-1,2-Dichloroethene	7.279	61	246807	25.1230301	ppbv	99
41) Tetrahydrofuran	7.510	42	162529	24.3861345	ppbv	98
42) Chloroform	7.510	83	341478	24.6206568	ppbv	100
43) Cyclohexane	7.723	84	191574	24.7471980	ppbv	98
44) 1,1,1-Trichloroethane	7.705	97	351967	25.1539157	ppbv	100
45) Carbon Tetrachloride	7.833	117	383592	25.9149442	ppbv	100
46) 2,2,4-Trimethylpentane	7.942	57	797606	25.1324764	ppbv	100
48) Benzene	8.033	78	496751	23.5667541	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_14.D
Acq On : 30 Nov 2022 11:36 pm
Operator :
Sample : STD AMS 25.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 01 08:15:08 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:13:26 2022
Response via : Initial Calibration

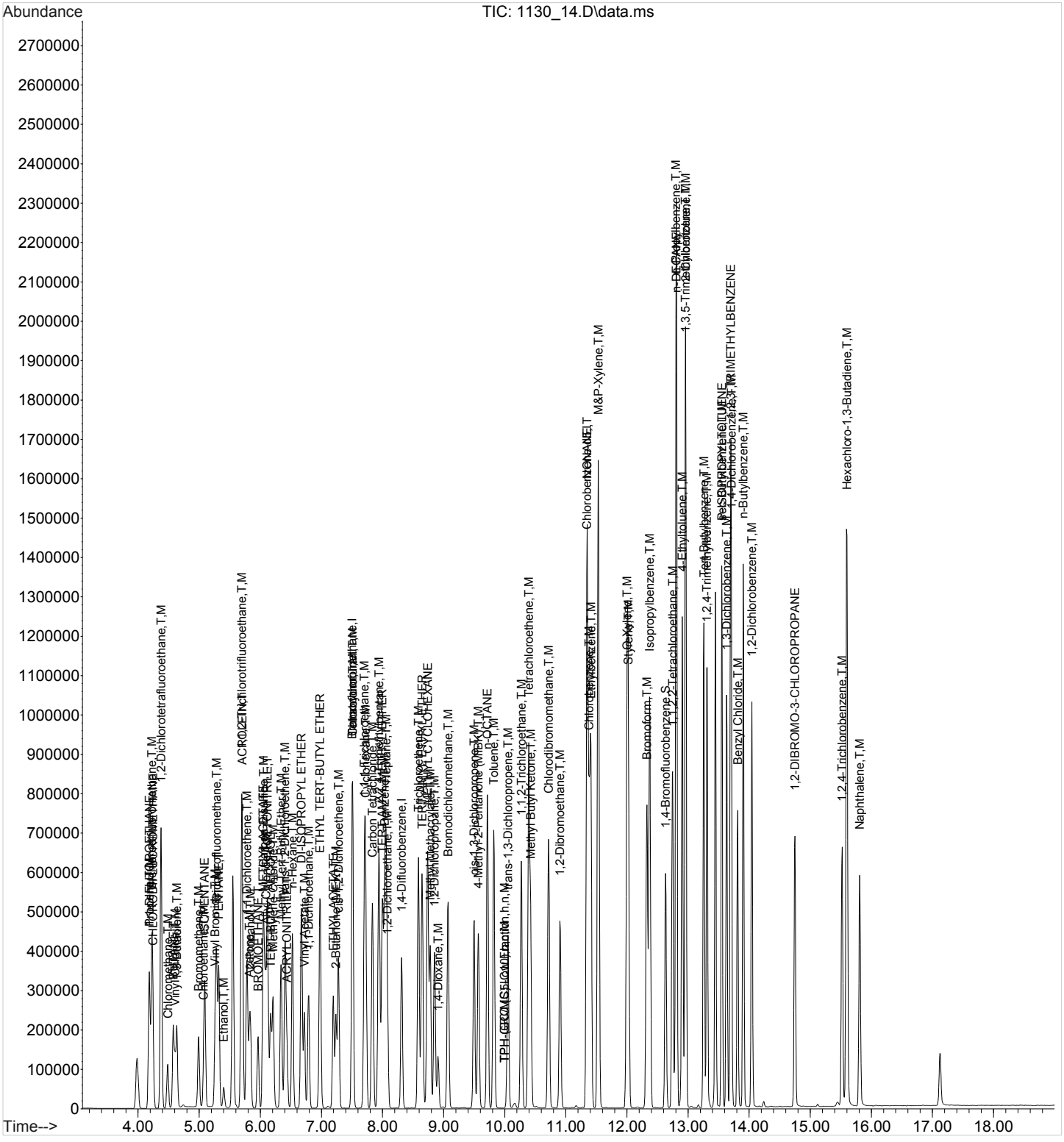
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	TERT-AMYL METHYL ETHER	7.997	73	499812	24.2390040	ppbv	99
50)	1,2-Dichloroethane	8.082	62	188010	24.3434095	ppbv	99
51)	Heptane	8.058	43	271853	23.3764405	ppbv	99
52)	Trichloroethene	8.587	95	254668	25.3082783	ppbv	99
53)	TERT-AMYL ETHYL ETHER	8.648	73	164833	23.5263554	ppbv	99
54)	METHYL CYCLOHEXANE	8.739	83	334768	24.1491517	ppbv	98
55)	1,2-Dichloropropane	8.849	63	216089	25.1244615	ppbv	100
56)	Methyl Methacrylate	8.782	41	233123	25.3347323	ppbv	100
57)	1,4-Dioxane	8.909	88	113388	26.6295504	ppbv	98
58)	Bromodichloromethane	9.074	83	401455	25.4104139	ppbv	99
59)	cis-1,3-Dichloropropene	9.499	75	350917	26.2260114	ppbv	99
60)	4-Methyl-2-Pentanone (...	9.566	43	370921	25.1126898	ppbv	100
61)	n-OCTANE	9.718	43	444371	24.5922554	ppbv	99
62)	Toluene	9.822	91	649335	24.2023210	ppbv	99
63)	trans-1,3-Dichloropropene	10.053	75	302762	25.8001422	ppbv	99
64)	1,1,2-Trichloroethane	10.272	97	251329	25.3848653	ppbv	99
65)	Tetrachloroethene	10.394	166	333181	25.1048978	ppbv	99
66)	Methyl Butyl Ketone	10.424	43	350114	25.7923682	ppbv	98
67)	Chlorodibromomethane	10.716	129	488064	26.8352629	ppbv	99
68)	1,2-Dibromoethane	10.905	107	408979	25.8282817	ppbv	100
69)	Chlorobenzene	11.379	112	501482	25.4216588	ppbv	96
70)	NONANE	11.349	43	467499	24.2433043	ppbv	99
72)	Ethylbenzene	11.410	91	783862	24.4992510	ppbv	100
73)	M&P-Xylene	11.531	91	1232067	48.7677006	ppbv	100
74)	O-Xylene	12.000	91	652754	24.8708794	ppbv	99
77)	Styrene	12.024	104	532294	25.3542982	ppbv	100
78)	Bromoform	12.328	173	489236	27.6794298	ppbv	100
79)	Isopropylbenzene	12.371	105	885862	24.6692274	ppbv	100
80)	n-DECANE	12.809	43	414698	23.7242761	ppbv	97
81)	1,1,2,2-Tetrachloroethane	12.748	83	534480	25.2506887	ppbv	99
82)	n-Propylbenzene	12.803	91	1022618	24.6974666	ppbv	99
83)	4-Ethyltoluene	12.906	105	836518	25.2336213	ppbv	100
84)	2-Chlorotoluene	12.961	126	207688	23.8880396	ppbv	97
86)	1,3,5-Trimethylbenzene	12.955	105	664904	23.5798111	ppbv	99
87)	Tert-Butylbenzene	13.259	119	615607	24.1249421	ppbv	100
88)	1,2,4-Trimethylbenzene	13.308	105	649091	23.9541072	ppbv	99
89)	sec-Butylbenzene	13.551	134	189810	24.4938938	ppbv	97
90)	1,3-Dichlorobenzene	13.630	146	447626	28.3932984	ppbv	99
91)	P-ISOPROPYLTOLUENE	13.551	119	765915	24.3810371	ppbv	99
92)	1,4-Dichlorobenzene	13.709	146	418144	27.9975665	ppbv	99
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	631526	23.5611673	ppbv	99
94)	Benzyl Chloride	13.813	91	536007	31.8126664	ppbv	99
95)	n-Butylbenzene	13.904	91	775500	26.4800211	ppbv	99
96)	1,2-Dichlorobenzene	14.044	146	431640	27.3396625	ppbv	100
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	226462	30.4261432	ppbv	99
98)	1,2,4-Trichlorobenzene	15.522	180	254585	41.3403606	ppbv	99
99)	Hexachloro-1,3-Butadiene	15.601	225	379817	26.3333488	ppbv	99
100)	Naphthalene	15.808	128	568865	36.6091267	ppbv	100
101)	TPH (GC/MS) Low Fraction	10.000	TIC	64234277m	1129.0305233	ppbv	
102)	TPH-GRO (C5-C10)	10.000	TIC	74647633m	1418.2392277	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_14.D
Acq On : 30 Nov 2022 11:36 pm
Operator :
Sample : STD AMS 25.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 14 Sample Multiplier: 1

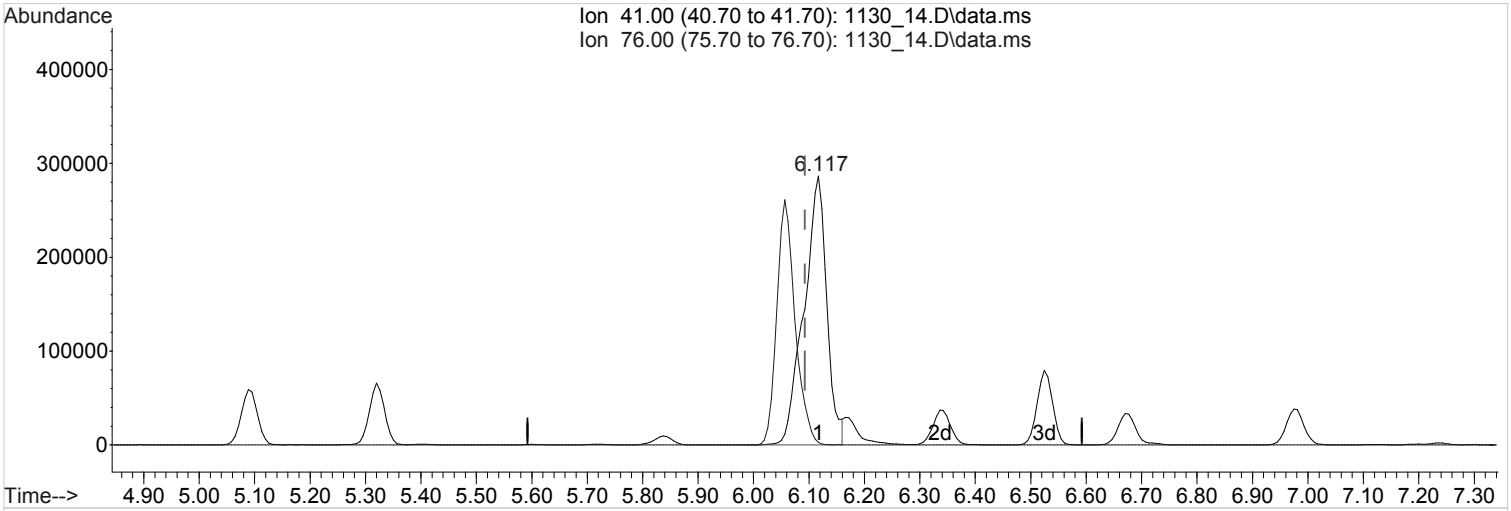
Quant Time: Dec 01 08:15:08 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:13:26 2022
Response via : Initial Calibration

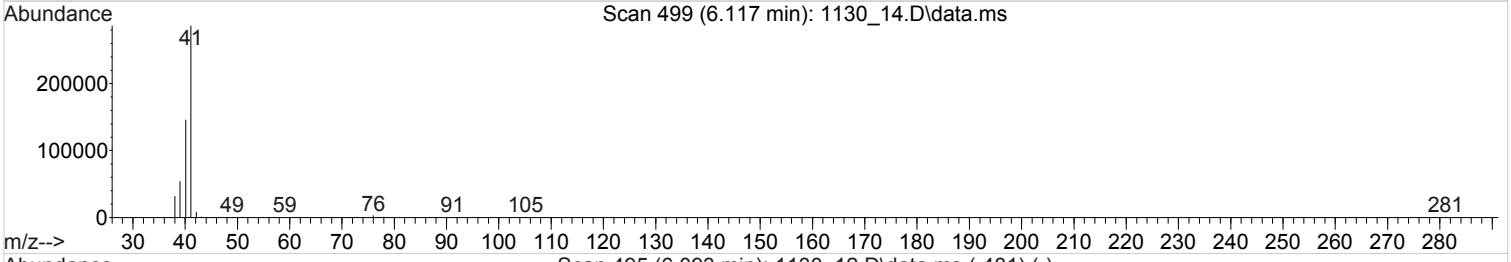


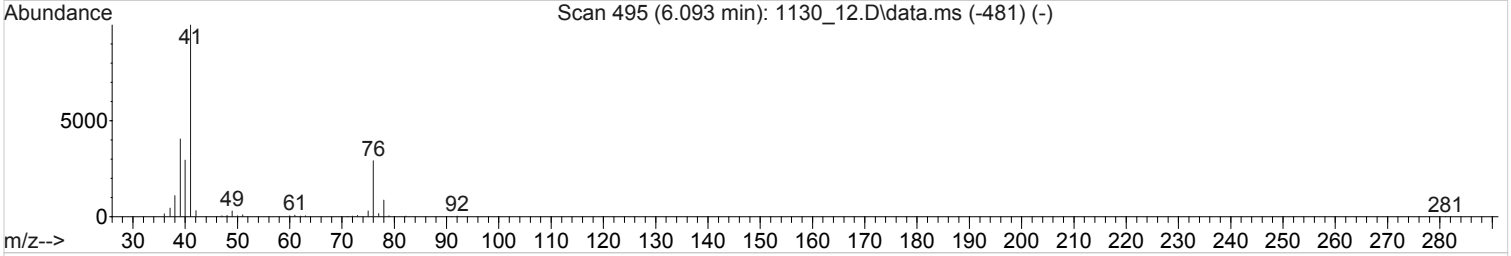
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_14.D
Acq On : 30 Nov 2022 11:36 pm
Operator :
Sample : STD AMS 25.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 01 08:13:30 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:13:26 2022
Response via : Initial Calibration







TIC: 1130_14.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 108.4978048 ppbv

Qvalue = 1

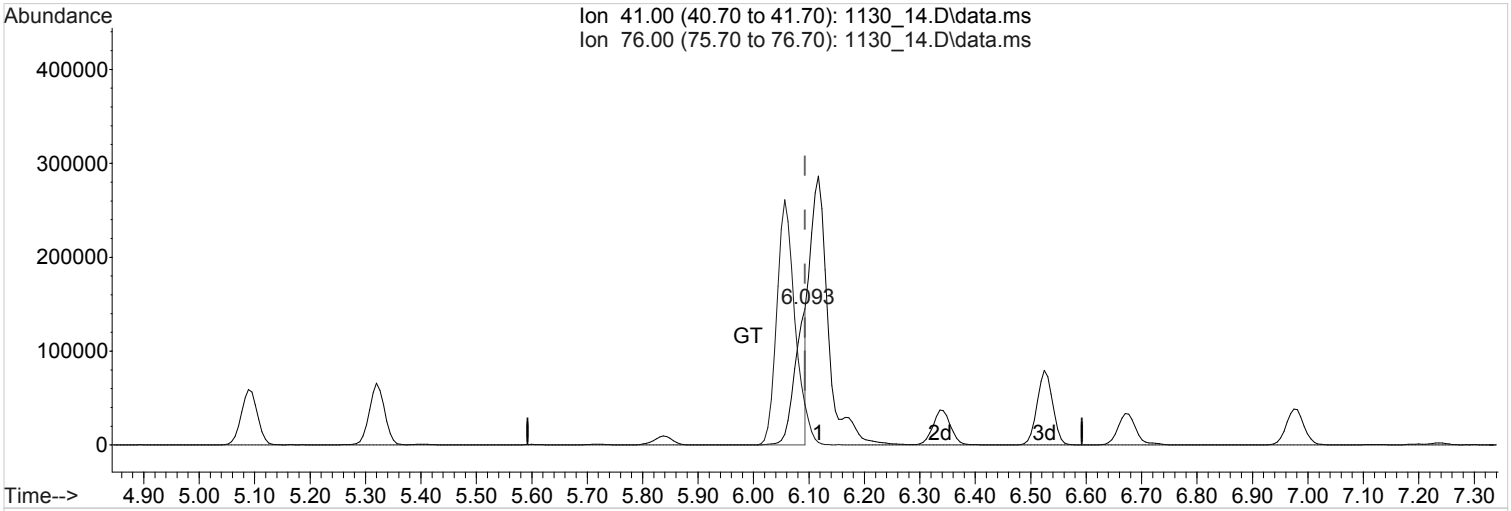
response 815248

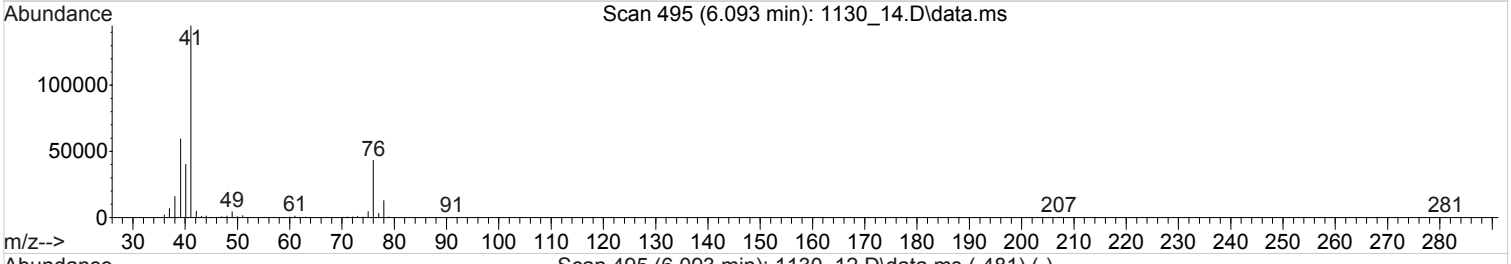
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	73.95#
0.00	0.00	0.00
0.00	0.00	0.00

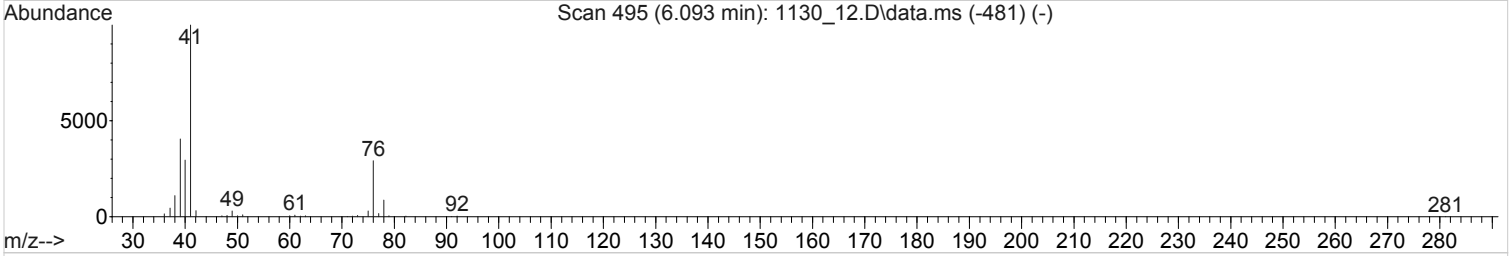
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_14.D
Acq On : 30 Nov 2022 11:36 pm
Operator :
Sample : STD AMS 25.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 01 08:13:30 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:13:26 2022
Response via : Initial Calibration







TIC: 1130_14.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 27.4497125 ppbv m

response 206256

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	292.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_15.D
Acq On : 1 Dec 2022 12:21 am
Operator :
Sample : STD AMS 50.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 01 08:16:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:15:18 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	93915	4.0000000	ppbv	# 0.00
47) 1,4-Difluorobenzene	8.313	114	367764	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.349	117	325050	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	233078	4.3117705	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 107.79%			
Target Compounds						Qvalue
2) Propene	4.182	41	237322	33.7530044	ppbv	99
3) BUTANE	4.578	43	370238	41.3674522	ppbv	98
4) 1,1-DIFLUOROETHANE	4.182	51	360218	48.3670560	ppbv	100
5) Dichlorodifluoromethane	4.225	85	792783	48.6066322	ppbv	99
6) CHLORODIFLUOROMETHANE	4.243	51	451257	50.0550845	ppbv	100
7) 1,2-Dichlorotetrafluor...	4.377	85	862171	48.6513240	ppbv	100
8) Chloromethane	4.487	50	286747	50.0197410	ppbv	99
9) Vinyl Chloride	4.602	62	278760	49.5793598	ppbv	98
10) 1,3-Butadiene	4.633	39	176069	46.5200409	ppbv	96
11) Bromomethane	4.992	94	261614	47.6460165	ppbv	99
12) Chloroethane	5.077	64	107430	44.3232536	ppbv	97
13) ISOPENTANE	5.089	43	267677	43.6150607	ppbv	96
14) Vinyl Bromide	5.259	106	261195	46.7149056	ppbv	99
15) Trichlorofluoromethane	5.284	101	652111	48.2388868	ppbv	100
16) PENTANE	5.320	43	475583	36.6465046	ppbv	99
17) Ethanol	5.405	45	131486	35.8104902	ppbv	98
18) ACROLEIN	5.709	56	130633	45.6694965	ppbv	98
19) 1,1,2-Trichlorotrifluo...	5.697	101	708011	48.4880040	ppbv	100
20) 1,1-Dichloroethene	5.782	61	502742	48.3327923	ppbv	100
21) Acetone	5.819	43	447360	41.9534277	ppbv	99
22) BROMOETHANE	5.965	108	304701	49.8979036	ppbv	100
23) 2-Propanol	5.843	45	488685	41.4960548	ppbv	100
24) Carbon Disulfide	6.056	76	1162303	44.5169640	ppbv	98
25) Allyl Chloride	6.093	41	375334m	49.3886456	ppbv	
26) METHYL ACETATE	6.044	43	558299	48.3774943	ppbv #	100
27) ACETONITRILE	6.117	41	1541081	239.4524259	ppbv #	91
28) Methylene Chloride	6.208	49	334917	46.4890855	ppbv	99
29) TERT-BUTYL ALCOHOL	6.172	59	583766	48.3965173	ppbv	96
30) Methyl Tert-Butyl Ether	6.342	73	808069	49.7124262	ppbv	99
31) Trans-1,2-Dichloroethene	6.409	61	506694	49.1997344	ppbv	98
32) ACRYLONITRILE	6.439	53	259095	48.7705580	ppbv	99
33) n-Hexane	6.525	57	464923	48.2283173	ppbv	99
34) 1,1-Dichloroethane	6.792	63	624397	49.0977109	ppbv	100
35) Vinyl Acetate	6.719	43	721891	47.3452049	ppbv	100
36) DI-ISOPROPYL ETHER	6.671	45	966500	49.7394416	ppbv	98
37) ETHYL TERT-BUTYL ETHER	6.975	59	1010987	49.0729523	ppbv	99
38) ETHYL ACETATE	7.194	45	105440	49.1479107	ppbv	96
39) 2-Butanone (MEK)	7.242	72	154452	48.9542279	ppbv	96
40) cis-1,2-Dichloroethene	7.279	61	483097	49.1866201	ppbv	99
41) Tetrahydrofuran	7.510	42	316048	47.6064020	ppbv	98
42) Chloroform	7.510	83	672440	48.6161014	ppbv	100
43) Cyclohexane	7.723	84	370472	47.9578080	ppbv	97
44) 1,1,1-Trichloroethane	7.705	97	695454	49.7053502	ppbv	99
45) Carbon Tetrachloride	7.833	117	747757	50.3296775	ppbv	99
46) 2,2,4-Trimethylpentane	7.942	57	1531296	48.2595885	ppbv	99
48) Benzene	8.033	78	979095	46.2128187	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_15.D
Acq On : 1 Dec 2022 12:21 am
Operator :
Sample : STD AMS 50.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 01 08:16:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:15:18 2022
Response via : Initial Calibration

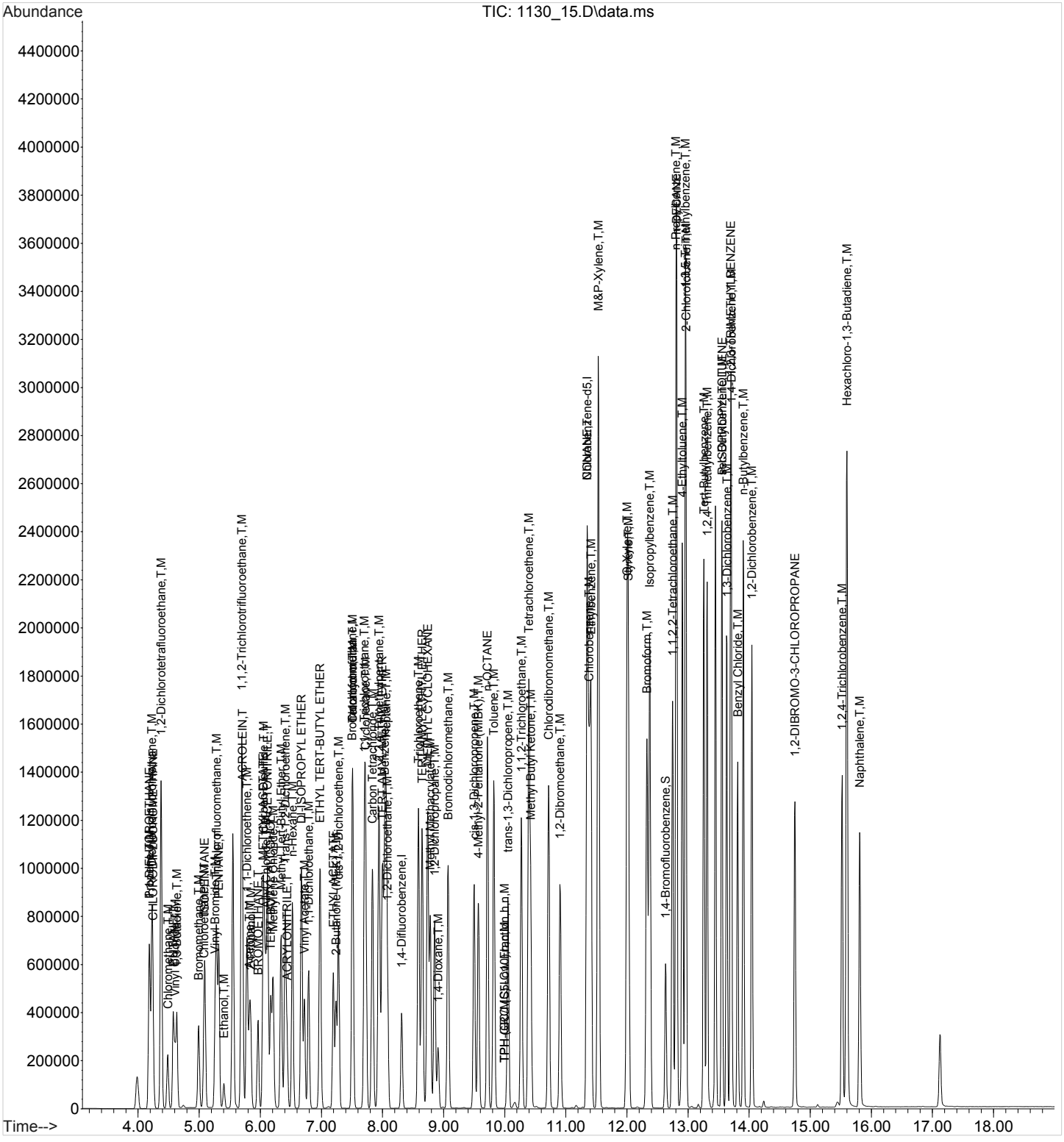
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) TERT-AMYL METHYL ETHER	7.997	73	961163	46.2182946 ppbv	98
50) 1,2-Dichloroethane	8.082	62	370283	47.5133322 ppbv	99
51) Heptane	8.058	43	526175	45.0575435 ppbv	99
52) Trichloroethene	8.587	95	501865	49.1880240 ppbv	98
53) TERT-AMYL ETHYL ETHER	8.648	73	322558	45.8124249 ppbv	98
54) METHYL CYCLOHEXANE	8.739	83	648201	46.3844402 ppbv	97
55) 1,2-Dichloropropane	8.855	63	419672	48.1678279 ppbv	99
56) Methyl Methacrylate	8.782	41	422217	45.2474183 ppbv	93
57) 1,4-Dioxane	8.909	88	222187	51.1262977 ppbv	99
58) Bromodichloromethane	9.074	83	782447	48.8194243 ppbv	99
59) cis-1,3-Dichloropropene	9.499	75	696270	51.0863111 ppbv	98
60) 4-Methyl-2-Pentanone (...	9.566	43	723588	48.3628270 ppbv	99
61) n-OCTANE	9.718	43	858213	47.0096694 ppbv	99
62) Toluene	9.822	91	1273781	47.0838230 ppbv	99
63) trans-1,3-Dichloropropene	10.053	75	614027	51.4786712 ppbv	98
64) 1,1,2-Trichloroethane	10.272	97	492862	49.0767529 ppbv	99
65) Tetrachloroethene	10.394	166	649662	48.3271428 ppbv	99
66) Methyl Butyl Ketone	10.424	43	667451	48.3767926 ppbv	98
67) Chlorodibromomethane	10.716	129	957628	51.5361548 ppbv	100
68) 1,2-Dibromoethane	10.905	107	810701	50.3632194 ppbv	100
69) Chlorobenzene	11.379	112	952404	47.5891816 ppbv	96
70) NONANE	11.349	43	900185	46.2852172 ppbv	98
72) Ethylbenzene	11.410	91	1503785	47.8757766 ppbv	99
73) M&P-Xylene	11.531	91	2373754	95.7639037 ppbv	99
74) O-Xylene	12.000	91	1281368	49.6391239 ppbv	100
77) Styrene	12.024	104	1027061	49.6198851 ppbv	99
78) Bromoform	12.328	173	982056	55.7087570 ppbv	99
79) Isopropylbenzene	12.371	105	1680630	47.6330737 ppbv	99
80) n-DECANE	12.815	43	722170	42.2481508 ppbv	96
81) 1,1,2,2-Tetrachloroethane	12.748	83	1041962	49.9548648 ppbv	99
82) n-Propylbenzene	12.803	91	1835953	45.1217707 ppbv	98
83) 4-Ethyltoluene	12.906	105	1579194	48.3460427 ppbv	99
84) 2-Chlorotoluene	12.967	126	386220	45.3892864 ppbv	97
86) 1,3,5-Trimethylbenzene	12.955	105	1233797	44.7762943 ppbv	99
87) Tert-Butylbenzene	13.259	119	1175349	47.0069493 ppbv	99
88) 1,2,4-Trimethylbenzene	13.314	105	1221310	46.0368459 ppbv	99
89) sec-Butylbenzene	13.557	134	364406	47.9019077 ppbv	94
90) 1,3-Dichlorobenzene	13.636	146	867597	54.9844774 ppbv	99
91) P-ISOPROPYLTOLUENE	13.557	119	1438186	46.6617436 ppbv	98
92) 1,4-Dichlorobenzene	13.709	146	784116	52.5583903 ppbv	99
93) 1,2,3-TRIMETHYLBENZENE	13.697	105	1148994	43.8719732 ppbv	99
94) Benzyl Chloride	13.813	91	1008296	58.8028907 ppbv	99
95) n-Butylbenzene	13.904	91	1396305	48.0886944 ppbv	98
96) 1,2-Dichlorobenzene	14.044	146	835050	53.1203688 ppbv	100
97) 1,2-DIBROMO-3-CHLOROPR...	14.750	157	422333	56.1318075 ppbv	99
98) 1,2,4-Trichlorobenzene	15.522	180	538246	82.0999452 ppbv	100
99) Hexachloro-1,3-Butadiene	15.601	225	719004	50.3159223 ppbv	98
100) Naphthalene	15.808	128	1117206	69.0457857 ppbv	100
101) TPH (GC/MS) Low Fraction	10.000	TIC	123238077m	2251.2998277 ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	143134406m	2860.6698961 ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_15.D
Acq On : 1 Dec 2022 12:21 am
Operator :
Sample : STD AMS 50.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 15 Sample Multiplier: 1

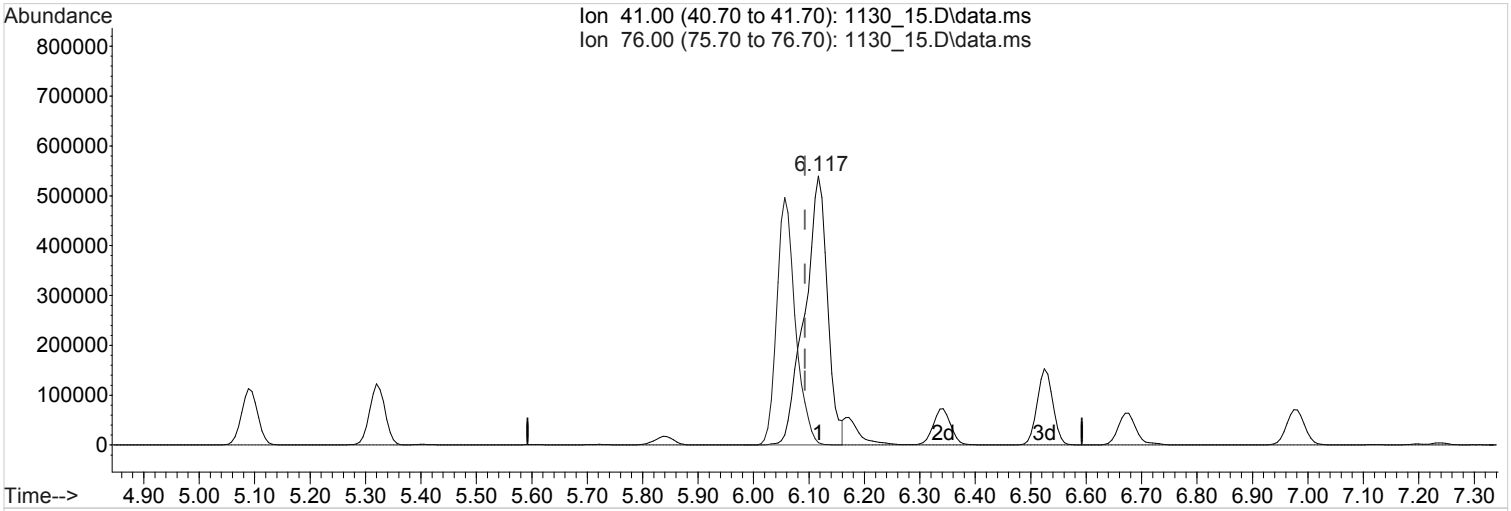
Quant Time: Dec 01 08:16:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:15:18 2022
Response via : Initial Calibration

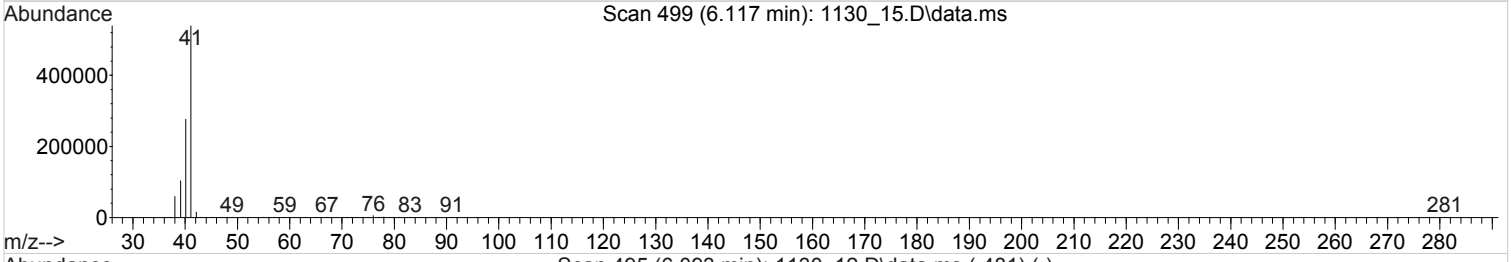


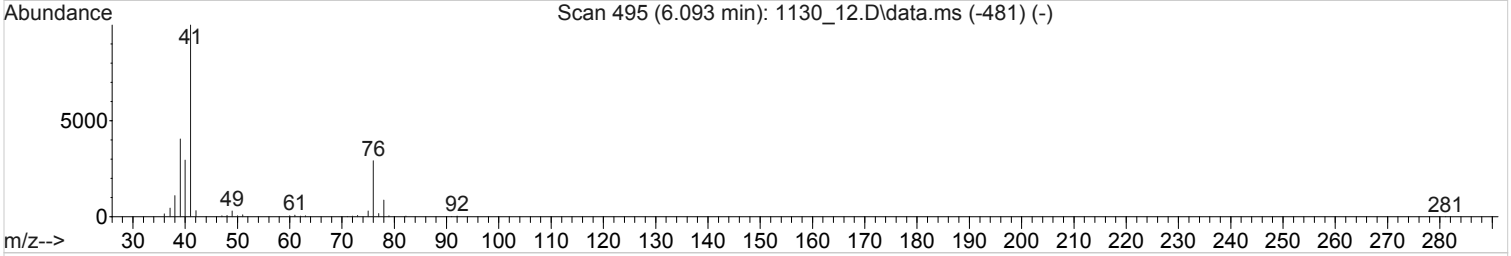
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_15.D
Acq On : 1 Dec 2022 12:21 am
Operator :
Sample : STD AMS 50.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 01 08:15:23 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:15:18 2022
Response via : Initial Calibration







TIC: 1130_15.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 202.7844622 ppbv

Qvalue = 1

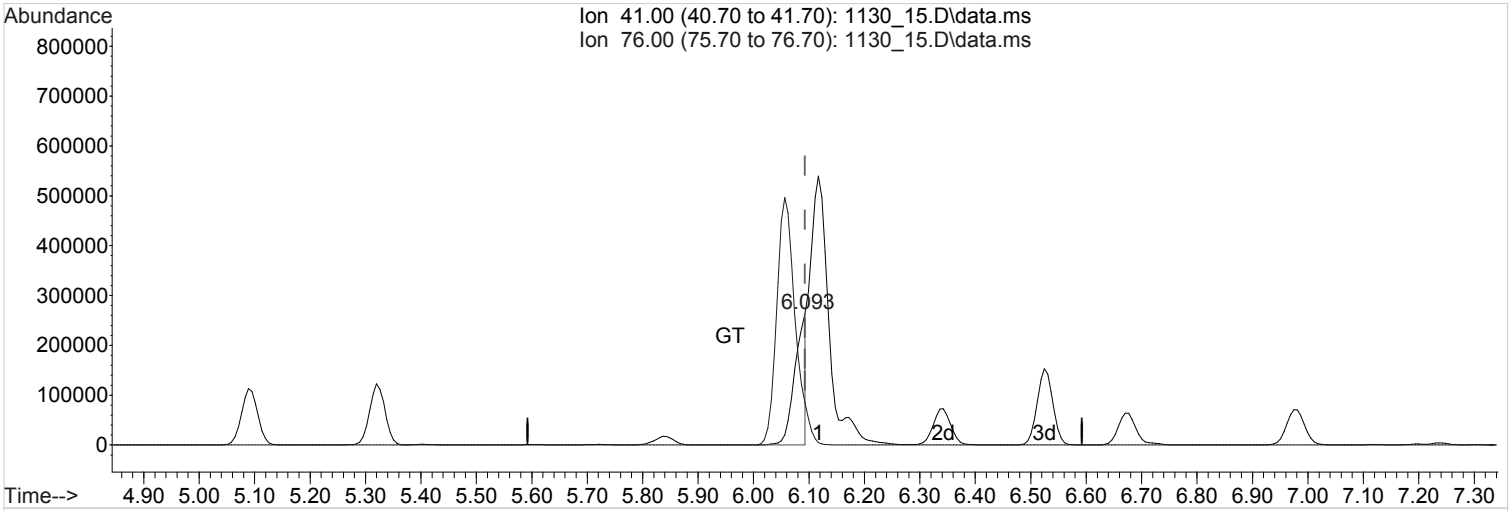
response 1541081

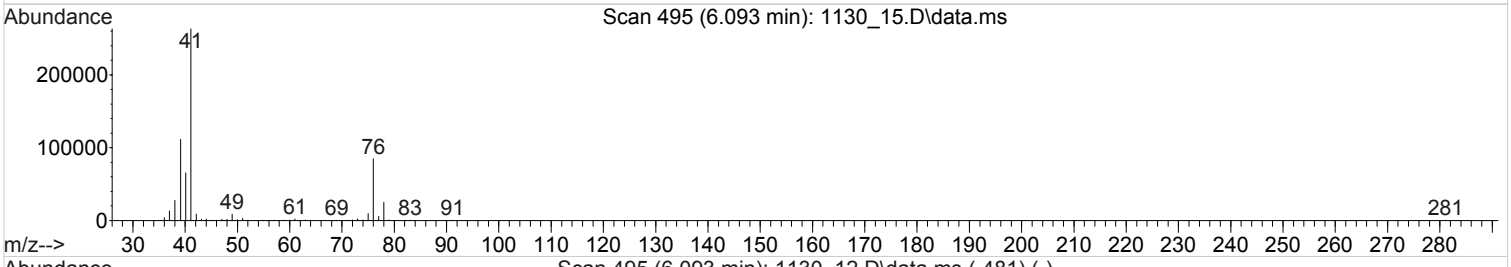
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	75.43#
0.00	0.00	0.00
0.00	0.00	0.00

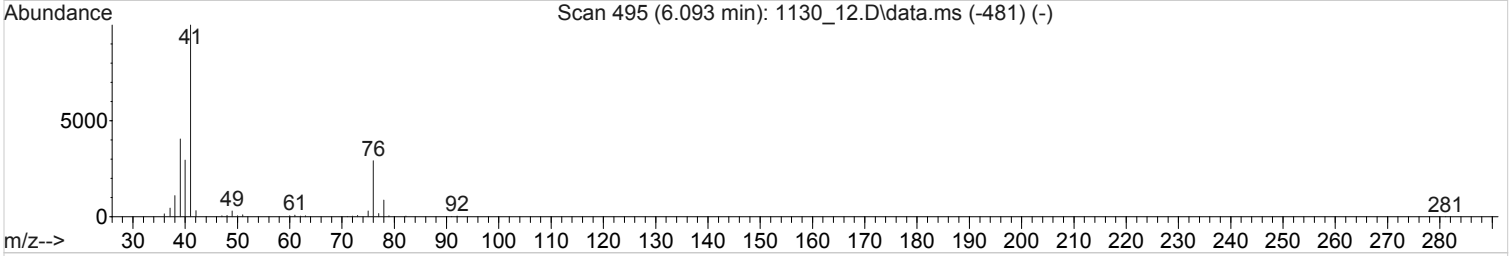
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_15.D
Acq On : 1 Dec 2022 12:21 am
Operator :
Sample : STD AMS 50.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 01 08:15:23 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:15:18 2022
Response via : Initial Calibration







TIC: 1130_15.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 49.3886456 ppbv m

response 375334

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	309.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_16.D
Acq On : 1 Dec 2022 1:11 am
Operator :
Sample : STD AMS 100.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 01 08:17:47 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:16:31 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.510	130	90898	4.0000000	ppbv	# 0.00
47) 1,4-Difluorobenzene	8.313	114	369962	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.349	117	305089	4.0000000	ppbv	# 0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	239903	4.6877963	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 117.19%			
Target Compounds						Qvalue
2) Propene	4.183	41	450843	68.7306451	ppbv	99
3) BUTANE	4.572	43	694278	81.7154226	ppbv	99
4) 1,1-DIFLUOROETHANE	4.183	51	703451	97.9439349	ppbv	99
5) Dichlorodifluoromethane	4.225	85	1258781	79.9868954	ppbv	99
6) CHLORODIFLUOROMETHANE	4.243	51	838767	96.1154180	ppbv	99
7) 1,2-Dichlorotetrafluor...	4.371	85	1614495	94.4109032	ppbv	99
8) Chloromethane	4.481	50	550238	99.1641559	ppbv	99
9) Vinyl Chloride	4.602	62	518139	95.3023315	ppbv	97
10) 1,3-Butadiene	4.633	39	322139	88.6242739	ppbv	97
11) Bromomethane	4.992	94	505360	95.5927387	ppbv	98
12) Chloroethane	5.071	64	203945	88.0467289	ppbv	97
13) ISOPENTANE	5.089	43	491026	83.8526477	ppbv	94
14) Vinyl Bromide	5.259	106	485704	90.4117762	ppbv	99
15) Trichlorofluoromethane	5.284	101	1180632	90.5886775	ppbv	100
16) PENTANE	5.320	43	881347	72.3129914	ppbv	100
17) Ethanol	5.405	45	259756	75.4730341	ppbv	98
18) ACROLEIN	5.710	56	241046	87.9130790	ppbv	99
19) 1,1,2-Trichlorotrifluo...	5.697	101	1290662	91.6324172	ppbv	98
20) 1,1-Dichloroethene	5.783	61	972562	96.9631370	ppbv	99
21) Acetone	5.819	43	852057	84.0612011	ppbv	98
22) BROMOETHANE	5.959	108	605460	102.4644130	ppbv	100
23) 2-Propanol	5.843	45	949268	84.8853929	ppbv	98
24) Carbon Disulfide	6.056	76	2215098	88.7368349	ppbv	98
25) Allyl Chloride	6.093	41	688027m	93.6668132	ppbv	
26) METHYL ACETATE	6.044	43	1065334	95.7219751	ppbv #	100
27) ACETONITRILE	6.123	41	2920055	470.9839625	ppbv #	90
28) Methylene Chloride	6.208	49	649620	93.8978178	ppbv	99
29) TERT-BUTYL ALCOHOL	6.172	59	1125344	96.7367585	ppbv	94
30) Methyl Tert-Butyl Ether	6.342	73	1592745	101.3027009	ppbv	100
31) Trans-1,2-Dichloroethene	6.403	61	990959	99.5924328	ppbv	97
32) ACRYLONITRILE	6.440	53	503375	98.1655551	ppbv	100
33) n-Hexane	6.525	57	900065	96.8475885	ppbv	99
34) 1,1-Dichloroethane	6.792	63	1203928	98.0061342	ppbv	100
35) Vinyl Acetate	6.725	43	1419025	96.7263461	ppbv	100
36) DI-ISOPROPYL ETHER	6.677	45	1854347	98.6557098	ppbv	96
37) ETHYL TERT-BUTYL ETHER	6.981	59	1984167	99.7128406	ppbv	99
38) ETHYL ACETATE	7.200	45	204736	98.7865099	ppbv	91
39) 2-Butanone (MEK)	7.243	72	307873	101.0553605	ppbv	96
40) cis-1,2-Dichloroethene	7.279	61	929832	97.9903855	ppbv	98
41) Tetrahydrofuran	7.510	42	604614	94.5991799	ppbv	98
42) Chloroform	7.510	83	1291646	96.7806167	ppbv	100
43) Cyclohexane	7.723	84	720018	96.7393860	ppbv	96
44) 1,1,1-Trichloroethane	7.705	97	1336896	98.7864655	ppbv	99
45) Carbon Tetrachloride	7.839	117	1457989	101.3165722	ppbv	99
46) 2,2,4-Trimethylpentane	7.942	57	2960056	96.7582388	ppbv	99
48) Benzene	8.040	78	1849927	87.5335988	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_16.D
Acq On : 1 Dec 2022 1:11 am
Operator :
Sample : STD AMS 100.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 01 08:17:47 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:16:31 2022
Response via : Initial Calibration

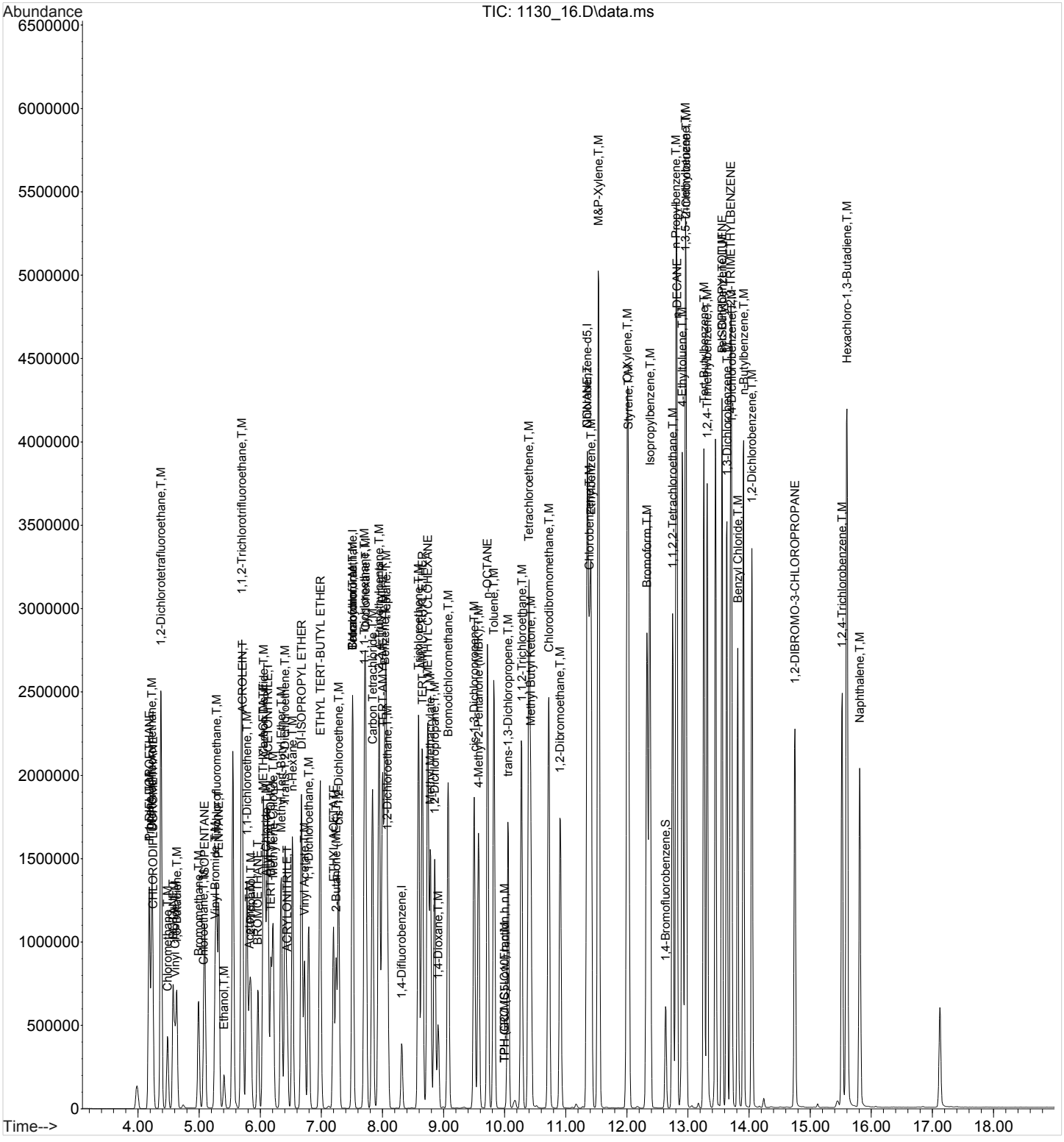
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	TERT-AMYL METHYL ETHER	8.003	73	1870547	90.1701380	ppbv	98
50)	1,2-Dichloroethane	8.082	62	715384	91.7570769	ppbv	100
51)	Heptane	8.058	43	995397	85.6726245	ppbv	99
52)	Trichloroethene	8.587	95	983044	95.9493120	ppbv	99
53)	TERT-AMYL ETHYL ETHER	8.654	73	627149	89.3755316	ppbv	98
54)	METHYL CYCLOHEXANE	8.739	83	1244864	89.2688814	ppbv	99
55)	1,2-Dichloropropane	8.855	63	811246	92.9359128	ppbv	99
56)	Methyl Methacrylate	8.782	41	842920	90.7543910	ppbv	94
57)	1,4-Dioxane	8.909	88	433308	98.8664345	ppbv	99
58)	Bromodichloromethane	9.074	83	1526431	94.9222157	ppbv	99
59)	cis-1,3-Dichloropropene	9.500	75	1376135	100.1273825	ppbv	98
60)	4-Methyl-2-Pentanone (...	9.573	43	1393720	92.9374744	ppbv	99
61)	n-OCTANE	9.719	43	1593616	87.3541378	ppbv	98
62)	Toluene	9.822	91	2411450	89.1848050	ppbv	97
63)	trans-1,3-Dichloropropene	10.053	75	1200654	99.7344285	ppbv	98
64)	1,1,2-Trichloroethane	10.278	97	936375	92.8761772	ppbv	100
65)	Tetrachloroethene	10.394	166	1220256	90.5699614	ppbv	99
66)	Methyl Butyl Ketone	10.424	43	1258674	91.0148856	ppbv	97
67)	Chlorodibromomethane	10.722	129	1817720	96.9112603	ppbv	99
68)	1,2-Dibromoethane	10.905	107	1567553	96.7245468	ppbv	100
69)	Chlorobenzene	11.386	112	1745812	87.1825422	ppbv	97
70)	NONANE	11.349	43	1602848	82.6066445	ppbv	96
72)	Ethylbenzene	11.410	91	2803326	95.5393427	ppbv	98
73)	M&P-Xylene	11.531	91	4104680	177.2629651	ppbv	98
74)	O-Xylene	12.006	91	2357721	97.3900720	ppbv	100
77)	Styrene	12.024	104	1856785	95.6558993	ppbv	98
78)	Bromoform	12.328	173	1888617	112.7145211	ppbv	99
79)	Isopropylbenzene	12.377	105	3112202	94.4752914	ppbv	98
80)	n-DECANE	12.821	43	1102457	69.9197763	ppbv	94
81)	1,1,2,2-Tetrachloroethane	12.748	83	1894958	96.8038609	ppbv	99
82)	n-Propylbenzene	12.803	91	2945821	77.9808972	ppbv	96
83)	4-Ethyltoluene	12.906	105	2846737	93.1956380	ppbv	97
84)	2-Chlorotoluene	12.967	126	644694	81.5583803	ppbv	95
86)	1,3,5-Trimethylbenzene	12.955	105	1989766	77.8396630	ppbv	97
87)	Tert-Butylbenzene	13.259	119	2141140	91.8464024	ppbv	98
88)	1,2,4-Trimethylbenzene	13.314	105	2189541	88.7152189	ppbv	98
89)	sec-Butylbenzene	13.557	134	668261	94.0300418	ppbv	89
90)	1,3-Dichlorobenzene	13.636	146	1605158	107.1962030	ppbv	99
91)	P-ISOPROPYLTOLUENE	13.557	119	2536165	88.3244189	ppbv	96
92)	1,4-Dichlorobenzene	13.716	146	1365535	96.9674756	ppbv	99
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	1914186	78.9463314	ppbv	98
94)	Benzyl Chloride	13.813	91	1967432	119.9003227	ppbv	97
95)	n-Butylbenzene	13.910	91	2417150	89.0714339	ppbv	97
96)	1,2-Dichlorobenzene	14.044	146	1529542	102.9514712	ppbv	99
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	774540	108.2040802	ppbv	99
98)	1,2,4-Trichlorobenzene	15.522	180	995300	150.9785023	ppbv	99
99)	Hexachloro-1,3-Butadiene	15.601	225	1210181	90.1661016	ppbv	98
100)	Naphthalene	15.808	128	1988622	125.6252829	ppbv	99
101)	TPH (GC/MS) Low Fraction	10.000	TIC	230402389m	4576.5604890	ppbv	
102)	TPH-GRO (C5-C10)	10.000	TIC	268052180m	5881.9401608	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_16.D
Acq On : 1 Dec 2022 1:11 am
Operator :
Sample : STD AMS 100.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 16 Sample Multiplier: 1

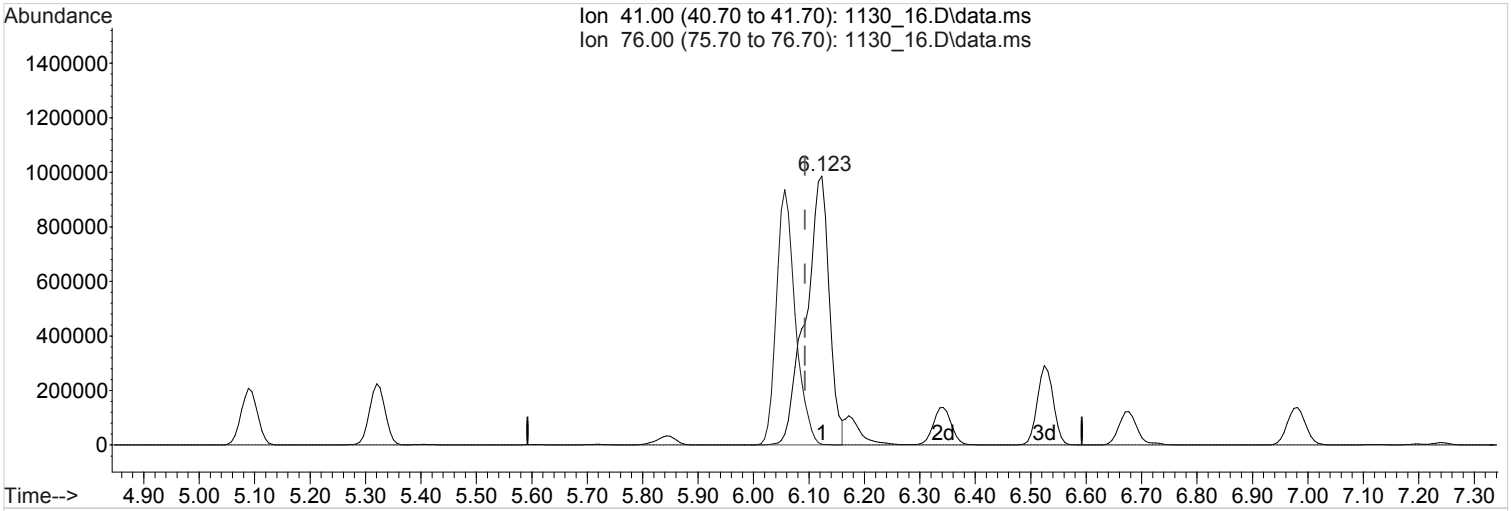
Quant Time: Dec 01 08:17:47 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:16:31 2022
Response via : Initial Calibration

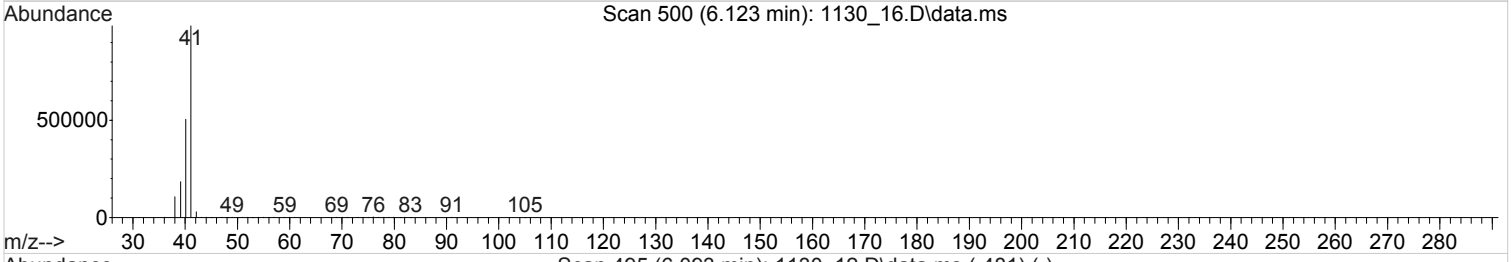


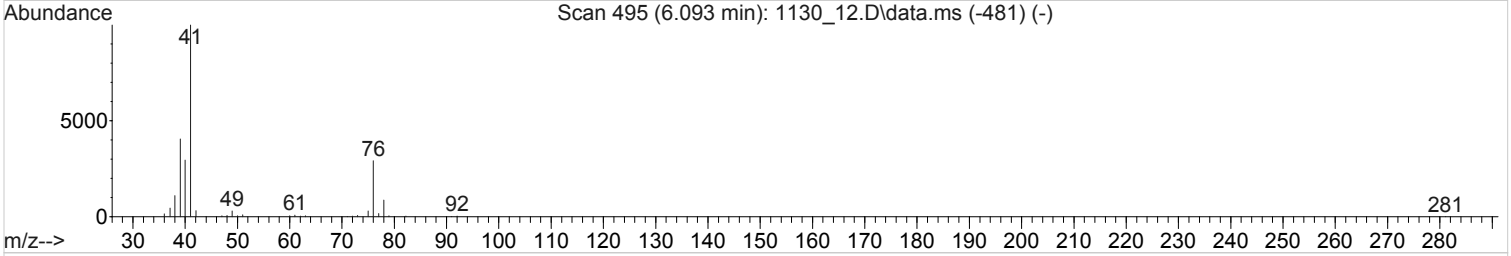
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_16.D
Acq On : 1 Dec 2022 1:11 am
Operator :
Sample : STD AMS 100.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 01 08:16:35 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:16:31 2022
Response via : Initial Calibration







TIC: 1130_16.D\data.ms

(25) Allyl Chloride (T,M)

6.123min (+0.031) 397.5312687 ppbv

Qvalue = 1

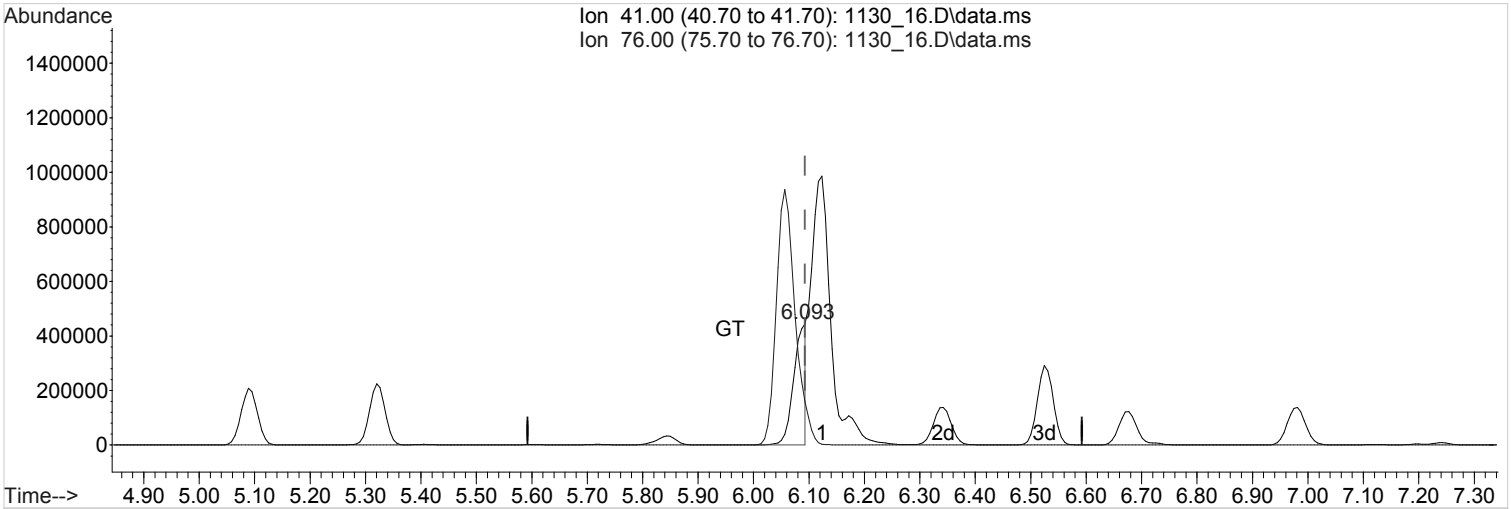
response 2920055

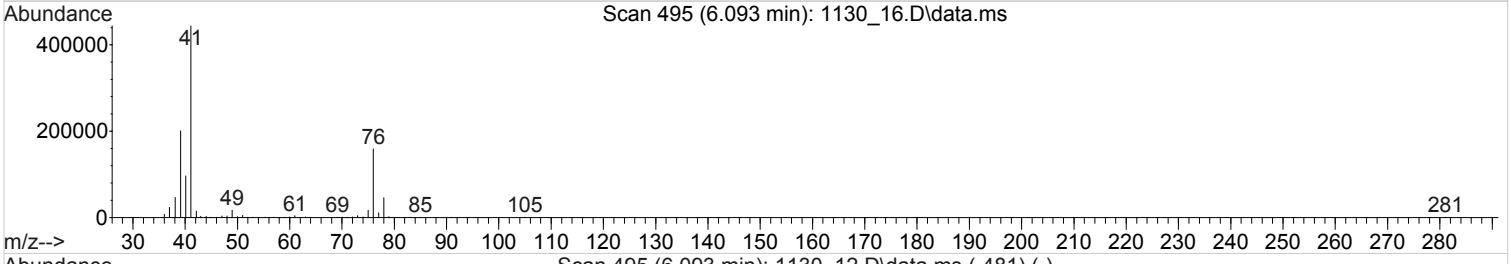
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	75.86#
0.00	0.00	0.00
0.00	0.00	0.00

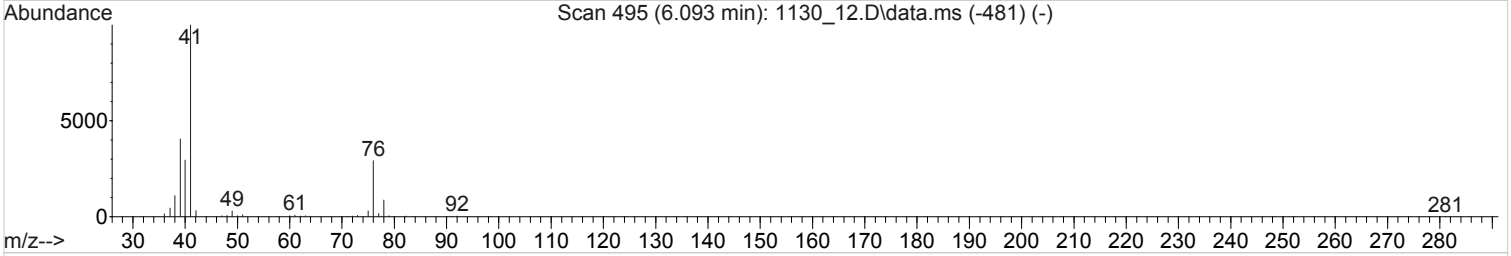
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_16.D
Acq On : 1 Dec 2022 1:11 am
Operator :
Sample : STD AMS 100.0 ppbv 22J25945
Misc : 22K22745
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 01 08:16:35 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:16:31 2022
Response via : Initial Calibration







TIC: 1130_16.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 93.6668132 ppbv m

response 688027

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	321.95
0.00	0.00	0.00
0.00	0.00	0.00

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570581	**Calibration (begin) date/time:**	11/30/22 18:49
Instrument ID:	AIRMS4	**Calibration (end) date/time:**	12/01/22 01:11
Lab File ID:	1130_18	**Analysis date/time:**	12/01/22 02:34
Analytical Method:	TO-15	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	0.594810	0.59271170		0.3530		5	4.982	99.60	60 - 140
1,1,2,2-TETRACHLOROETHANE	0.255829	0.28706920		12.20		5	5.611	112	60 - 140
1,1,2-TRICHLOROETHANE	0.108229	0.11613480		7.30		5	5.365	107	60 - 140
1,1,2-TRICHLOROTRIFLUOROETHANE	0.614638	0.62084050		1.01		5	5.050	101	60 - 140
1,1-DICHLOROETHANE	0.539493	0.538871		0.1150		5	4.994	99.90	60 - 140
1,1-DICHLOROETHENE	0.440043	0.45072370		2.43		5	5.121	102	60 - 140
1,2,4-TRICHLOROBENZENE	0.084459	0.10757760		27.40		5	6.369	127	60 - 140
1,2,4-TRIMETHYLBENZENE	0.319933	0.37086870		15.90		5	5.796	116	60 - 140
1,2-DIBROMOETHANE	0.174648	0.18943760		8.47		5	5.423	108	60 - 140
1,2-DICHLOROBENZENE	0.195363	0.24351310		24.60		5	6.232	125	60 - 140
1,2-DICHLOROETHANE	0.0836	0.08848708		5.85		5	5.292	106	60 - 140
1,2-DICHLOROPROPANE	0.093712	0.09928583		5.95		5	5.297	106	60 - 140
1,3,5-TRIMETHYLBENZENE	0.327719	0.38400480		17.20		5	5.859	117	60 - 140
1,3-BUTADIENE	0.158135	0.15339960		2.99		5	4.850	97	60 - 140
1,3-DICHLOROBENZENE	0.197736	0.240284		21.50		5	6.076	122	60 - 140
1,4-DICHLOROBENZENE	0.184073	0.23113840		25.60		5	6.278	126	60 - 140
2-BUTANONE (MEK)	0.134207	0.14381260		7.16		5	5.358	107	60 - 140
4-ETHYLTOLUENE	0.397759	0.45660860		14.80		5	5.740	115	60 - 140
4-METHYL-2-PENTANONE (MIBK)	0.160994	0.19671790		22.20		5	6.109	122	60 - 140
ACETONE	0.438936	0.63993440		45.80		5	7.290	146	60 - 140
BENZENE	0.225650	0.23568160		4.45		5	5.222	104	60 - 140
BENZYL CHLORIDE	0.219417	0.23803580		8.49		5	5.424	108	60 - 140
BROMODICHLOROMETHANE	0.172982	0.18208560		5.26		5	5.263	105	60 - 140
BROMOFORM	0.222477	0.23820290		7.07		5	5.353	107	60 - 140
BROMOMETHANE	0.231613	0.22767860		1.70		5	4.915	98.30	60 - 140
CARBON DISULFIDE	1.086114	1.015259		6.52		5	4.674	93.50	60 - 140
CARBON TETRACHLORIDE	0.634090	0.64200710		1.25		5	5.062	101	60 - 140
CHLOROBENZENE	0.213731	0.22377450		4.70		5	5.235	105	60 - 140
CHLORODIBROMOMETHANE	0.202168	0.21886520		8.26		5	5.413	108	60 - 140
CHLOROETHANE	0.100712	0.09632587		4.36		5	4.782	95.60	60 - 140
CHLOROFORM	0.585410	0.59951390		2.41		5	5.120	102	60 - 140
CHLOROMETHANE	0.243971	0.24232310		0.6750		5	4.966	99.30	60 - 140
CIS-1,2-DICHLOROETHENE	0.416728	0.42756450		2.60		5	5.130	103	60 - 140
CIS-1,3-DICHLOROPROPENE	0.148616	0.15792150		6.26		5	5.313	106	60 - 140
DICHLORODIFLUOROMETHANE	0.678668	0.68466820		0.8840		5	5.044	101	60 - 140
ETHYLBENZENE	0.382986	0.38713840		1.08		5	5.054	101	60 - 140
HEXACHLORO-1,3-BUTADIENE	0.174240	0.21662050		24.30		5	6.216	124	60 - 140
M&P-XYLENE	0.300144	0.30817420		2.68		10	10.27	103	60 - 140
METHYL BUTYL KETONE	0.148178	0.16975470		14.60		5	5.728	115	60 - 140
METHYL TERT-BUTYL ETHER	0.692781	0.71560590		3.29		5	5.165	103	60 - 140
METHYLENE CHLORIDE	0.302588	0.30160550		0.3250		5	4.984	99.70	60 - 140
NAPHTHALENE	0.212862	0.19827920		6.85		5	4.657	93.10	60 - 140
O-XYLENE	0.316575	0.32033890		1.19		5	5.059	101	60 - 140
STYRENE	0.253392	0.27807880		9.74		5	5.487	110	60 - 140
TETRACHLOROETHENE	0.144296	0.15159530		5.06		5	5.253	105	60 - 140
TOLUENE	0.289180	0.30592010		5.79		5	5.289	106	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570581	**Calibration (begin) date/time:**	11/30/22 18:49
Instrument ID:	AIRMS4	**Calibration (end) date/time:**	12/01/22 01:11
Lab File ID:	1130_18	**Analysis date/time:**	12/01/22 02:34
Analytical Method:	TO-15	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*ppbv*	*ppbv*	*% Rec.*	*%*
TRANS-1,2-DICHLOROETHENE	0.437681	0.43783970		0.0363		5	5.002	100	60 - 140
TRANS-1,3-DICHLOROPROPENE	0.130125	0.13965990		7.33		5	5.366	107	60 - 140
TRICHLOROETHENE	0.110324	0.11680420		5.87		5	5.294	106	60 - 140
TRICHLOROFLUOROMETHANE	0.568119	0.58122020		2.31		5	5.115	102	60 - 140
VINYL ACETATE	0.643468	0.61213370		4.87		5	4.757	95.10	60 - 140
VINYL CHLORIDE	0.238124	0.23885810		0.3080		5	5.015	100	60 - 140
1,4-BROMOFLUOROBENZENE	0.682503	0.67504480		1.09		4	3.956	98.90	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_18.D
Acq On : 1 Dec 2022 2:34 am
Operator :
Sample : SSCV AMS 5.0 ppbv 22K29413
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 01 08:28:15 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	99969	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	368117	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.349	117	335200	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	226275	3.9562888	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 98.91%			
Target Compounds						Qvalue
2) Propene	4.182	41	25580	4.4424599	ppbv	99
3) BUTANE	4.578	43	39571	4.3137107	ppbv	99
4) 1,1-DIFLUOROETHANE	4.182	51	38440	4.8765189	ppbv	99
5) Dichlorodifluoromethane	4.225	85	85557	5.0442072	ppbv	99
6) CHLORODIFLUOROMETHANE	4.243	51	46619	4.8763402	ppbv	100
7) 1,2-Dichlorotetrafluor...	4.371	85	93174	4.9819950	ppbv	99
8) Chloromethane	4.481	50	30281	4.9662261	ppbv	97
9) Vinyl Chloride	4.602	62	29848	5.0154100	ppbv	100
10) 1,3-Butadiene	4.633	39	19169	4.8502771	ppbv	95
11) Bromomethane	4.992	94	28451	4.9150601	ppbv	98
12) Chloroethane	5.077	64	12037	4.7822240	ppbv	98
13) ISOPENTANE	5.089	43	29384	4.6374808	ppbv	97
14) Vinyl Bromide	5.259	106	28958	4.9487449	ppbv	99
15) Trichlorofluoromethane	5.284	101	72630	5.1152991	ppbv	100
16) PENTANE	5.320	43	52306	4.0133201	ppbv	100
17) Ethanol	5.399	45	33149	10.3294123	ppbv	98
18) ACROLEIN	5.709	56	15097	5.0677416	ppbv	100
19) 1,1,2-Trichlorotrifluo...	5.697	101	77581	5.0504521	ppbv	99
20) 1,1-Dichloroethene	5.782	61	56323	5.1213566	ppbv	100
21) Acetone	5.819	43	79967	7.2896154	ppbv	92
22) BROMOETHANE	5.965	108	31911	4.8983299	ppbv	100
23) 2-Propanol	5.837	45	154158	12.7266316	ppbv #	58
24) Carbon Disulfide	6.056	76	126868	4.6738132	ppbv	99
25) Allyl Chloride	6.093	41	49947m	6.2221126	ppbv	
26) METHYL ACETATE	6.044	43	65704	5.3909904	ppbv #	100
27) ACETONITRILE	6.117	41	276444	40.7792166	ppbv	95
28) Methylene Chloride	6.208	49	37689	4.9837697	ppbv	99
29) TERT-BUTYL ALCOHOL	6.166	59	80919	6.3454912	ppbv #	61
30) Methyl Tert-Butyl Ether	6.342	73	89423	5.1647298	ppbv	100
31) Trans-1,2-Dichloroethene	6.403	61	54713	5.0018102	ppbv	95
32) ACRYLONITRILE	6.433	53	33859	6.0148945	ppbv	99
33) n-Hexane	6.525	57	50844	4.9901645	ppbv	98
34) 1,1-Dichloroethane	6.786	63	67338	4.9942322	ppbv	100
35) Vinyl Acetate	6.719	43	76493	4.7565216	ppbv	100
36) DI-ISOPROPYL ETHER	6.671	45	109757	5.3166325	ppbv	100
37) ETHYL TERT-BUTYL ETHER	6.975	59	108784	4.9722345	ppbv	99
38) ETHYL ACETATE	7.194	45	11726	5.1507400	ppbv	96
39) 2-Butanone (MEK)	7.236	72	17971	5.3578541	ppbv	95
40) cis-1,2-Dichloroethene	7.279	61	53429	5.1300151	ppbv	99
41) Tetrahydrofuran	7.510	42	47532	6.7988607	ppbv	99
42) Chloroform	7.510	83	74916	5.1204586	ppbv	100
43) Cyclohexane	7.723	84	41367	5.0701564	ppbv	98
44) 1,1,1-Trichloroethane	7.705	97	74066	4.9823593	ppbv	100
45) Carbon Tetrachloride	7.833	117	80226	5.0624291	ppbv	100
46) 2,2,4-Trimethylpentane	7.942	57	172377	5.1400399	ppbv	100
48) Benzene	8.033	78	108448	5.2222914	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_18.D
Acq On : 1 Dec 2022 2:34 am
Operator :
Sample : SSCV AMS 5.0 ppbv 22K29413
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 01 08:28:15 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

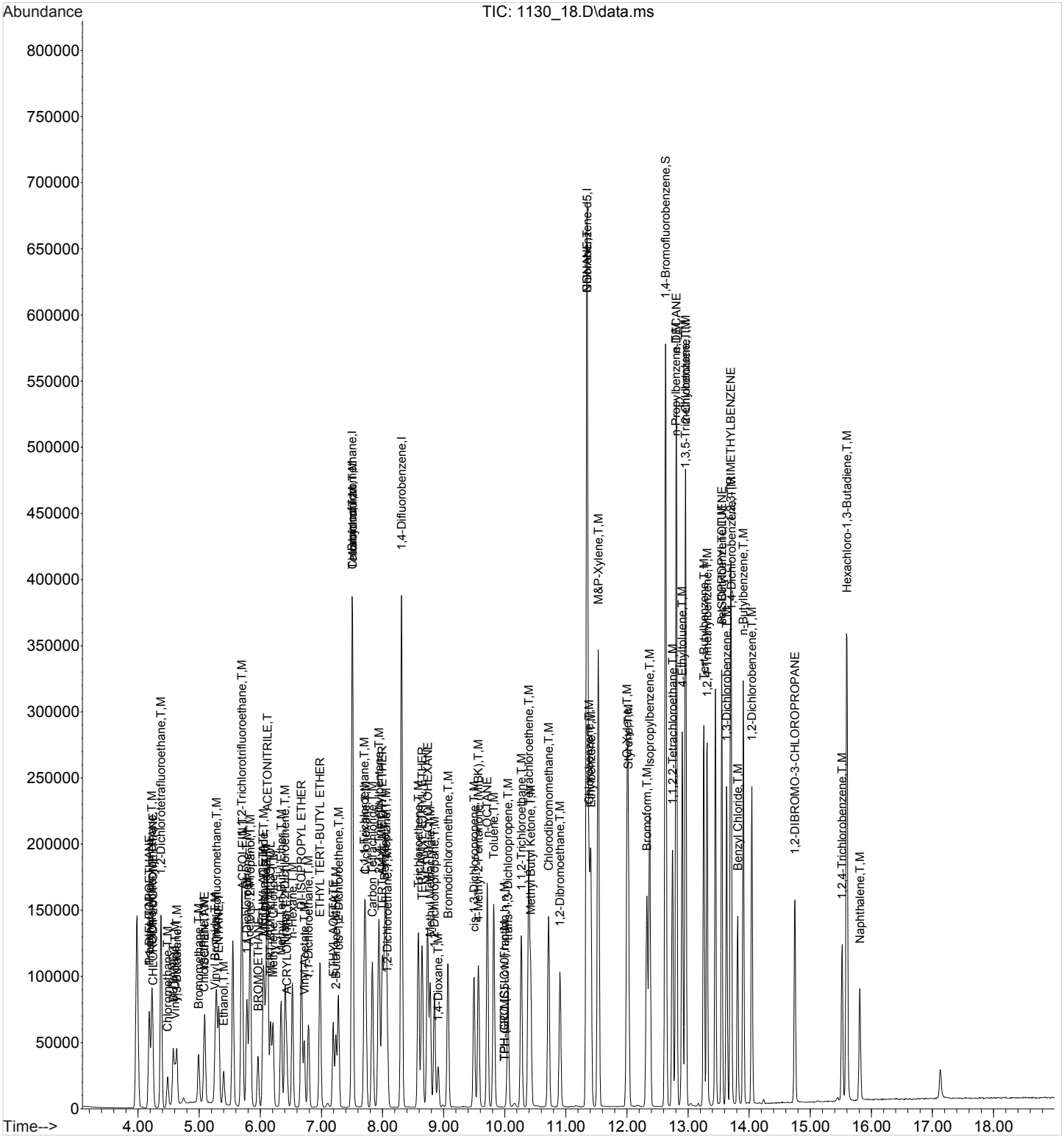
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) TERT-AMYL METHYL ETHER	7.997	73	108282	5.2979981	ppbv	99
50) 1,2-Dichloroethane	8.082	62	40717	5.2922708	ppbv	99
51) Heptane	8.058	43	59859	5.2530768	ppbv	100
52) Trichloroethene	8.587	95	53747	5.2936734	ppbv	99
53) TERT-AMYL ETHYL ETHER	8.648	73	34446	4.9865110	ppbv	98
54) METHYL CYCLOHEXANE	8.739	83	69204	5.0415755	ppbv	99
55) 1,2-Dichloropropane	8.849	63	45686	5.2974170	ppbv	99
56) Methyl Methacrylate	8.782	41	52258	5.7074132	ppbv	100
57) 1,4-Dioxane	8.909	88	26274	6.0317341	ppbv	98
58) Bromodichloromethane	9.074	83	83786	5.2631320	ppbv	99
59) cis-1,3-Dichloropropene	9.499	75	72667	5.3130632	ppbv	99
60) 4-Methyl-2-Pentanone (...	9.566	43	90519	6.1094825	ppbv	99
61) n-OCTANE	9.712	43	95508	5.3289034	ppbv	100
62) Toluene	9.822	91	140768	5.2894480	ppbv	100
63) trans-1,3-Dichloropropene	10.053	75	64264	5.3663820	ppbv	99
64) 1,1,2-Trichloroethane	10.272	97	53439	5.3652381	ppbv	99
65) Tetrachloroethene	10.394	166	69756	5.2529213	ppbv	99
66) Methyl Butyl Ketone	10.424	43	78112	5.7280657	ppbv	100
67) Chlorodibromomethane	10.716	129	100710	5.4129572	ppbv	99
68) 1,2-Dibromoethane	10.905	107	87169	5.4234123	ppbv	100
69) Chlorobenzene	11.379	112	102969	5.2349475	ppbv	98
70) NONANE	11.349	43	103563	5.4590719	ppbv	100
72) Ethylbenzene	11.410	91	162211	5.0542074	ppbv	100
73) M&P-Xylene	11.531	91	258250	10.2675574	ppbv	100
74) O-Xylene	12.000	91	134222	5.0594520	ppbv	100
77) Styrene	12.024	104	116515	5.4871300	ppbv	100
78) Bromoform	12.328	173	99807	5.3534343	ppbv	100
79) Isopropylbenzene	12.371	105	184655	5.1302683	ppbv	100
80) n-DECANE	12.809	43	100716	5.9940942	ppbv	100
81) 1,1,2,2-Tetrachloroethane	12.748	83	120282	5.6105645	ppbv	100
82) n-Propylbenzene	12.803	91	235990	5.8139011	ppbv	100
83) 4-Ethyltoluene	12.906	105	191319	5.7397646	ppbv	100
84) 2-Chlorotoluene	12.961	126	49299	5.7830837	ppbv	99
86) 1,3,5-Trimethylbenzene	12.955	105	160898	5.8587434	ppbv	100
87) Tert-Butylbenzene	13.259	119	145220	5.7163871	ppbv	99
88) 1,2,4-Trimethylbenzene	13.314	105	155394	5.7960298	ppbv	99
89) sec-Butylbenzene	13.551	134	44161	5.6896093	ppbv	100
90) 1,3-Dichlorobenzene	13.630	146	100679	6.0758769	ppbv	100
91) P-ISOPROPYLTOLUENE	13.551	119	181625	5.8250804	ppbv	100
92) 1,4-Dichlorobenzene	13.709	146	96847	6.2784288	ppbv	99
93) 1,2,3-TRIMETHYLBENZENE	13.697	105	154213	5.9133347	ppbv	100
94) Benzyl Chloride	13.813	91	99737	5.4242754	ppbv	100
95) n-Butylbenzene	13.904	91	179402	6.0835489	ppbv	100
96) 1,2-Dichlorobenzene	14.044	146	102032	6.2323261	ppbv	100
97) 1,2-DIBROMO-3-CHLOROPR...	14.750	157	48891	6.1659897	ppbv	98
98) 1,2,4-Trichlorobenzene	15.522	180	45075	6.3686090	ppbv	99
99) Hexachloro-1,3-Butadiene	15.601	225	90764	6.2161441	ppbv	99
100) Naphthalene	15.814	128	83079	4.6574682	ppbv	100
101) TPH (GC/MS) Low Fraction	10.000	TIC	14165789m	284.3502883	ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	16922157m	402.4932665	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_18.D
Acq On : 1 Dec 2022 2:34 am
Operator :
Sample : SSCV AMS 5.0 ppbv 22K29413
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 01 08:28:15 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

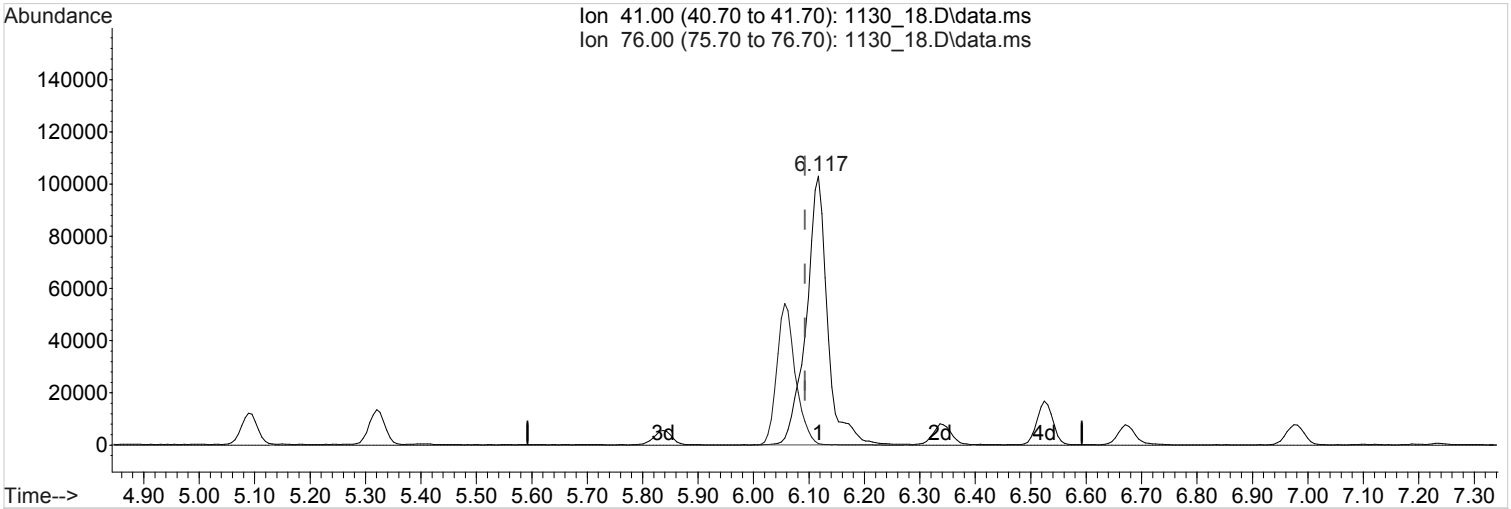


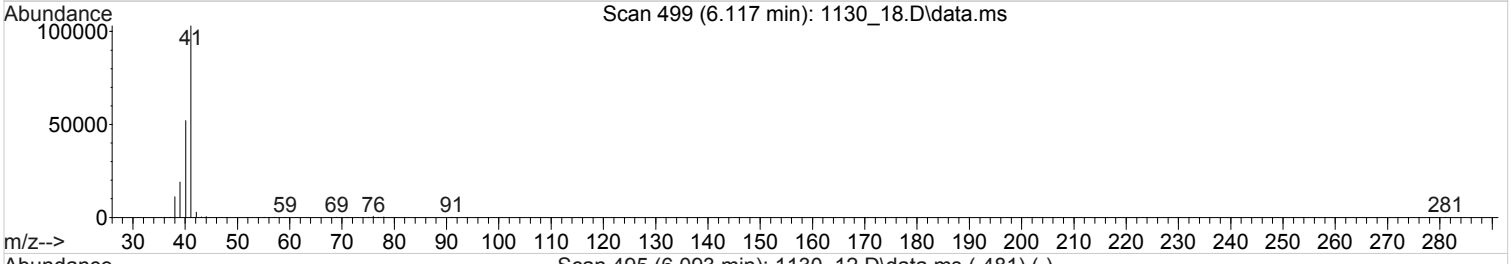
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	300 of 500

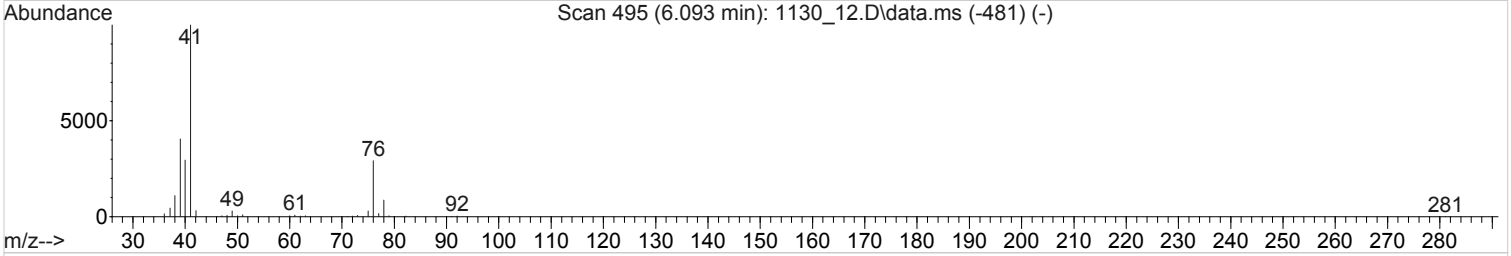
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_18.D
Acq On : 1 Dec 2022 2:34 am
Operator :
Sample : SSCV AMS 5.0 ppbv 22K29413
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 01 08:27:04 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1130_18.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 34.4378180 ppbv

Qvalue = 1

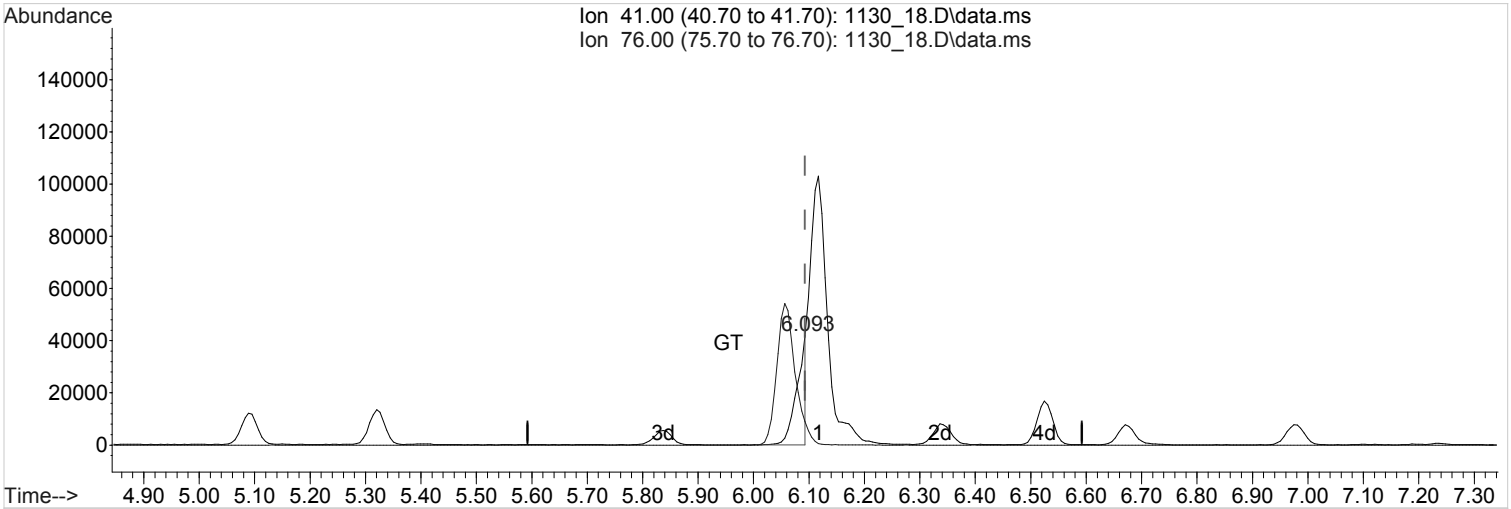
response 276444

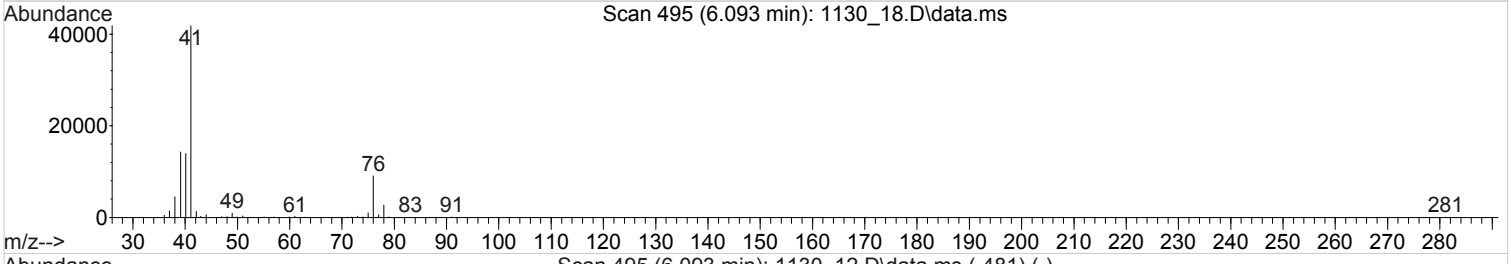
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	45.89#
0.00	0.00	0.00
0.00	0.00	0.00

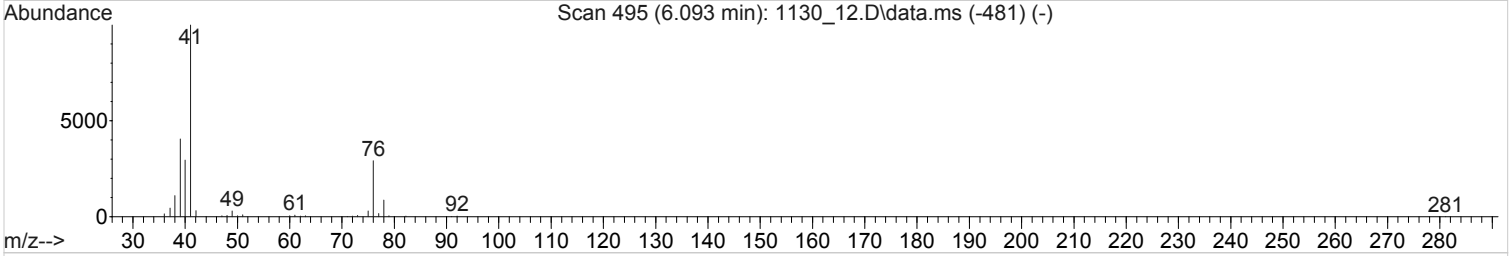
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\113022\
Data File : 1130_18.D
Acq On : 1 Dec 2022 2:34 am
Operator :
Sample : SSCV AMS 5.0 ppbv 22K29413
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 01 08:27:04 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1130_18.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 6.2221126 ppbv m

response 49947

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	254.01
0.00	0.00	0.00
0.00	0.00	0.00

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570581	**Calibration (begin) date/time:**	11/30/22 18:49
Instrument ID:	AIRMS4	**Calibration (end) date/time:**	12/01/22 01:11
Lab File ID:	1229_01	**Analysis date/time:**	12/29/22 10:36
Analytical Method:	TO-15	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	0.594810	0.541766		8.92		3.75	3.416	91.10	70 - 130
1,1,2,2-TETRACHLOROETHANE	0.255829	0.25874620		1.14		3.75	3.793	101	70 - 130
1,1,2-TRICHLOROETHANE	0.108229	0.10782590		0.3720		3.75	3.736	99.60	70 - 130
1,1,2-TRICHLOROTRIFLUOROETHANE	0.614638	0.60824510		1.04		3.75	3.711	99	70 - 130
1,1-DICHLOROETHANE	0.539493	0.482017		10.70		3.75	3.350	89.30	70 - 130
1,1-DICHLOROETHENE	0.440043	0.40280470		8.46		3.75	3.433	91.50	70 - 130
1,2,4-TRICHLOROBENZENE	0.084459	0.10591330		25.40		3.75	4.703	125	70 - 130
1,2,4-TRIMETHYLBENZENE	0.319933	0.31303230		2.16		3.75	3.669	97.80	70 - 130
1,2-DIBROMOETHANE	0.174648	0.177891		1.86		3.75	3.820	102	70 - 130
1,2-DICHLOROBENZENE	0.195363	0.22509880		15.20		3.75	4.321	115	70 - 130
1,2-DICHLOROETHANE	0.0836	0.08116592		2.91		3.75	3.641	97.10	70 - 130
1,2-DICHLOROPROPANE	0.093712	0.08826624		5.81		3.75	3.532	94.20	70 - 130
1,3,5-TRIMETHYLBENZENE	0.327719	0.32780490		0.0262		3.75	3.751	100	70 - 130
1,3-BUTADIENE	0.158135	0.12932390		18.20		3.75	3.067	81.80	70 - 130
1,3-DICHLOROBENZENE	0.197736	0.23165360		17.20		3.75	4.393	117	70 - 130
1,4-DICHLOROBENZENE	0.184073	0.22516020		22.30		3.75	4.587	122	70 - 130
2-BUTANONE (MEK)	0.134207	0.11893280		11.40		3.75	3.323	88.60	70 - 130
4-ETHYLTOLUENE	0.397759	0.40161080		0.9680		3.75	3.786	101	70 - 130
4-METHYL-2-PENTANONE (MIBK)	0.160994	0.16101460		0.0128		3.75	3.750	100	70 - 130
ACETONE	0.438936	0.36066140		17.80		3.75	3.081	82.20	70 - 130
BENZENE	0.225650	0.21764080		3.55		3.75	3.617	96.50	70 - 130
BENZYL CHLORIDE	0.219417	0.22535760		2.71		3.75	3.852	103	70 - 130
BROMODICHLOROMETHANE	0.172982	0.16457970		4.86		3.75	3.568	95.10	70 - 130
BROMOFORM	0.222477	0.25514410		14.70		3.75	4.301	115	70 - 130
BROMOMETHANE	0.231613	0.21436440		7.45		3.75	3.471	92.60	70 - 130
CARBON DISULFIDE	1.086114	0.97704990		10		3.75	3.373	89.90	70 - 130
CARBON TETRACHLORIDE	0.634090	0.59109710		6.78		3.75	3.496	93.20	70 - 130
CHLOROBENZENE	0.213731	0.22341260		4.53		3.75	3.920	105	70 - 130
CHLORODIBROMOMETHANE	0.202168	0.21374160		5.72		3.75	3.965	106	70 - 130
CHLOROETHANE	0.100712	0.08150046		19.10		3.75	3.035	80.90	70 - 130
CHLOROFORM	0.585410	0.535386		8.55		3.75	3.430	91.50	70 - 130
CHLOROMETHANE	0.243971	0.219883		9.87		3.75	3.380	90.10	70 - 130
CIS-1,2-DICHLOROETHENE	0.416728	0.36522440		12.40		3.75	3.287	87.70	70 - 130
CIS-1,3-DICHLOROPROPENE	0.148616	0.13485750		9.26		3.75	3.403	90.70	70 - 130
DICHLORODIFLUOROMETHANE	0.678668	0.65567830		3.39		3.75	3.623	96.60	70 - 130
ETHYLBENZENE	0.382986	0.39178290		2.30		3.75	3.836	102	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.174240	0.20928630		20.10		3.75	4.504	120	70 - 130
M&P-XYLENE	0.300144	0.30411480		1.32		7.50	7.599	101	70 - 130
METHYL BUTYL KETONE	0.148178	0.15447340		4.25		3.75	3.909	104	70 - 130
METHYL TERT-BUTYL ETHER	0.692781	0.61835360		10.70		3.75	3.347	89.30	70 - 130
METHYLENE CHLORIDE	0.302588	0.26116490		13.70		3.75	3.237	86.30	70 - 130
NAPHTHALENE	0.212862	0.22716090		6.72		3.75	4.002	107	70 - 130
O-XYLENE	0.316575	0.31054460		1.90		3.75	3.679	98.10	70 - 130
STYRENE	0.253392	0.26306350		3.82		3.75	3.893	104	70 - 130
TETRACHLOROETHENE	0.144296	0.15951720		10.50		3.75	4.146	111	70 - 130
TOLUENE	0.289180	0.27502140		4.90		3.75	3.566	95.10	70 - 130

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570581	**Calibration (begin) date/time:**	11/30/22 18:49
Instrument ID:	AIRMS4	**Calibration (end) date/time:**	12/01/22 01:11
Lab File ID:	1229_01	**Analysis date/time:**	12/29/22 10:36
Analytical Method:	TO-15	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*ppbv*	*ppbv*	*% Rec.*	*%*
TRANS-1,2-DICHLOROETHENE	0.437681	0.38772950		11.40		3.75	3.322	88.60	70 - 130
TRANS-1,3-DICHLOROPROPENE	0.130125	0.12240560		5.93		3.75	3.528	94.10	70 - 130
TRICHLOROETHENE	0.110324	0.10891050		1.28		3.75	3.702	98.70	70 - 130
TRICHLOROFLUOROMETHANE	0.568119	0.58478430		2.93		3.75	3.860	103	70 - 130
VINYL ACETATE	0.643468	0.53012310		17.60		3.75	3.089	82.40	70 - 130
VINYL CHLORIDE	0.238124	0.20997640		11.80		3.75	3.307	88.20	70 - 130
1,4-BROMOFLUOROBENZENE	0.682503	0.606930		11.10		4	3.557	88.90	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 11:13:26 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	79247	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	284231	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	243117	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	147555	3.5570832	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 88.93%			
Target Compounds						Qvalue
2) Propene	4.176	41	13422	2.9405105	ppbv	98
3) BUTANE	4.572	43	20005	2.7510284	ppbv	98
4) 1,1-DIFLUOROETHANE	4.183	51	20761	3.3224413	ppbv	96
5) Dichlorodifluoromethane	4.219	85	48713	3.6229702	ppbv	99
6) CHLORODIFLUOROMETHANE	4.237	51	26078	3.4410251	ppbv	100
7) 1,2-Dichlorotetrafluor...	4.371	85	52791	3.5608277	ppbv	95
8) Chloromethane	4.481	50	16336	3.3797495	ppbv	100
9) Vinyl Chloride	4.602	62	15600	3.3067268	ppbv	97
10) 1,3-Butadiene	4.627	39	9608	3.0667799	ppbv	98
11) Bromomethane	4.986	94	15926	3.4707276	ppbv	98
12) Chloroethane	5.071	64	6055	3.0346480	ppbv	100
13) ISOPENTANE	5.083	43	13182	2.6244303	ppbv	91
14) Vinyl Bromide	5.253	106	16533	3.5641887	ppbv	98
15) Trichlorofluoromethane	5.278	101	43446	3.8600000	ppbv	100
16) PENTANE	5.314	43	25336	2.4522958	ppbv	99
17) Ethanol	5.399	45	7590	2.9835236	ppbv	98
18) ACROLEIN	5.710	56	7885	3.3389354	ppbv	97
19) 1,1,2-Trichlorotrifluo...	5.691	101	45189	3.7109930	ppbv	94
20) 1,1-Dichloroethene	5.776	61	29926	3.4326572	ppbv	95
21) Acetone	5.819	43	26795	3.0812724	ppbv	99
22) BROMOETHANE	5.959	108	18453	3.5731983	ppbv	99
23) 2-Propanol	5.837	45	29950	3.1190817	ppbv	97
24) Carbon Disulfide	6.050	76	72589	3.3734369	ppbv	98
25) Allyl Chloride	6.093	41	24410m	3.8360014	ppbv	
26) METHYL ACETATE	6.044	43	31346	3.2444523	ppbv #	98
27) ACETONITRILE	6.111	41	85767	15.9600573	ppbv #	90
28) Methylene Chloride	6.202	49	19403	3.2366427	ppbv	95
29) TERT-BUTYL ALCOHOL	6.172	59	36411	3.6018851	ppbv #	1
30) Methyl Tert-Butyl Ether	6.336	73	45940	3.3471246	ppbv	99
31) Trans-1,2-Dichloroethene	6.403	61	28806	3.3220193	ppbv	96
32) ACRYLONITRILE	6.433	53	14674	3.2884021	ppbv	99
33) n-Hexane	6.525	57	25591	3.1684359	ppbv	99
34) 1,1-Dichloroethane	6.786	63	35811	3.3504835	ppbv	99
35) Vinyl Acetate	6.719	43	39385	3.0894498	ppbv	99
36) DI-ISOPROPYL ETHER	6.671	45	52016	3.1785122	ppbv	96
37) ETHYL TERT-BUTYL ETHER	6.975	59	57241	3.3004739	ppbv	98
38) ETHYL ACETATE	7.194	45	5719	3.1690008	ppbv	99
39) 2-Butanone (MEK)	7.236	72	8836	3.3232029	ppbv	94
40) cis-1,2-Dichloroethene	7.279	61	27134	3.2865326	ppbv	94
41) Tetrahydrofuran	7.510	42	17067	3.0795677	ppbv	97
42) Chloroform	7.504	83	39776	3.4295560	ppbv	100
43) Cyclohexane	7.723	84	21109	3.2637547	ppbv	92
44) 1,1,1-Trichloroethane	7.705	97	40250	3.4155807	ppbv	98
45) Carbon Tetrachloride	7.833	117	43915	3.4957408	ppbv	100
46) 2,2,4-Trimethylpentane	7.942	57	83327	3.1344073	ppbv	99
48) Benzene	8.033	78	57994	3.6169046	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 11:13:26 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

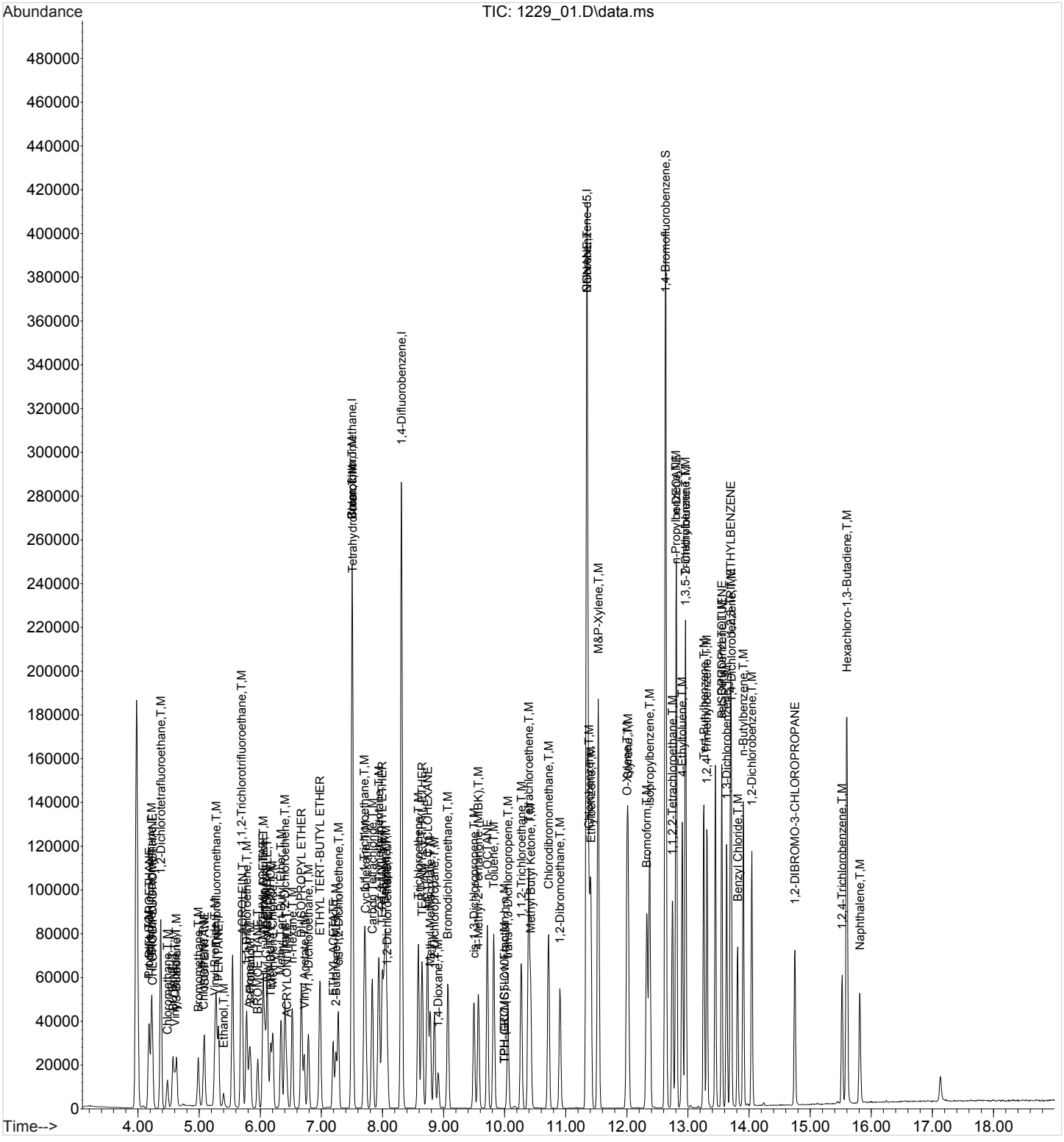
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) TERT-AMYL METHYL ETHER	7.997	73	58616	3.7143783 ppbv	98
50) 1,2-Dichloroethane	8.076	62	21628	3.6408021 ppbv	97
51) Heptane	8.058	43	28615	3.2523140 ppbv	98
52) Trichloroethene	8.587	95	29021	3.7019429 ppbv	94
53) TERT-AMYL ETHYL ETHER	8.648	73	18474	3.4636448 ppbv	97
54) METHYL CYCLOHEXANE	8.739	83	36936	3.4849726 ppbv	95
55) 1,2-Dichloropropane	8.849	63	23520	3.5320982 ppbv	96
56) Methyl Methacrylate	8.782	41	24096	3.4083636 ppbv	93
57) 1,4-Dioxane	8.909	88	14279	4.2454938 ppbv	96
58) Bromodichloromethane	9.068	83	43855	3.5678481 ppbv	99
59) cis-1,3-Dichloropropene	9.500	75	35935	3.4028267 ppbv	95
60) 4-Methyl-2-Pentanone (...	9.566	43	42905	3.7504814 ppbv	99
61) n-OCTANE	9.719	43	44948	3.2480514 ppbv	97
62) Toluene	9.822	91	73284	3.5663997 ppbv	99
63) trans-1,3-Dichloropropene	10.053	75	32617	3.5275426 ppbv	96
64) 1,1,2-Trichloroethane	10.272	97	28732	3.7360352 ppbv	96
65) Tetrachloroethene	10.394	166	42506	4.1455675 ppbv	94
66) Methyl Butyl Ketone	10.424	43	41162	3.9093192 ppbv	99
67) Chlorodibromomethane	10.716	129	56955	3.9646813 ppbv	99
68) 1,2-Dibromoethane	10.905	107	47402	3.8196332 ppbv	100
69) Chlorobenzene	11.379	112	59532	3.9198616 ppbv	92
70) NONANE	11.349	43	46685	3.1871755 ppbv	99
72) Ethylbenzene	11.410	91	89296	3.8361311 ppbv	99
73) M&P-Xylene	11.531	91	138629	7.5992298 ppbv	97
74) O-Xylene	12.000	91	70780	3.6785699 ppbv	97
77) Styrene	12.018	104	59958	3.8931329 ppbv	95
78) Bromoform	12.322	173	58153	4.3006320 ppbv	99
79) Isopropylbenzene	12.371	105	100853	3.8632829 ppbv	99
80) n-DECANE	12.809	43	42475	3.4853562 ppbv	96
81) 1,1,2,2-Tetrachloroethane	12.742	83	58974	3.7927585 ppbv	99
82) n-Propylbenzene	12.803	91	115748	3.9316624 ppbv	98
83) 4-Ethyltoluene	12.906	105	91536	3.7863137 ppbv	99
84) 2-Chlorotoluene	12.961	126	24777	4.0073638 ppbv	87
86) 1,3,5-Trimethylbenzene	12.955	105	74714	3.7509779 ppbv	97
87) Tert-Butylbenzene	13.259	119	71309	3.8701539 ppbv	96
88) 1,2,4-Trimethylbenzene	13.308	105	71347	3.6691103 ppbv	97
89) sec-Butylbenzene	13.551	134	21675	3.8502713 ppbv	96
90) 1,3-Dichlorobenzene	13.630	146	52799	4.3932352 ppbv	94
91) P-ISOPROPYLTOLUENE	13.551	119	87178	3.8549778 ppbv	99
92) 1,4-Dichlorobenzene	13.709	146	51319	4.5870309 ppbv	95
93) 1,2,3-TRIMETHYLBENZENE	13.697	105	72494	3.8326770 ppbv	98
94) Benzyl Chloride	13.813	91	51364	3.8515270 ppbv	96
95) n-Butylbenzene	13.904	91	80851	3.7801044 ppbv	98
96) 1,2-Dichlorobenzene	14.044	146	51305	4.3207799 ppbv	99
97) 1,2-DIBROMO-3-CHLOROPR...	14.750	157	24586	4.2751409 ppbv	93
98) 1,2,4-Trichlorobenzene	15.522	180	24140	4.7025649 ppbv	97
99) Hexachloro-1,3-Butadiene	15.601	225	47701	4.5042617 ppbv	97
100) Naphthalene	15.814	128	51775	4.0019110 ppbv	98
101) TPH (GC/MS) Low Fraction	10.000	TIC	7189213m	198.9678640 ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	8399101m	275.4383356 ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 11:13:26 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

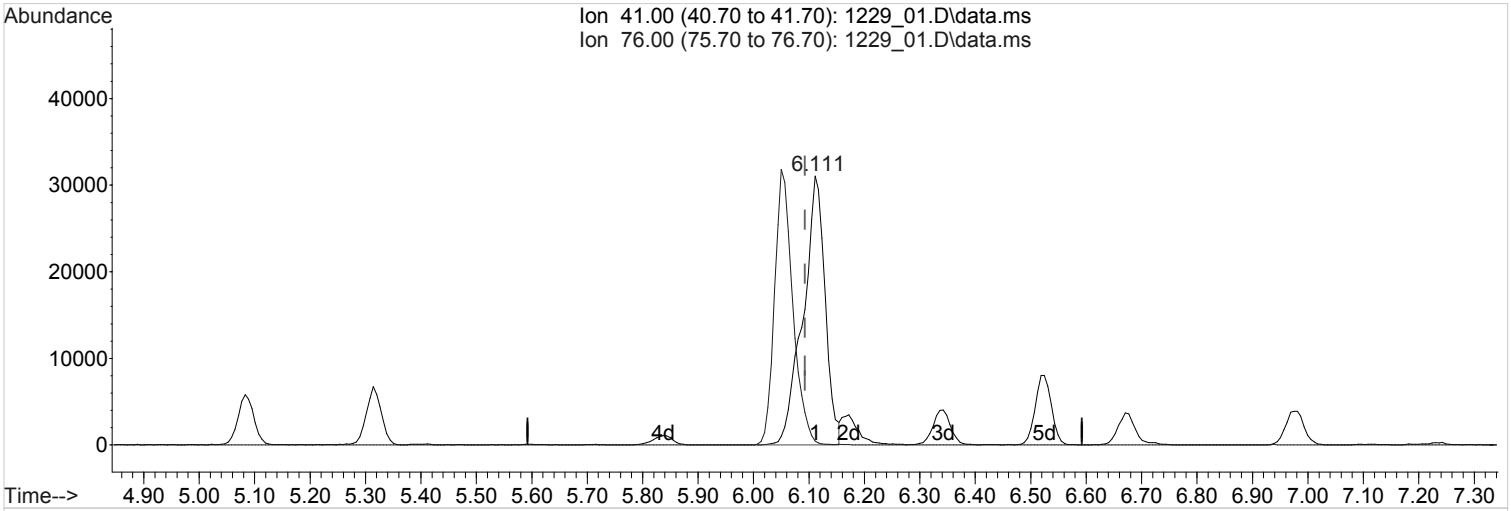


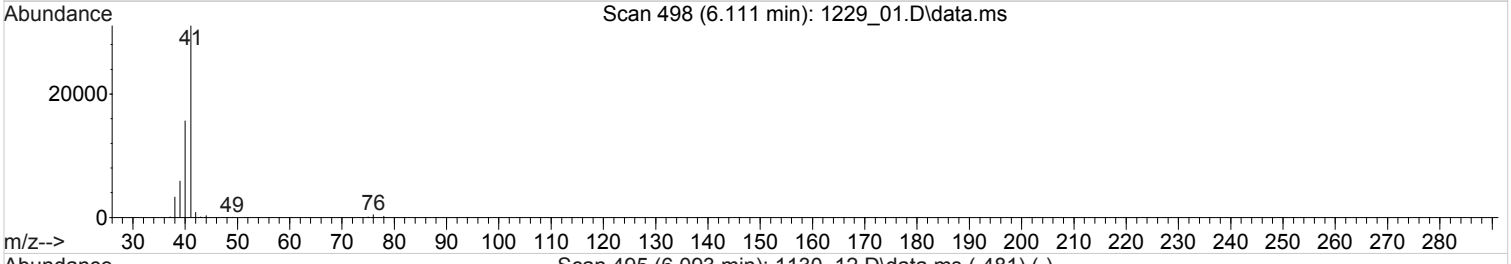
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	307 of 500

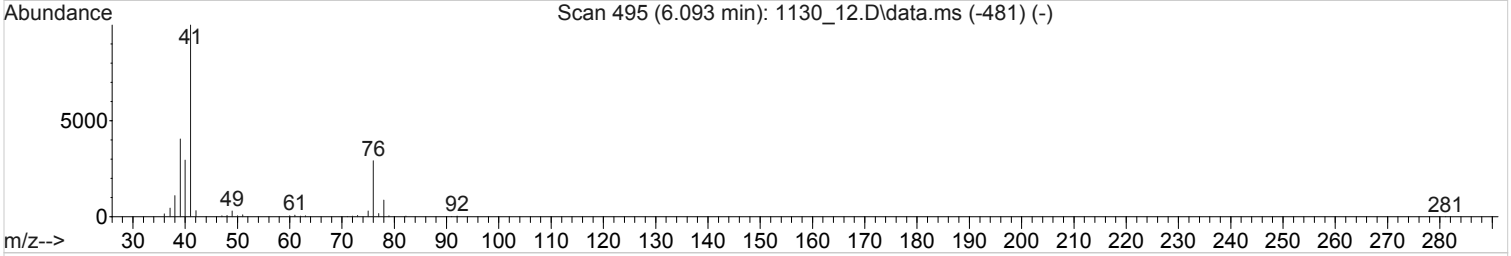
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 11:12:51 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_01.D\data.ms

(25) Allyl Chloride (T,M)

6.111min (+0.018) 13.4781782 ppbv

Qvalue = 1

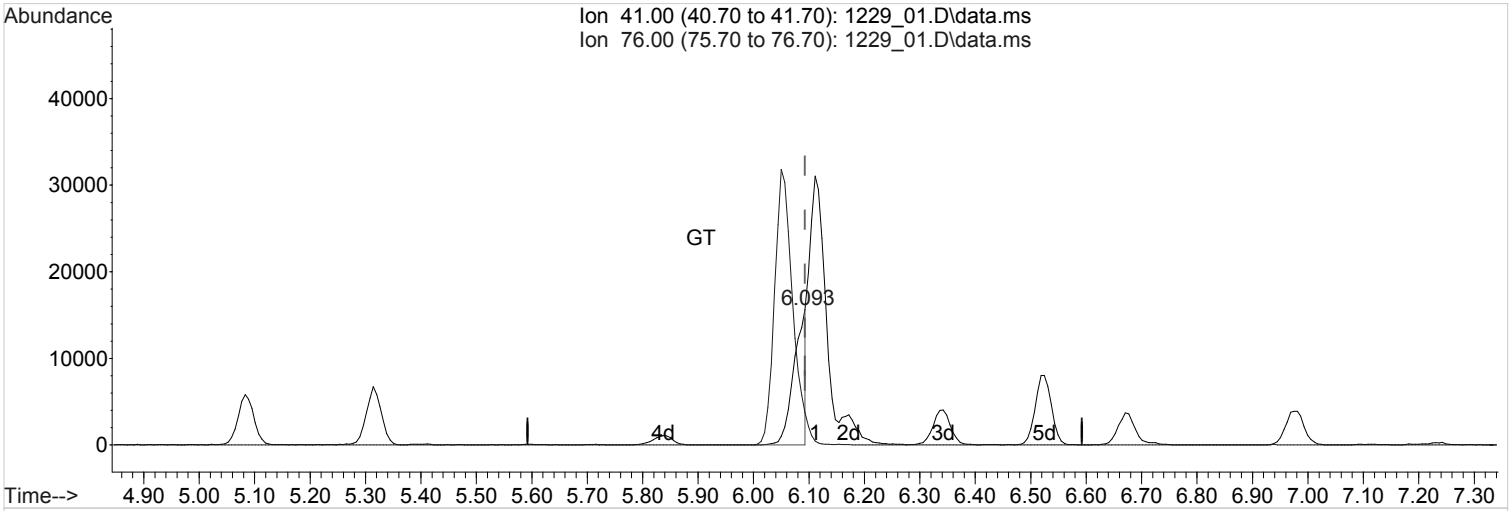
response 85767

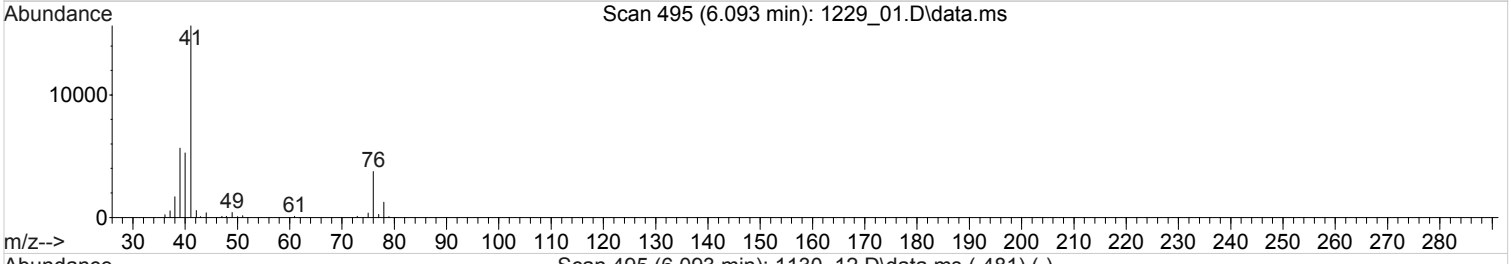
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	84.64#
0.00	0.00	0.00
0.00	0.00	0.00

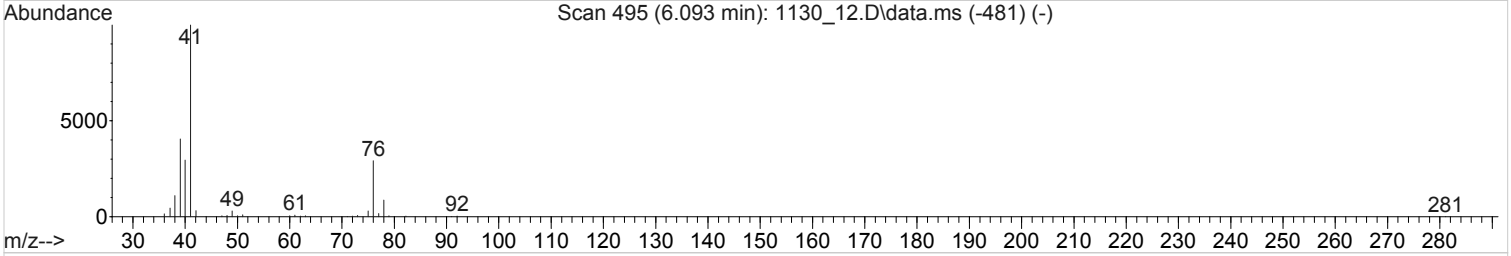
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_01.D
Acq On : 29 Dec 2022 10:36 am
Operator :
Sample : ICV AMS 3.75 ppbv
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 11:12:51 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_01.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 3.8360014 ppbv m

response 24410

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	297.37
0.00	0.00	0.00
0.00	0.00	0.00

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570581	**Calibration (begin) date/time:**	11/30/22 18:49
Instrument ID:	AIRMS4	**Calibration (end) date/time:**	12/01/22 01:11
Lab File ID:	1229_24	**Analysis date/time:**	12/30/22 03:22
Analytical Method:	TO-15	**Sample ID:**	CCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	0.594810	0.56746180		4.60		3.75	3.578	95.40	70 - 130
1,1,2,2-TETRACHLOROETHANE	0.255829	0.25518260		0.2530		3.75	3.741	99.80	70 - 130
1,1,2-TRICHLOROETHANE	0.108229	0.11105210		2.61		3.75	3.848	103	70 - 130
1,1,2-TRICHLOROTRIFLUOROETHANE	0.614638	0.63024160		2.54		3.75	3.845	103	70 - 130
1,1-DICHLOROETHANE	0.539493	0.50182130		6.98		3.75	3.488	93	70 - 130
1,1-DICHLOROETHENE	0.440043	0.410764		6.65		3.75	3.500	93.30	70 - 130
1,2,4-TRICHLOROBENZENE	0.084459	0.09022067		6.82		3.75	4.006	107	70 - 130
1,2,4-TRIMETHYLBENZENE	0.319933	0.31669420		1.01		3.75	3.712	99	70 - 130
1,2-DIBROMOETHANE	0.174648	0.18751590		7.37		3.75	4.026	107	70 - 130
1,2-DICHLOROBENZENE	0.195363	0.22427850		14.80		3.75	4.305	115	70 - 130
1,2-DICHLOROETHANE	0.0836	0.08515089		1.86		3.75	3.820	102	70 - 130
1,2-DICHLOROPROPANE	0.093712	0.09483973		1.20		3.75	3.795	101	70 - 130
1,3,5-TRIMETHYLBENZENE	0.327719	0.32166840		1.85		3.75	3.681	98.20	70 - 130
1,3-BUTADIENE	0.158135	0.134027		15.20		3.75	3.178	84.70	70 - 130
1,3-DICHLOROBENZENE	0.197736	0.22238460		12.50		3.75	4.217	112	70 - 130
1,4-DICHLOROBENZENE	0.184073	0.20706950		12.50		3.75	4.218	112	70 - 130
2-BUTANONE (MEK)	0.134207	0.12226750		8.90		3.75	3.416	91.10	70 - 130
4-ETHYLTOLUENE	0.397759	0.40011070		0.5910		3.75	3.772	101	70 - 130
4-METHYL-2-PENTANONE (MIBK)	0.160994	0.17253510		7.17		3.75	4.019	107	70 - 130
ACETONE	0.438936	0.37324280		15		3.75	3.189	85	70 - 130
BENZENE	0.225650	0.23232670		2.96		3.75	3.861	103	70 - 130
BENZYL CHLORIDE	0.219417	0.22042690		0.46		3.75	3.767	100	70 - 130
BROMODICHLOROMETHANE	0.172982	0.178020		2.91		3.75	3.859	103	70 - 130
BROMOFORM	0.222477	0.24982960		12.30		3.75	4.211	112	70 - 130
BROMOMETHANE	0.231613	0.24360050		5.18		3.75	3.944	105	70 - 130
CARBON DISULFIDE	1.086114	0.98089980		9.69		3.75	3.387	90.30	70 - 130
CARBON TETRACHLORIDE	0.634090	0.61760510		2.60		3.75	3.653	97.40	70 - 130
CHLOROBENZENE	0.213731	0.23183410		8.47		3.75	4.068	108	70 - 130
CHLORODIBROMOMETHANE	0.202168	0.22395980		10.80		3.75	4.154	111	70 - 130
CHLOROETHANE	0.100712	0.08858460		12		3.75	3.298	87.90	70 - 130
CHLOROFORM	0.585410	0.56622550		3.28		3.75	3.627	96.70	70 - 130
CHLOROMETHANE	0.243971	0.223316		8.47		3.75	3.433	91.50	70 - 130
CIS-1,2-DICHLOROETHENE	0.416728	0.38064640		8.66		3.75	3.425	91.30	70 - 130
CIS-1,3-DICHLOROPROPENE	0.148616	0.14423220		2.95		3.75	3.639	97	70 - 130
DICHLORODIFLUOROMETHANE	0.678668	0.67270820		0.8780		3.75	3.717	99.10	70 - 130
ETHYLBENZENE	0.382986	0.39299160		2.61		3.75	3.848	103	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.174240	0.20120990		15.50		3.75	4.330	115	70 - 130
M&P-XYLENE	0.300144	0.30399620		1.28		7.50	7.596	101	70 - 130
METHYL BUTYL KETONE	0.148178	0.16541220		11.60		3.75	4.186	112	70 - 130
METHYL TERT-BUTYL ETHER	0.692781	0.63259930		8.69		3.75	3.424	91.30	70 - 130
METHYLENE CHLORIDE	0.302588	0.27923850		7.72		3.75	3.461	92.30	70 - 130
NAPHTHALENE	0.212862	0.20760340		2.47		3.75	3.657	97.50	70 - 130
O-XYLENE	0.316575	0.30174410		4.68		3.75	3.574	95.30	70 - 130
STYRENE	0.253392	0.260960		2.99		3.75	3.862	103	70 - 130
TETRACHLOROETHENE	0.144296	0.16090030		11.50		3.75	4.182	112	70 - 130
TOLUENE	0.289180	0.29173240		0.8830		3.75	3.783	101	70 - 130

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570581	**Calibration (begin) date/time:**	11/30/22 18:49
Instrument ID:	AIRMS4	**Calibration (end) date/time:**	12/01/22 01:11
Lab File ID:	1229_24	**Analysis date/time:**	12/30/22 03:22
Analytical Method:	TO-15	**Sample ID:**	CCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*ppbv*	*ppbv*	*% Rec.*	*%*
TRANS-1,2-DICHLOROETHENE	0.437681	0.40696880		7.02		3.75	3.487	93	70 - 130
TRANS-1,3-DICHLOROPROPENE	0.130125	0.12726040		2.20		3.75	3.667	97.80	70 - 130
TRICHLOROETHENE	0.110324	0.11310070		2.52		3.75	3.844	103	70 - 130
TRICHLOROFLUOROMETHANE	0.568119	0.62073920		9.26		3.75	4.097	109	70 - 130
VINYL ACETATE	0.643468	0.57456360		10.70		3.75	3.348	89.30	70 - 130
VINYL CHLORIDE	0.238124	0.21973640		7.72		3.75	3.460	92.30	70 - 130
1,4-BROMOFLUOROBENZENE	0.682503	0.59369040		13		4	3.479	87	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 07:42:09 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.504	130	74198	4.0000000	ppbv		0.00
47) 1,4-Difluorobenzene	8.307	114	259818	4.0000000	ppbv		0.00
71) Chlorobenzene-d5	11.343	117	233738	4.0000000	ppbv		0.00
System Monitoring Compounds							
85) 1,4-Bromofluorobenzene	12.632	95	138768	3.4794887	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 86.99%				
Target Compounds							Qvalue
2) Propene	4.182	41	12608	2.9501380	ppbv		99
3) BUTANE	4.572	43	19857	2.9164919	ppbv		99
4) 1,1-DIFLUOROETHANE	4.182	51	20019	3.4217010	ppbv		96
5) Dichlorodifluoromethane	4.225	85	46794	3.7170696	ppbv		99
6) CHLORODIFLUOROMETHANE	4.237	51	25644	3.6140151	ppbv		99
7) 1,2-Dichlorotetrafluor...	4.371	85	50873	3.6649584	ppbv		95
8) Chloromethane	4.480	50	15534	3.4325172	ppbv		100
9) Vinyl Chloride	4.602	62	15285	3.4604278	ppbv		100
10) 1,3-Butadiene	4.633	39	9323	3.1783076	ppbv		97
11) Bromomethane	4.985	94	16945	3.9440828	ppbv		96
12) Chloroethane	5.071	64	6162	3.2984241	ppbv		99
13) ISOPENTANE	5.089	43	13417	2.8529869	ppbv	#	92
14) Vinyl Bromide	5.259	106	16864	3.8829361	ppbv		99
15) Trichlorofluoromethane	5.283	101	43179	4.0973279	ppbv		100
16) PENTANE	5.320	43	24853	2.5692375	ppbv		100
17) Ethanol	5.399	45	7811	3.2793288	ppbv		98
18) ACROLEIN	5.709	56	7302	3.3024693	ppbv		98
19) 1,1,2-Trichlorotrifluo...	5.697	101	43840	3.8451969	ppbv		96
20) 1,1-Dichloroethene	5.776	61	28573	3.5004851	ppbv		96
21) Acetone	5.819	43	25963	3.1887600	ppbv		99
22) BROMOETHANE	5.959	108	18076	3.7383770	ppbv		100
23) 2-Propanol	5.837	45	28716	3.1940705	ppbv		98
24) Carbon Disulfide	6.056	76	68232	3.3867295	ppbv		97
25) Allyl Chloride	6.093	41	23255m	3.9031743	ppbv		
26) METHYL ACETATE	6.044	43	30991	3.4259853	ppbv	#	99
27) ACETONITRILE	6.111	41	61083m	12.1401825	ppbv		
28) Methylene Chloride	6.202	49	19424	3.4606300	ppbv		97
29) TERT-BUTYL ALCOHOL	6.166	59	36035	3.8072589	ppbv		93
30) Methyl Tert-Butyl Ether	6.342	73	44004	3.4242359	ppbv		98
31) Trans-1,2-Dichloroethene	6.403	61	28309	3.4868587	ppbv		98
32) ACRYLONITRILE	6.433	53	14759	3.5325146	ppbv		98
33) n-Hexane	6.525	57	25011	3.3073439	ppbv		99
34) 1,1-Dichloroethane	6.786	63	34907	3.4881423	ppbv		100
35) Vinyl Acetate	6.719	43	39967	3.3484397	ppbv		100
36) DI-ISOPROPYL ETHER	6.671	45	51285	3.3470941	ppbv		95
37) ETHYL TERT-BUTYL ETHER	6.975	59	55662	3.4278241	ppbv		99
38) ETHYL ACETATE	7.194	45	5614	3.3225024	ppbv		88
39) 2-Butanone (MEK)	7.236	72	8505	3.4163795	ppbv		96
40) cis-1,2-Dichloroethene	7.279	61	26478	3.4253104	ppbv		94
41) Tetrahydrofuran	7.510	42	16851	3.2474979	ppbv		97
42) Chloroform	7.504	83	39387	3.6271067	ppbv		100
43) Cyclohexane	7.723	84	20313	3.3543977	ppbv		95
44) 1,1,1-Trichloroethane	7.705	97	39473	3.5775807	ppbv		99
45) Carbon Tetrachloride	7.832	117	42961	3.6525094	ppbv		99
46) 2,2,4-Trimethylpentane	7.942	57	80536	3.2355669	ppbv		99
48) Benzene	8.033	78	56590	3.8609652	ppbv		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 07:42:09 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

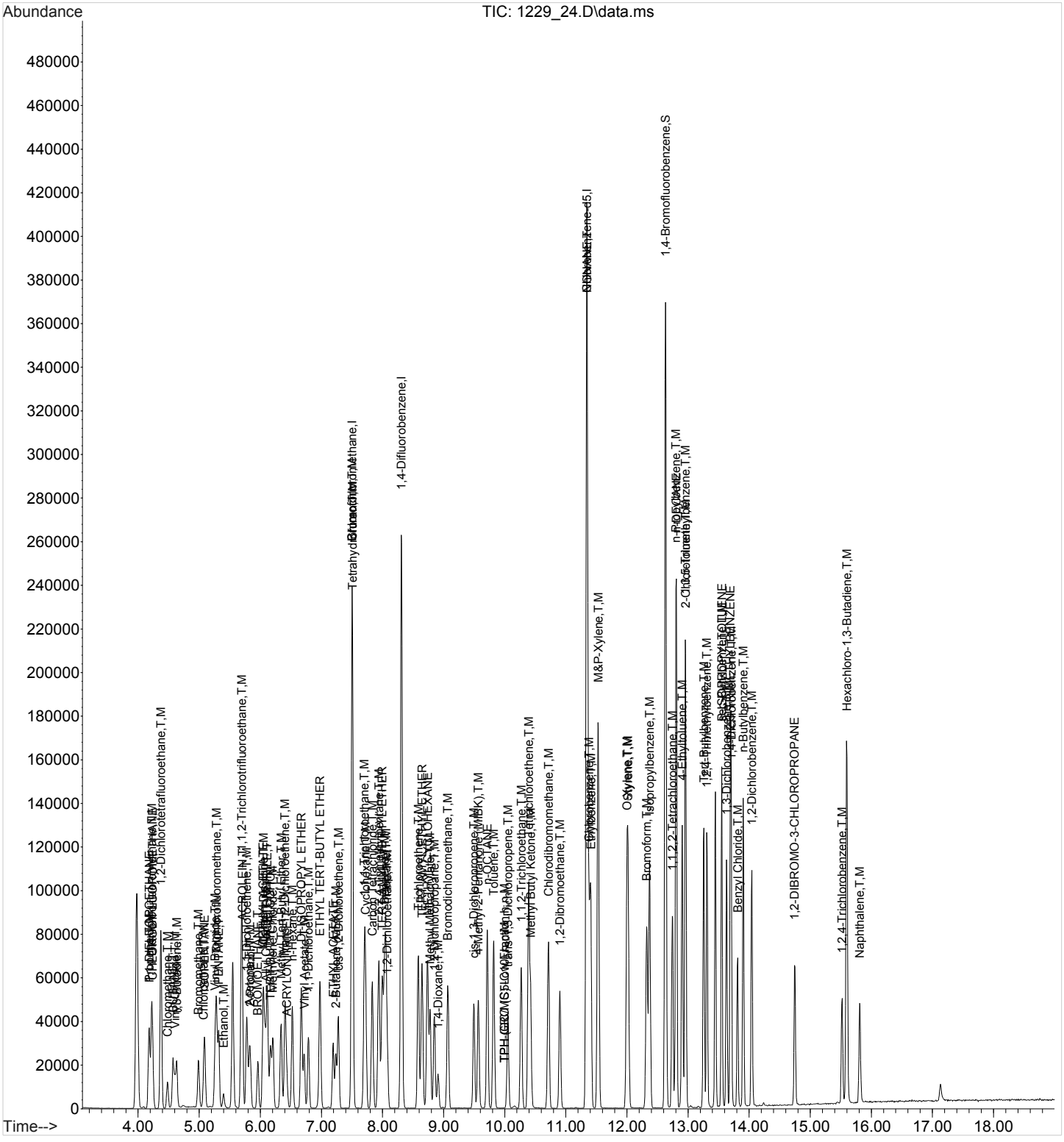
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) TERT-AMYL METHYL ETHER	7.997	73	55526	3.8491830	ppbv	98
50) 1,2-Dichloroethane	8.076	62	20741	3.8195536	ppbv	95
51) Heptane	8.058	43	28757	3.5755636	ppbv	100
52) Trichloroethene	8.587	95	27549	3.8443719	ppbv	93
53) TERT-AMYL ETHYL ETHER	8.648	73	18036	3.6992599	ppbv	97
54) METHYL CYCLOHEXANE	8.739	83	35303	3.6438738	ppbv	97
55) 1,2-Dichloropropane	8.848	63	23101	3.7951456	ppbv	96
56) Methyl Methacrylate	8.775	41	23319	3.6083868	ppbv	89
57) 1,4-Dioxane	8.909	88	14026	4.5621175	ppbv	95
58) Bromodichloromethane	9.067	83	43362	3.8592130	ppbv	98
59) cis-1,3-Dichloropropene	9.493	75	35132	3.6393788	ppbv	96
60) 4-Methyl-2-Pentanone (...	9.566	43	42026	4.0188276	ppbv	98
61) n-OCTANE	9.718	43	44051	3.4823347	ppbv	97
62) Toluene	9.822	91	71060	3.7831038	ppbv	100
63) trans-1,3-Dichloropropene	10.053	75	30998	3.6674495	ppbv	97
64) 1,1,2-Trichloroethane	10.272	97	27050	3.8478185	ppbv	98
65) Tetrachloroethene	10.394	166	39192	4.1815124	ppbv	96
66) Methyl Butyl Ketone	10.424	43	40291	4.1861513	ppbv	99
67) Chlorodibromomethane	10.716	129	54552	4.1542183	ppbv	99
68) 1,2-Dibromoethane	10.905	107	45675	4.0262965	ppbv	99
69) Chlorobenzene	11.379	112	56470	4.0676189	ppbv	95
70) NONANE	11.349	43	46901	3.5027806	ppbv	99
72) Ethylbenzene	11.410	91	86116	3.8479666	ppbv	100
73) M&P-Xylene	11.531	91	133229	7.5962677	ppbv	99
74) O-Xylene	12.000	91	66121	3.5743236	ppbv	98
77) Styrene	12.018	104	57184	3.8620032	ppbv	96
78) Bromoform	12.322	173	54745	4.2110522	ppbv	99
79) Isopropylbenzene	12.371	105	94262	3.7556952	ppbv	99
80) n-DECANE	12.809	43	42322	3.6121516	ppbv	97
81) 1,1,2,2-Tetrachloroethane	12.742	83	55918	3.7405222	ppbv	99
82) n-Propylbenzene	12.803	91	112422	3.9719158	ppbv	98
83) 4-Ethyltoluene	12.906	105	87676	3.7721712	ppbv	98
84) 2-Chlorotoluene	12.961	126	23388	3.9344963	ppbv	89
86) 1,3,5-Trimethylbenzene	12.955	105	70487	3.6807604	ppbv	97
87) Tert-Butylbenzene	13.259	119	65529	3.6991627	ppbv	98
88) 1,2,4-Trimethylbenzene	13.308	105	69397	3.7120323	ppbv	98
89) sec-Butylbenzene	13.551	134	20724	3.8290568	ppbv	98
90) 1,3-Dichlorobenzene	13.630	146	48731	4.2174514	ppbv	95
91) P-ISOPROPYLTOLUENE	13.551	119	84632	3.8925624	ppbv	99
92) 1,4-Dichlorobenzene	13.709	146	45375	4.2184813	ppbv	95
93) 1,2,3-TRIMETHYLBENZENE	13.691	105	67186	3.6945789	ppbv	97
94) Benzyl Chloride	13.813	91	48302	3.7672568	ppbv	97
95) n-Butylbenzene	13.904	91	78597	3.8221733	ppbv	99
96) 1,2-Dichlorobenzene	14.044	146	49146	4.3050345	ppbv	98
97) 1,2-DIBROMO-3-CHLOROPR...	14.743	157	22652	4.0968977	ppbv	93
98) 1,2,4-Trichlorobenzene	15.522	180	19770	4.0058087	ppbv	98
99) Hexachloro-1,3-Butadiene	15.601	225	44091	4.3304406	ppbv	97
100) Naphthalene	15.808	128	45492	3.6573654	ppbv	98
101) TPH (GC/MS) Low Fraction	10.000	TIC	6955949m	200.2368287	ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	8205291m	279.8798004	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

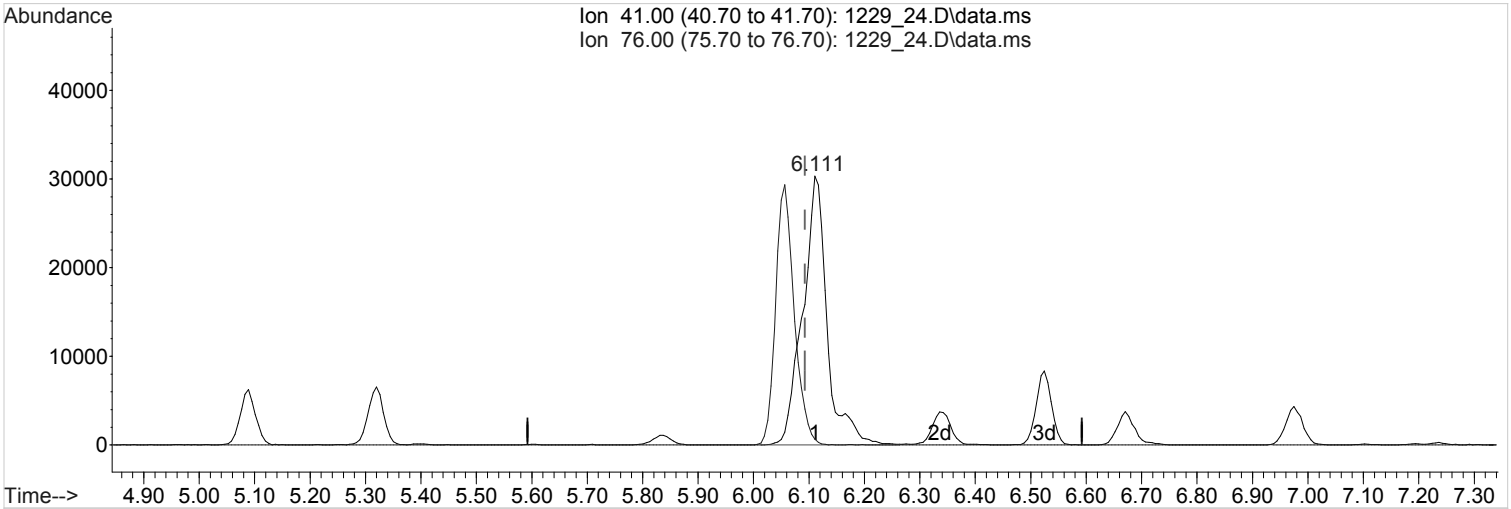
Quant Time: Dec 31 07:42:09 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

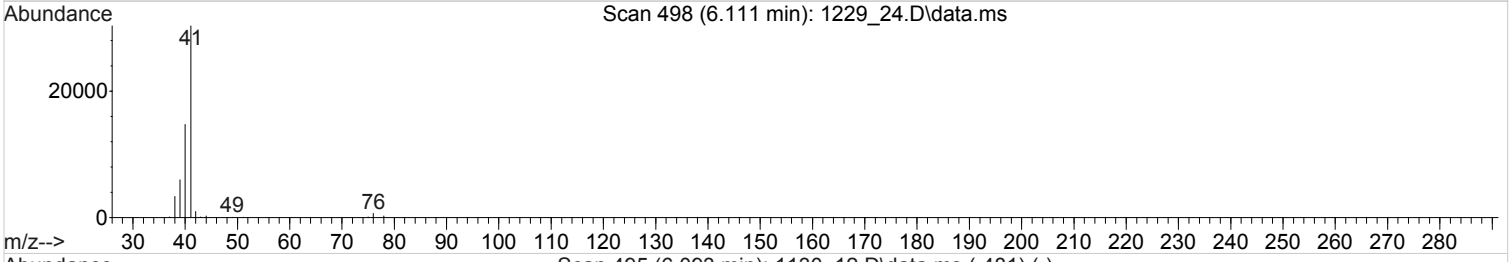


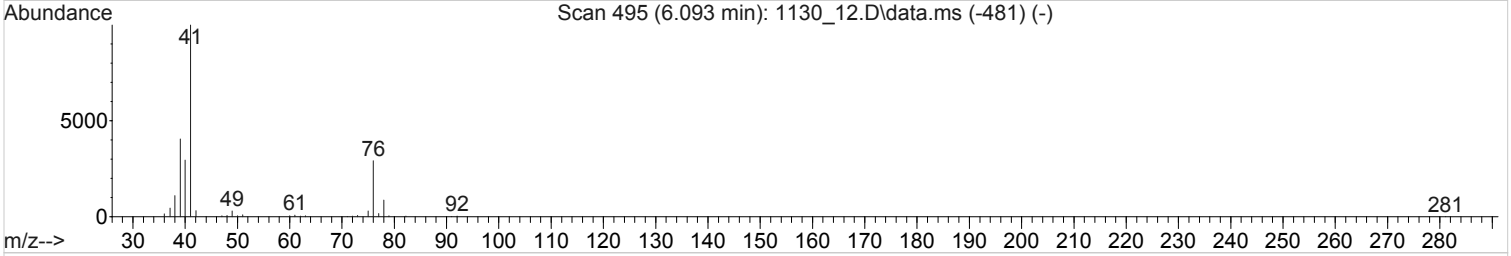
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 07:41:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_24.D\data.ms

(25) Allyl Chloride (T,M)

6.111min (+0.018) 15.5893673 ppbv

Qvalue = 1

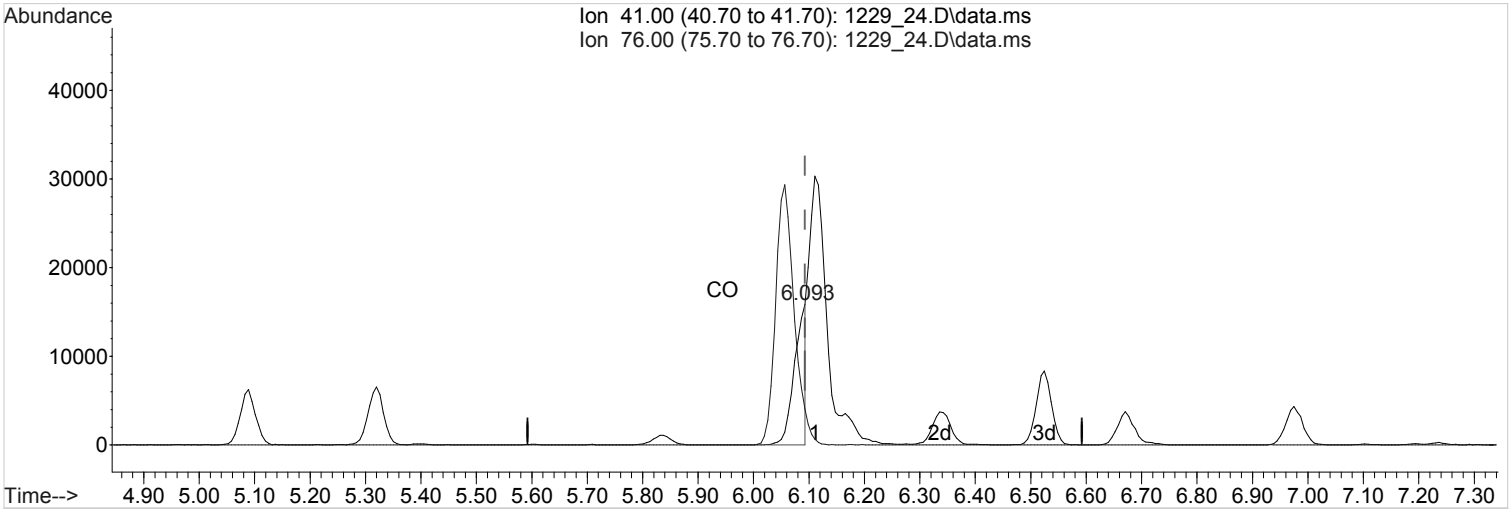
response 92881

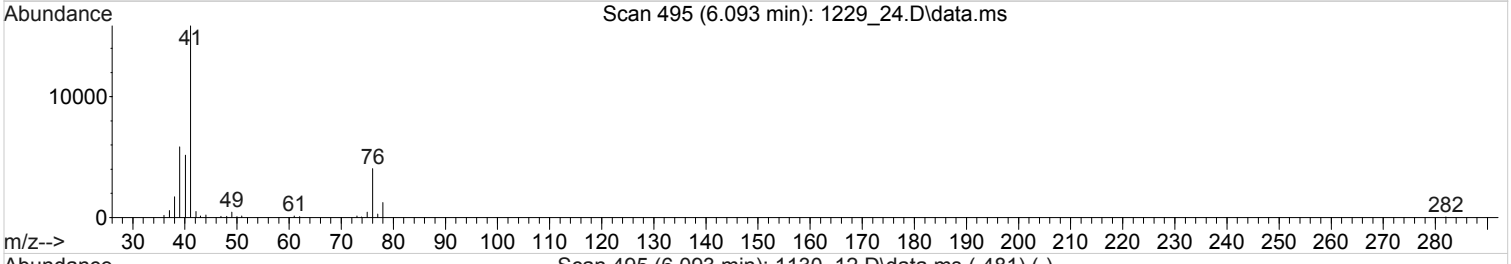
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	73.46#
0.00	0.00	0.00
0.00	0.00	0.00

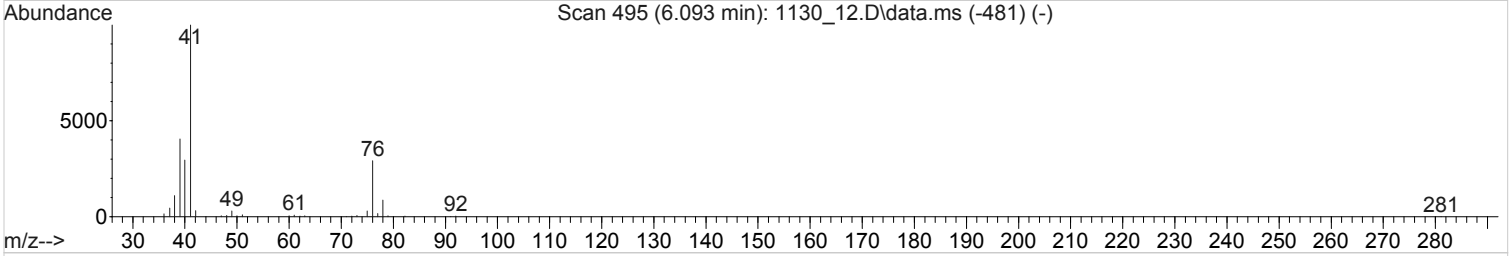
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 07:41:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_24.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (-0.000) 3.9031743 ppbv m

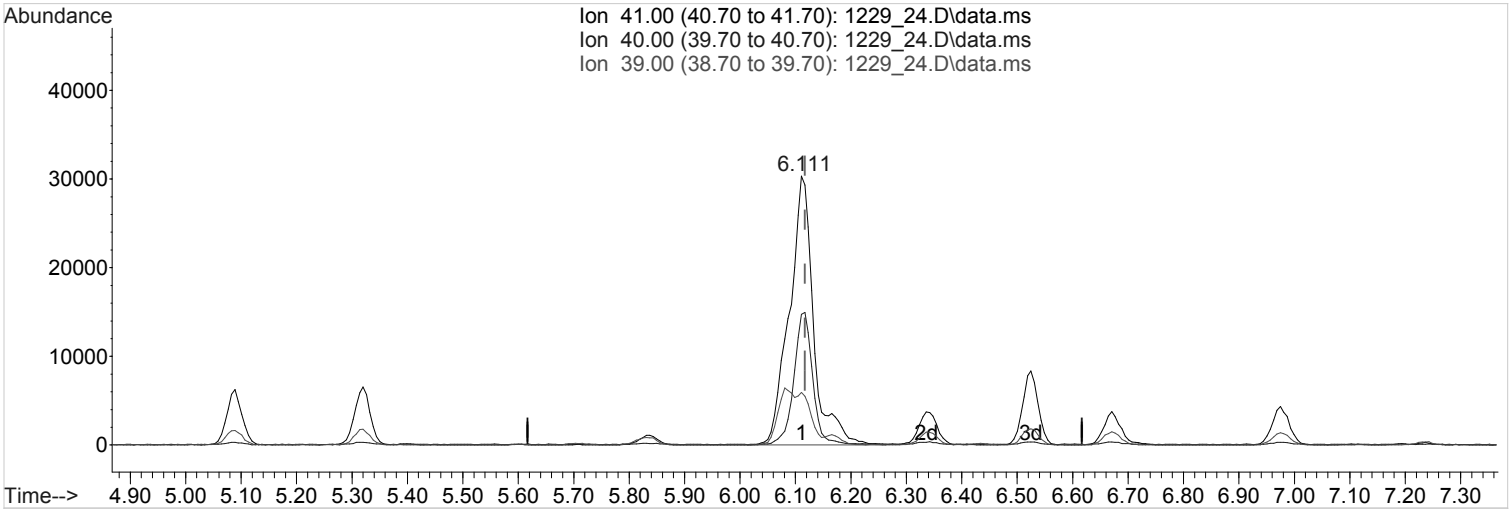
response 23255

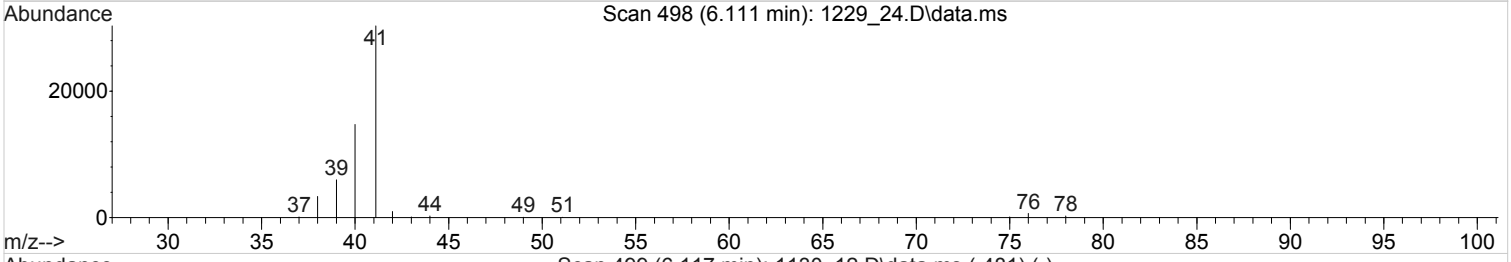
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	293.41
0.00	0.00	0.00
0.00	0.00	0.00

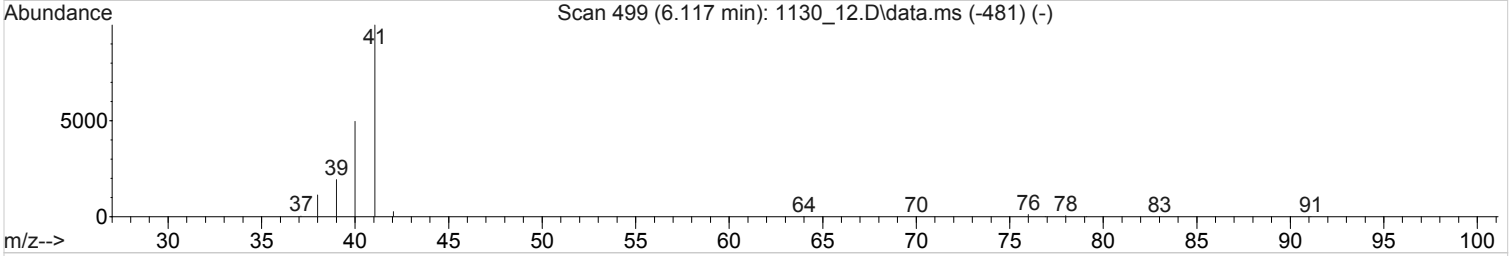
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 07:41:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_24.D\data.ms

(27) ACETONITRILE (T)

6.111min (-0.006) 18.4600019 ppbv

Qvalue = 86

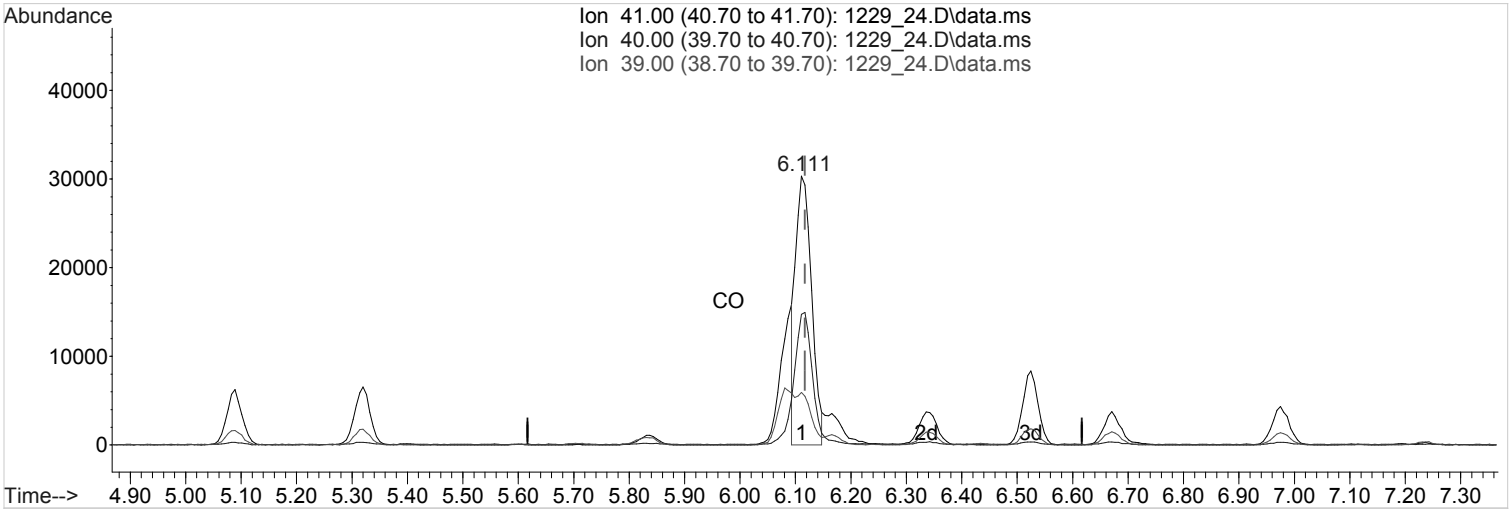
response 92881

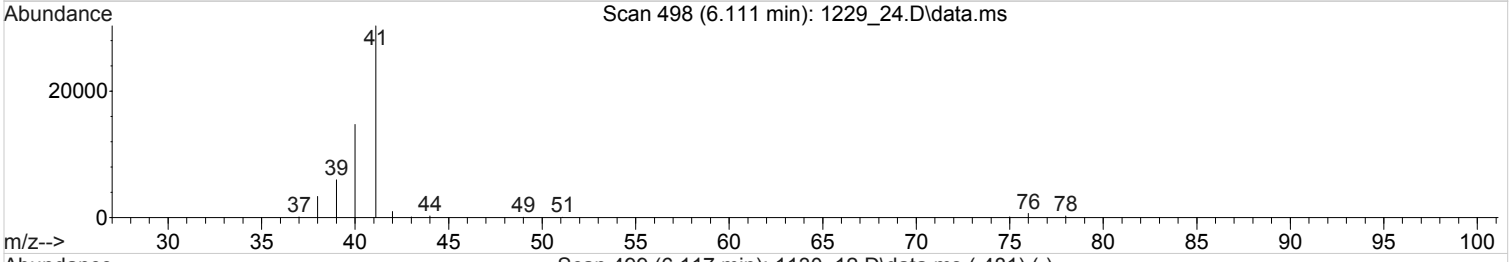
Ion	Exp%	Act%
41.00	100	100
40.00	40.90	37.66
39.00	28.40	14.23#
0.00	0.00	0.00

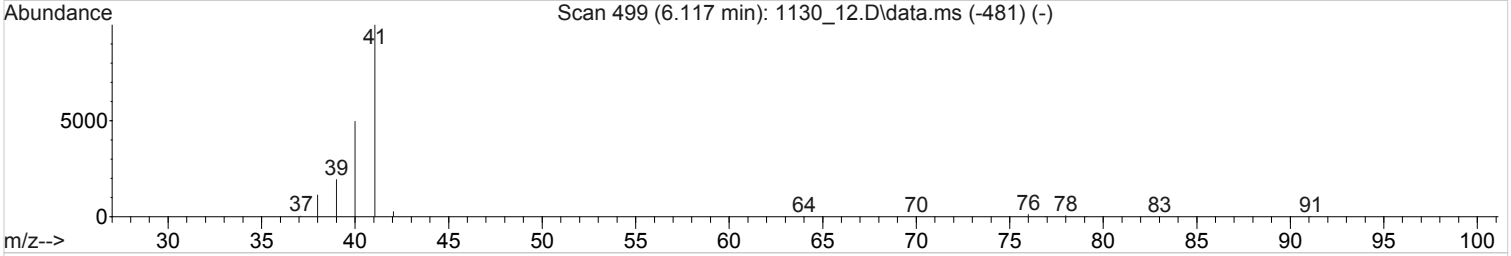
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_24.D
Acq On : 30 Dec 2022 3:22 am
Operator :
Sample : CCV AMS 3.75 ppbv
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 07:41:22 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_24.D\data.ms

(27) ACETONITRILE (T)

6.111min (-0.006) 12.1401825 ppbv m

response 61083

Ion	Exp%	Act%
41.00	100	100
40.00	40.90	57.27#
39.00	28.40	21.63#
0.00	0.00	0.00

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1570581	**Analytical Method:**	TO-15
Instrument ID:	AIRMS4	**Calibration Start Date:**	11/30/22 18:49
		Calibration End Date:	12/01/22 01:11

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	AIRMS41130221130_01606182	1130_01	11/30/22 14:37		
TUNE	AIRMS41130221130_02606182	1130_02	11/30/22 15:19		
CAL	0.19	1130_07	11/30/22 18:49		
CAL	0.31	1130_08	11/30/22 19:29		
CAL	0.63	1130_09	11/30/22 20:09		
CAL	1.25	1130_10	11/30/22 20:50		
CAL	2.5	1130_11	11/30/22 21:31		
CAL	3.75	1130_12	11/30/22 22:14		
CAL	10	1130_13	11/30/22 22:55		
CAL	25	1130_14	11/30/22 23:36		
CAL	50	1130_15	12/01/22 00:21		
CAL	100	1130_16	12/01/22 01:11		
SSCV	AIRMS41130221130_18606182	1130_18	12/01/22 02:34		
ICV	AIRMS41229221229_01606182	1229_01	12/29/22 10:36		
TUNE	AIRMS41229221229_01T606182	1229_01T	12/29/22 10:36		
LCS	R3876561-1	1229_02	12/29/22 11:19	1	WG1980894
LCSD	R3876561-2	1229_03	12/29/22 12:04	1	WG1980894
BLANK	R3876561-3	1229_04	12/29/22 12:46	1	WG1980894
L1570570-01	L1570570-01	1229_05	12/29/22 13:39	1	WG1980894
L1570570-02	L1570570-02	1229_06	12/29/22 14:24	1	WG1980894
L1570570-03	L1570570-03	1229_07	12/29/22 15:08	1	WG1980894
L1570570-04	L1570570-04	1229_08	12/29/22 15:52	1	WG1980894
L1570570-05	L1570570-05	1229_09	12/29/22 16:35	1	WG1980894
L1570570-06	L1570570-06	1229_10	12/29/22 17:19	1	WG1980894
L1570570-07	L1570570-07	1229_11	12/29/22 18:02	1	WG1980894
L1570570-08	L1570570-08	1229_12	12/29/22 18:45	1	WG1980894
L1570570-09	L1570570-09	1229_13	12/29/22 19:31	1	WG1980894
785786-INF_1222	L1570581-01	1229_14	12/29/22 20:13	1	WG1980894
785-VMP-2_1222	L1570581-02	1229_15	12/29/22 20:56	1	WG1980894
785-VMP-2_1222-A	L1570581-03	1229_16	12/29/22 21:38	1	WG1980894
785-VMP-4_1222	L1570581-04	1229_17	12/29/22 22:21	1	WG1980894
785-VMP-5_1222	L1570581-05	1229_18	12/29/22 23:03	1	WG1980894
786-VMP-1_1222	L1570581-06	1229_19	12/29/22 23:46	1	WG1980894
786-VMP-2_1222	L1570581-07	1229_20	12/30/22 00:30	1	WG1980894
786-VMP-3_1222	L1570581-08	1229_21	12/30/22 01:14	1	WG1980894
785-OA-1_1222	L1570581-09	1229_22	12/30/22 01:56	1	WG1980894
CCV	AIRMS41229221229_24606182	1229_24	12/30/22 03:22		

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1570581-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** TO-15

Matrix: Air **Prep Method:** TO-15

Analyte	CAS	MDL	RDL
		ppbv	*ppbv*
Carbon disulfide	75-15-0	0.1020	0.50
Carbon tetrachloride	56-23-5	0.0732	0.30
Chlorobenzene	108-90-7	0.0832	0.40
Chloroethane	75-00-3	0.0996	0.40
Chloroform	67-66-3	0.0717	0.30
Chloromethane	74-87-3	0.1030	0.50
Dibromochloromethane	124-48-1	0.0727	0.30
1,2-Dibromoethane	106-93-4	0.0721	0.30
Acetone	67-64-1	0.5840	2.40
1,2-Dichlorobenzene	95-50-1	0.1280	0.60
1,3-Dichlorobenzene	541-73-1	0.1820	0.80
1,4-Dichlorobenzene	106-46-7	0.0557	0.30
1,2-Dichloroethane	107-06-2	0.07	0.30
1,1-Dichloroethane	75-34-3	0.0723	0.30
1,1-Dichloroethene	75-35-4	0.0762	0.40
cis-1,2-Dichloroethene	156-59-2	0.0784	0.40
trans-1,2-Dichloroethene	156-60-5	0.0673	0.30
1,2-Dichloropropane	78-87-5	0.0760	0.40
cis-1,3-Dichloropropene	10061-01-5	0.0689	0.30
trans-1,3-Dichloropropene	10061-02-6	0.0728	0.30
Ethylbenzene	100-41-4	0.0835	0.40
4-Ethyltoluene	622-96-8	0.0783	0.40
Trichlorofluoromethane	75-69-4	0.0819	0.35
Dichlorodifluoromethane	75-71-8	0.1370	0.60
1,1,2-Trichlorotrifluoroethane	76-13-1	0.0793	0.40
Hexachloro-1,3-butadiene	87-68-3	0.1050	0.63
Benzene	71-43-2	0.0715	0.30
Methylene Chloride	75-09-2	0.0979	0.40
Methyl Butyl Ketone	591-78-6	0.1330	1.25
2-Butanone (MEK)	78-93-3	0.0814	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	0.0765	1.25
MTBE	1634-04-4	0.0647	0.30
Naphthalene	91-20-3	0.35	1.40
Benzyl Chloride	100-44-7	0.0598	0.30
Styrene	100-42-5	0.0788	0.40
1,1,2,2-Tetrachloroethane	79-34-5	0.0743	0.30
Tetrachloroethylene	127-18-4	0.0814	0.40
Toluene	108-88-3	0.0870	0.50
1,2,4-Trichlorobenzene	120-82-1	0.1480	0.63
1,1,1-Trichloroethane	71-55-6	0.0736	0.30
1,1,2-Trichloroethane	79-00-5	0.0775	0.40
Trichloroethylene	79-01-6	0.0680	0.30
Bromodichloromethane	75-27-4	0.0702	0.30
1,2,4-Trimethylbenzene	95-63-6	0.0764	0.40
1,3,5-Trimethylbenzene	108-67-8	0.0779	0.40
Vinyl chloride	75-01-4	0.0949	0.40
Vinyl acetate	108-05-4	0.1160	0.50
m&p-Xylene	1330-20-7	0.1350	0.60
o-Xylene	95-47-6	0.0828	0.35
Bromoform	75-25-2	0.0732	0.60
Bromomethane	74-83-9	0.0982	0.40

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1570581-01,02,03,04,05,06,07,08,09,10,11
Matrix: Air
Analytical Method: TO-15
Prep Method: TO-15

Analyte	CAS	MDL	RDL
		ppbv	*ppbv*
1,3-Butadiene	106-99-0	0.1040	2

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876561-3	**SDG:**	L1570581
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	1229_04	**Received Date/Time:**	
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 12:46
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 12:46
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
Acetone	67-64-1	0	1.20	U	0.584	1.20	2.40
Benzene	71-43-2	0	0.150	U	0.0715	0.150	0.300
Benzyl Chloride	100-44-7	0	0.130	U	0.0598	0.130	0.300
Bromodichloromethane	75-27-4	0	0.150	U	0.0702	0.150	0.300
Bromoform	75-25-2	0	0.310	U	0.0732	0.310	0.600
Bromomethane	74-83-9	0	0.200	U	0.0982	0.200	0.400
1,3-Butadiene	106-99-0	0	0.630	U	0.104	0.630	2.00
Carbon disulfide	75-15-0	6.06	0.250	U	0.102	0.250	0.500
Carbon tetrachloride	56-23-5	0	0.150	U	0.0732	0.150	0.300
Chlorobenzene	108-90-7	0	0.200	U	0.0832	0.200	0.400
Chloroethane	75-00-3	0	0.200	U	0.0996	0.200	0.400
Chloroform	67-66-3	0	0.150	U	0.0717	0.150	0.300
Chloromethane	74-87-3	0	0.250	U	0.103	0.250	0.500
Dibromochloromethane	124-48-1	0	0.150	U	0.0727	0.150	0.300
1,2-Dibromoethane	106-93-4	0	0.150	U	0.0721	0.150	0.300
1,2-Dichlorobenzene	95-50-1	0	0.300	U	0.128	0.300	0.600
1,3-Dichlorobenzene	541-73-1	0	0.400	U	0.182	0.400	0.800
1,4-Dichlorobenzene	106-46-7	0	0.130	U	0.0557	0.130	0.300
1,2-Dichloroethane	107-06-2	0	0.150	U	0.0700	0.150	0.300
1,1-Dichloroethane	75-34-3	0	0.150	U	0.0723	0.150	0.300
1,1-Dichloroethene	75-35-4	0	0.200	U	0.0762	0.200	0.400
cis-1,2-Dichloroethene	156-59-2	0	0.200	U	0.0784	0.200	0.400
trans-1,2-Dichloroethene	156-60-5	0	0.150	U	0.0673	0.150	0.300
1,2-Dichloropropane	78-87-5	0	0.200	U	0.0760	0.200	0.400
cis-1,3-Dichloropropene	10061-01-5	0	0.150	U	0.0689	0.150	0.300
trans-1,3-Dichloropropene	10061-02-6	0	0.150	U	0.0728	0.150	0.300
Ethylbenzene	100-41-4	0	0.200	U	0.0835	0.200	0.400
4-Ethyltoluene	622-96-8	0	0.200	U	0.0783	0.200	0.400
Trichlorofluoromethane	75-69-4	0	0.175	U	0.0819	0.175	0.350
Dichlorodifluoromethane	75-71-8	0	0.300	U	0.137	0.300	0.600
1,1,2-Trichlorotrifluoroethane	76-13-1	0	0.200	U	0.0793	0.200	0.400
Hexachloro-1,3-butadiene	87-68-3	15.60	0.250	U	0.105	0.250	0.630
Methylene Chloride	75-09-2	0	0.200	U	0.0979	0.200	0.400
Methyl Butyl Ketone	591-78-6	0	0.300	U	0.133	0.300	1.25
2-Butanone (MEK)	78-93-3	0	0.190	U	0.0814	0.190	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	0	0.190	U	0.0765	0.190	1.25
MTBE	1634-04-4	0	0.130	U	0.0647	0.130	0.300
Naphthalene	91-20-3	15.83	0.700	U	0.350	0.700	1.40
Styrene	100-42-5	0	0.200	U	0.0788	0.200	0.400
1,1,2,2-Tetrachloroethane	79-34-5	0	0.150	U	0.0743	0.150	0.300
Tetrachloroethylene	127-18-4	0	0.200	U	0.0814	0.200	0.400
Toluene	108-88-3	0	0.250	U	0.0870	0.250	0.500
1,2,4-Trichlorobenzene	120-82-1	15.53	0.310	U	0.148	0.310	0.630

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876561-3	**SDG:**	L1570581
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	1229_04	**Received Date/Time:**	
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 12:46
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 12:46
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
1,1,1-Trichloroethane	71-55-6	0	0.150	U	0.0736	0.150	0.300
1,1,2-Trichloroethane	79-00-5	0	0.200	U	0.0775	0.200	0.400
Trichloroethylene	79-01-6	0	0.150	U	0.0680	0.150	0.300
1,2,4-Trimethylbenzene	95-63-6	0	0.200	U	0.0764	0.200	0.400
1,3,5-Trimethylbenzene	108-67-8	0	0.200	U	0.0779	0.200	0.400
Vinyl chloride	75-01-4	0	0.200	U	0.0949	0.200	0.400
Vinyl acetate	108-05-4	0	0.250	U	0.116	0.250	0.500
m&p-Xylene	1330-20-7	0	0.300	U	0.135	0.300	0.600
o-Xylene	95-47-6	0	0.175	U	0.0828	0.175	0.350

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_04.D
Acq On : 29 Dec 2022 12:46 pm
Operator :
Sample : BLANK 1x WG1980894
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 13:07:15 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

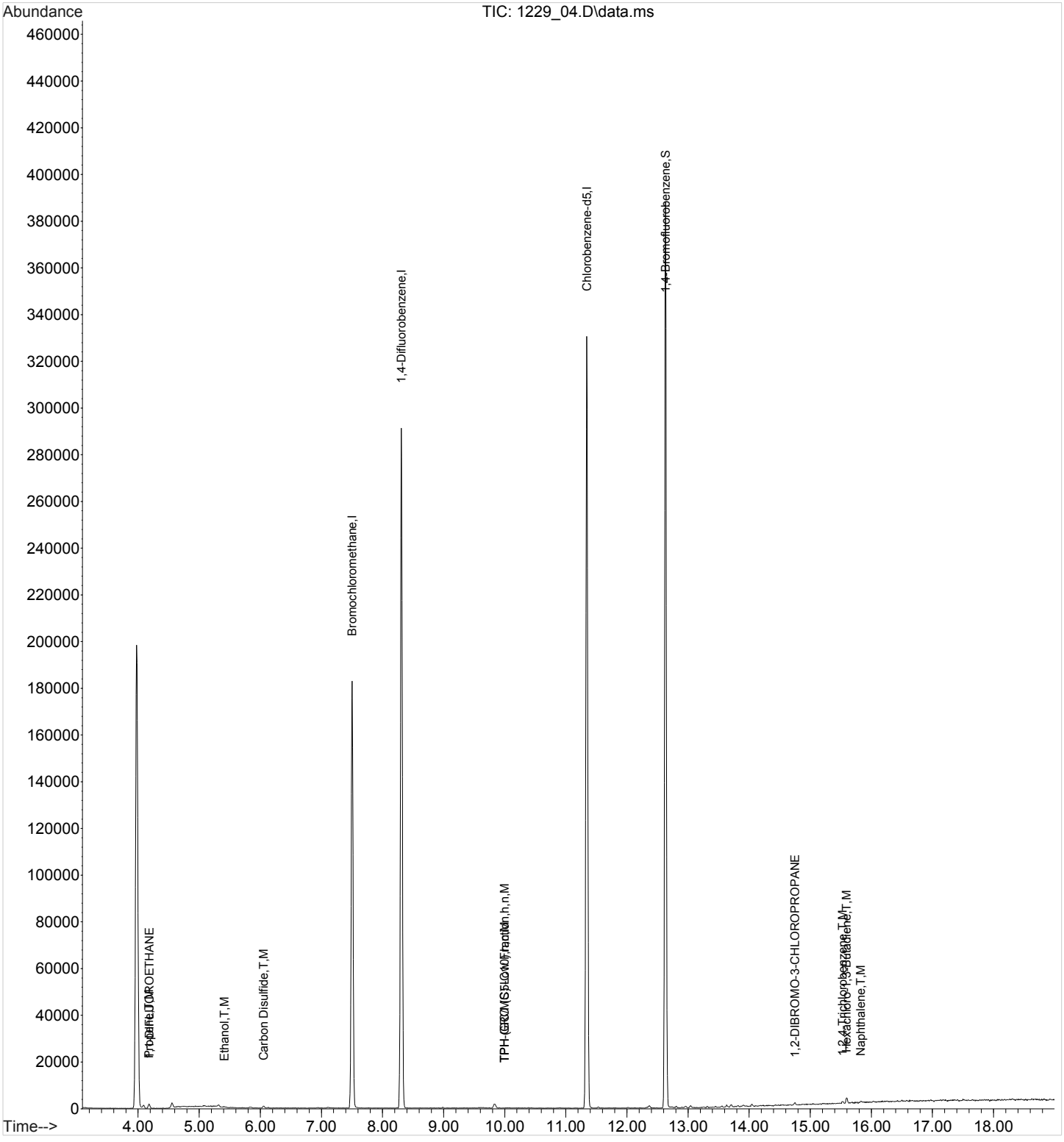
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	80248	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.307	114	287423	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	249011	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	147002	3.4598728	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 86.50%			
Target Compounds						Qvalue
2) Propene	4.176	41	665	0.1438718	ppbv	95
4) 1,1-DIFLUOROETHANE	4.183	51	769	0.1215301	ppbv	89
17) Ethanol	5.411	45	465	0.1805050	ppbv #	79
24) Carbon Disulfide	6.056	76	1380	0.0633329	ppbv #	84
97) 1,2-DIBROMO-3-CHLOROPR...	14.750	157	395	0.0670589	ppbv	98
98) 1,2,4-Trichlorobenzene	15.528	180	360	0.0684694	ppbv #	82
99) Hexachloro-1,3-Butadiene	15.595	225	690	0.0636124	ppbv #	92
100) Naphthalene	15.826	128	968	0.0730499	ppbv #	79
101) TPH (GC/MS) Low Fraction	10.000	TIC	94731m	2.5597032	ppbv	
102) TPH-GRO (C5-C10)	10.000	TIC	156480m	5.0101032	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_04.D
Acq On : 29 Dec 2022 12:46 pm
Operator :
Sample : BLANK 1x WG1980894
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 13:07:15 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876561-1	**SDG:**	L1570581
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	1229_02	**Received Date/Time:**	
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 11:19
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 11:19
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
Acetone	67-64-1	5.82	3.11		0.584	1.20	2.40
Benzene	71-43-2	8.03	3.82		0.0715	0.150	0.300
Benzyl Chloride	100-44-7	13.81	3.85		0.0598	0.130	0.300
Bromodichloromethane	75-27-4	9.07	3.78		0.0702	0.150	0.300
Bromoform	75-25-2	12.32	4.23		0.0732	0.310	0.600
Bromomethane	74-83-9	4.99	3.73		0.0982	0.200	0.400
1,3-Butadiene	106-99-0	4.63	3.13		0.104	0.630	2.00
Carbon disulfide	75-15-0	6.06	3.41		0.102	0.250	0.500
Carbon tetrachloride	56-23-5	7.83	3.68		0.0732	0.150	0.300
Chlorobenzene	108-90-7	11.38	4.08		0.0832	0.200	0.400
Chloroethane	75-00-3	5.07	3.29		0.0996	0.200	0.400
Chloroform	67-66-3	7.50	3.57		0.0717	0.150	0.300
Chloromethane	74-87-3	4.48	3.39		0.103	0.250	0.500
Dibromochloromethane	124-48-1	10.72	4.16		0.0727	0.150	0.300
1,2-Dibromoethane	106-93-4	10.90	3.97		0.0721	0.150	0.300
1,2-Dichlorobenzene	95-50-1	14.04	4.38		0.128	0.300	0.600
1,3-Dichlorobenzene	541-73-1	13.63	4.41		0.182	0.400	0.800
1,4-Dichlorobenzene	106-46-7	13.71	4.52		0.0557	0.130	0.300
1,2-Dichloroethane	107-06-2	8.08	3.74		0.0700	0.150	0.300
1,1-Dichloroethane	75-34-3	6.79	3.46		0.0723	0.150	0.300
1,1-Dichloroethene	75-35-4	5.78	3.49		0.0762	0.200	0.400
cis-1,2-Dichloroethene	156-59-2	7.27	3.39		0.0784	0.200	0.400
trans-1,2-Dichloroethene	156-60-5	6.40	3.39		0.0673	0.150	0.300
1,2-Dichloropropane	78-87-5	8.85	3.66		0.0760	0.200	0.400
cis-1,3-Dichloropropene	10061-01-5	9.50	3.69		0.0689	0.150	0.300
trans-1,3-Dichloropropene	10061-02-6	10.05	3.75		0.0728	0.150	0.300
Ethylbenzene	100-41-4	11.41	3.87		0.0835	0.200	0.400
4-Ethyltoluene	622-96-8	12.91	3.93		0.0783	0.200	0.400
Trichlorofluoromethane	75-69-4	5.28	4.05		0.0819	0.175	0.350
Dichlorodifluoromethane	75-71-8	4.23	3.64		0.137	0.300	0.600
1,1,2-Trichlorotrifluoroethane	76-13-1	5.69	3.75		0.0793	0.200	0.400
Hexachloro-1,3-butadiene	87-68-3	15.60	4.48		0.105	0.250	0.630
Methylene Chloride	75-09-2	6.20	3.35		0.0979	0.200	0.400
Methyl Butyl Ketone	591-78-6	10.42	4.13		0.133	0.300	1.25
2-Butanone (MEK)	78-93-3	7.24	3.56		0.0814	0.190	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	9.57	3.92		0.0765	0.190	1.25
MTBE	1634-04-4	6.34	3.50		0.0647	0.130	0.300
Naphthalene	91-20-3	15.81	3.83		0.350	0.700	1.40
Styrene	100-42-5	12.02	3.98		0.0788	0.200	0.400
1,1,2,2-Tetrachloroethane	79-34-5	12.74	3.80		0.0743	0.150	0.300
Tetrachloroethylene	127-18-4	10.39	4.30		0.0814	0.200	0.400
Toluene	108-88-3	9.82	3.82		0.0870	0.250	0.500
1,2,4-Trichlorobenzene	120-82-1	15.52	4.49		0.148	0.310	0.630

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876561-1	**SDG:**	L1570581
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	1229_02	**Received Date/Time:**	
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 11:19
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 11:19
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
1,1,1-Trichloroethane	71-55-6	7.70	3.55		0.0736	0.150	0.300
1,1,2-Trichloroethane	79-00-5	10.27	3.89		0.0775	0.200	0.400
Trichloroethylene	79-01-6	8.59	3.83		0.0680	0.150	0.300
1,2,4-Trimethylbenzene	95-63-6	13.31	3.80		0.0764	0.200	0.400
1,3,5-Trimethylbenzene	108-67-8	12.96	3.92		0.0779	0.200	0.400
Vinyl chloride	75-01-4	4.60	3.49		0.0949	0.200	0.400
Vinyl acetate	108-05-4	6.72	3.02		0.116	0.250	0.500
m&p-Xylene	1330-20-7	11.53	7.82		0.135	0.300	0.600
o-Xylene	95-47-6	12	3.71		0.0828	0.175	0.350

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 11:19 am
Operator :
Sample : LCS 1x WG1980894
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 11:41:49 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	77535	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.313	114	272809	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	242736	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	148507	3.5856522	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 89.64%			
Target Compounds						Qvalue
2) Propene	4.176	41	12656	2.8339162	ppbv	98
3) BUTANE	4.572	43	20009	2.8123342	ppbv	100
4) 1,1-DIFLUOROETHANE	4.176	51	20410	3.3383902	ppbv	98
5) Dichlorodifluoromethane	4.225	85	47878	3.6394933	ppbv	100
6) CHLORODIFLUOROMETHANE	4.237	51	26100	3.5199712	ppbv	100
7) 1,2-Dichlorotetrafluor...	4.371	85	52749	3.6365565	ppbv	94
8) Chloromethane	4.481	50	16039	3.3915726	ppbv	99
9) Vinyl Chloride	4.602	62	16090	3.4858990	ppbv	98
10) 1,3-Butadiene	4.633	39	9603	3.1328643	ppbv	99
11) Bromomethane	4.986	94	16755	3.7320142	ppbv	99
12) Chloroethane	5.071	64	6414	3.2855507	ppbv	100
13) ISOPENTANE	5.089	43	13669	2.7814773	ppbv	91
14) Vinyl Bromide	5.259	106	17269	3.8050577	ppbv	100
15) Trichlorofluoromethane	5.284	101	44594	4.0494774	ppbv	100
16) PENTANE	5.320	43	26083	2.5803427	ppbv	99
17) Ethanol	5.399	45	7614	3.0590432	ppbv	100
18) ACROLEIN	5.703	56	7275	3.1486498	ppbv	99
19) 1,1,2-Trichlorotrifluo...	5.691	101	44729	3.7543230	ppbv	94
20) 1,1-Dichloroethene	5.776	61	29735	3.4860591	ppbv	96
21) Acetone	5.819	43	26469	3.1109921	ppbv	98
22) BROMOETHANE	5.959	108	19059	3.7720312	ppbv	100
23) 2-Propanol	5.837	45	29138	3.1015208	ppbv	99
24) Carbon Disulfide	6.056	76	71833	3.4120141	ppbv	97
25) Allyl Chloride	6.093	41	23914m	3.8410348	ppbv	
26) METHYL ACETATE	6.044	43	31440	3.3260352	ppbv #	97
27) ACETONITRILE	6.117	41	63159m	12.0125307	ppbv	
28) Methylene Chloride	6.202	49	19657	3.3514145	ppbv	95
29) TERT-BUTYL ALCOHOL	6.166	59	37611	3.8027447	ppbv	80
30) Methyl Tert-Butyl Ether	6.342	73	47045	3.5033167	ppbv	98
31) Trans-1,2-Dichloroethene	6.403	61	28715	3.3846444	ppbv	93
32) ACRYLONITRILE	6.433	53	14484	3.3174926	ppbv	99
33) n-Hexane	6.525	57	25732	3.2562389	ppbv	99
34) 1,1-Dichloroethane	6.786	63	36128	3.4547768	ppbv	99
35) Vinyl Acetate	6.719	43	37610	3.0153565	ppbv	99
36) DI-ISOPROPYL ETHER	6.671	45	53211	3.3233294	ppbv	99
37) ETHYL TERT-BUTYL ETHER	6.975	59	57211	3.3715816	ppbv	99
38) ETHYL ACETATE	7.194	45	5697	3.2265137	ppbv	91
39) 2-Butanone (MEK)	7.236	72	9256	3.5580295	ppbv	94
40) cis-1,2-Dichloroethene	7.273	61	27371	3.3884402	ppbv	93
41) Tetrahydrofuran	7.510	42	17273	3.1855570	ppbv	98
42) Chloroform	7.504	83	40488	3.5680272	ppbv	99
43) Cyclohexane	7.723	84	21344	3.3729562	ppbv	94
44) 1,1,1-Trichloroethane	7.705	97	40965	3.5530120	ppbv	98
45) Carbon Tetrachloride	7.833	117	45218	3.6789402	ppbv	100
46) 2,2,4-Trimethylpentane	7.942	57	84680	3.2556340	ppbv	99
48) Benzene	8.033	78	58788	3.8199302	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 11:19 am
Operator :
Sample : LCS 1x WG1980894
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 11:41:49 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

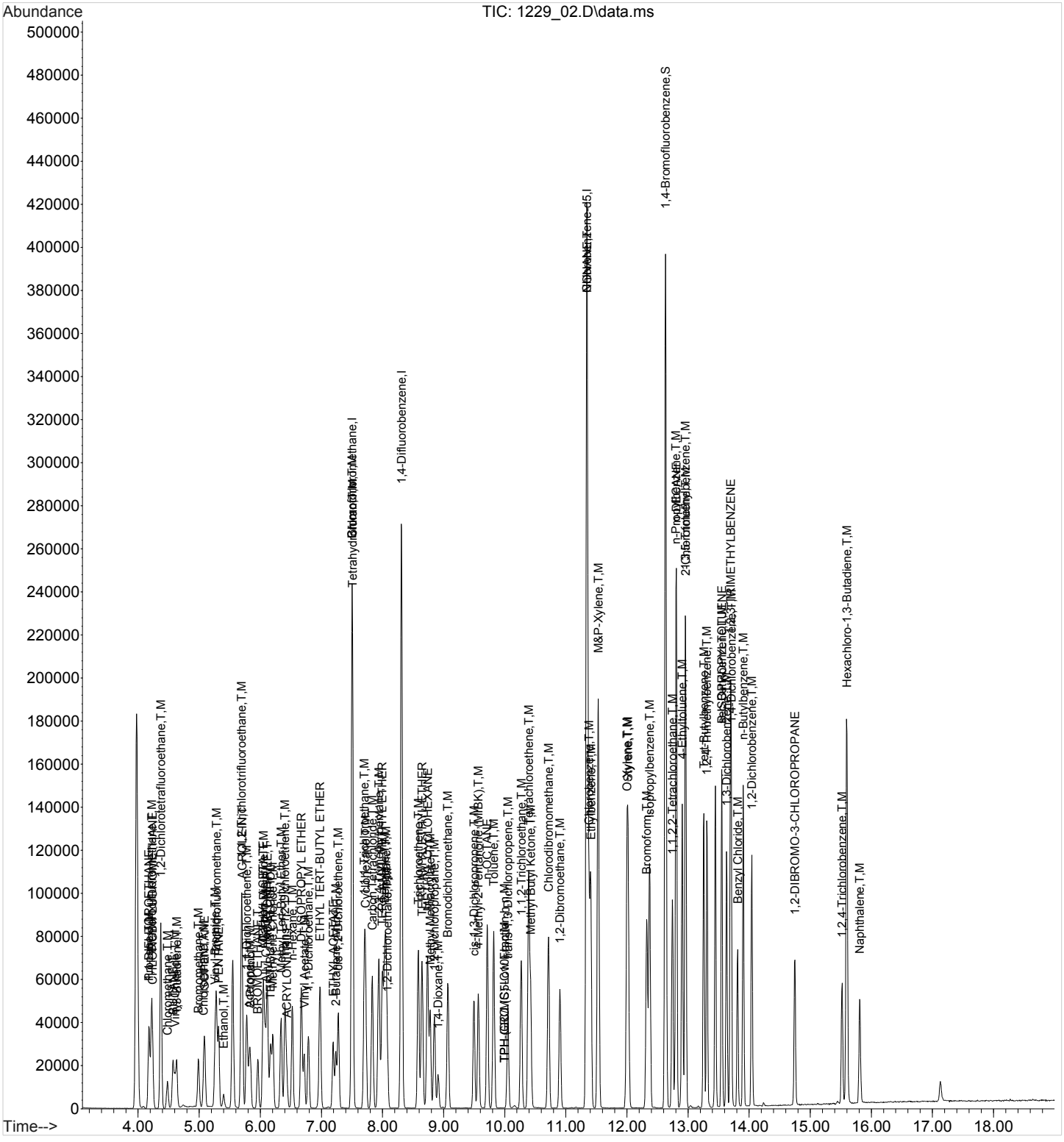
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	TERT-AMYL METHYL ETHER	7.997	73	59184	3.9073924	ppbv	97
50)	1,2-Dichloroethane	8.082	62	21323	3.7397431	ppbv	99
51)	Heptane	8.058	43	29697	3.5166088	ppbv	98
52)	Trichloroethene	8.587	95	28778	3.8246413	ppbv	92
53)	TERT-AMYL ETHYL ETHER	8.648	73	19213	3.7530154	ppbv	98
54)	METHYL CYCLOHEXANE	8.739	83	36780	3.6155468	ppbv	95
55)	1,2-Dichloropropane	8.849	63	23365	3.6557290	ppbv	97
56)	Methyl Methacrylate	8.782	41	24088	3.5498864	ppbv	89
57)	1,4-Dioxane	8.909	88	14203	4.3997020	ppbv	96
58)	Bromodichloromethane	9.068	83	44544	3.7756280	ppbv	98
59)	cis-1,3-Dichloropropene	9.500	75	37361	3.6859838	ppbv	96
60)	4-Methyl-2-Pentanone (...	9.566	43	43034	3.9192555	ppbv	100
61)	n-OCTANE	9.712	43	46536	3.5035984	ppbv	97
62)	Toluene	9.822	91	75368	3.8213832	ppbv	100
63)	trans-1,3-Dichloropropene	10.053	75	33264	3.7481372	ppbv	95
64)	1,1,2-Trichloroethane	10.272	97	28746	3.8943527	ppbv	98
65)	Tetrachloroethene	10.394	166	42335	4.3017589	ppbv	95
66)	Methyl Butyl Ketone	10.424	43	41763	4.1324642	ppbv	98
67)	Chlorodibromomethane	10.716	129	57376	4.1612082	ppbv	99
68)	1,2-Dibromoethane	10.905	107	47299	3.9709069	ppbv	99
69)	Chlorobenzene	11.379	112	59408	4.0754723	ppbv	94
70)	NONANE	11.349	43	48810	3.4717639	ppbv	98
72)	Ethylbenzene	11.410	91	89979	3.8715399	ppbv	99
73)	M&P-Xylene	11.531	91	142344	7.8151225	ppbv	98
74)	O-Xylene	12.000	91	71201	3.7062583	ppbv	98
77)	Styrene	12.018	104	61212	3.9807949	ppbv	96
78)	Bromoform	12.322	173	57123	4.2310904	ppbv	100
79)	Isopropylbenzene	12.371	105	97399	3.7368298	ppbv	99
80)	n-DECANE	12.809	43	43180	3.5487675	ppbv	97
81)	1,1,2,2-Tetrachloroethane	12.742	83	59006	3.8007728	ppbv	99
82)	n-Propylbenzene	12.803	91	116791	3.9733172	ppbv	98
83)	4-Ethyltoluene	12.906	105	94877	3.9306714	ppbv	99
84)	2-Chlorotoluene	12.961	126	25617	4.1497263	ppbv	88
86)	1,3,5-Trimethylbenzene	12.955	105	77890	3.9165651	ppbv	97
87)	Tert-Butylbenzene	13.259	119	70276	3.8200765	ppbv	97
88)	1,2,4-Trimethylbenzene	13.308	105	73746	3.7984346	ppbv	97
89)	sec-Butylbenzene	13.551	134	22242	3.9571927	ppbv	94
90)	1,3-Dichlorobenzene	13.630	146	52894	4.4080479	ppbv	94
91)	P-ISOPROPYLTOLUENE	13.551	119	88560	3.9222360	ppbv	99
92)	1,4-Dichlorobenzene	13.709	146	50536	4.5241343	ppbv	95
93)	1,2,3-TRIMETHYLBENZENE	13.697	105	74593	3.9498388	ppbv	98
94)	Benzyl Chloride	13.813	91	51291	3.8520899	ppbv	97
95)	n-Butylbenzene	13.904	91	83080	3.8904159	ppbv	99
96)	1,2-Dichlorobenzene	14.044	146	51977	4.3842448	ppbv	98
97)	1,2-DIBROMO-3-CHLOROPR...	14.750	157	24417	4.2524185	ppbv	93
98)	1,2,4-Trichlorobenzene	15.522	180	22993	4.4861554	ppbv	98
99)	Hexachloro-1,3-Butadiene	15.601	225	47401	4.4829590	ppbv	97
100)	Naphthalene	15.808	128	49420	3.8258787	ppbv	98
101)	TPH (GC/MS) Low Fraction	10.000	TIC	7256956m	201.1579654	ppbv	
102)	TPH-GRO (C5-C10)	10.000	TIC	8526993m	280.0713229	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 11:19 am
Operator :
Sample : LCS 1x WG1980894
Misc :
ALS Vial : 2 Sample Multiplier: 1

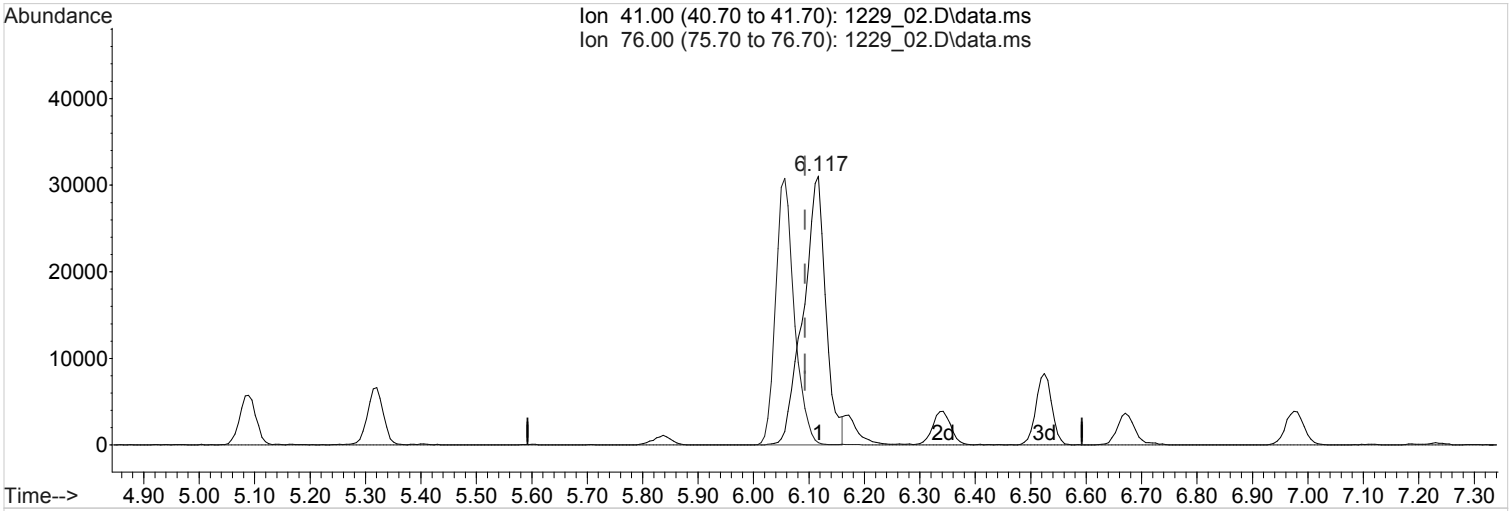
Quant Time: Dec 29 11:41:49 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

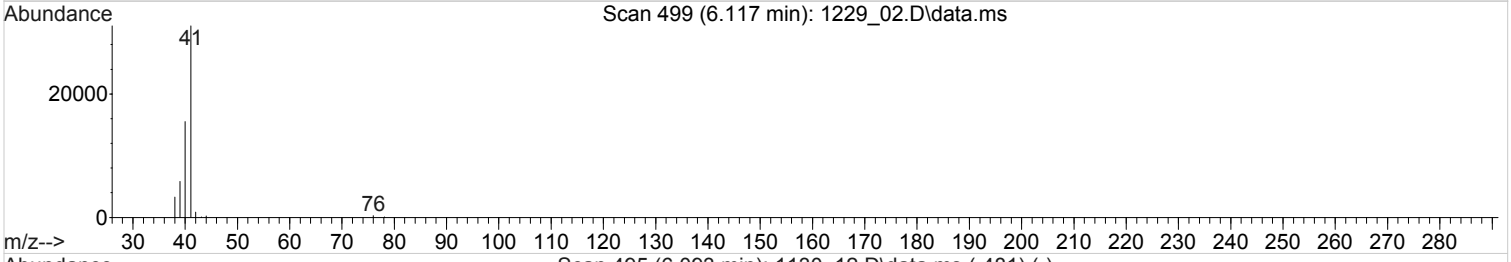


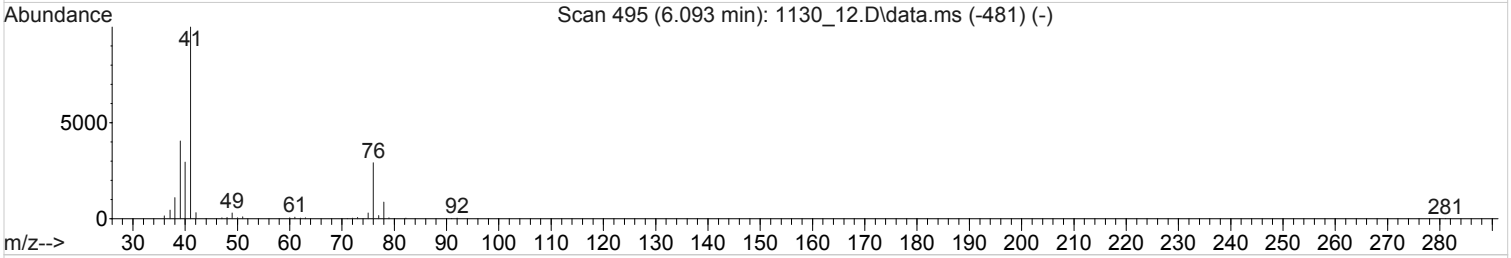
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 11:19 am
Operator :
Sample : LCS 1x WG1980247
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 11:40:47 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_02.D\data.ms

(25) Allyl Chloride (T,M)

6.117min (+0.024) 14.1776490 ppbv

Qvalue = 1

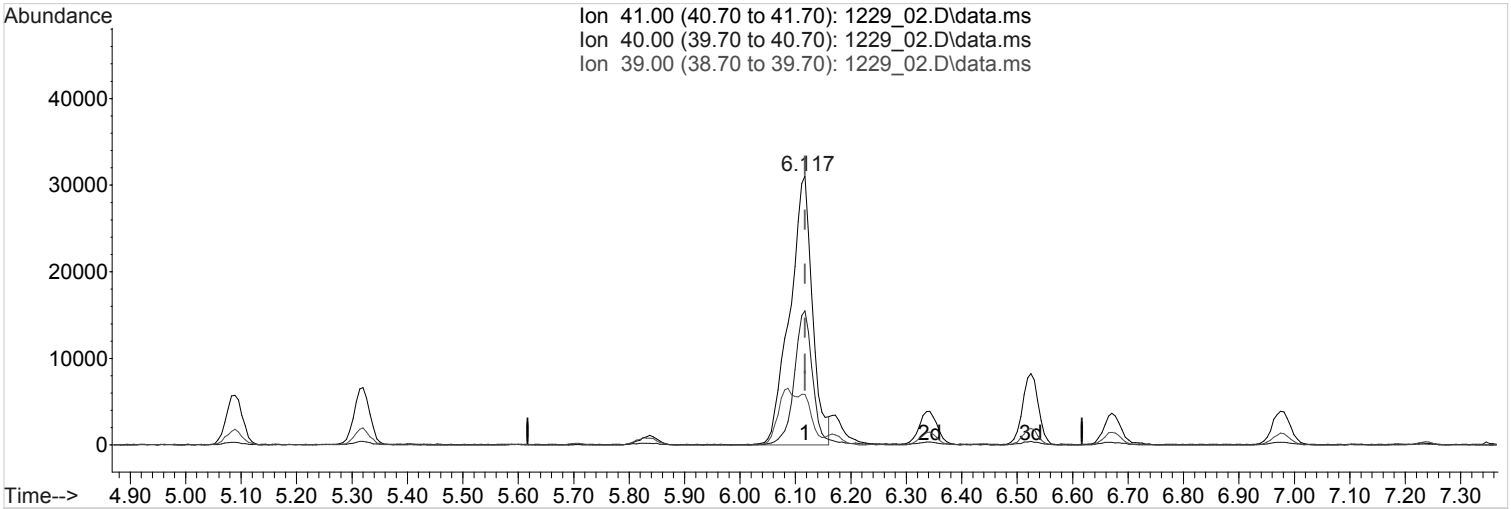
response 88269

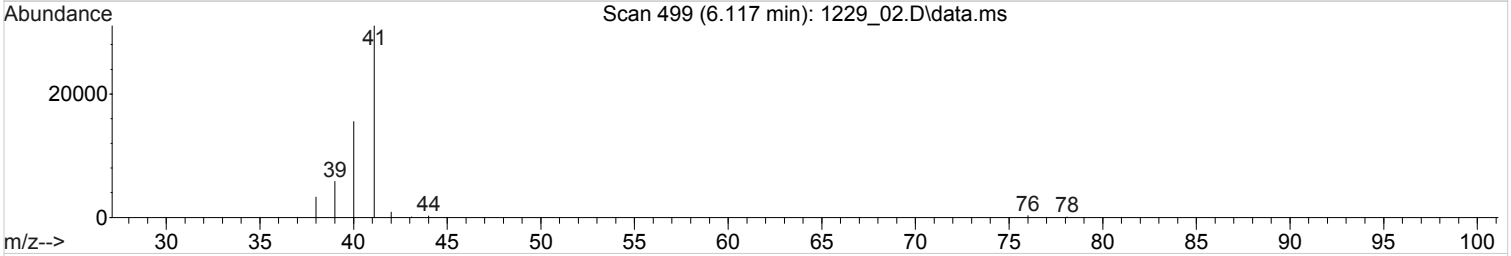
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	81.38#
0.00	0.00	0.00
0.00	0.00	0.00

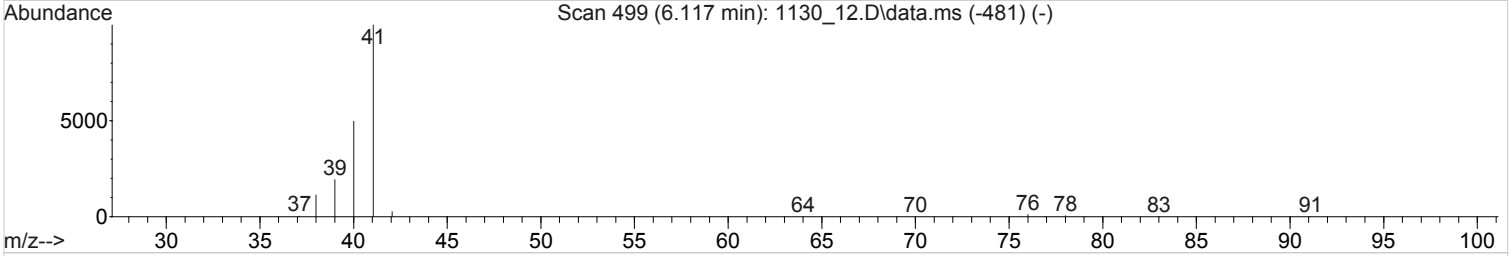
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 11:19 am
Operator :
Sample : LCS 1x WG1980247
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 11:40:47 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_02.D\data.ms

(27) ACETONITRILE (T)

6.117min (+0.000) 16.7883291 ppbv

Qvalue = 91

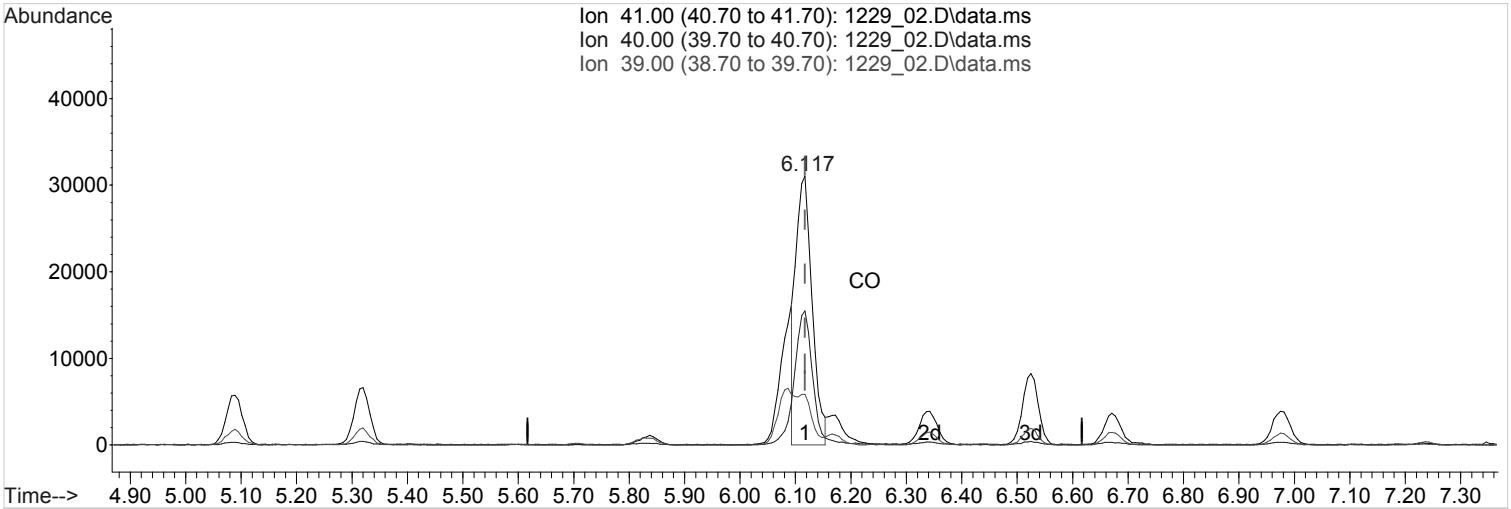
response 88269

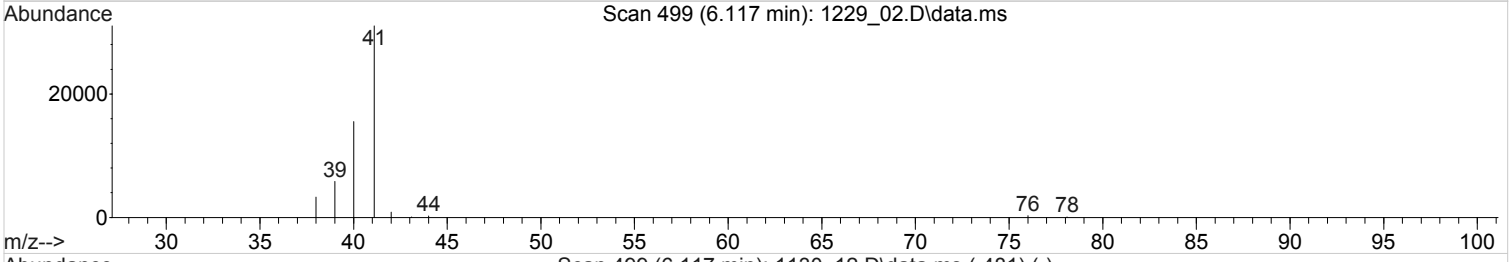
Ion	Exp%	Act%
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40.00	40.90	39.99
39.00	28.40	17.69#
0.00	0.00	0.00

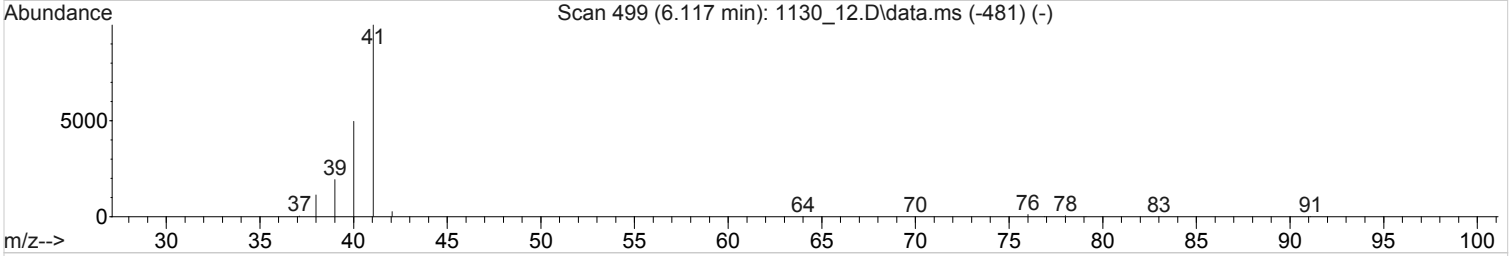
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 11:19 am
Operator :
Sample : LCS 1x WG1980247
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 11:40:47 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_02.D\data.ms

(27) ACETONITRILE (T)

6.117min (+0.000) 12.0125307 ppbv m

response 63159

Ion	Exp%	Act%
41.00	100	100
40.00	40.90	55.89#
39.00	28.40	24.72
0.00	0.00	0.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876561-2	**SDG:**	L1570581
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	1229_03	**Received Date/Time:**	
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 12:04
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 12:04
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
Acetone	67-64-1	5.82	3.06		0.584	1.20	2.40
Benzene	71-43-2	8.03	3.69		0.0715	0.150	0.300
Benzyl Chloride	100-44-7	13.81	3.80		0.0598	0.130	0.300
Bromodichloromethane	75-27-4	9.07	3.74		0.0702	0.150	0.300
Bromoform	75-25-2	12.32	4.18		0.0732	0.310	0.600
Bromomethane	74-83-9	4.99	3.81		0.0982	0.200	0.400
1,3-Butadiene	106-99-0	4.63	3.08		0.104	0.630	2.00
Carbon disulfide	75-15-0	6.06	3.33		0.102	0.250	0.500
Carbon tetrachloride	56-23-5	7.83	3.61		0.0732	0.150	0.300
Chlorobenzene	108-90-7	11.38	3.89		0.0832	0.200	0.400
Chloroethane	75-00-3	5.07	3.22		0.0996	0.200	0.400
Chloroform	67-66-3	7.50	3.45		0.0717	0.150	0.300
Chloromethane	74-87-3	4.48	3.22		0.103	0.250	0.500
Dibromochloromethane	124-48-1	10.72	3.98		0.0727	0.150	0.300
1,2-Dibromoethane	106-93-4	10.90	3.88		0.0721	0.150	0.300
1,2-Dichlorobenzene	95-50-1	14.04	4.25		0.128	0.300	0.600
1,3-Dichlorobenzene	541-73-1	13.63	4.29		0.182	0.400	0.800
1,4-Dichlorobenzene	106-46-7	13.71	4.45		0.0557	0.130	0.300
1,2-Dichloroethane	107-06-2	8.08	3.58		0.0700	0.150	0.300
1,1-Dichloroethane	75-34-3	6.79	3.41		0.0723	0.150	0.300
1,1-Dichloroethene	75-35-4	5.78	3.37		0.0762	0.200	0.400
cis-1,2-Dichloroethene	156-59-2	7.27	3.39		0.0784	0.200	0.400
trans-1,2-Dichloroethene	156-60-5	6.40	3.32		0.0673	0.150	0.300
1,2-Dichloropropane	78-87-5	8.85	3.53		0.0760	0.200	0.400
cis-1,3-Dichloropropene	10061-01-5	9.49	3.57		0.0689	0.150	0.300
trans-1,3-Dichloropropene	10061-02-6	10.05	3.53		0.0728	0.150	0.300
Ethylbenzene	100-41-4	11.40	3.84		0.0835	0.200	0.400
4-Ethyltoluene	622-96-8	12.91	3.74		0.0783	0.200	0.400
Trichlorofluoromethane	75-69-4	5.28	4.01		0.0819	0.175	0.350
Dichlorodifluoromethane	75-71-8	4.22	3.56		0.137	0.300	0.600
1,1,2-Trichlorotrifluoroethane	76-13-1	5.70	3.76		0.0793	0.200	0.400
Hexachloro-1,3-butadiene	87-68-3	15.60	4.36		0.105	0.250	0.630
Methylene Chloride	75-09-2	6.21	3.24		0.0979	0.200	0.400
Methyl Butyl Ketone	591-78-6	10.42	3.90		0.133	0.300	1.25
2-Butanone (MEK)	78-93-3	7.24	3.42		0.0814	0.190	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	9.57	3.78		0.0765	0.190	1.25
MTBE	1634-04-4	6.34	3.40		0.0647	0.130	0.300
Naphthalene	91-20-3	15.81	3.71		0.350	0.700	1.40
Styrene	100-42-5	12.02	3.85		0.0788	0.200	0.400
1,1,2,2-Tetrachloroethane	79-34-5	12.74	3.75		0.0743	0.150	0.300
Tetrachloroethylene	127-18-4	10.39	4.13		0.0814	0.200	0.400
Toluene	108-88-3	9.82	3.62		0.0870	0.250	0.500
1,2,4-Trichlorobenzene	120-82-1	15.52	4.25		0.148	0.310	0.630

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876561-2	**SDG:**	L1570581
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	1229_03	**Received Date/Time:**	
Instrument ID:	AIRMS4	**Preparation Date/Time:**	12/29/22 12:04
Analytical Batch:	WG1980894	**Analysis Date/Time:**	12/29/22 12:04
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
1,1,1-Trichloroethane	71-55-6	7.70	3.55		0.0736	0.150	0.300
1,1,2-Trichloroethane	79-00-5	10.27	3.75		0.0775	0.200	0.400
Trichloroethylene	79-01-6	8.59	3.72		0.0680	0.150	0.300
1,2,4-Trimethylbenzene	95-63-6	13.31	3.76		0.0764	0.200	0.400
1,3,5-Trimethylbenzene	108-67-8	12.95	3.78		0.0779	0.200	0.400
Vinyl chloride	75-01-4	4.60	3.46		0.0949	0.200	0.400
Vinyl acetate	108-05-4	6.72	3.15		0.116	0.250	0.500
m&p-Xylene	1330-20-7	11.53	7.51		0.135	0.300	0.600
o-Xylene	95-47-6	12	3.60		0.0828	0.175	0.350

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 12:04 pm
Operator :
Sample : LCSD 1x WG1980894
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 12:25:50 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.504	130	78775	4.0000000	ppbv	0.00
47) 1,4-Difluorobenzene	8.307	114	284263	4.0000000	ppbv	0.00
71) Chlorobenzene-d5	11.343	117	249283	4.0000000	ppbv	0.00
System Monitoring Compounds						
85) 1,4-Bromofluorobenzene	12.633	95	150449	3.5371385	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 88.43%			
Target Compounds						Qvalue
2) Propene	4.182	41	12684	2.7954784	ppbv	98
3) BUTANE	4.572	43	20044	2.7729071	ppbv	98
4) 1,1-DIFLUOROETHANE	4.176	51	20168	3.2468805	ppbv	96
5) Dichlorodifluoromethane	4.219	85	47598	3.5612545	ppbv	98
6) CHLORODIFLUOROMETHANE	4.237	51	25911	3.4394750	ppbv	99
7) 1,2-Dichlorotetrafluor...	4.371	85	52062	3.5326965	ppbv	95
8) Chloromethane	4.481	50	15489	3.2237146	ppbv	99
9) Vinyl Chloride	4.602	62	16210	3.4566161	ppbv	98
10) 1,3-Butadiene	4.627	39	9601	3.0829075	ppbv	100
11) Bromomethane	4.985	94	17360	3.8059051	ppbv	98
12) Chloroethane	5.071	64	6377	3.2151779	ppbv	99
13) ISOPENTANE	5.089	43	13943	2.7925720	ppbv #	94
14) Vinyl Bromide	5.259	106	17240	3.7388729	ppbv	99
15) Trichlorofluoromethane	5.277	101	44858	4.0093303	ppbv	98
16) PENTANE	5.320	43	25922	2.5240487	ppbv	100
17) Ethanol	5.399	45	7572	2.9942822	ppbv	98
18) ACROLEIN	5.709	56	7446	3.1719313	ppbv	96
19) 1,1,2-Trichlorotrifluo...	5.697	101	45559	3.7637954	ppbv	94
20) 1,1-Dichloroethene	5.776	61	29212	3.3708348	ppbv	95
21) Acetone	5.819	43	26434	3.0579729	ppbv	97
22) BROMOETHANE	5.959	108	19053	3.7114868	ppbv	98
23) 2-Propanol	5.837	45	29441	3.0844441	ppbv	98
24) Carbon Disulfide	6.056	76	71208	3.3290857	ppbv	97
25) Allyl Chloride	6.093	41	23999m	3.7940106	ppbv	
26) METHYL ACETATE	6.044	43	31205	3.2492107	ppbv #	97
27) ACETONITRILE	6.111	41	87346	16.3512767	ppbv #	90
28) Methylene Chloride	6.208	49	19324	3.2427788	ppbv	95
29) TERT-BUTYL ALCOHOL	6.166	59	37179	3.6998948	ppbv	81
30) Methyl Tert-Butyl Ether	6.342	73	46388	3.4000159	ppbv	98
31) Trans-1,2-Dichloroethene	6.403	61	28604	3.3184890	ppbv	94
32) ACRYLONITRILE	6.433	53	14477	3.2636937	ppbv	99
33) n-Hexane	6.525	57	25422	3.1663710	ppbv	98
34) 1,1-Dichloroethane	6.786	63	36183	3.4055716	ppbv	98
35) Vinyl Acetate	6.719	43	39963	3.1535723	ppbv	99
36) DI-ISOPROPYL ETHER	6.671	45	53281	3.2753198	ppbv	94
37) ETHYL TERT-BUTYL ETHER	6.975	59	58947	3.4192056	ppbv	99
38) ETHYL ACETATE	7.188	45	5651	3.1500829	ppbv	92
39) 2-Butanone (MEK)	7.236	72	9039	3.4199201	ppbv	96
40) cis-1,2-Dichloroethene	7.273	61	27814	3.3890813	ppbv	95
41) Tetrahydrofuran	7.510	42	17321	3.1441261	ppbv	97
42) Chloroform	7.504	83	39768	3.4494112	ppbv	99
43) Cyclohexane	7.723	84	21694	3.3743017	ppbv	93
44) 1,1,1-Trichloroethane	7.699	97	41559	3.5477922	ppbv	98
45) Carbon Tetrachloride	7.833	117	45107	3.6121410	ppbv	99
46) 2,2,4-Trimethylpentane	7.942	57	84853	3.2109335	ppbv	99
48) Benzene	8.033	78	59162	3.6893337	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 12:04 pm
Operator :
Sample : LCSD 1x WG1980894
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 12:25:50 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

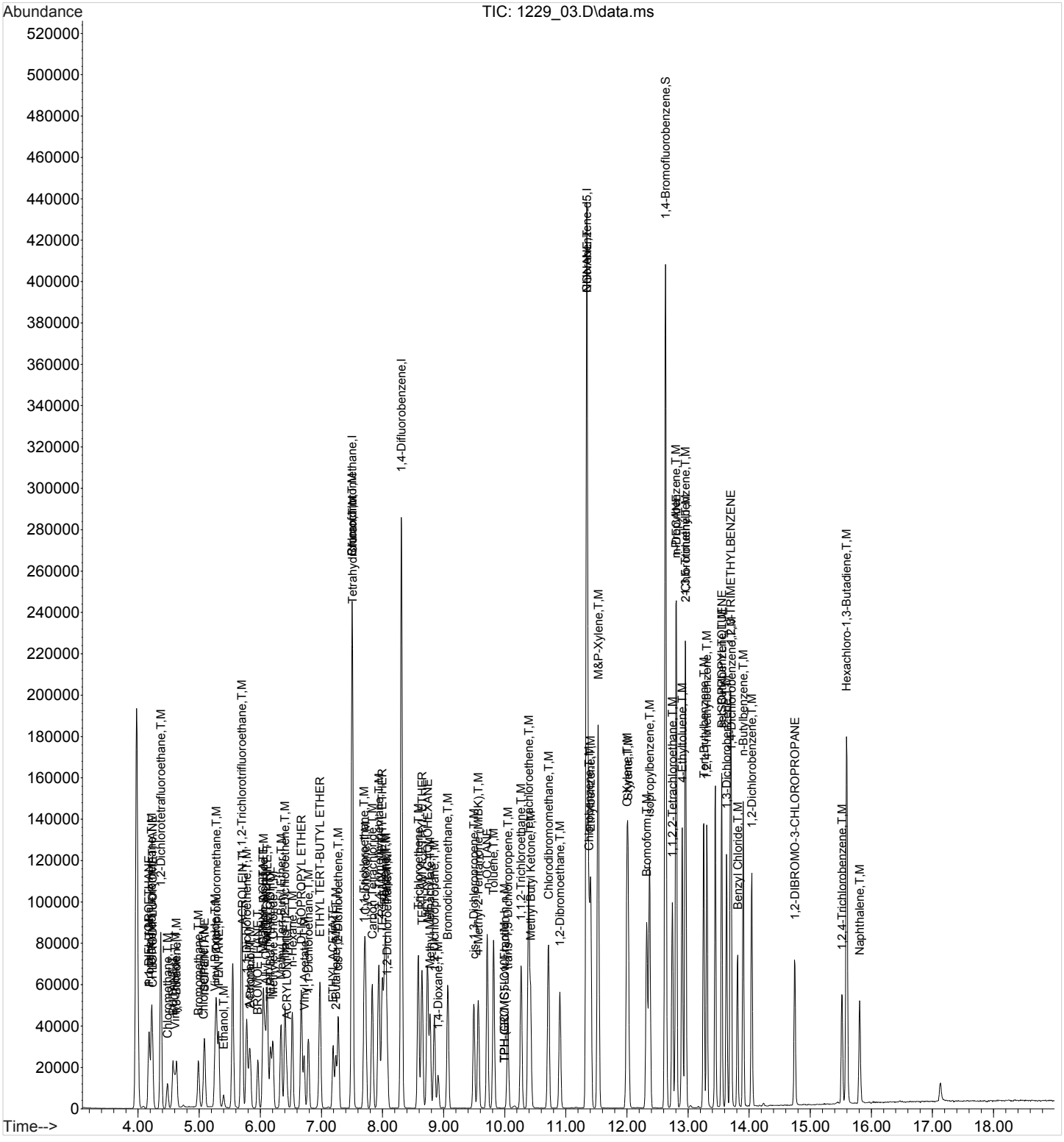
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) TERT-AMYL METHYL ETHER	7.997	73	59321	3.7586296	ppbv		97
50) 1,2-Dichloroethane	8.076	62	21243	3.5755897	ppbv		96
51) Heptane	8.058	43	30423	3.4574178	ppbv		99
52) Trichloroethene	8.587	95	29186	3.7225714	ppbv		93
53) TERT-AMYL ETHYL ETHER	8.648	73	18995	3.5609249	ppbv		97
54) METHYL CYCLOHEXANE	8.739	83	36977	3.4884483	ppbv		96
55) 1,2-Dichloropropane	8.849	63	23500	3.5286975	ppbv		98
56) Methyl Methacrylate	8.775	41	23799	3.3659741	ppbv	#	65
57) 1,4-Dioxane	8.909	88	14319	4.2569075	ppbv		98
58) Bromodichloromethane	9.068	83	45948	3.7377044	ppbv		99
59) cis-1,3-Dichloropropene	9.493	75	37685	3.5681394	ppbv		95
60) 4-Methyl-2-Pentanone (...	9.566	43	43285	3.7832726	ppbv		98
61) n-OCTANE	9.712	43	45277	3.2714575	ppbv		96
62) Toluene	9.816	91	74424	3.6214706	ppbv		98
63) trans-1,3-Dichloropropene	10.053	75	32624	3.5279025	ppbv		95
64) 1,1,2-Trichloroethane	10.266	97	28863	3.7526467	ppbv		98
65) Tetrachloroethene	10.394	166	42378	4.1326185	ppbv		94
66) Methyl Butyl Ketone	10.424	43	41066	3.8997626	ppbv		98
67) Chlorodibromomethane	10.716	129	57224	3.9829582	ppbv		99
68) 1,2-Dibromoethane	10.905	107	48175	3.8814842	ppbv		100
69) Chlorobenzene	11.379	112	59150	3.8942706	ppbv		94
70) NONANE	11.349	43	48772	3.3292798	ppbv		98
72) Ethylbenzene	11.404	91	91588	3.8372728	ppbv		99
73) M&P-Xylene	11.531	91	140406	7.5062638	ppbv		97
74) O-Xylene	12.000	91	71078	3.6026852	ppbv		98
77) Styrene	12.018	104	60768	3.8481297	ppbv		96
78) Bromoform	12.322	173	57976	4.1814901	ppbv		99
79) Isopropylbenzene	12.371	105	99804	3.7285357	ppbv		98
80) n-DECANE	12.809	43	42773	3.4229941	ppbv		96
81) 1,1,2,2-Tetrachloroethane	12.742	83	59733	3.7465505	ppbv		99
82) n-Propylbenzene	12.803	91	118234	3.9167673	ppbv		97
83) 4-Ethyltoluene	12.906	105	92814	3.7442153	ppbv		99
84) 2-Chlorotoluene	12.961	126	25151	3.9672354	ppbv		90
86) 1,3,5-Trimethylbenzene	12.955	105	77136	3.7767853	ppbv		97
87) Tert-Butylbenzene	13.259	119	72942	3.8608614	ppbv		96
88) 1,2,4-Trimethylbenzene	13.308	105	74886	3.7558509	ppbv		98
89) sec-Butylbenzene	13.551	134	22643	3.9227340	ppbv		92
90) 1,3-Dichlorobenzene	13.630	146	52845	4.2883016	ppbv		94
91) P-ISOPROPYLTOLUENE	13.551	119	88730	3.8265565	ppbv		98
92) 1,4-Dichlorobenzene	13.709	146	50990	4.4448915	ppbv		94
93) 1,2,3-TRIMETHYLBENZENE	13.697	105	73497	3.7895918	ppbv		98
94) Benzyl Chloride	13.813	91	51912	3.7963351	ppbv		97
95) n-Butylbenzene	13.904	91	81785	3.7291919	ppbv		99
96) 1,2-Dichlorobenzene	14.044	146	51747	4.2502091	ppbv		97
97) 1,2-DIBROMO-3-CHLOROPR...	14.750	157	24861	4.2160312	ppbv		94
98) 1,2,4-Trichlorobenzene	15.522	180	22356	4.2473133	ppbv		98
99) Hexachloro-1,3-Butadiene	15.595	225	47316	4.3573939	ppbv		97
100) Naphthalene	15.808	128	49163	3.7060251	ppbv		98
101) TPH (GC/MS) Low Fraction	10.000	TIC	7261363m	195.9938238	ppbv		
102) TPH-GRO (C5-C10)	10.000	TIC	8508688m	272.1302585	ppbv		

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 12:04 pm
Operator :
Sample : LCSD 1x WG1980894
Misc :
ALS Vial : 3 Sample Multiplier: 1

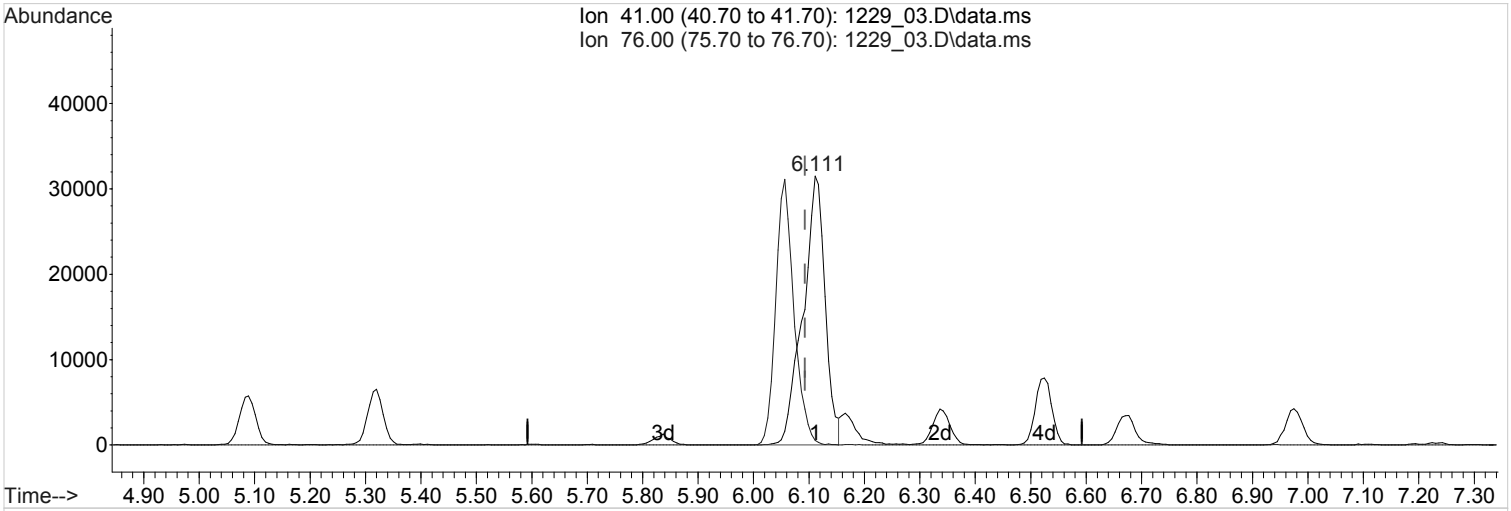
Quant Time: Dec 29 12:25:50 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration

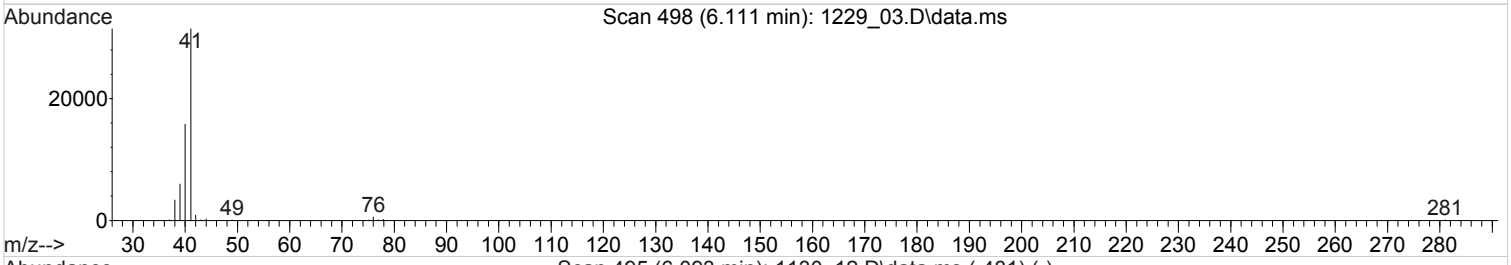


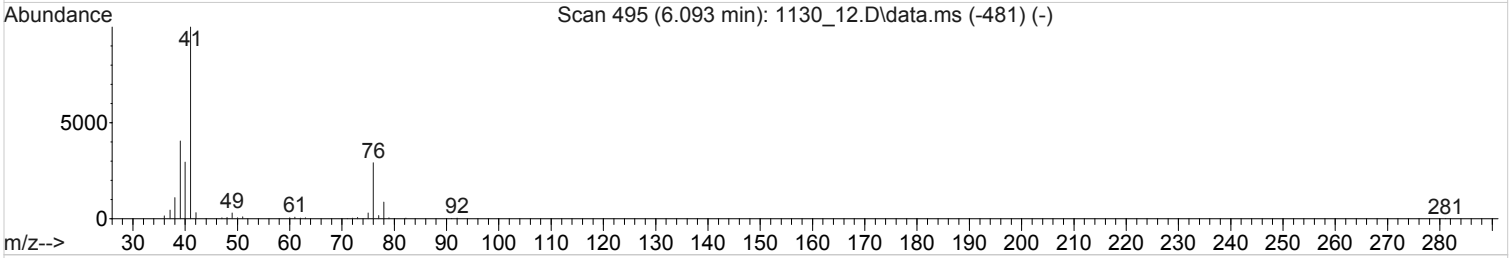
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 12:04 pm
Operator :
Sample : LCSD 1x WG1980247
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 12:25:20 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_03.D\data.ms

(25) Allyl Chloride (T,M)

6.111min (+0.018) 13.8085607 ppbv

Qvalue = 1

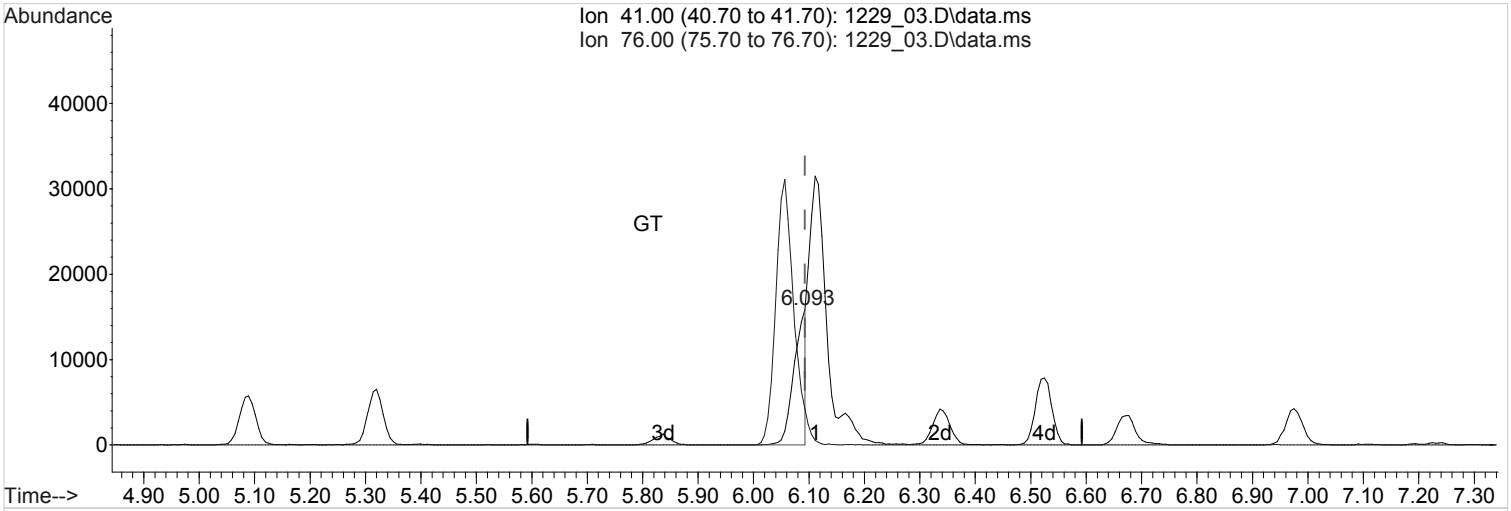
response 87346

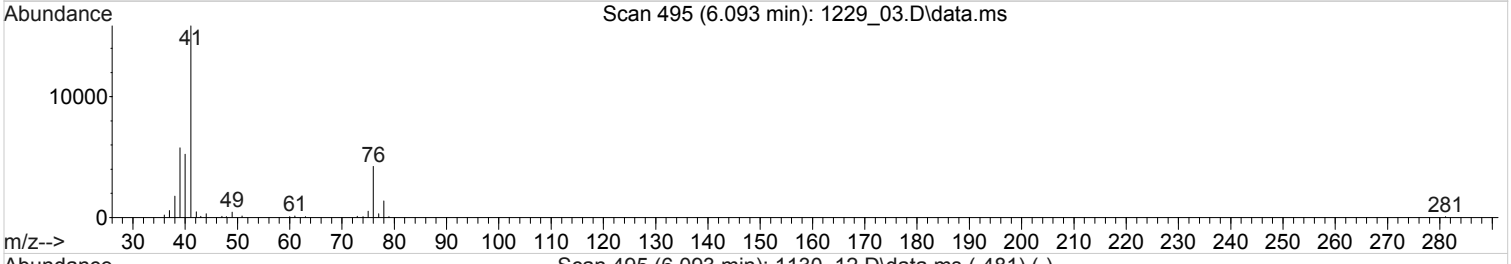
Ion	Exp%	Act%
41.00	100	100
76.00	292.30	81.52#
0.00	0.00	0.00
0.00	0.00	0.00

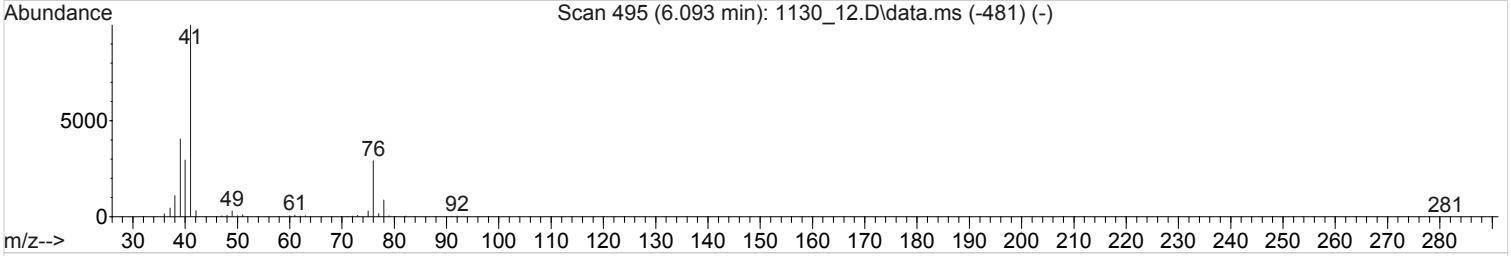
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 12:04 pm
Operator :
Sample : LCSD 1x WG1980247
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 12:25:20 2022
Quant Method : C:\msdchem\1\methods\TOAIRMS4K30V.m
Quant Title : AIRMS4
QLast Update : Thu Dec 01 08:21:50 2022
Response via : Initial Calibration







TIC: 1229_03.D\data.ms

(25) Allyl Chloride (T,M)

6.093min (+0.000) 3.7940106 ppbv m

response 23999

Ion	Exp%	Act%
41.00	100	100
76.00	292.30	296.71
0.00	0.00	0.00
0.00	0.00	0.00

TO-15 Air VOCs Benchsheet

Batch: WG1980894

Analyst: CEP3540 **SOP:** ENV-SOP-MTJL-0104 **Method:** EPA TO-15

ICV, LCS/D Std: 22L20089 Amt. Used: 300 cc Exp. Date:05/05/23 **Internal Standard/Surrogate:** 22L20093 Amt. Used: 50 cc Exp. Date:06/12/23
High Standard: 22J25945 Amt. Used: 800 cc Exp. Date:04/25/23

Sample Number	Reference Volume (mL)	Analytical Dilution	Sample Vol Used (mL)	Prep Factor	Prep Ratio	Collection Date	Spike Factor	Surrogate Factor	Review Analyst	Review Date
BLANK	200	1	200	1	1		1	1	CEP3540	12/29/22 12:56:37
LCS	300	1	300	1	1		1	1	CEP3540	12/29/22 12:56:37
LCSD	300	1	300	1	1		1	1	CEP3540	12/29/22 12:56:37
1. L1570570-01	200	1	200	1	1	12/21/22 10:30	1	1	CEP3540	12/29/22 12:56:37
2. L1570570-02	200	1	200	1	1	12/21/22 08:15	1	1	CEP3540	12/29/22 12:56:37
3. L1570570-03	200	1	200	1	1	12/21/22 08:22	1	1	CEP3540	12/29/22 12:56:37
4. L1570570-04	200	1	200	1	1	12/21/22 08:30	1	1	CEP3540	12/29/22 12:56:37
5. L1570570-05	200	1	200	1	1	12/22/22 09:00	1	1	CEP3540	12/29/22 12:56:37
6. L1570570-06	200	1	200	1	1	12/22/22 08:45	1	1	CEP3540	12/29/22 12:56:37
7. L1570570-07	200	1	200	1	1	12/22/22 08:45	1	1	CEP3540	12/29/22 12:56:37
8. L1570570-08	200	1	200	1	1	12/22/22 08:50	1	1	CEP3540	12/29/22 12:56:37
9. L1570570-09	200	1	200	1	1	12/22/22 08:35	1	1	CEP3540	12/29/22 12:56:37
10. L1570581-01	200	1	200	1	1	12/21/22 15:05	1	1	CEP3540	12/29/22 12:56:37
11. L1570581-02	200	1	200	1	1	12/21/22 15:45	1	1	CEP3540	12/29/22 12:56:37
12. L1570581-03	200	1	200	1	1	12/21/22 15:45	1	1	CEP3540	12/29/22 12:56:37
13. L1570581-04	200	1	200	1	1	12/21/22 15:35	1	1	CEP3540	12/29/22 12:56:37
14. L1570581-05	200	1	200	1	1	12/21/22 16:00	1	1	CEP3540	12/29/22 12:56:37
15. L1570581-06	200	1	200	1	1	12/21/22 16:15	1	1	CEP3540	12/29/22 12:56:37
16. L1570581-07	200	1	200	1	1	12/21/22 16:20	1	1	CEP3540	12/29/22 12:56:37
17. L1570581-08	200	1	200	1	1	12/21/22 16:25	1	1	CEP3540	12/29/22 12:56:37
18. L1570581-09	200	1	200	1	1	12/21/22 14:55	1	1	CEP3540	12/29/22 12:56:37

Comments:

Reviewed By:CEP3540 on 12/29/22 12:56:37

TO-15-SIM Volatile Organic Compounds (MS)

SURROGATE RECOVERY

Analytical Method: TO-15-SIM **SDG:** L1570581
Matrix: Air

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 *% Rec.*	TOT Out
785-IA-1_1222	L1570581-10	AIRMS7	1229_16	109	0
786-IA-1_1222	L1570581-11	AIRMS7	1229_17	100	0
BLANK	R3876557-3	AIRMS7	1229_05	93.0	0
LCS	R3876557-1	AIRMS7	1229_03	100	0
LCSD	R3876557-2	AIRMS7	1229_04	100	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	1,4-Bromofluorobenzene	60.0 - 140

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1570581-10,11

SAMPLE NO.:
R3876557-1
R3876557-2

LCS Sample / File ID:	R3876557-1 / 1229_03	**SDG:**	L1570581
LCSD Sample / File ID:	R3876557-2 / 1229_04	**Analytical Batch:**	WG1980882
Instrument ID:	AIRMS7	**Dilution Factor:**	1
Analytical Method:	TO-15-SIM	**Matrix:**	Air

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ppbv	*ppbv*	*ppbv*	*%*	*%*	*%*	*%*	*%*
Benzene	0.500	0.561	0.564	112	113	69.0 - 119	0.533	20
Carbon tetrachloride	0.500	0.489	0.472	97.8	94.4	68.0 - 132	3.54	20
1,1-Dichloroethene	0.500	0.457	0.466	91.4	93.2	61.0 - 133	1.95	20
cis-1,2-Dichloroethene	0.500	0.476	0.488	95.2	97.6	70.0 - 121	2.49	20
Tetrachloroethylene	0.500	0.481	0.480	96.2	96.0	66.0 - 124	0.208	20
1,1,1-Trichloroethane	0.500	0.474	0.476	94.8	95.2	68.0 - 125	0.421	20
Trichloroethylene	0.500	0.453	0.453	90.6	90.6	71.0 - 123	0.000	20
Vinyl chloride	0.500	0.440	0.451	88.0	90.2	64.0 - 127	2.47	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Lab Sample ID:	R3876557-3	**SDG:**	L1570581
Lab File ID:	1229_05	**Preparation Date/Time:**	12/29/22 11:49
Instrument ID:	AIRMS7	**Analysis Date/Time:**	12/29/22 11:49
Analytical Batch:	WG1980882	**Dilution Factor:**	1
Analytical Method:	TO-15-SIM	**Matrix:**	Air

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3876557-1	AIRMS7	1229_03	12/29/22 10:24
LCSD	R3876557-2	AIRMS7	1229_04	12/29/22 11:10
785-IA-1_1222	L1570581-10	AIRMS7	1229_16	12/29/22 19:15
786-IA-1_1222	L1570581-11	AIRMS7	1229_17	12/29/22 19:54

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	1222A_01	**SDG:**	L1570581
Instrument ID:	AIRMS7	**Analytical Method:**	TO-15-SIM
Analysis Date/Time:	12/22/22 16:43		

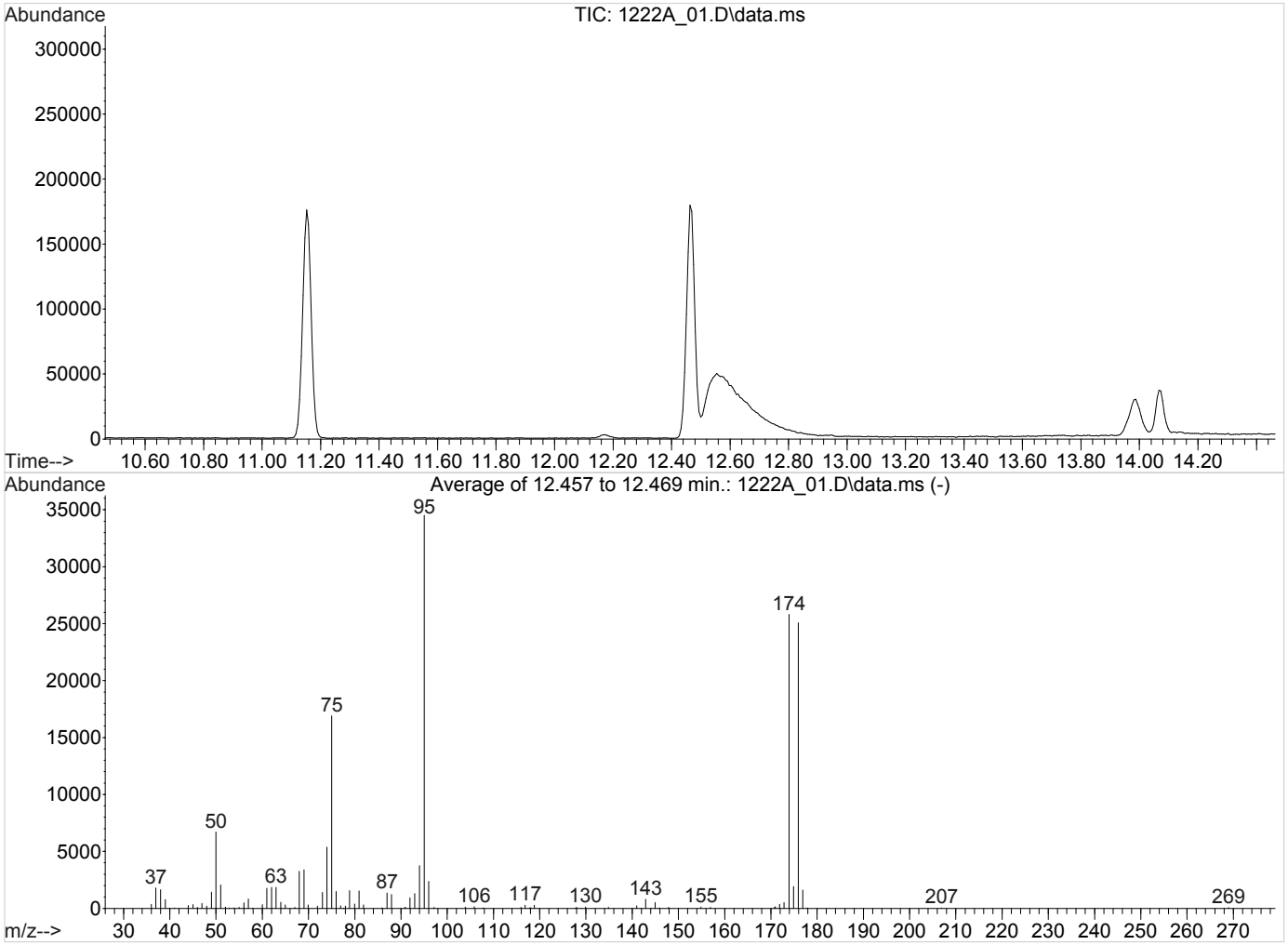
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	20
75	95	30	66	49
95	95	100	100	100
96	95	5	9	7
173	174	0	2	2
174	95	50	120	75
175	174	4	9	7
176	174	93	101	97
177	176	5	9	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-0.02	0.02	1222A_04	12/22/22 18:41
STD-0.03	0.03	1222A_05	12/22/22 19:20
STD-0.06	0.06	1222A_06	12/22/22 19:58
STD-0.13	0.13	1222A_07	12/22/22 20:35
STD-0.25	0.25	1222A_08	12/22/22 21:15
STD-0.38	0.38	1222A_09	12/22/22 21:55
STD-0.5	0.5	1222A_10	12/22/22 22:37
STD-1.0	1.0	1222A_11	12/22/22 23:14
STD-5.0	5.0	1222A_12	12/22/22 23:56
STD-10.0	10.0	1222A_13	12/23/22 00:43
SSCV	AIRMS7122222A1222A_15609226	1222A_15	12/23/22 01:59

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_01.D
Acq On : 22 Dec 2022 4:43 pm
Operator :
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\TOSIMMS7L14AV.M
Title : AIRMS5
Last Update : Thu Dec 15 08:32:34 2022



Spectrum Information: Average of 12.457 to 12.469 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.5	6717	PASS
75	95	30	66	49.0	16902	PASS
95	95	100	100	100.0	34523	PASS
96	95	5	9	6.8	2354	PASS
173	174	0.00	2	2.0	511	PASS
174	95	50	120	74.7	25803	PASS
175	174	4	9	7.4	1912	PASS
176	174	93	101	97.2	25077	PASS
177	176	5	9	6.4	1606	PASS

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	1229_02T	**SDG:**	L1570581
Instrument ID:	AIRMS7	**Analytical Method:**	TO-15-SIM
Analysis Date/Time:	12/29/22 09:38		

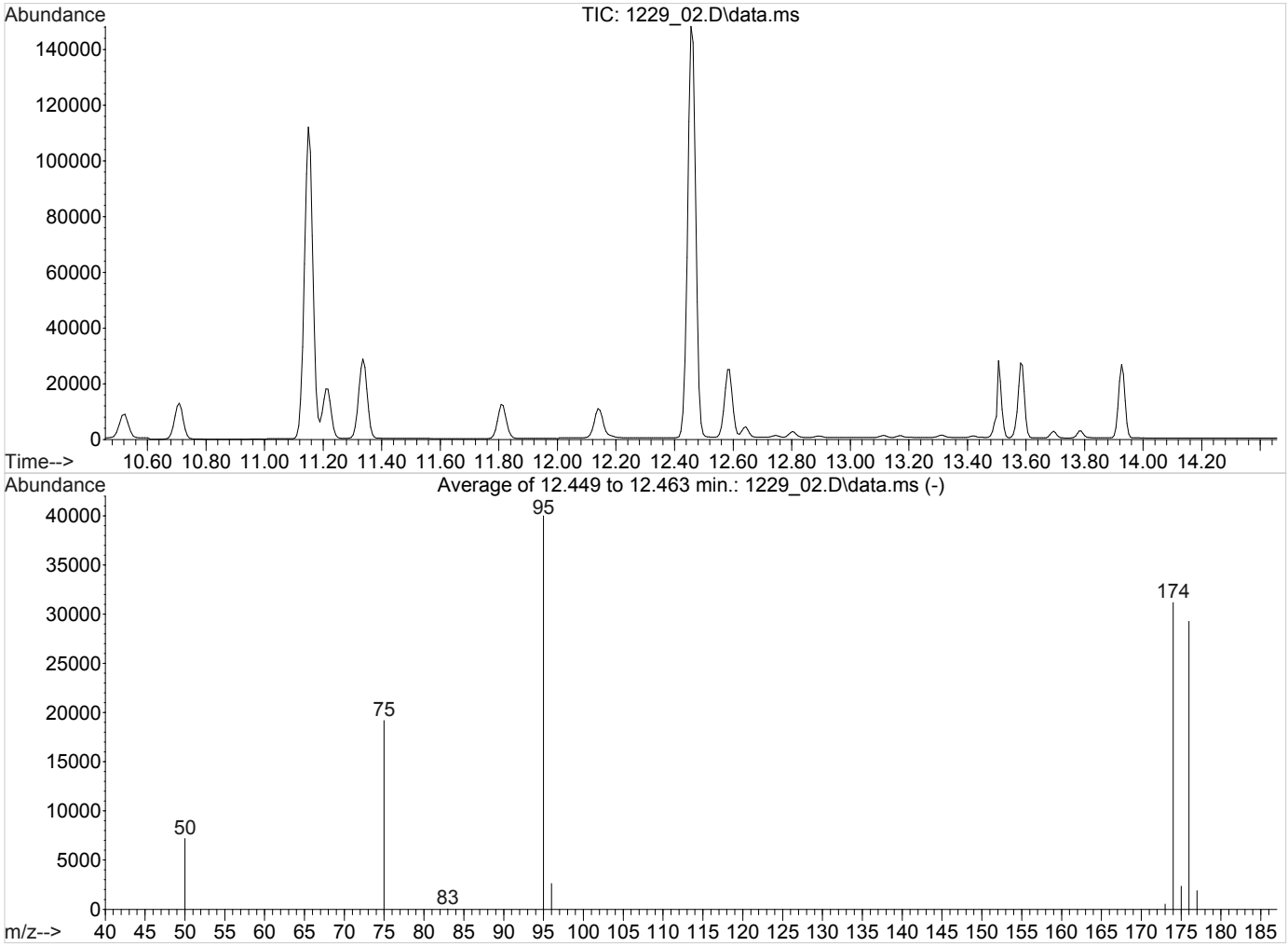
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	18
75	95	30	66	48
95	95	100	100	100
96	95	5	9	7
173	174	0	2	2
174	95	50	120	78
175	174	4	9	8
176	174	93	101	94
177	176	5	9	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	AIRMS71229221229_02609226	1229_02	12/29/22 09:38
LCS	R3876557-1	1229_03	12/29/22 10:24
LCSD	R3876557-2	1229_04	12/29/22 11:10
BLANK	R3876557-3	1229_05	12/29/22 11:49
785-IA-1_1222	L1570581-10	1229_16	12/29/22 19:15
786-IA-1_1222	L1570581-11	1229_17	12/29/22 19:54
CCV	AIRMS71229221229_26609226	1229_26	12/30/22 01:58

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_02.D
Acq On : 29 Dec 2022 9:38 am
Operator :
Sample : ICV AMS 0.5 ppbv
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
Title : AIRMS5
Last Update : Fri Dec 23 09:26:44 2022



Spectrum Information: Average of 12.449 to 12.463 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.0	7206	PASS
75	95	30	66	48.0	19197	PASS
95	95	100	100	100.0	40010	PASS
96	95	5	9	6.6	2636	PASS
173	174	0.00	2	1.7	542	PASS
174	95	50	120	78.0	31196	PASS
175	174	4	9	7.5	2336	PASS
176	174	93	101	93.8	29263	PASS
177	176	5	9	6.5	1906	PASS

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1570581	**Analytical Method:**	TO-15-SIM
Instrument ID:	AIRMS7	**Calibration Start Date:**	12/22/22 18:41
Std File:	1229_02	**Calibration End Date:**	12/23/22 00:43
		Std Analysis Date:	12/29/22 09:38

Sample ID	File ID	DFB		BCM		CB	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		135009	8.09	38192	7.28	126424	11.15
UPPER LIMIT		192014		53869		181996	
LOWER LIMIT		82292		23087		77998	
LCS R3876557-1 WG1980882 1x	1229_03	137863	8.09	38329	7.28	127508	11.15
LCSD R3876557-2 WG1980882 1x	1229_04	137133	8.09	38176	7.28	128561	11.15
BLANK R3876557-3 WG1980882 1x	1229_05	108902	8.09	33241	7.28	98225	11.16
L1570581-10 WG1980882 1x	1229_16	124139	8.09	34164	7.28	120873	11.15
L1570581-11 WG1980882 1x	1229_17	113670	8.09	33560	7.28	107301	11.15

DFB - 1,4-DIFLUOROBENZENE BCM - BROMOCHLOROMETHANE
CB - CHLOROBENZENE-D5

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570581-10	**SDG:**	L1570581
Client Sample ID:	785-IA-1_1222	**Collected Date/Time:**	12/21/22 15:30
Lab File ID:	1229_16	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS7	**Preparation Date/Time:**	12/29/22 19:15
Analytical Batch:	WG1980882	**Analysis Date/Time:**	12/29/22 19:15
Dilution Factor:	1	**Prep Method:**	TO-15-SIM
Analytical Method:	TO-15-SIM	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Benzene	71-43-2	7.80	4.34		0.0358	0.0799	0.160
Carbon tetrachloride	56-23-5	7.59	0.535		0.0627	0.126	0.252
1,1-Dichloroethene	75-35-4	0	0.0753	U	0.0365	0.0753	0.159
cis-1,2-Dichloroethene	156-59-2	0	0.119	U	0.0563	0.119	0.238
Tetrachloroethylene	127-18-4	10.19	0.382	J	0.0862	0.204	0.407
1,1,1-Trichloroethane	71-55-6	0	0.103	U	0.0353	0.103	0.218
Trichloroethylene	79-01-6	8.36	14.8		0.0400	0.102	0.214
Vinyl chloride	75-01-4	0	0.0486	U	0.0196	0.0486	0.102

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_16.D
Acq On : 29 Dec 2022 7:15 pm
Operator :
Sample : L1570581-10 1x WG1980882
Misc :
ALS Vial : 16 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:28:03 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

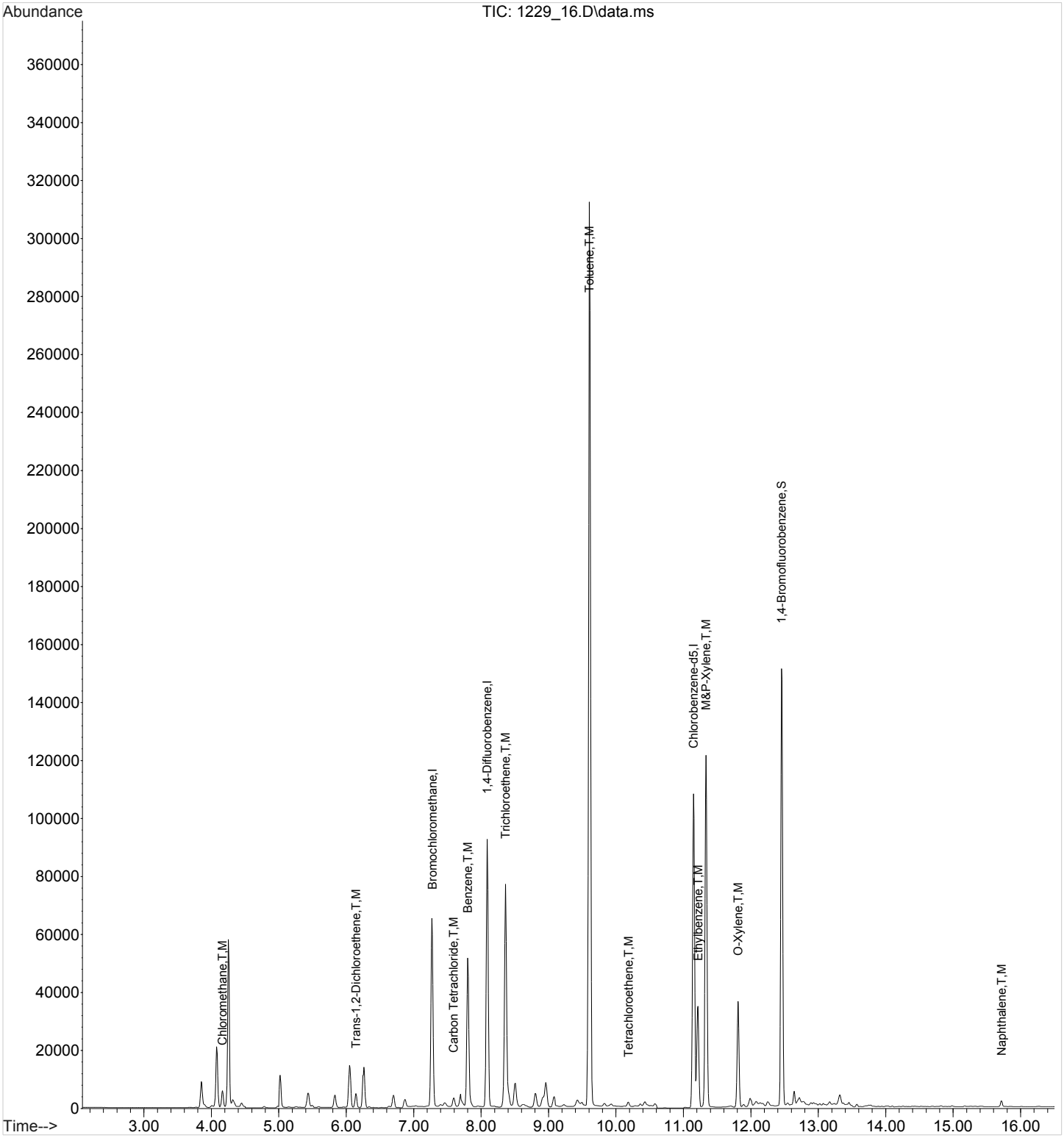
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	34164	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	124139	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	120873	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	85944	1.3664150	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 109.31%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	8151	0.5245634	ppbv	100
3) Vinyl Chloride	0.000		0	N.D.		
4) 1,3-Butadiene	0.000		0	N.D. d		
5) Chloroethane	0.000		0	N.D.		
6) 1,1-Dichloroethene	0.000		0	N.D.		
7) Methyl Tert-Butyl Ether	0.000		0	N.D. d		
8) Trans-1,2-Dichloroethene	6.144	61	3932	0.1641304	ppbv #	29
9) 1,1-Dichloroethane	0.000		0	N.D.		
10) Vinyl Acetate	0.000		0	N.D. d		
11) cis-1,2-Dichloroethene	0.000		0	N.D. d		
12) Chloroform	0.000		0	N.D. d		
13) 1,1,1-Trichloroethane	0.000		0	N.D.		
14) Carbon Tetrachloride	7.592	117	2634	0.0850256	ppbv	99
15) 1,2-Dichloroethane	0.000		0	N.D. d		
17) Benzene	7.801	78	70801	1.3559357	ppbv	96
18) Trichloroethene	8.362	95	55550	2.7690997	ppbv	99
19) 1,2-Dichloropropane	0.000		0	N.D. d		
20) Bromodichloromethane	0.000		0	N.D. d		
21) cis-1,3-Dichloropropene	0.000		0	N.D.		
22) Toluene	9.606	91	376336	8.2568725	ppbv	98
23) trans-1,3-Dichloropropene	0.000		0	N.D.		
24) 1,1,2-Trichloroethane	0.000		0	N.D. d		
25) Tetrachloroethene	10.185	166	1265	0.0563085	ppbv	99
26) 1,2-Dibromoethane	0.000		0	N.D. d		
28) Ethylbenzene	11.216	91	52426	0.9742493	ppbv	99
29) M&P-Xylene	11.336	91	157825	4.0491704	ppbv	99
30) O-Xylene	11.808	91	49651	1.3969707	ppbv	98
31) 1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
33) 1,4-Dichlorobenzene	0.000		0	N.D.		
34) Naphthalene	15.718	128	3110	0.0671520	ppbv #	94

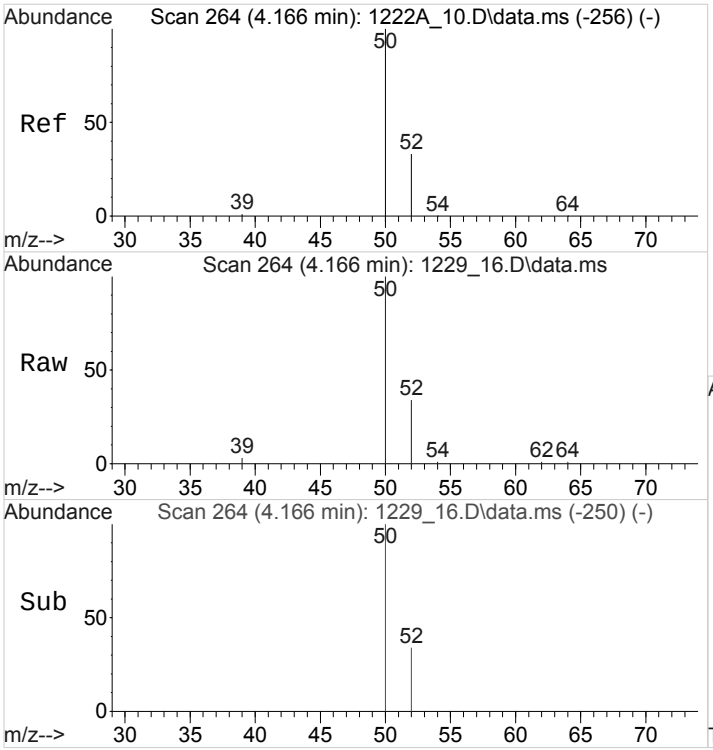
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_16.D
Acq On : 29 Dec 2022 7:15 pm
Operator :
Sample : L1570581-10 1x WG1980882
Misc :
ALS Vial : 16 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:28:03 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

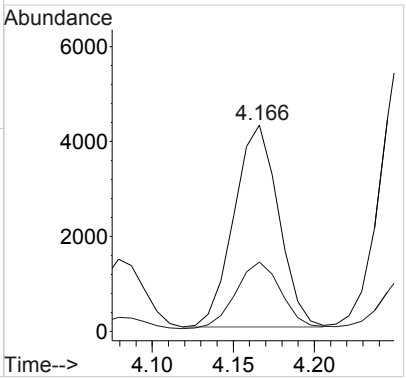


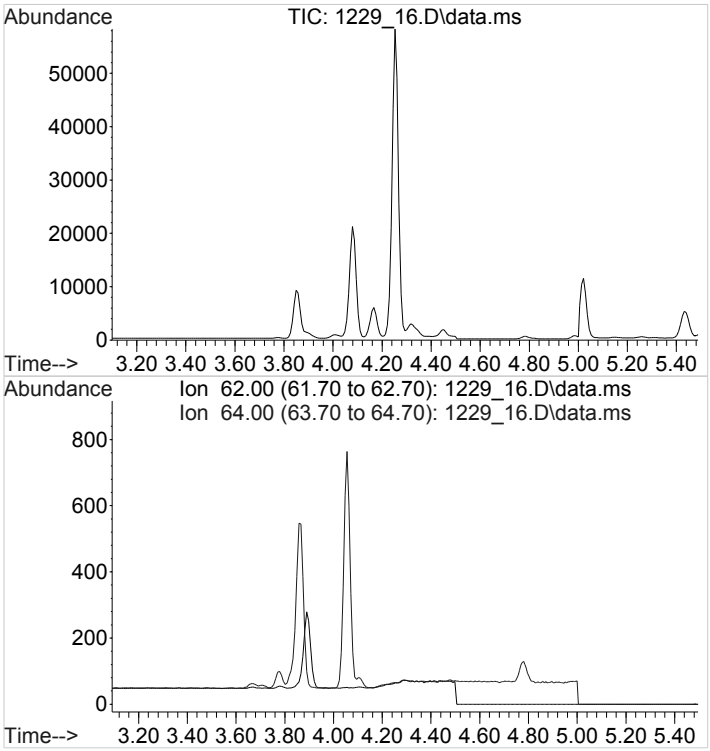


#2
Chloromethane
Concen: 0.5245634 ppbv
RT: 4.166 min Scan# 264
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 50 Resp: 8151

Ion	Ratio	Lower	Upper
50	100		
52	33.6	26.6	40.0



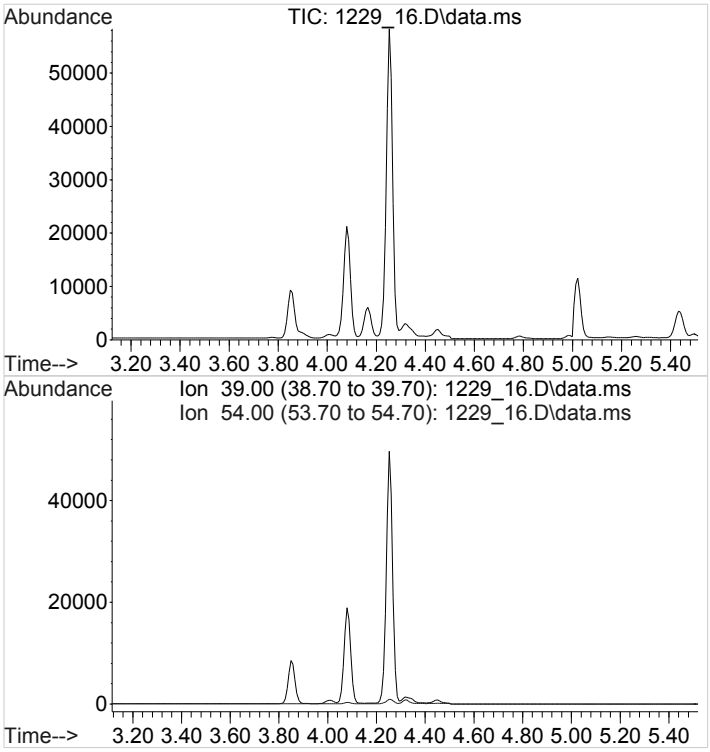


#3
Vinyl Chloride
Concen: N.D.
Expected RT: 4.29 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 62

Sig	Exp Ratio
62	100
64	33.3

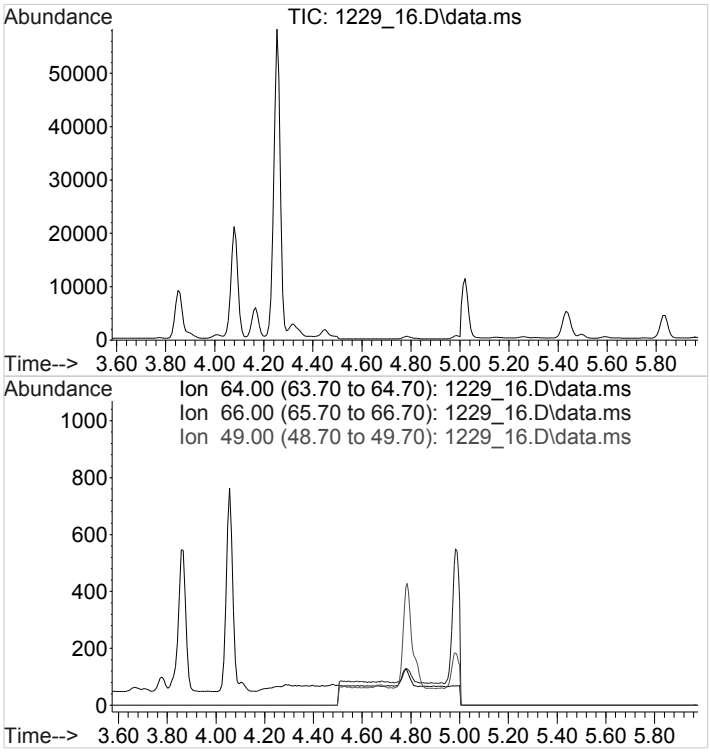


#4
1,3-Butadiene
Concen: N.D.
Expected RT: 4.32 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 39

Sig	Exp Ratio
39	100
54	90.3



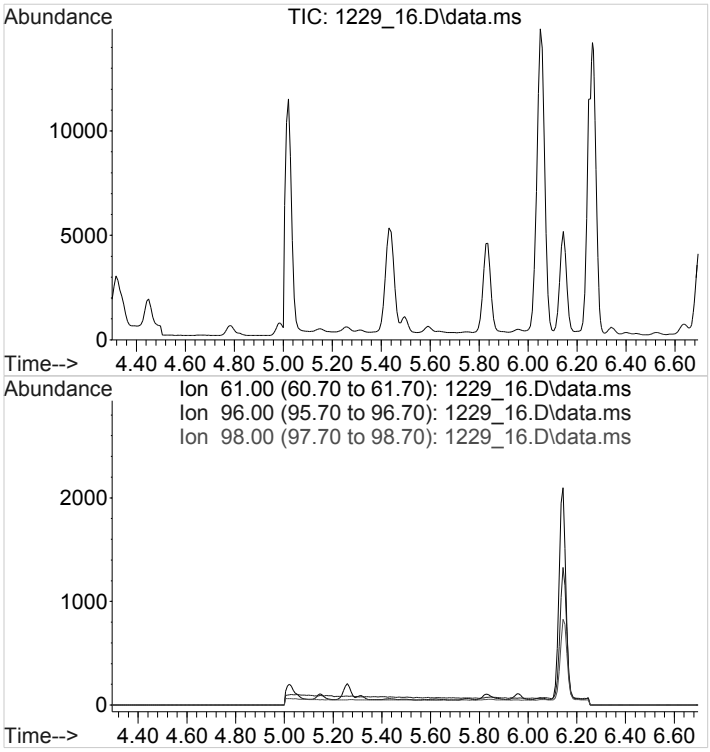
#5
Chloroethane
Concen: N.D.
Expected RT: 4.77 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 64

Sig	Exp Ratio
64	100
66	32.2
49	33.8

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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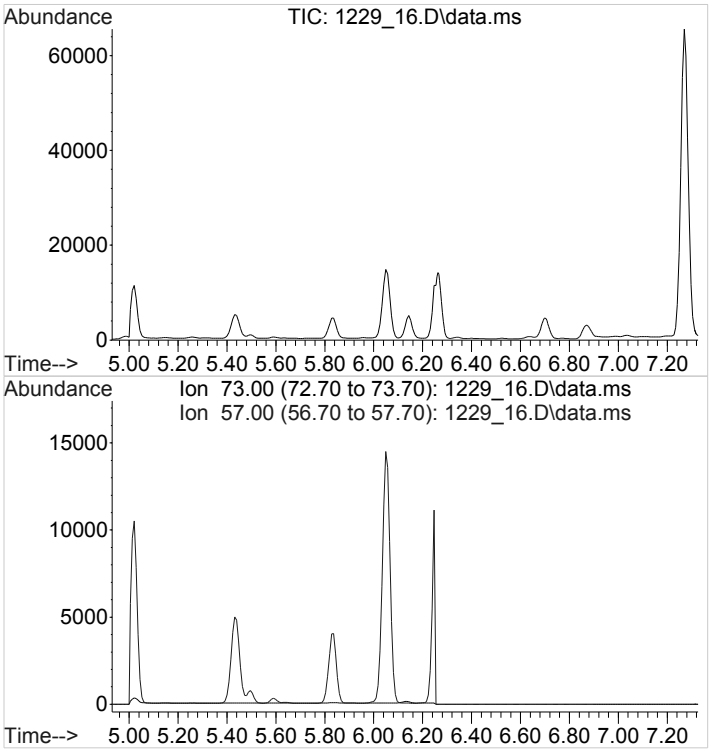


#6
1,1-Dichloroethene
Concen: N.D.
Expected RT: 5.50 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 61

Sig	Exp Ratio
61	100
96	54.0
98	34.4



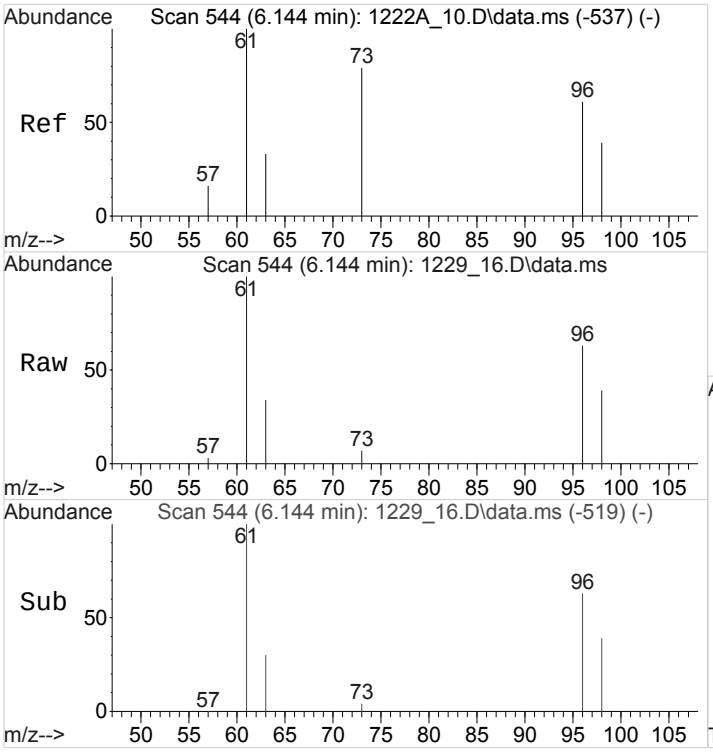
#7
Methyl Tert-Butyl Ether
Concen: N.D.
Expected RT: 6.13 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 73

Sig	Exp Ratio
73	100
57	27.3

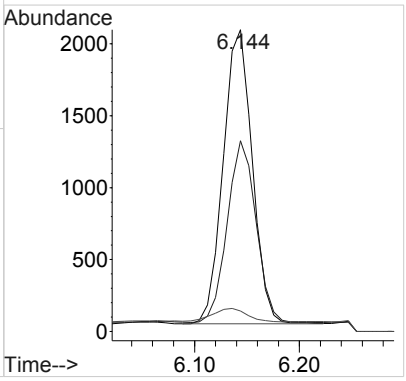
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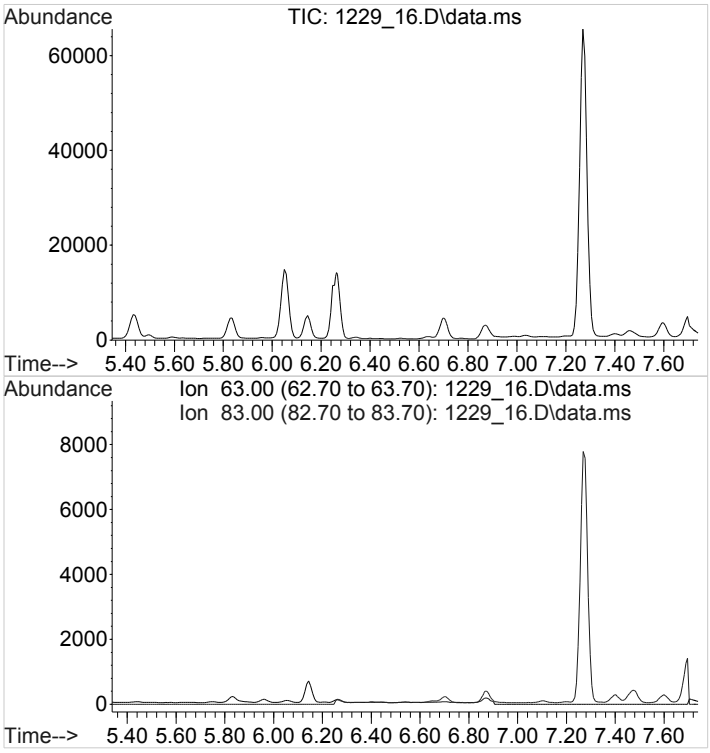


#8
Trans-1,2-Dichloroethene
Concen: 0.1641304 ppbv
RT: 6.144 min Scan# 544
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 61 Resp: 3932

Ion	Ratio	Lower	Upper
61	100		
96	61.1	48.6	72.8
73	5.2	99.4	149.2#





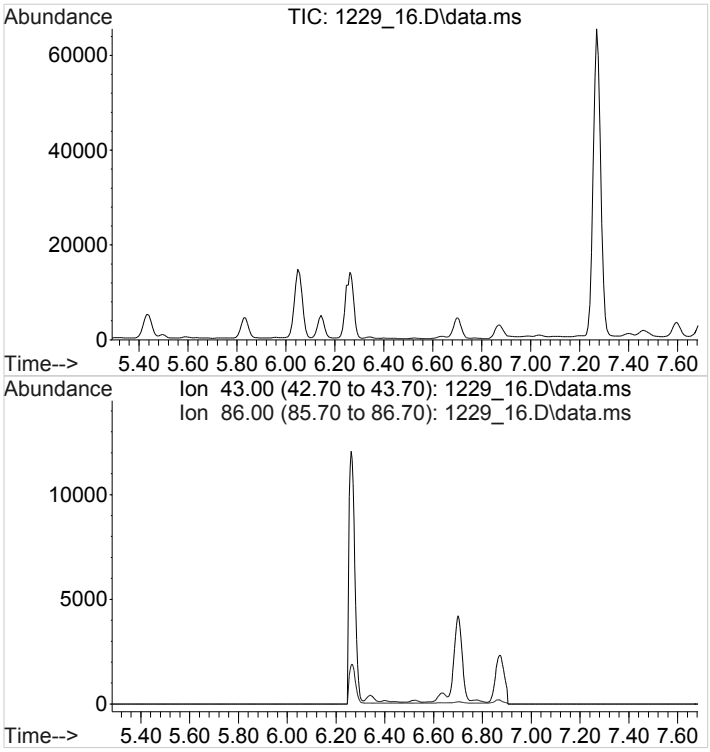
#9
1,1-Dichloroethane
Concen: N.D.
Expected RT: 6.54 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
83	11.9

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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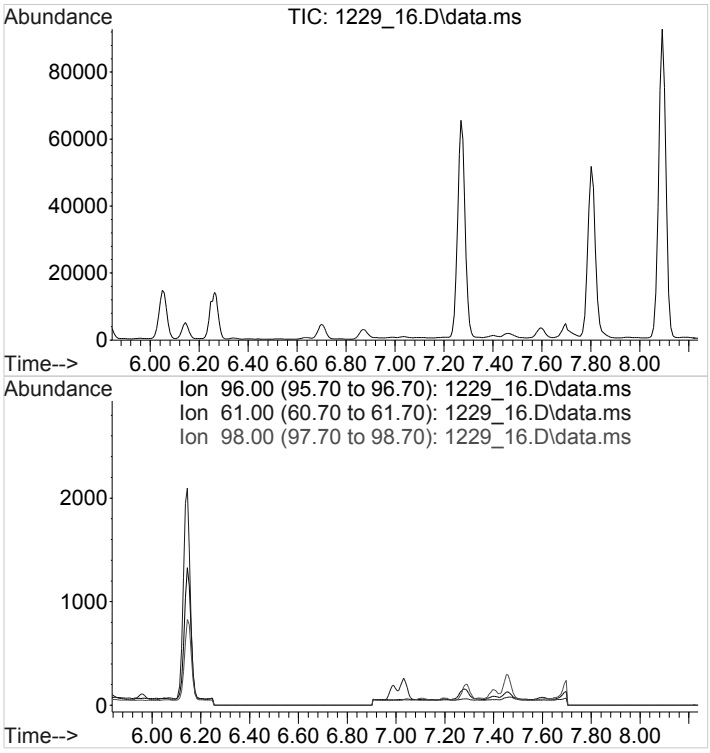


#10
Vinyl Acetate
Concen: N.D.
Expected RT: 6.48 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 43

Sig	Exp Ratio
43	100
86	4.0



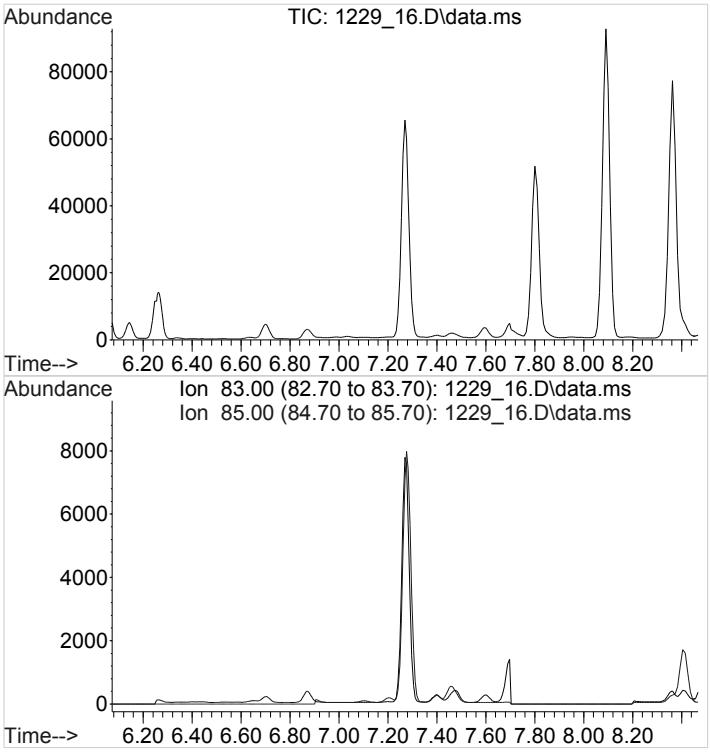
#11
cis-1,2-Dichloroethene
Concen: N.D.
Expected RT: 7.04 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 96

Sig	Exp Ratio
96	100
61	153.8
98	64.1

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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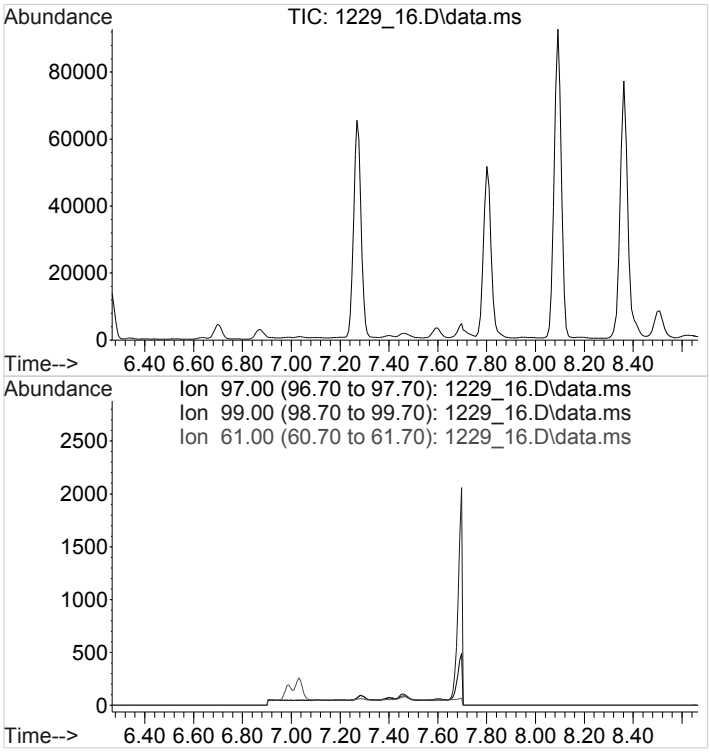


#12
Chloroform
Concen: N.D.
Expected RT: 7.27 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	64.1



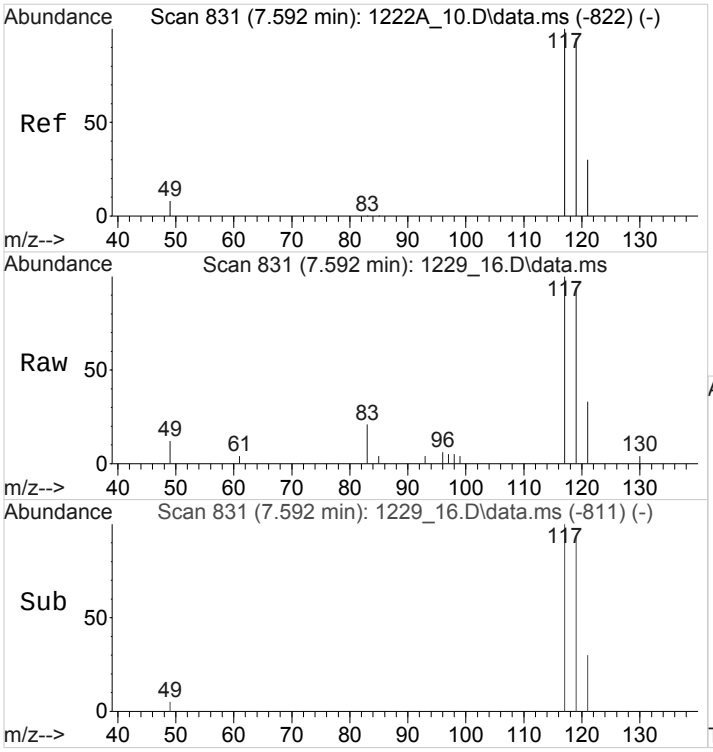
#13
1,1,1-Trichloroethane
Concen: N.D.
Expected RT: 7.47 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 97

Sig	Exp Ratio
97	100
99	63.8
61	50.4

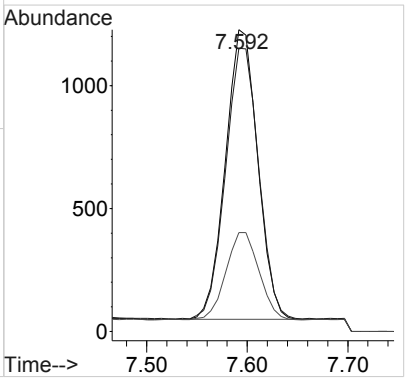
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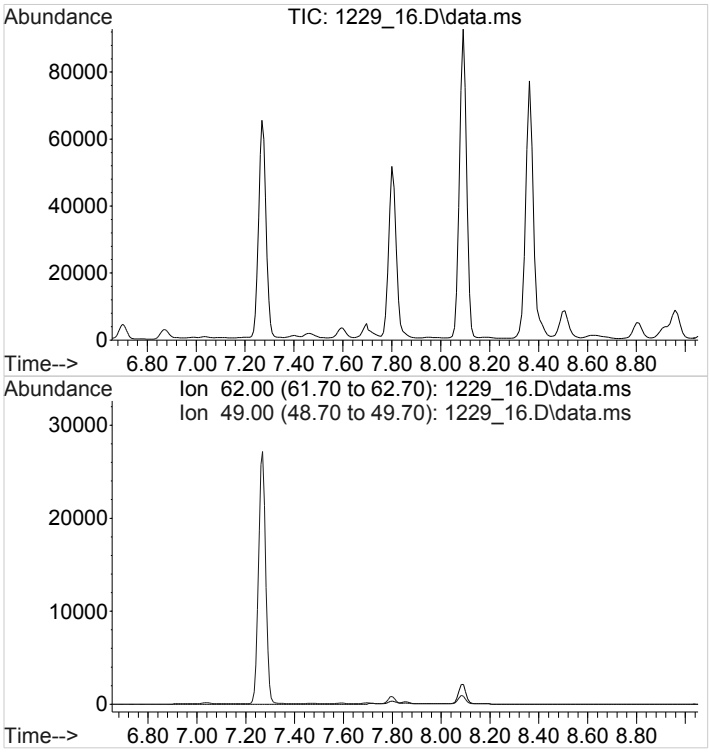


#14
Carbon Tetrachloride
Concen: 0.0850256 ppbv
RT: 7.592 min Scan# 831
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion:117 Resp: 2634

Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.7	115.1
121	30.9	27.0	40.4





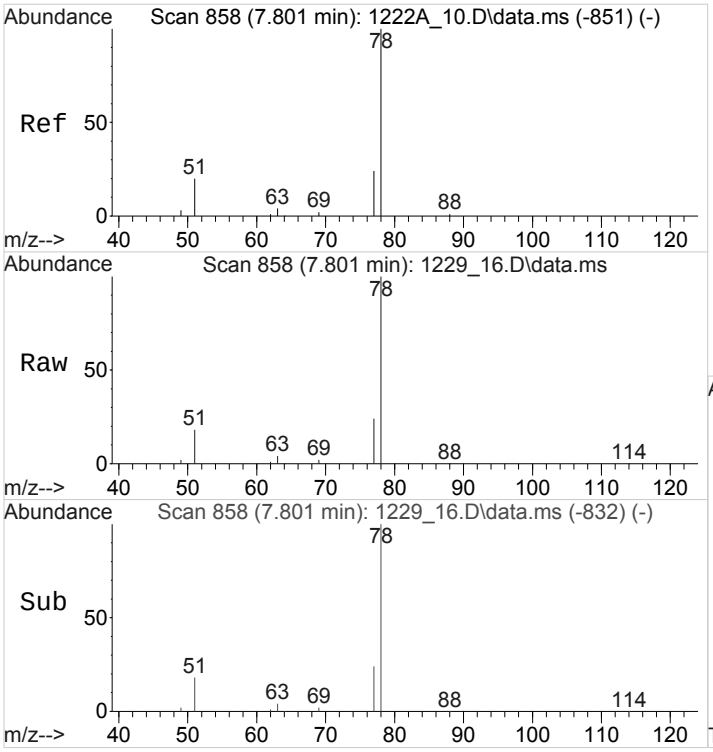
#15
1,2-Dichloroethane
Concen: N.D.
Expected RT: 7.85 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 62

Sig	Exp Ratio
62	100
49	28.0

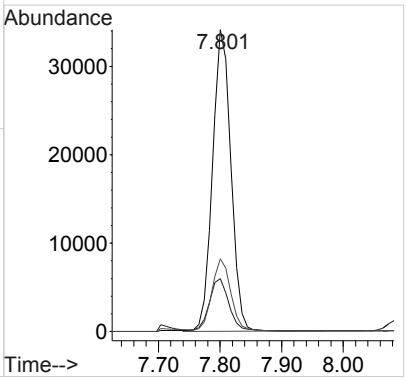
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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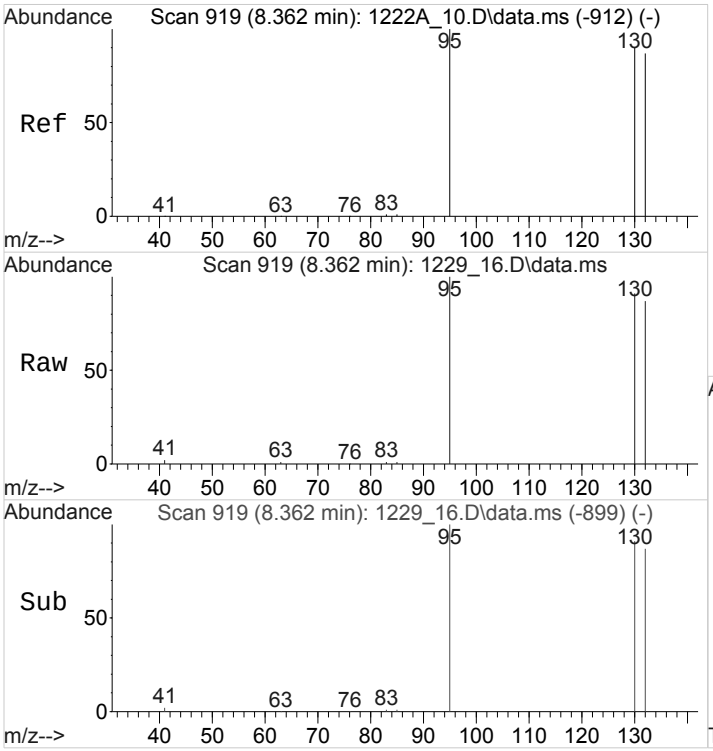


#17
Benzene
Concen: 1.3559357 ppbv
RT: 7.801 min Scan# 858
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 78 Resp: 70801

Ion	Ratio	Lower	Upper
78	100		
51	18.7	17.5	26.3
77	24.8	20.2	30.4

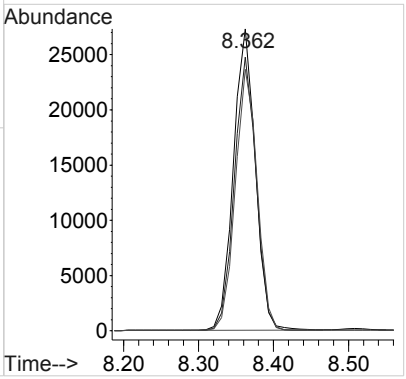




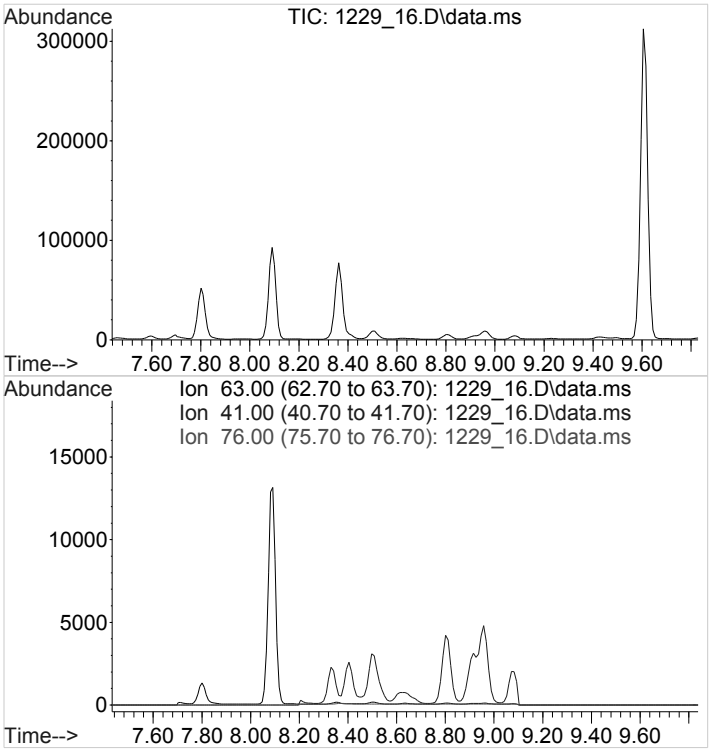
#18
Trichloroethene
Concen: 2.7690997 ppbv
RT: 8.362 min Scan# 919
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 95 Resp: 55550

Ion	Ratio	Lower	Upper
95	100		
130	89.8	73.0	109.4
132	86.4	69.8	104.8



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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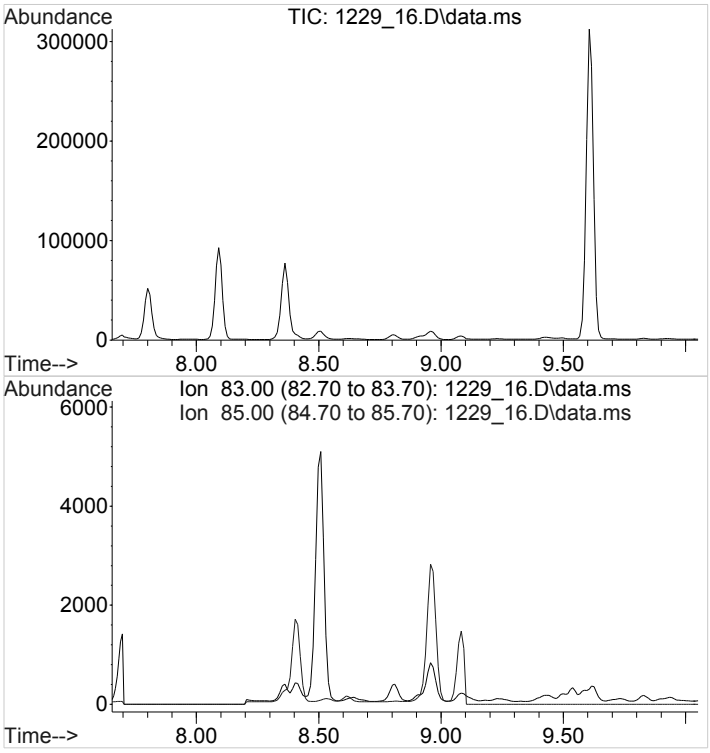


#19
1,2-Dichloropropane
Concen: N.D.
Expected RT: 8.63 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
41	52.4
76	34.1



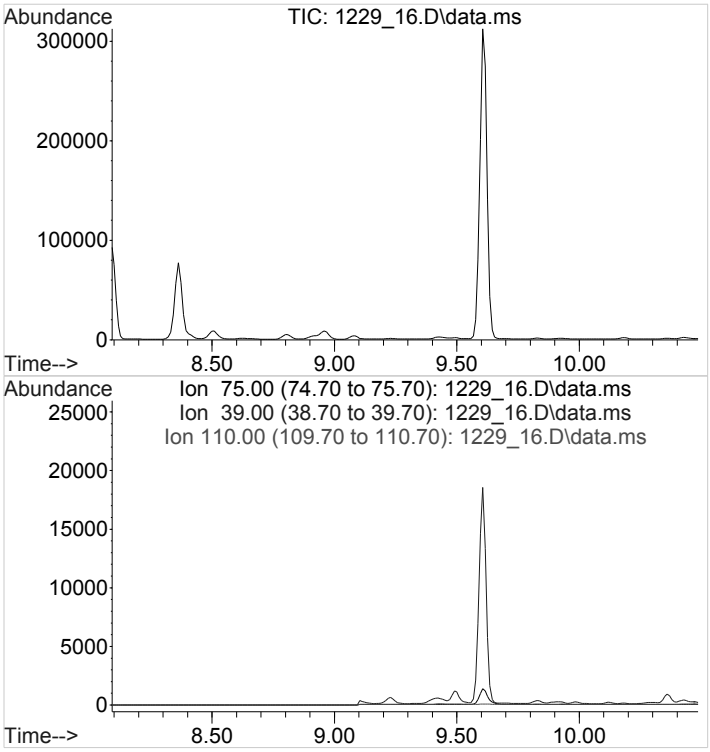
#20
Bromodichloromethane
Concen: N.D.
Expected RT: 8.85 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	63.4

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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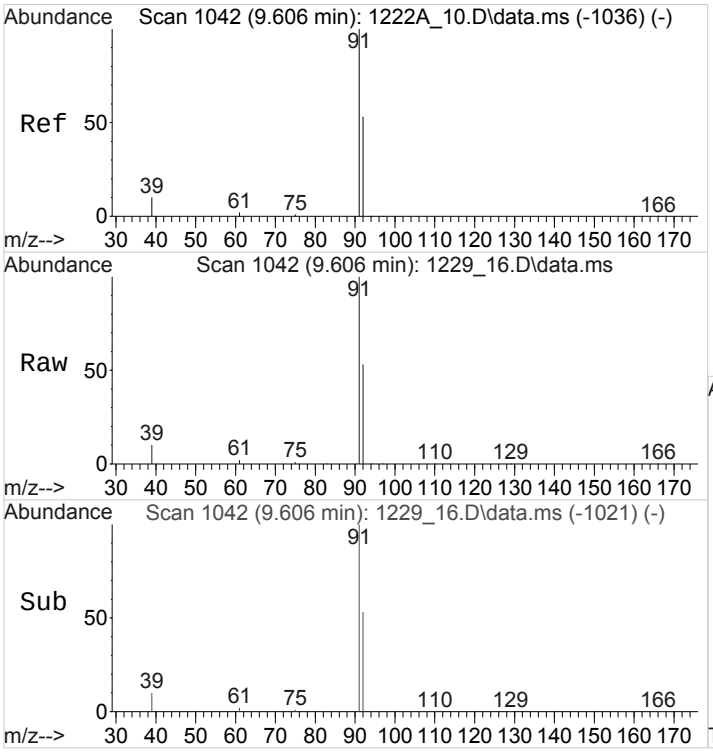


#21
cis-1,3-Dichloropropene
Concen: N.D.
Expected RT: 9.29 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 75

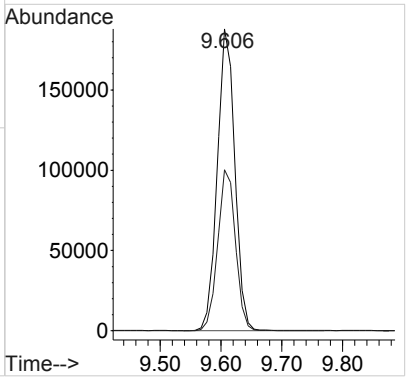
Sig	Exp Ratio
75	100
39	51.5
110	20.7



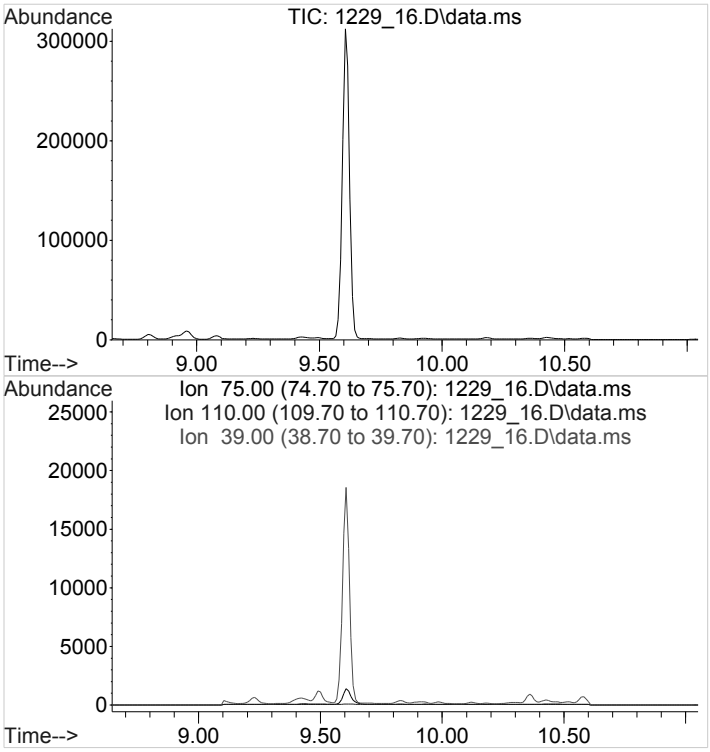
#22
Toluene
Concen: 8.2568725 ppbv
RT: 9.606 min Scan# 1042
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 91 Resp: 376336

Ion	Ratio	Lower	Upper
91	100		
92	54.1	42.1	63.1



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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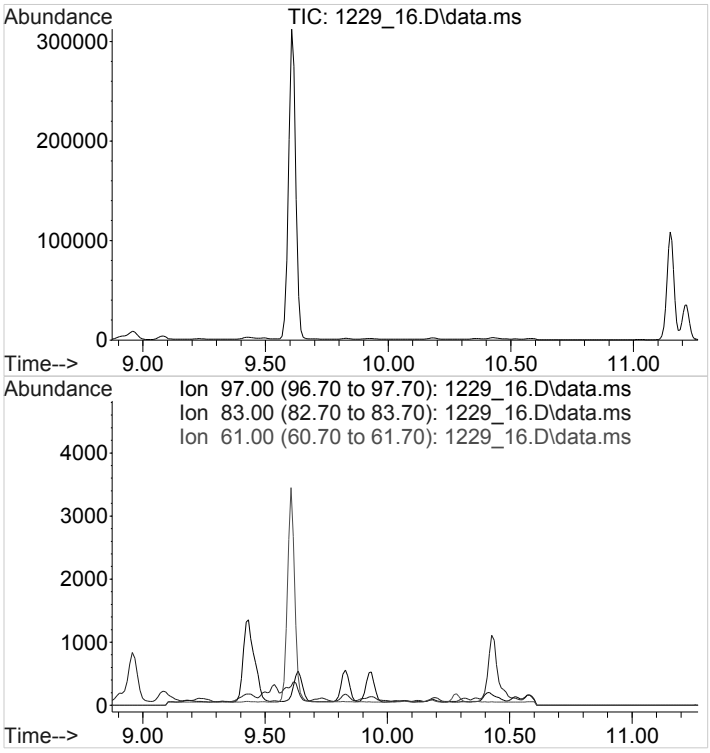


#23
trans-1,3-Dichloropropene
Concen: N.D.
Expected RT: 9.85 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 75

Sig	Exp Ratio
75	100
110	22.6
39	50.4



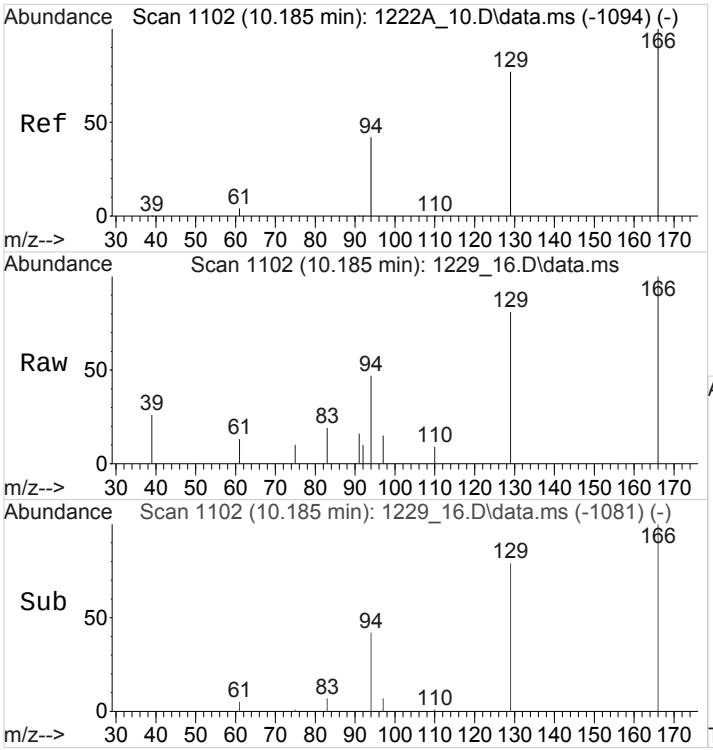
#24
1,1,2-Trichloroethane
Concen: N.D.
Expected RT: 10.07 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 97

Sig	Exp Ratio
97	100
83	91.9
61	68.5

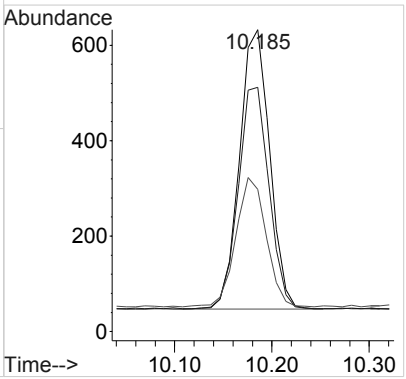
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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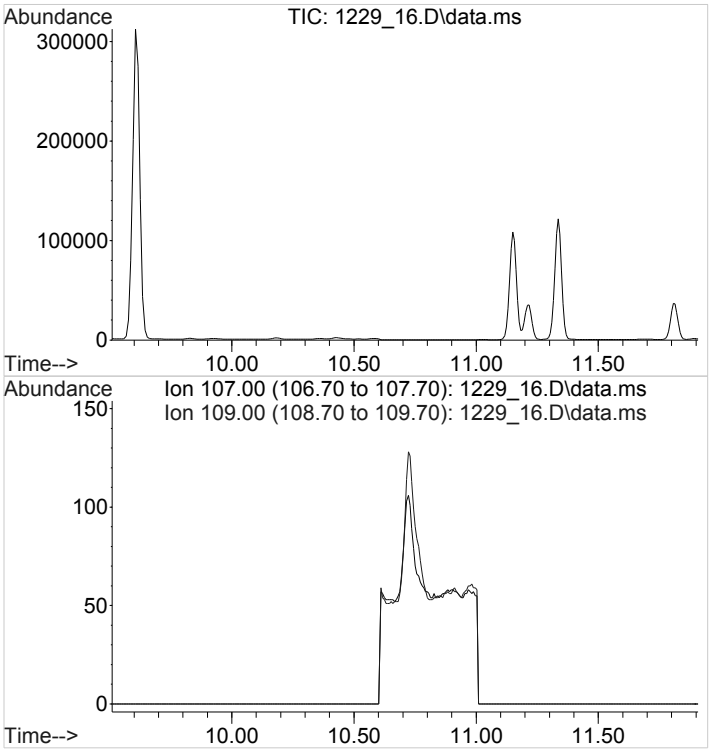


#25
Tetrachloroethene
Concen: 0.0563085 ppbv
RT: 10.185 min Scan# 1102
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion:166 Resp: 1265

Ion	Ratio	Lower	Upper
166	100		
129	80.5	63.9	95.9
94	46.3	37.4	56.2





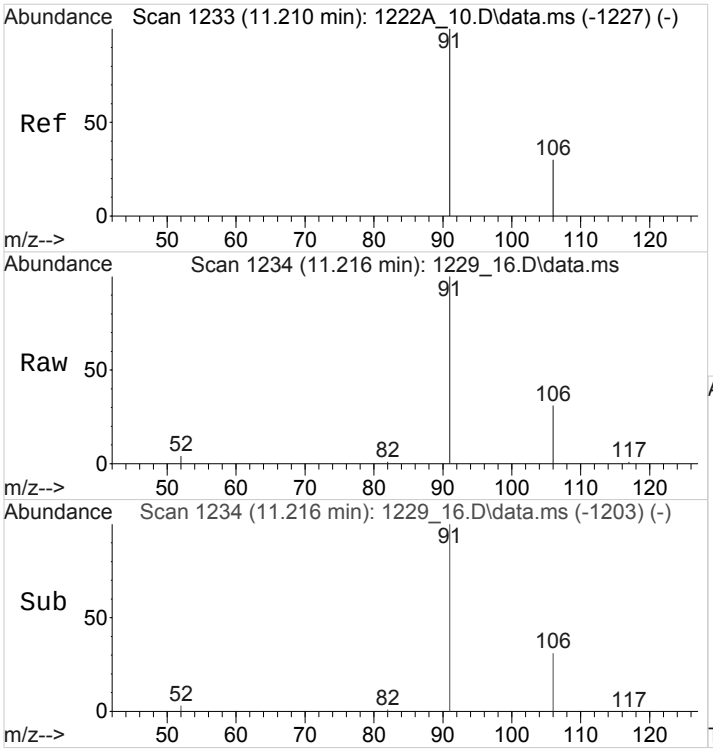
#26
1,2-Dibromoethane
Concen: N.D.
Expected RT: 10.71 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 107

Sig	Exp Ratio
107	100
109	93.8

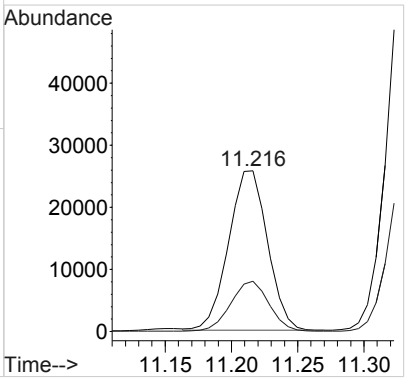
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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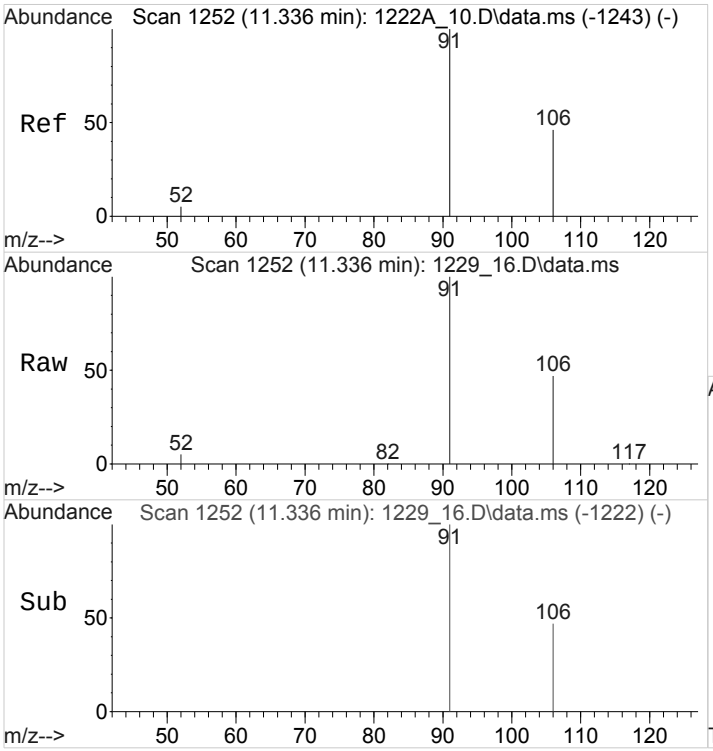


#28
Ethylbenzene
Concen: 0.9742493 ppbv
RT: 11.216 min Scan# 1234
Delta R.T. 0.007 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 91 Resp: 52426

Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.2	36.4

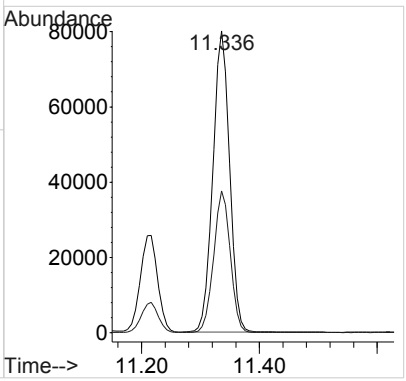




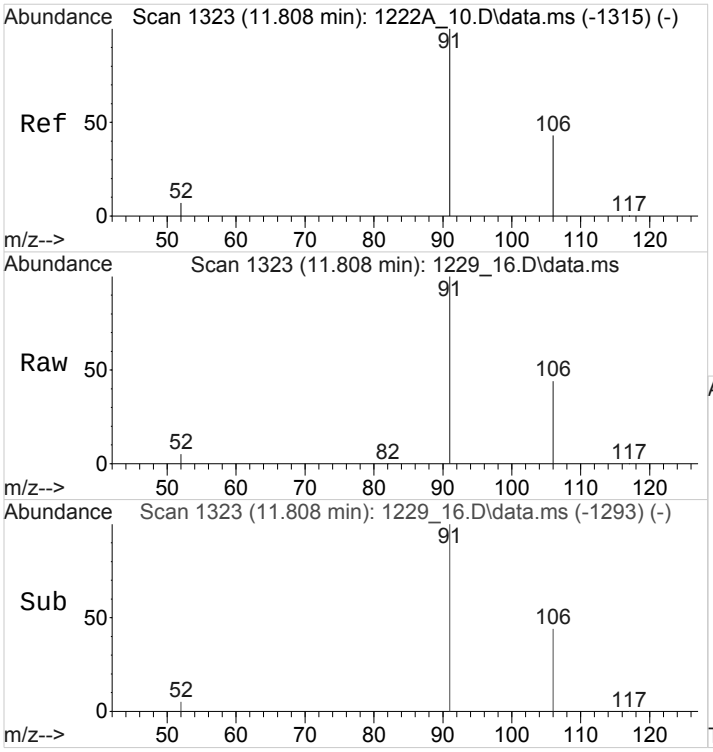
#29
M&P-Xylene
Concen: 4.0491704 ppbv
RT: 11.336 min Scan# 1252
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 91 Resp: 157825

Ion	Ratio	Lower	Upper
91	100		
106	46.7	36.9	55.3



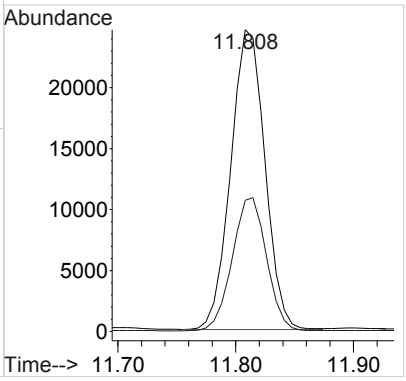
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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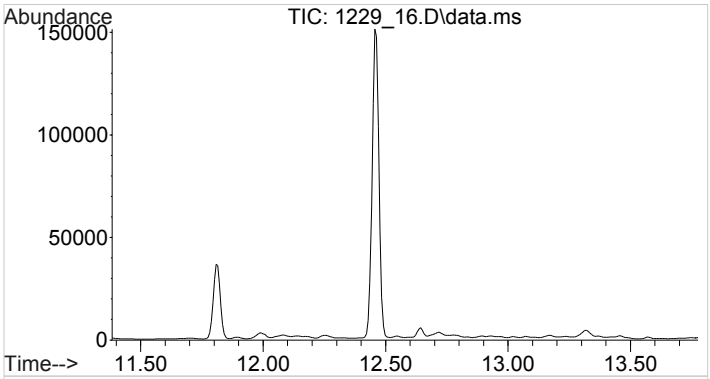


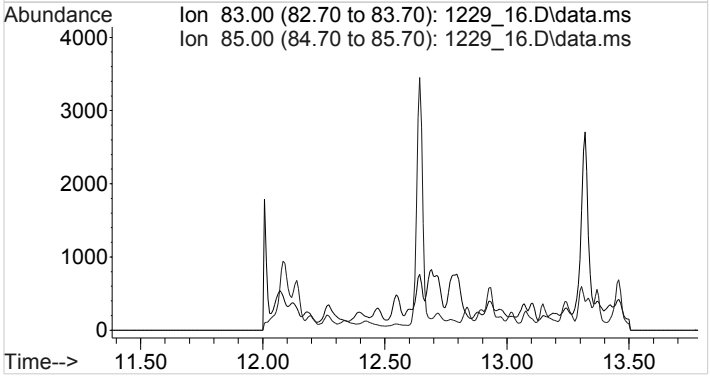
#30
O-Xylene
Concen: 1.3969707 ppbv
RT: 11.808 min Scan# 1323
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 91 Resp: 49651

Ion	Ratio	Lower	Upper
91	100		
106	44.4	34.6	52.0





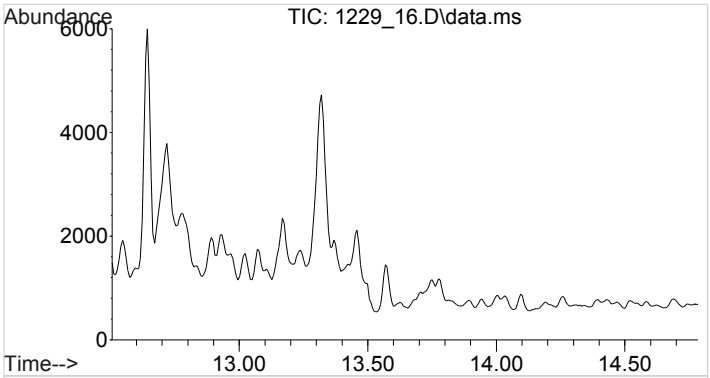


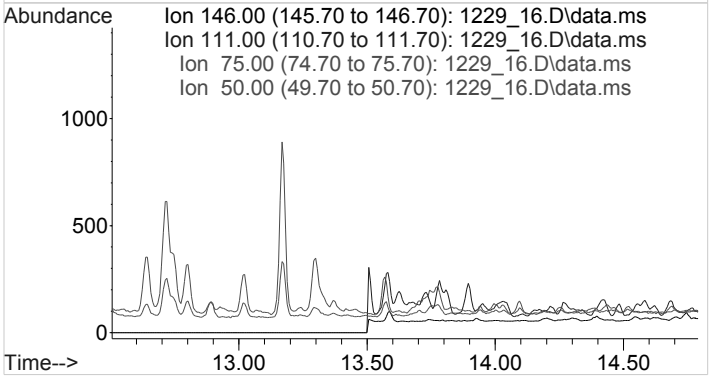
#31
1,1,2,2-Tetrachloroethane
Concen: N.D.
Expected RT: 12.58 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	63.8



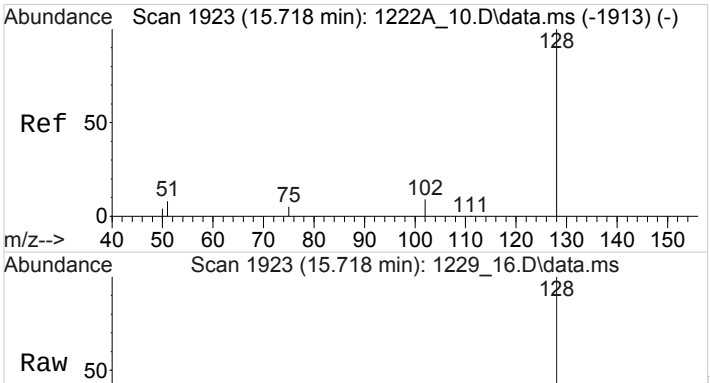


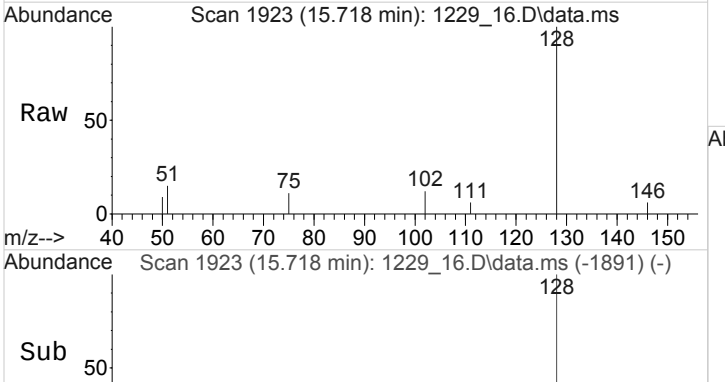
#33
1,4-Dichlorobenzene
Concen: N.D.
Expected RT: 13.59 min

Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
111	40.8
75	34.4
50	23.2

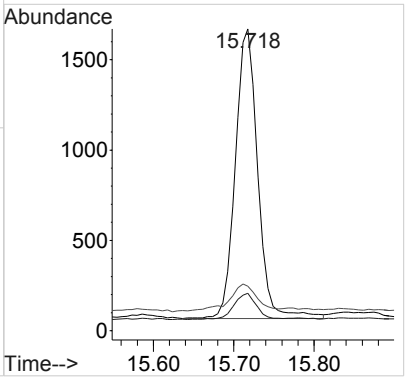




#34
Naphthalene
Concen: 0.0671520 ppbv
RT: 15.718 min Scan# 1923
Delta R.T. 0.000 min
Lab File: 1229_16.D
Acq: 29 Dec 2022 7:15 pm

Tgt Ion:128 Resp: 3110

Ion	Ratio	Lower	Upper
128	100		
102	9.1	7.0	10.4
51	12.4	6.9	10.3#



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1570581-11	**SDG:**	L1570581
Client Sample ID:	786-IA-1_1222	**Collected Date/Time:**	12/21/22 16:10
Lab File ID:	1229_17	**Received Date/Time:**	12/24/22 11:00
Instrument ID:	AIRMS7	**Preparation Date/Time:**	12/29/22 19:54
Analytical Batch:	WG1980882	**Analysis Date/Time:**	12/29/22 19:54
Dilution Factor:	1	**Prep Method:**	TO-15-SIM
Analytical Method:	TO-15-SIM	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ug/m3		*ug/m3*	*ug/m3*	*ug/m3*
Benzene	71-43-2	7.80	0.505		0.0358	0.0799	0.160
Carbon tetrachloride	56-23-5	7.59	0.503		0.0627	0.126	0.252
1,1-Dichloroethene	75-35-4	0	0.0753	U	0.0365	0.0753	0.159
cis-1,2-Dichloroethene	156-59-2	0	0.119	U	0.0563	0.119	0.238
Tetrachloroethylene	127-18-4	10.19	0.204	U	0.0862	0.204	0.407
1,1,1-Trichloroethane	71-55-6	0	0.103	U	0.0353	0.103	0.218
Trichloroethylene	79-01-6	8.36	0.0884	J	0.0400	0.102	0.214
Vinyl chloride	75-01-4	0	0.0486	U	0.0196	0.0486	0.102

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_17.D
Acq On : 29 Dec 2022 7:54 pm
Operator :
Sample : L1570581-11 1x WG1980882
Misc :
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:28:51 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

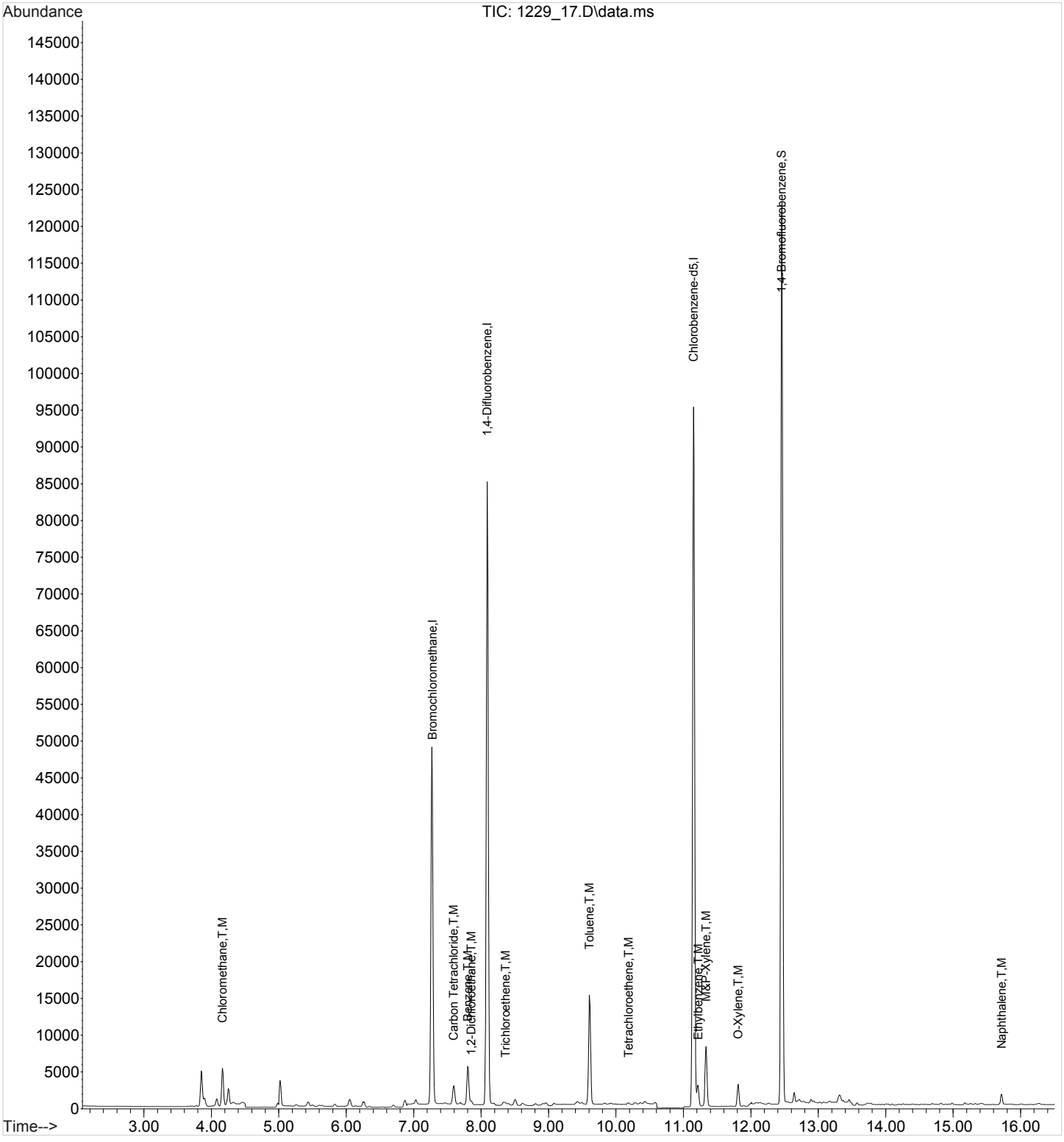
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	33560	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	113670	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	107301	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	70151	1.2563958	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 100.51%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	7592	0.4973820	ppbv	100
3) Vinyl Chloride	0.000		0	N.D. d		
4) 1,3-Butadiene	0.000		0	N.D. d		
5) Chloroethane	0.000		0	N.D.		
6) 1,1-Dichloroethene	0.000		0	N.D.		
7) Methyl Tert-Butyl Ether	0.000		0	N.D.		
8) Trans-1,2-Dichloroethene	0.000		0	N.D.		
9) 1,1-Dichloroethane	0.000		0	N.D.		
10) Vinyl Acetate	0.000		0	N.D. d		
11) cis-1,2-Dichloroethene	0.000		0	N.D.		
12) Chloroform	0.000		0	N.D. d		
13) 1,1,1-Trichloroethane	0.000		0	N.D.		
14) Carbon Tetrachloride	7.592	117	2431	0.0798851	ppbv	99
15) 1,2-Dichloroethane	7.853	62	491	0.0222083	ppbv #	85
17) Benzene	7.801	78	7530	0.1574915	ppbv	97
18) Trichloroethene	8.362	95	304m	0.0165497	ppbv	
19) 1,2-Dichloropropane	0.000		0	N.D.		
20) Bromodichloromethane	0.000		0	N.D.		
21) cis-1,3-Dichloropropene	0.000		0	N.D.		
22) Toluene	9.606	91	18616	0.4460552	ppbv	100
23) trans-1,3-Dichloropropene	0.000		0	N.D.		
24) 1,1,2-Trichloroethane	0.000		0	N.D. d		
25) Tetrachloroethene	10.185	166	194	0.0094308	ppbv #	74
26) 1,2-Dibromoethane	0.000		0	N.D.		
28) Ethylbenzene	11.216	91	4174	0.0873778	ppbv	98
29) M&P-Xylene	11.336	91	10883	0.3145317	ppbv	100
30) O-Xylene	11.808	91	4138	0.1311521	ppbv	98
31) 1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
33) 1,4-Dichlorobenzene	0.000		0	N.D.		
34) Naphthalene	15.718	128	2060	0.0501061	ppbv #	92

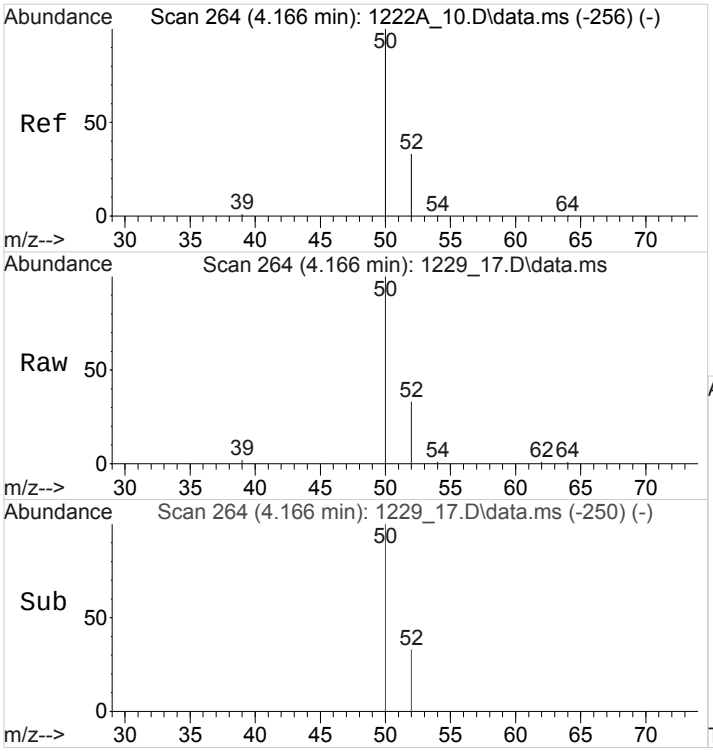
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_17.D
Acq On : 29 Dec 2022 7:54 pm
Operator :
Sample : L1570581-11 1x WG1980882
Misc :
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:28:51 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

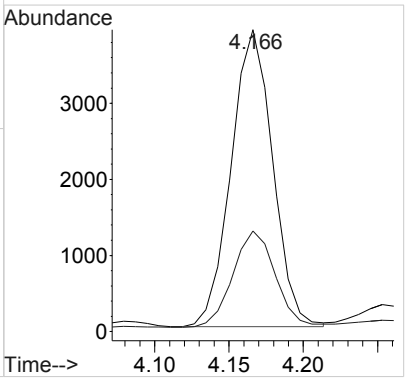


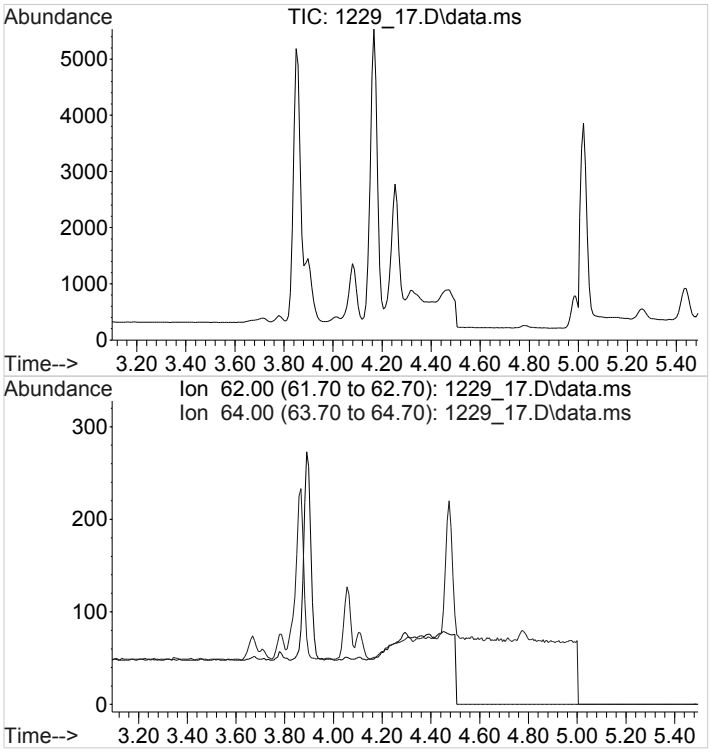


#2
Chloromethane
Concen: 0.4973820 ppbv
RT: 4.166 min Scan# 264
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 50 Resp: 7592

Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.6	40.0





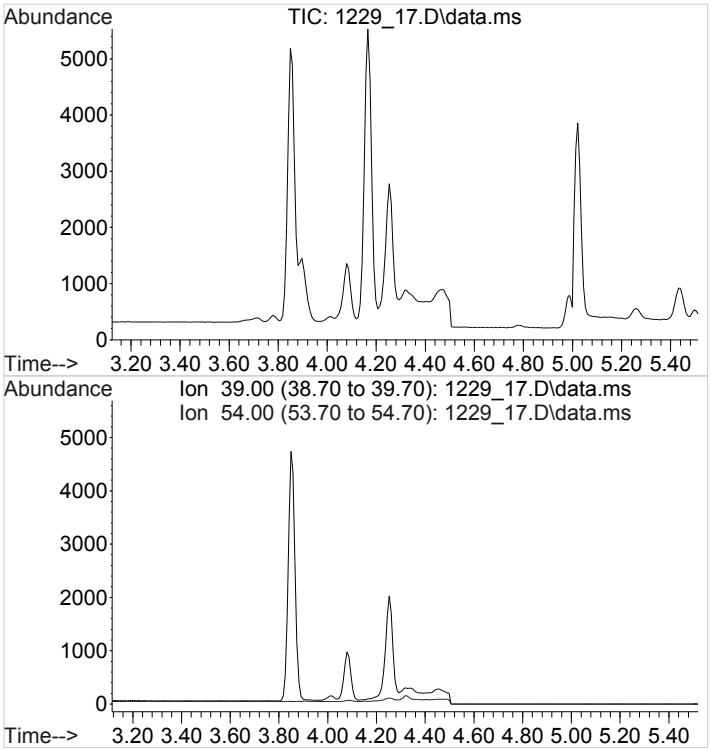
#3
Vinyl Chloride
Concen: N.D.
Expected RT: 4.29 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 62

Sig	Exp Ratio
62	100
64	33.3

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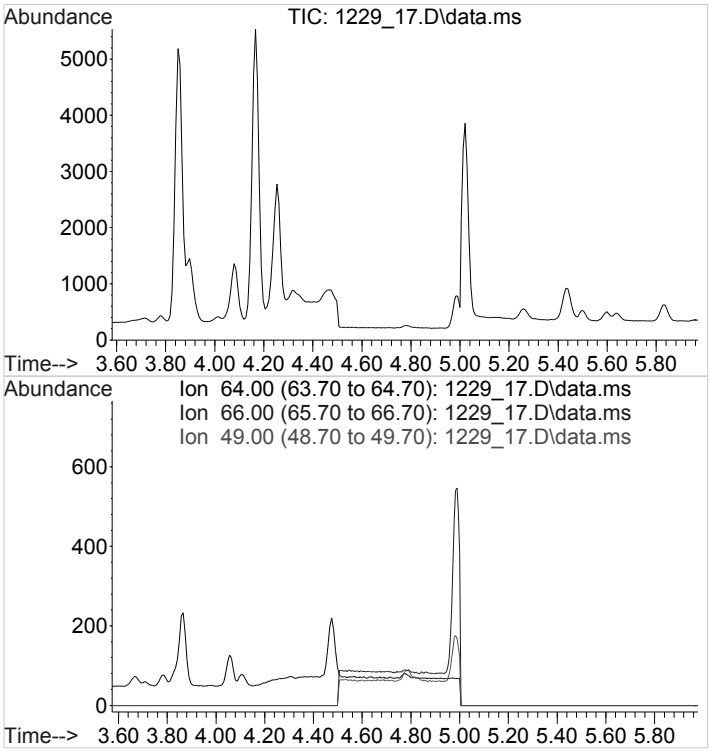


#4
1,3-Butadiene
Concen: N.D.
Expected RT: 4.32 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 39

Sig	Exp Ratio
39	100
54	90.3

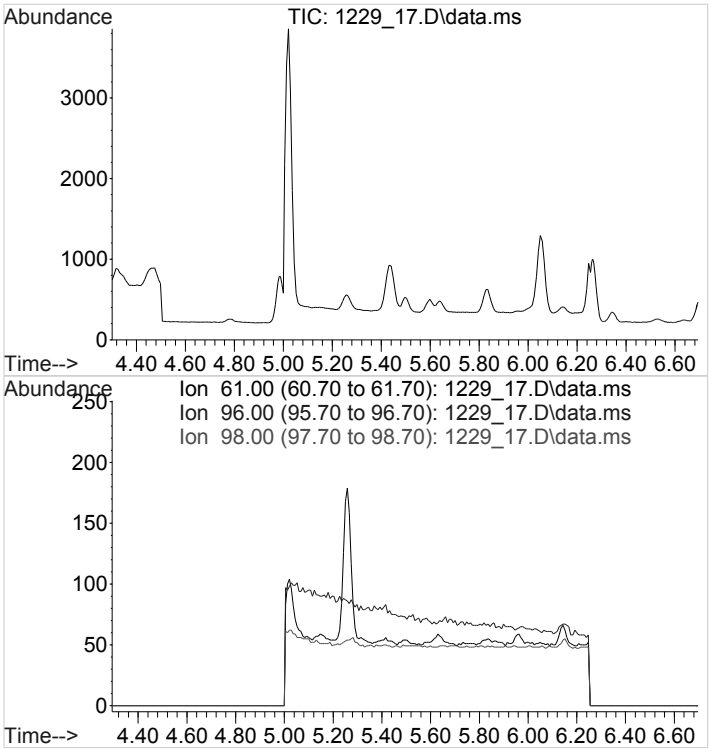


#5
Chloroethane
Concen: N.D.
Expected RT: 4.77 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 64

Sig	Exp Ratio
64	100
66	32.2
49	33.8

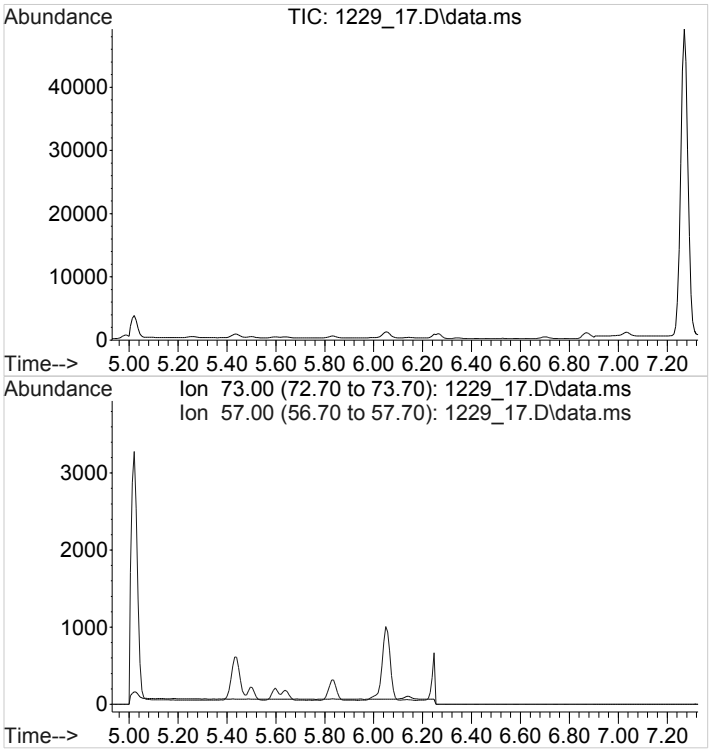


#6
1,1-Dichloroethene
Concen: N.D.
Expected RT: 5.50 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 61

Sig	Exp Ratio
61	100
96	54.0
98	34.4



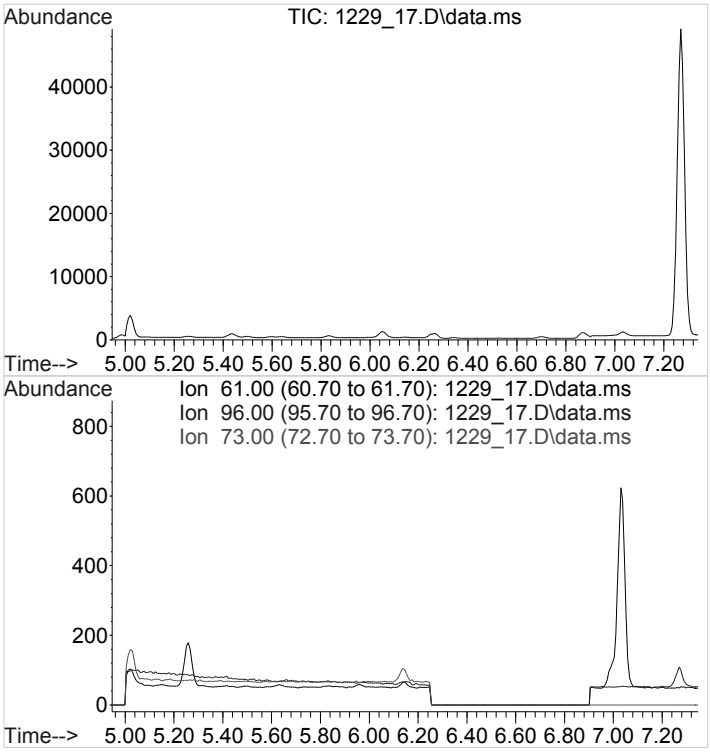
#7
Methyl Tert-Butyl Ether
Concen: N.D.
Expected RT: 6.13 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 73

Sig	Exp Ratio
73	100
57	27.3

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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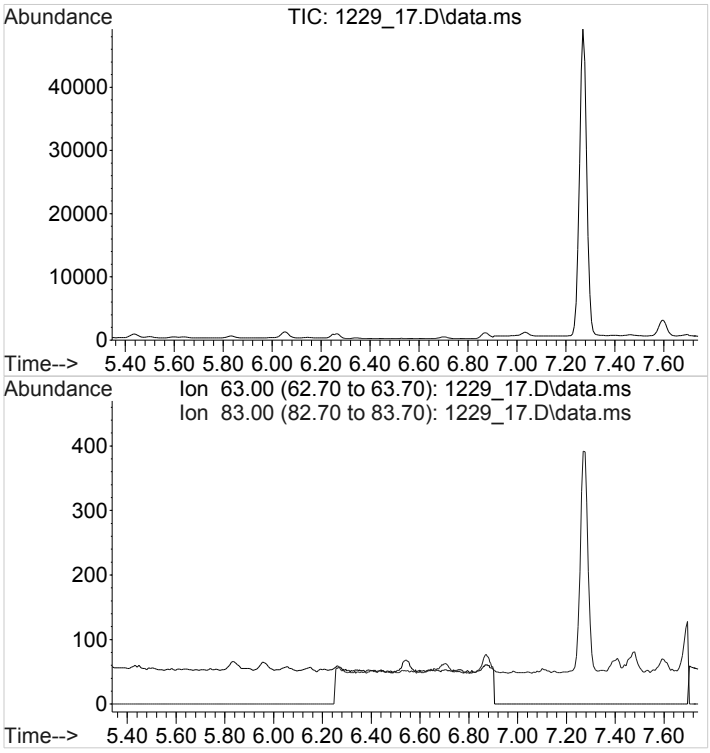


#8
Trans-1,2-Dichloroethene
Concen: N.D.
Expected RT: 6.14 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 61

Sig	Exp Ratio
61	100
96	60.7
73	124.3



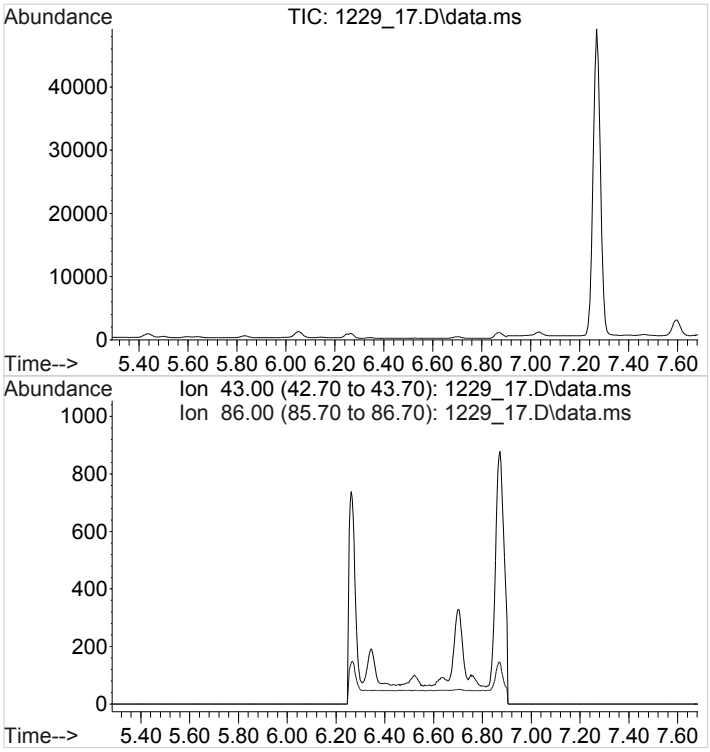
#9
1,1-Dichloroethane
Concen: N.D.
Expected RT: 6.54 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
83	11.9

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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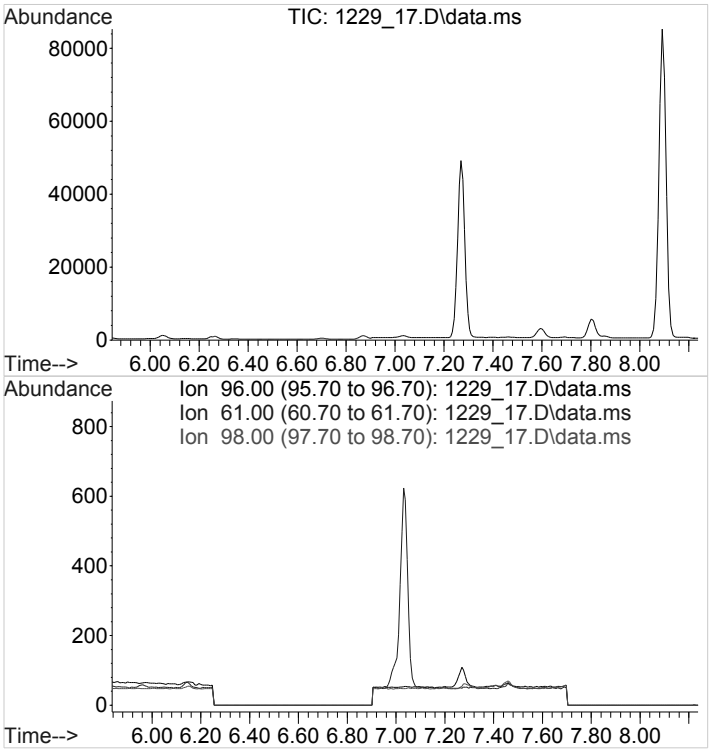


#10
Vinyl Acetate
Concen: N.D.
Expected RT: 6.48 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 43

Sig	Exp Ratio
43	100
86	4.0

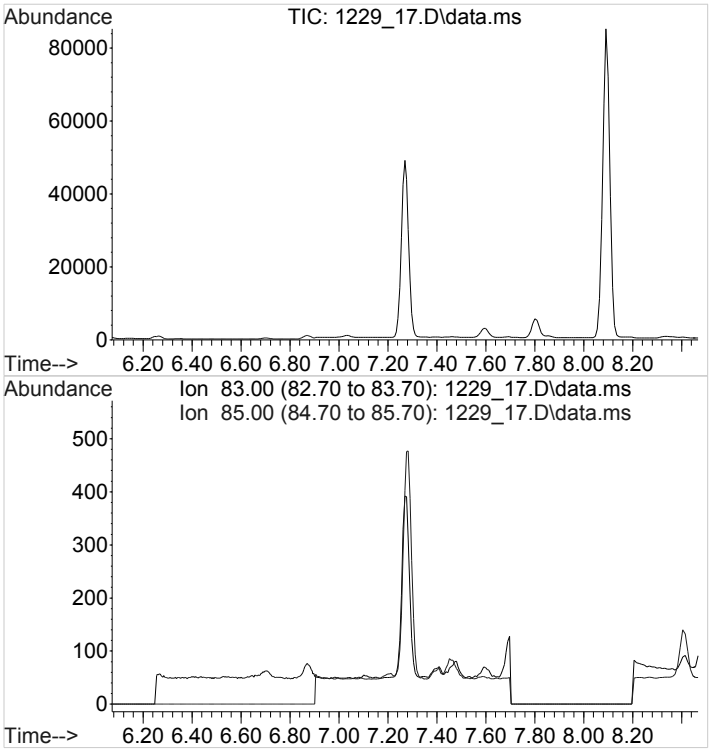


#11
cis-1,2-Dichloroethene
Concen: N.D.
Expected RT: 7.04 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 96

Sig	Exp Ratio
96	100
61	153.8
98	64.1

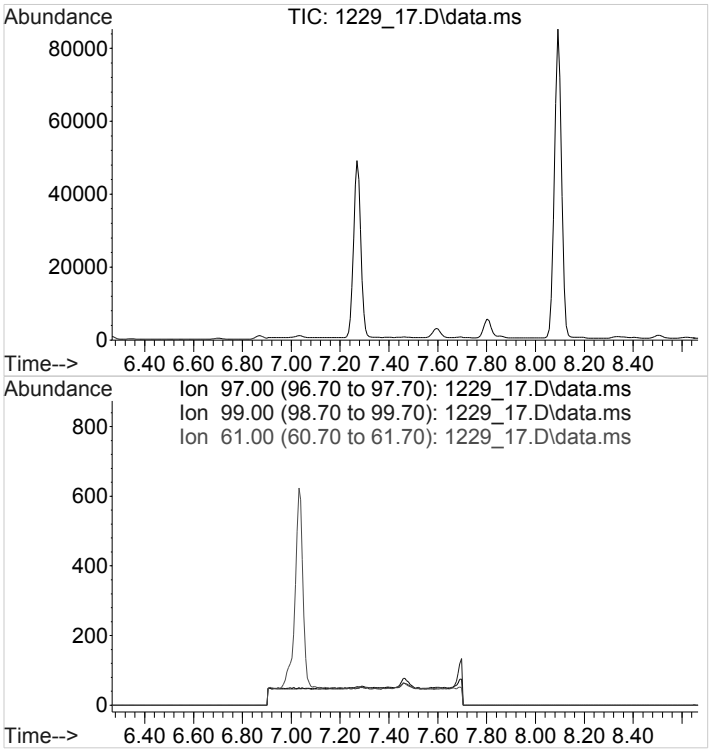


#12
Chloroform
Concen: N.D.
Expected RT: 7.27 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	64.1

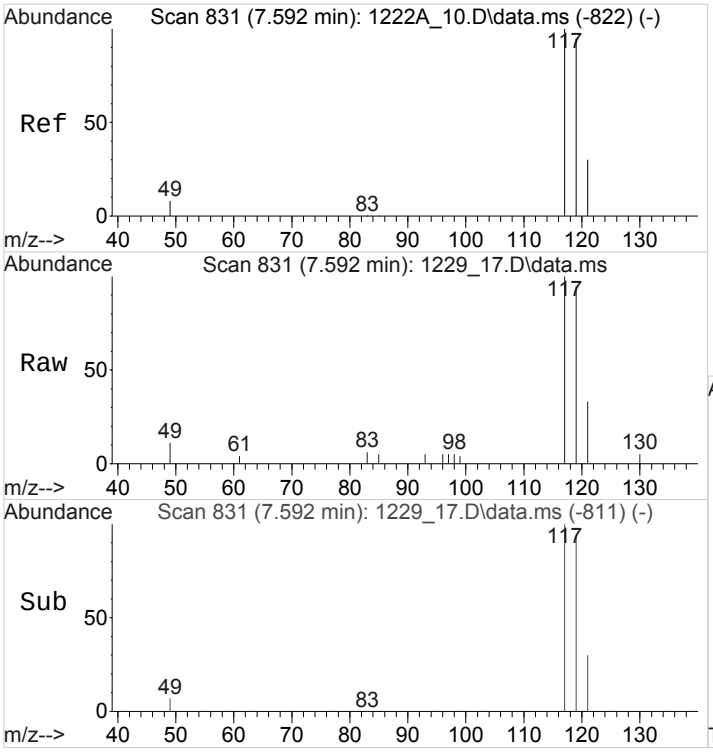


#13
1,1,1-Trichloroethane
Concen: N.D.
Expected RT: 7.47 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 97

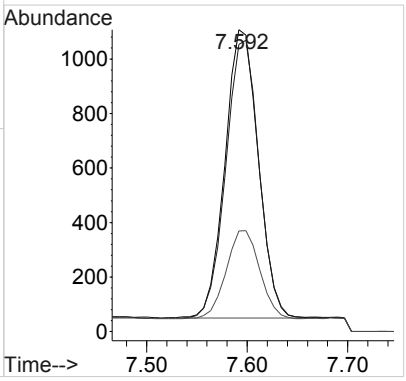
Sig	Exp Ratio
97	100
99	63.8
61	50.4

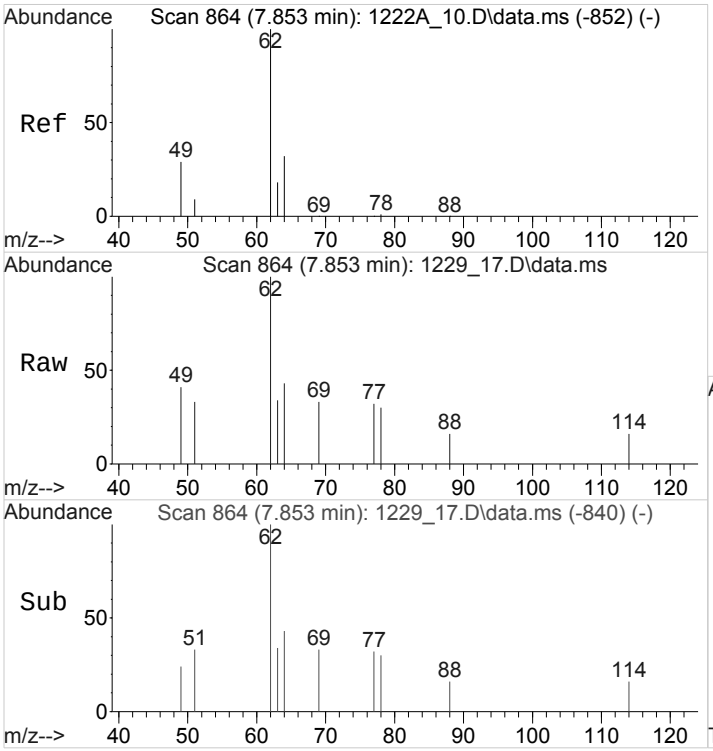


#14
Carbon Tetrachloride
Concen: 0.0798851 ppbv
RT: 7.592 min Scan# 831
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion:117 Resp: 2431

Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.7	115.1
121	30.6	27.0	40.4

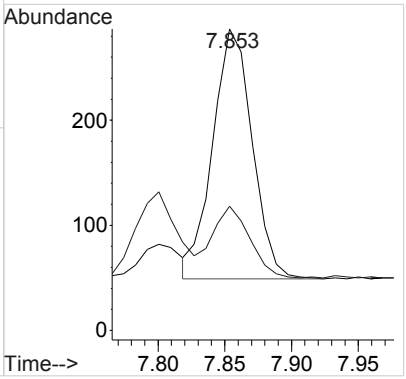




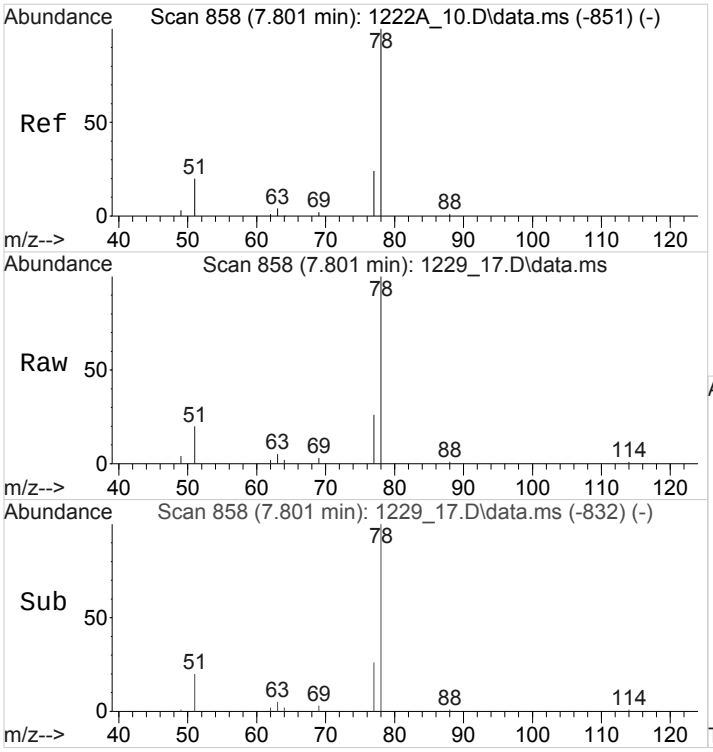
#15
1,2-Dichloroethane
Concen: 0.0222083 ppbv
RT: 7.853 min Scan# 864
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 62 Resp: 491

Ion	Ratio	Lower	Upper
62	100		
49	36.0	22.4	33.6#



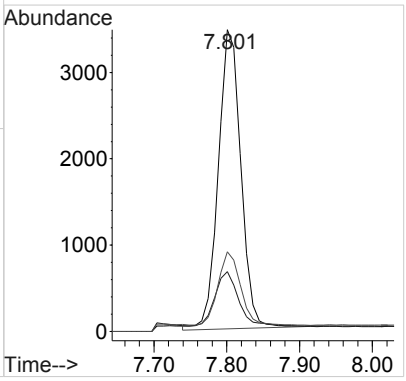
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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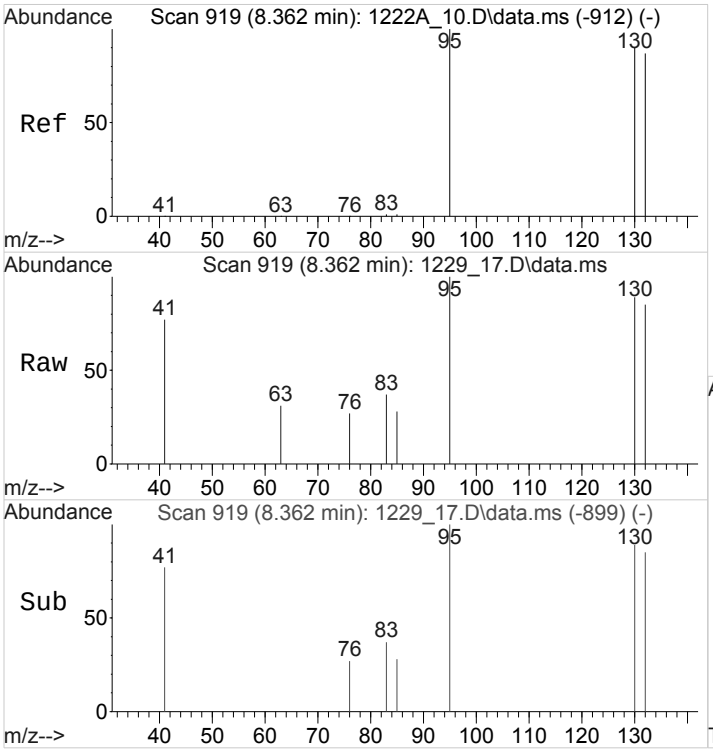


#17
Benzene
Concen: 0.1574915 ppbv
RT: 7.801 min Scan# 858
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 78 Resp: 7530

Ion	Ratio	Lower	Upper
78	100		
51	22.2	17.5	26.3
77	27.5	20.2	30.4

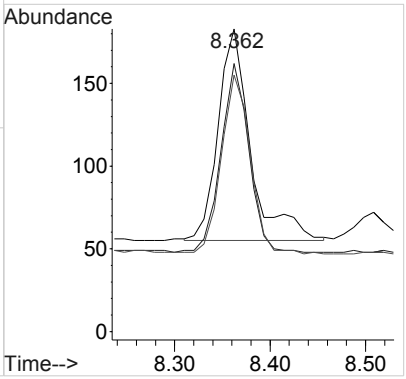


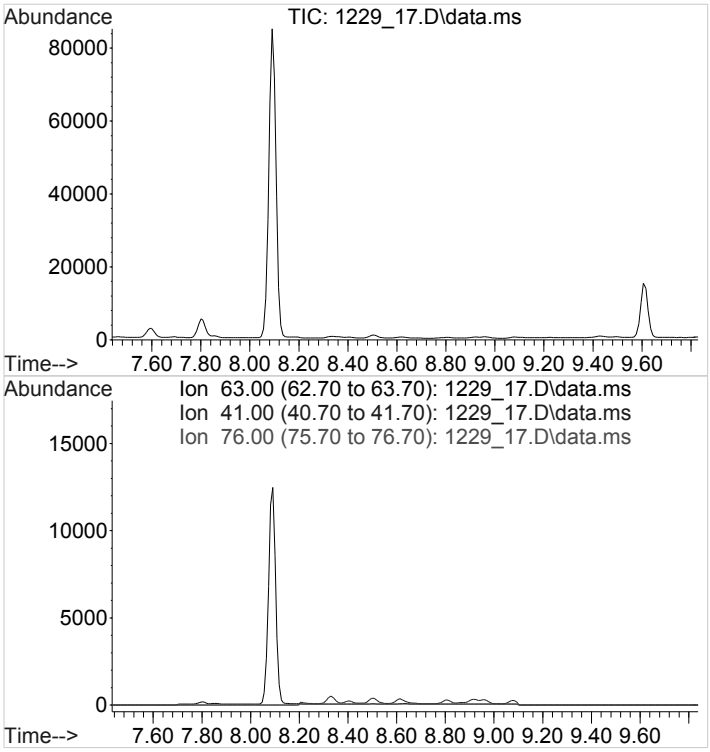


#18
Trichloroethene
Concen: 0.0165497 ppbv m
RT: 8.362 min Scan# 919
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 95 Resp: 304

Ion	Ratio	Lower	Upper
95	100		
130	103.9	73.0	109.4
132	75.0	69.8	104.8



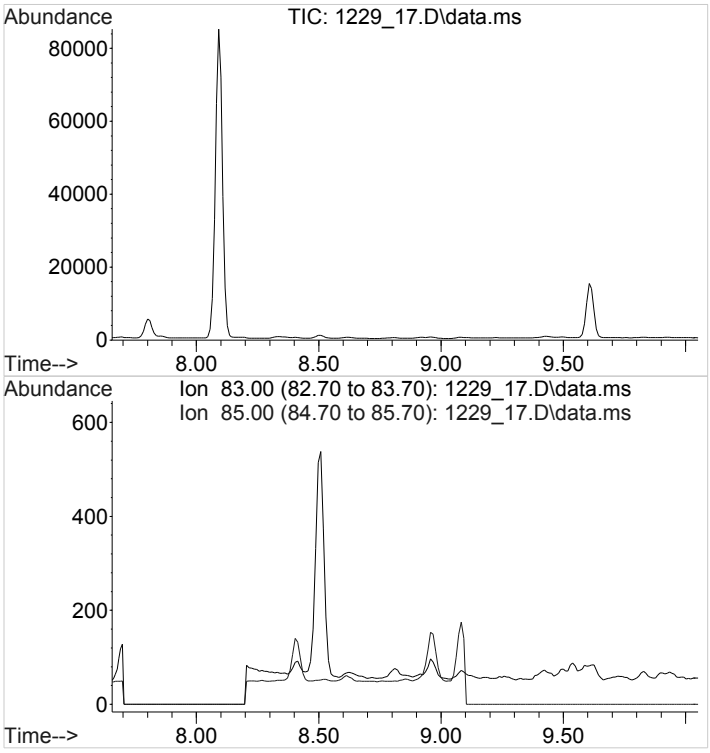


#19
1,2-Dichloropropane
Concen: N.D.
Expected RT: 8.63 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
41	52.4
76	34.1



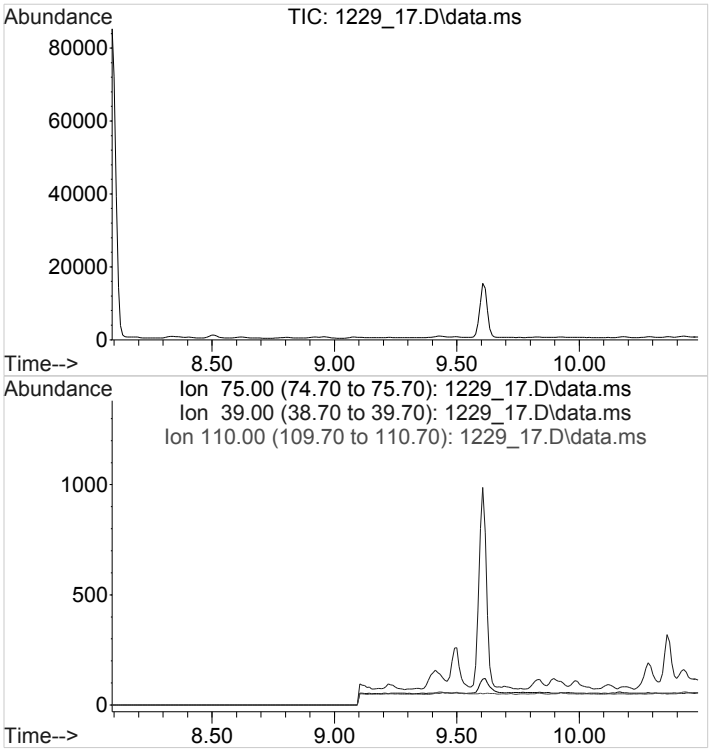
#20
Bromodichloromethane
Concen: N.D.
Expected RT: 8.85 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	63.4

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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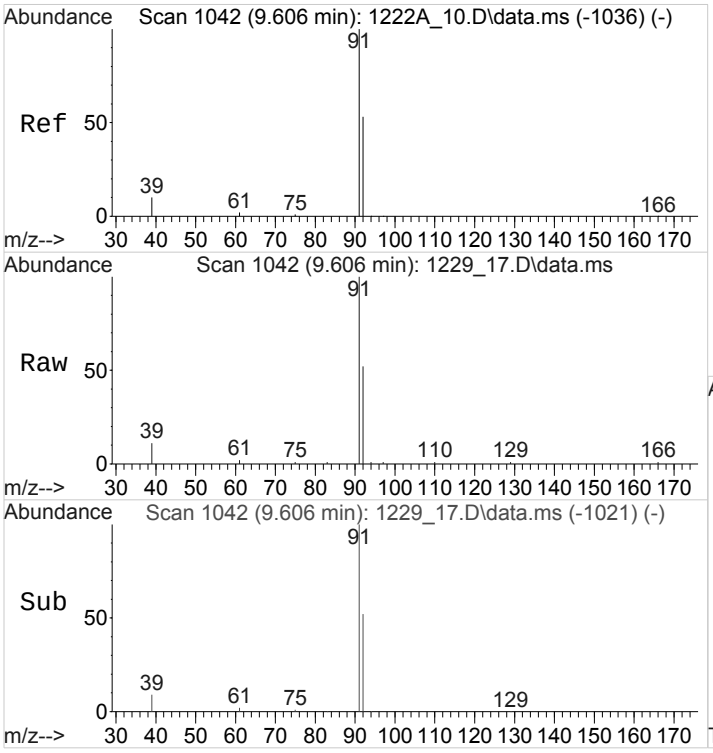


#21
cis-1,3-Dichloropropene
Concen: N.D.
Expected RT: 9.29 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 75

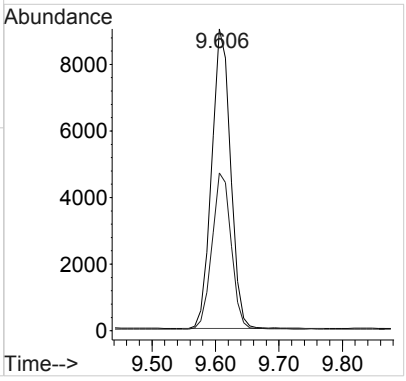
Sig	Exp Ratio
75	100
39	51.5
110	20.7



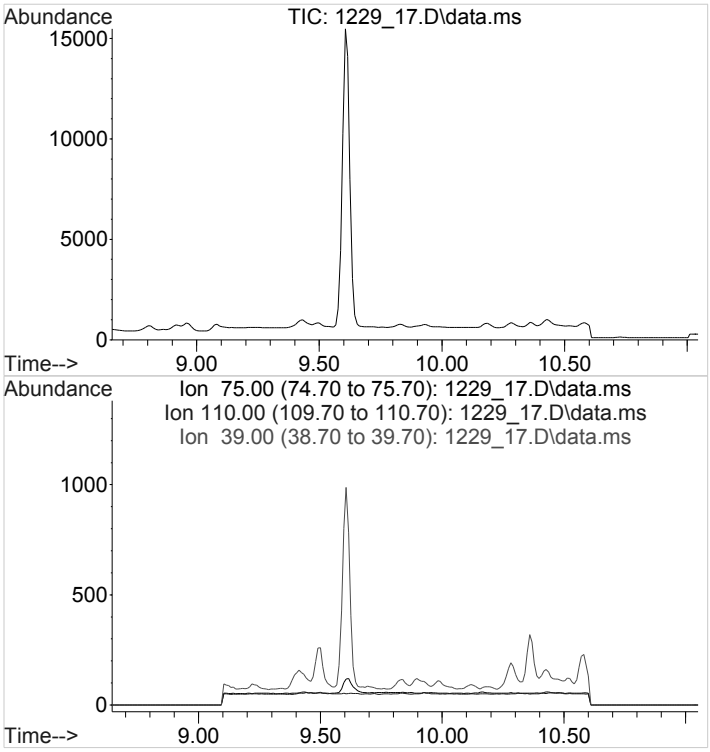
#22
Toluene
Concen: 0.4460552 ppbv
RT: 9.606 min Scan# 1042
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 91 Resp: 18616

Ion	Ratio	Lower	Upper
91	100		
92	52.8	42.1	63.1



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	381 of 500

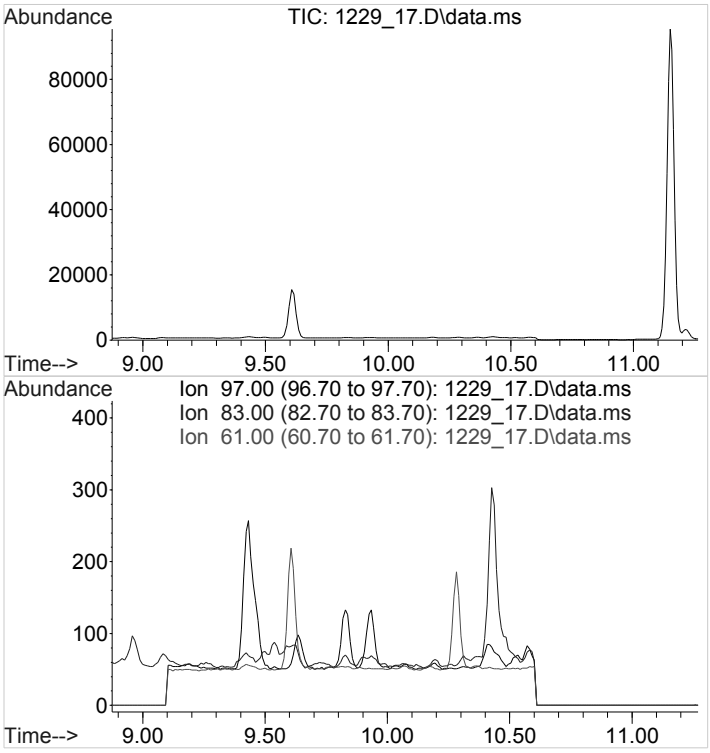


#23
trans-1,3-Dichloropropene
Concen: N.D.
Expected RT: 9.85 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 75

Sig	Exp Ratio
75	100
110	22.6
39	50.4

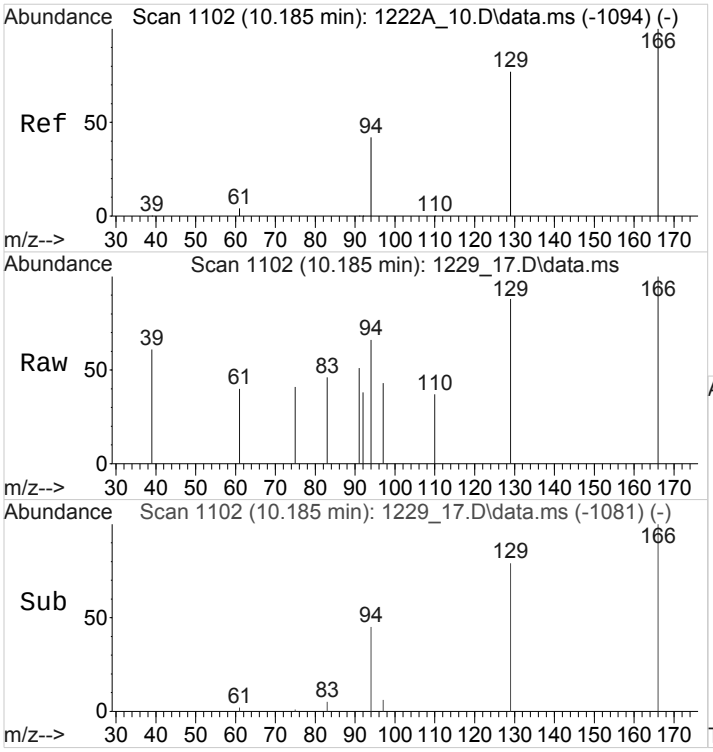


#24
1,1,2-Trichloroethane
Concen: N.D.
Expected RT: 10.07 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 97

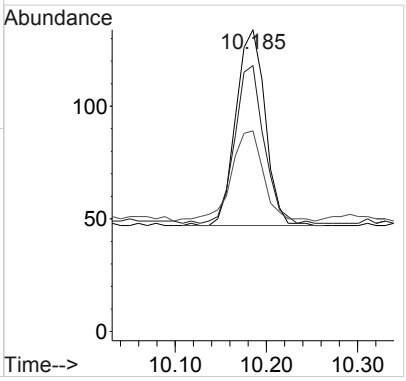
Sig	Exp Ratio
97	100
83	91.9
61	68.5

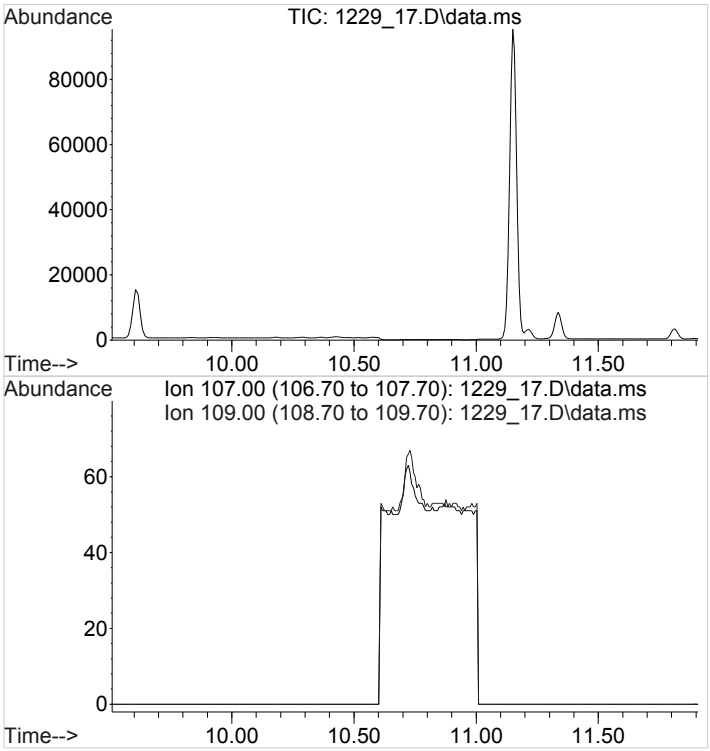


#25
Tetrachloroethene
Concen: 0.0094308 ppbv
RT: 10.185 min Scan# 1102
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion:166 Resp: 194

Ion	Ratio	Lower	Upper
166	100		
129	79.9	63.9	95.9
94	0.0	37.4	56.2#





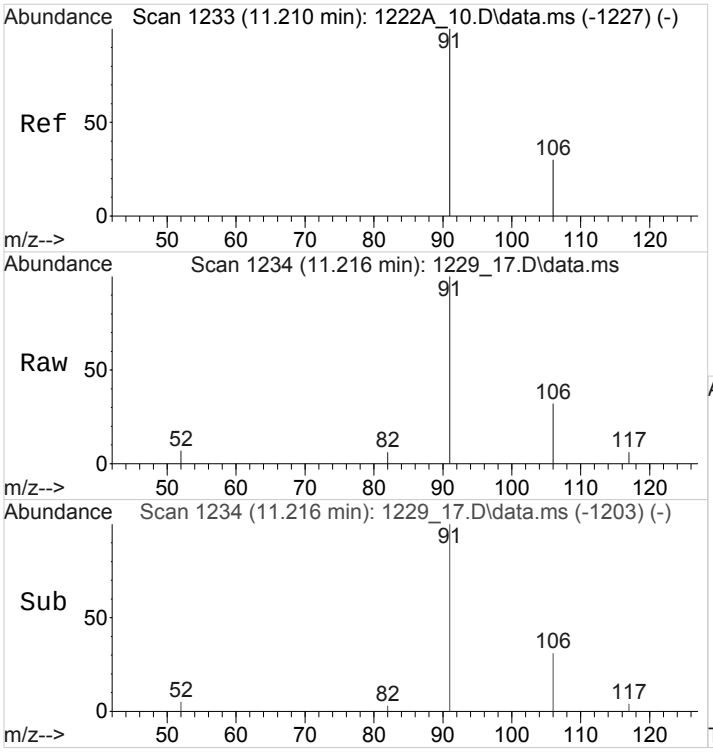
#26
1,2-Dibromoethane
Concen: N.D.
Expected RT: 10.71 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 107

Sig	Exp Ratio
107	100
109	93.8

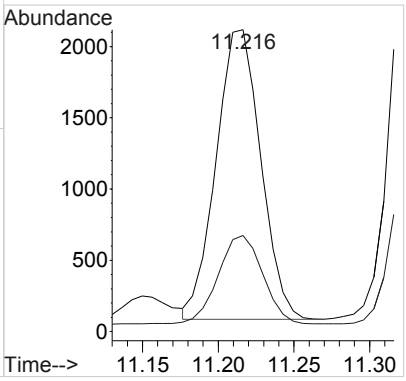
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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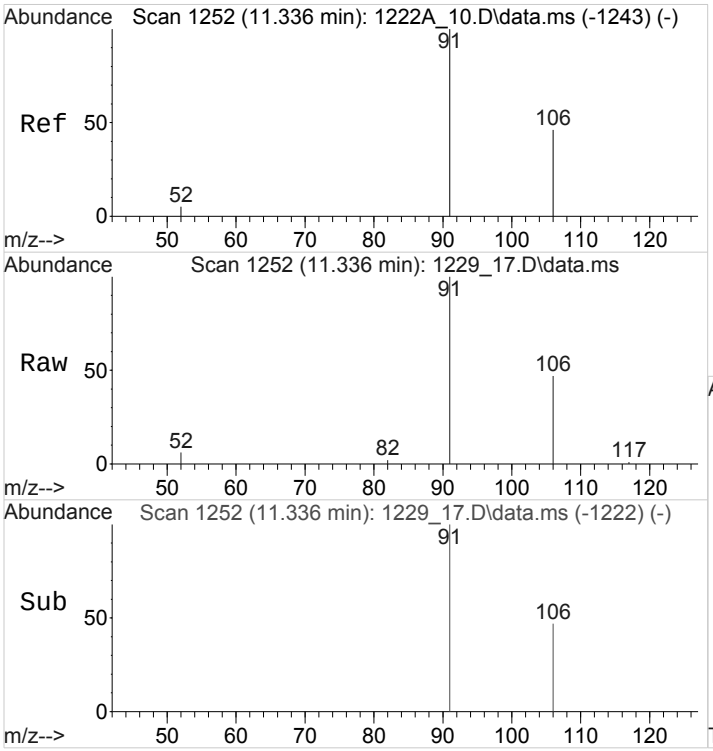


#28
Ethylbenzene
Concen: 0.0873778 ppbv
RT: 11.216 min Scan# 1234
Delta R.T. 0.007 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 91 Resp: 4174

Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.2	36.4

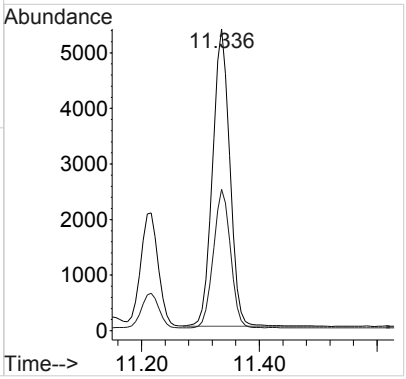




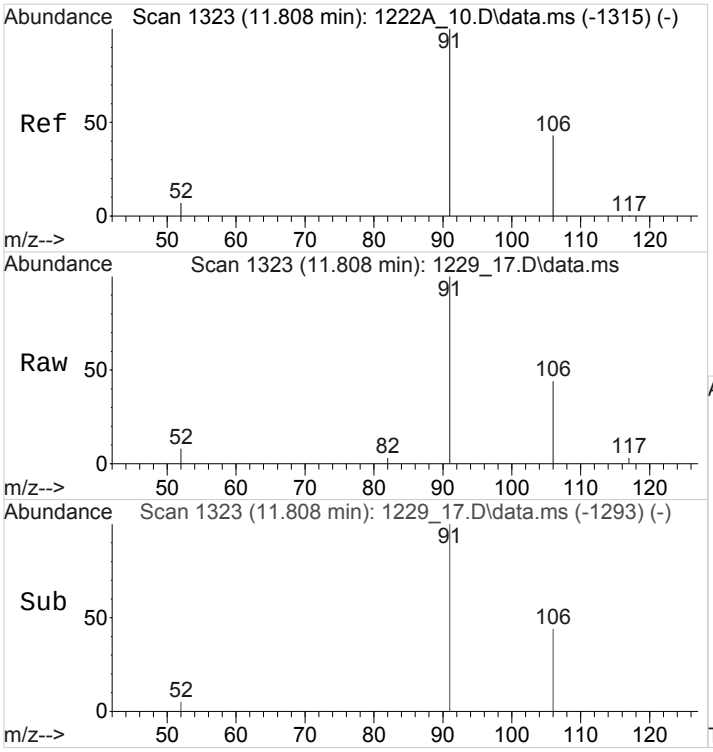
#29
M&P-Xylene
Concen: 0.3145317 ppbv
RT: 11.336 min Scan# 1252
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 91 Resp: 10883

Ion	Ratio	Lower	Upper
91	100		
106	46.0	36.9	55.3



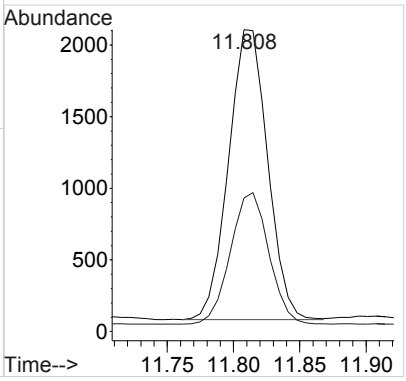
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	384 of 500

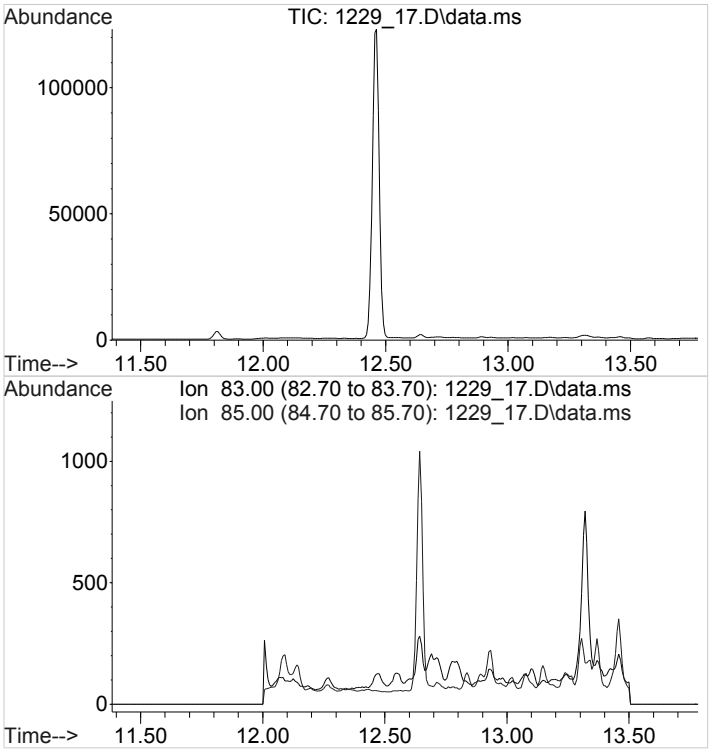


#30
O-Xylene
Concen: 0.1311521 ppbv
RT: 11.808 min Scan# 1323
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 91 Resp: 4138

Ion	Ratio	Lower	Upper
91	100		
106	44.4	34.6	52.0





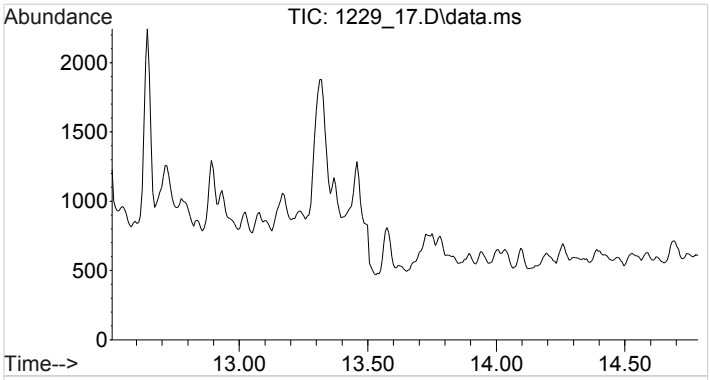
#31
1,1,2,2-Tetrachloroethane
Concen: N.D.
Expected RT: 12.58 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	63.8

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	385 of 500

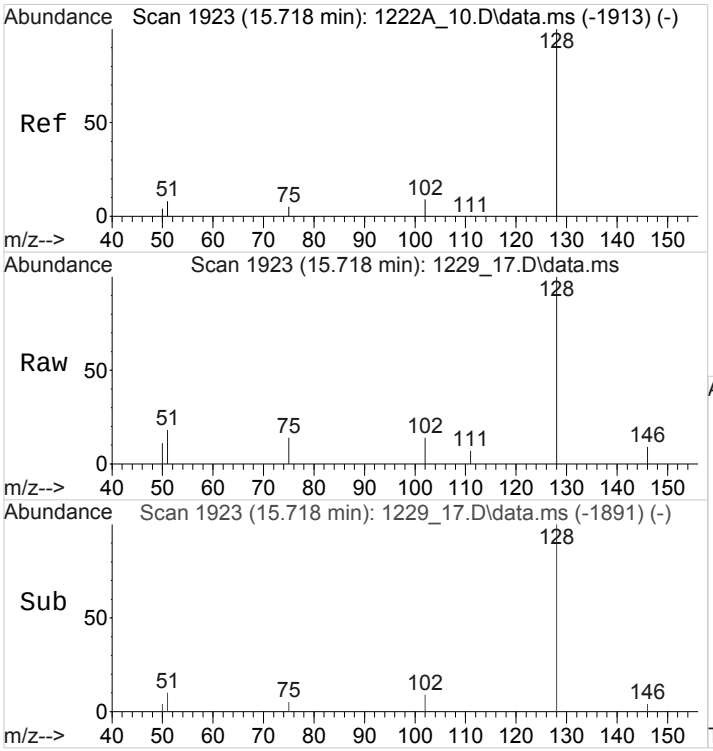


#33
1,4-Dichlorobenzene
Concen: N.D.
Expected RT: 13.59 min

Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion: 146

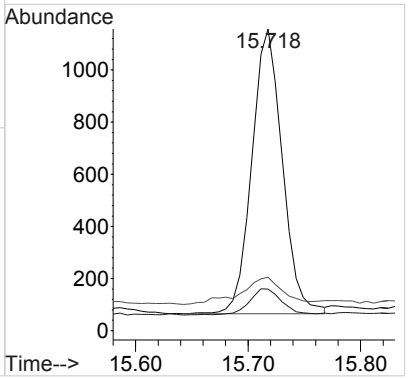
Sig	Exp Ratio
146	100
111	40.8
75	34.4
50	23.2



#34
Naphthalene
Concen: 0.0501061 ppbv
RT: 15.718 min Scan# 1923
Delta R.T. 0.000 min
Lab File: 1229_17.D
Acq: 29 Dec 2022 7:54 pm

Tgt Ion:128 Resp: 2060

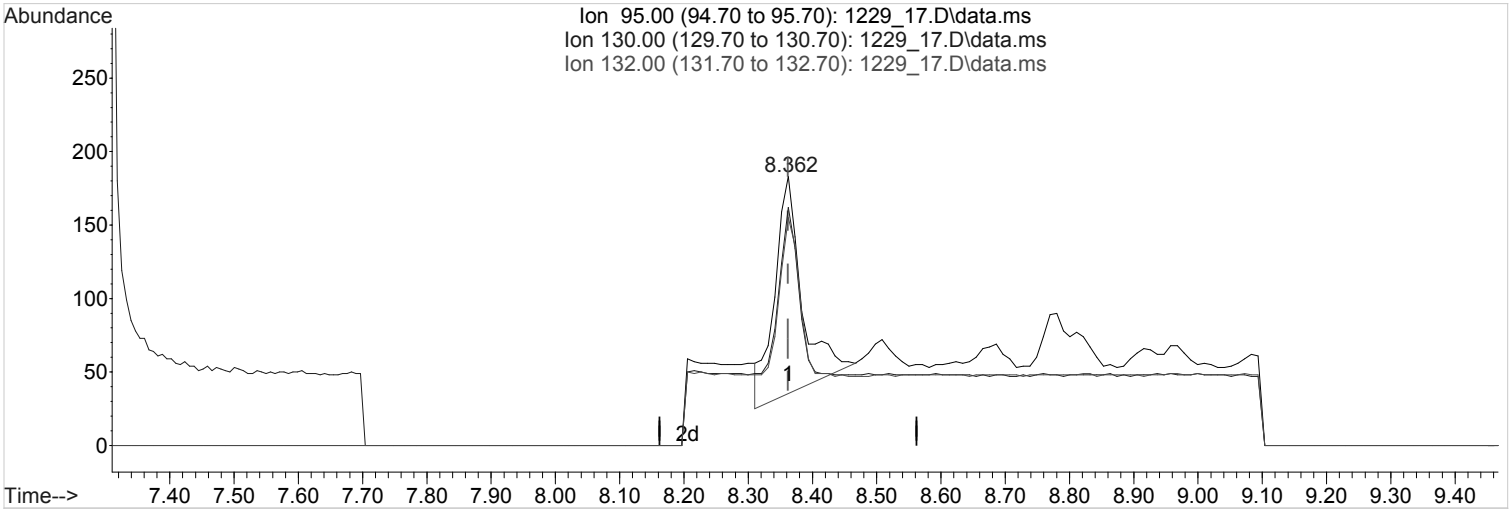
Ion	Ratio	Lower	Upper
128	100		
102	10.1	7.0	10.4
51	13.0	6.9	10.3#

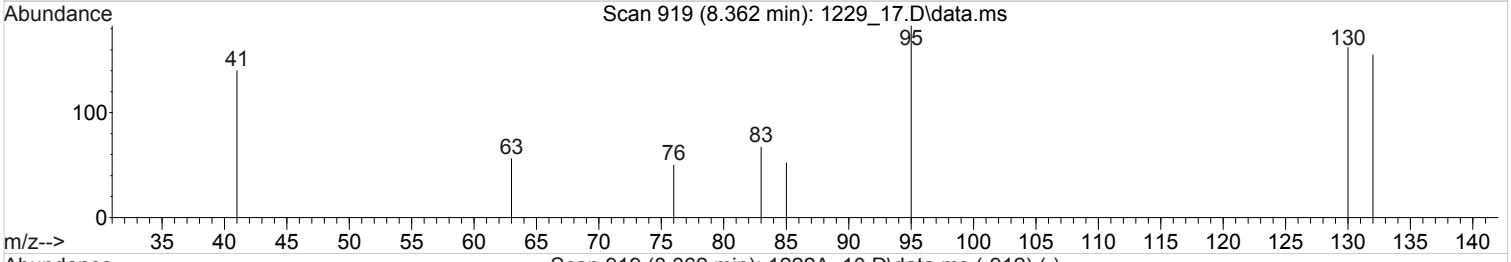


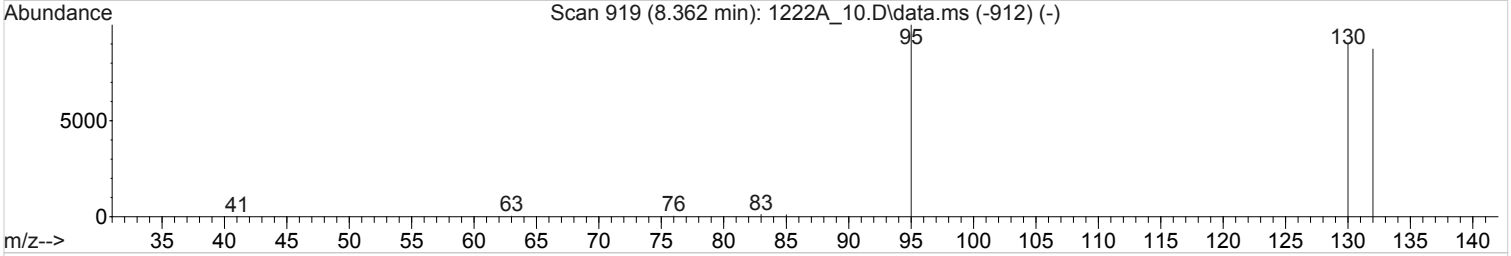
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_17.D
Acq On : 29 Dec 2022 7:54 pm
Operator :
Sample : L1570581-11 1x WG1980882
Misc :
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:19:34 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration







TIC: 1229_17.D\data.ms

(18) Trichloroethene (T,M)

8.362min (+0.000) 0.0240080 ppbv

Qvalue = 71

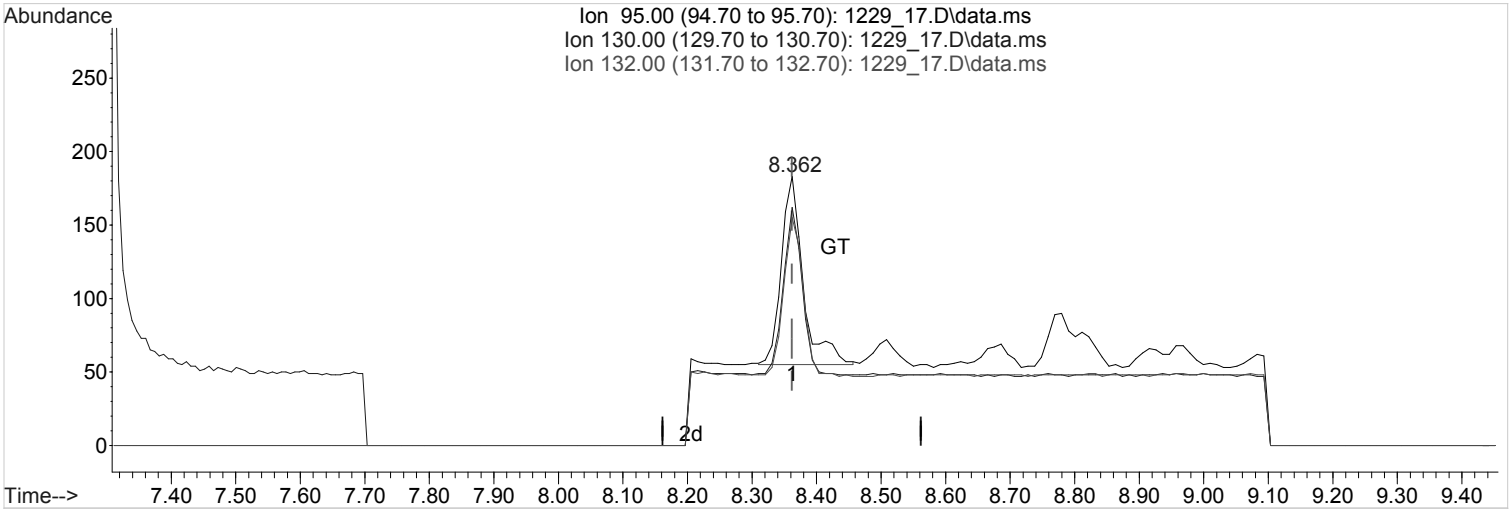
response 441 Limit = 0.0074600

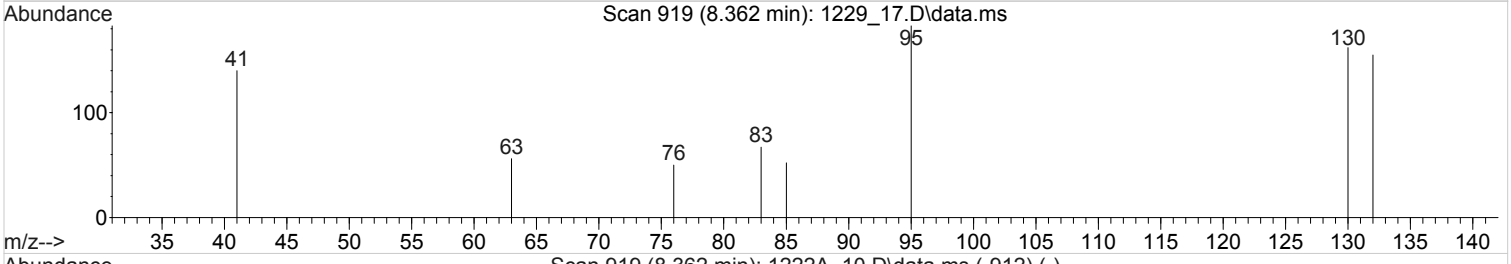
Ion	Exp%	Act%
95.00	100	100
130.00	91.20	71.66#
132.00	87.30	51.70#
0.00	0.00	0.00

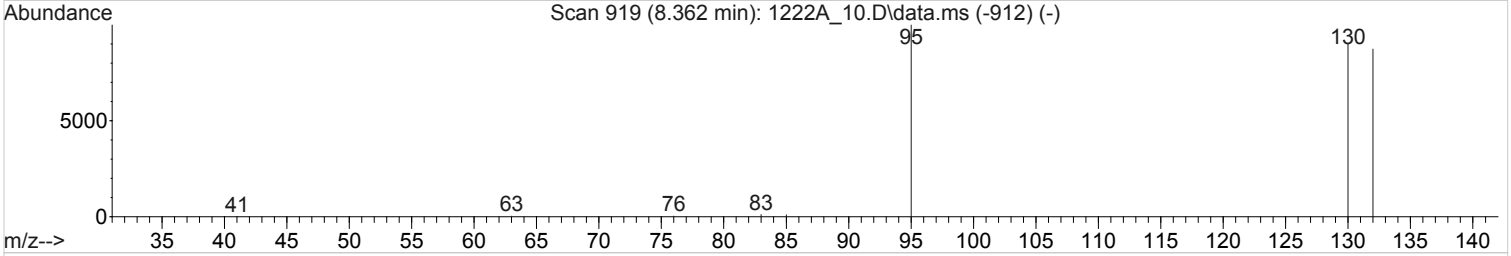
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_17.D
Acq On : 29 Dec 2022 7:54 pm
Operator :
Sample : L1570581-11 1x WG1980882
Misc :
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:19:34 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration







TIC: 1229_17.D\data.ms

(18) Trichloroethene (T,M)

8.362min (+0.000) 0.0165497 ppbv m

response 304 Limit = 0.0074600

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	103.95
132.00	87.30	75.00
0.00	0.00	0.00

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1570581 **Analytical Method:** TO-15-SIM

Instrument ID: AIRMS7

Analyte	**RRF: 0.02**	**RRF: 0.03**	**RRF: 0.06**	**RRF: 0.13**	**RRF: 0.25**	**RRF: 0.38**	**RRF: 0.5**	**RRF: 1.0**	**RRF: 5.0**	**RRF: 10.0**
Analysis date/time	12/22/22 18:41	12/22/22 19:20	12/22/22 19:58	12/22/22 20:35	12/22/22 21:15	12/22/22 21:55	12/22/22 22:37	12/22/22 23:14	12/22/22 23:56	12/23/22 00:43
VINYL CHLORIDE	0.5020	0.5390	0.5410	0.4930	0.4940	0.4830	0.4830	0.4860	0.4550	0.4430
1,1-DICHLOROETHENE	0.8980	0.9470	0.9620	0.8590	0.8920	0.8720	0.8970	0.9360	0.9610	0.9760
CIS-1,2-DICHLOROETHENE	0.4550	0.4990	0.5070	0.4460	0.4730	0.4690	0.4870	0.53	0.5710	0.5830
1,1,1-TRICHLOROETHANE	1.1380	1.25	1.2570	1.1080	1.15	1.12	1.1460	1.1970	1.1850	1.1850
CARBON TETRACHLORIDE	1.0330	1.1660	1.1990	1.0710	1.1810	1.0830	1.1040	1.16	1.1690	1.1680
BENZENE	0.6030	0.6070	0.5760	0.5140	0.5130	0.51	0.5230	0.4820	0.4850	0.4460
TRICHLOROETHENE	0.2230	0.2310	0.2310	0.20	0.1940	0.1850	0.1870	0.1920	0.1910	0.1870
TETRACHLOROETHENE	0.2290	0.2410	0.2460	0.2180	0.2220	0.2130	0.2170	0.2270	0.2310	0.2180
1,4-BROMOFLUOROBENZENE	0.62	0.6230	0.6270	0.6410	0.6530	0.66	0.6680	0.6770	0.6580	0.6770
File ID:	1222A_04	1222A_05	1222A_06	1222A_07	1222A_08	1222A_09	1222A_10	1222A_11	1222A_12	1222A_13

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1570581 **Analytical Method:** TO-15-SIM

Instrument ID: AIRMS7

Analyte Analysis date/time	RRF. Avg	%RSD	COD
VINYL CHLORIDE	0.492002	6.33	
1,1-DICHLOROETHENE	0.920009	4.49	
CIS-1,2-DICHLOROETHENE	0.502157	9.31	
1,1,1-TRICHLOROETHANE	1.173654	4.34	
CARBON TETRACHLORIDE	1.133463	4.94	
BENZENE	0.525778	10.13	
TRICHLOROETHENE	0.201998	9.27	
TETRACHLOROETHENE	0.226213	4.76	
1,4-BROMOFLUOROBENZENE	0.65045	3.3	

Response Factor Report AIRMS7

Method Path : C:\msdchem\1\methods\
Method File : TOSIMMS7L22AV.M
Title : AIRMS5
Last Update : Fri Dec 23 09:26:44 2022
Response Via : Initial Calibration

Calibration Files
0.02=1222A_04.D 0.03=1222A_05.D 0.06=1222A_06.D 0.13=1222A_07.D 0.25=1222A_08.D 0.38=1222A_09.D 0.5 =1222A_10.D
1.0 =1222A_11.D 5.0 =1222A_12.D 10.0=1222A_13.D

		Compound	0.02	0.03	0.06	0.13	0.25	0.38	0.5	1.0	5.0	10.0	Avg	%RSD
1)	I	Bromochloromethane	----------	ISTD	----------									
2)	T,M	Chloromethane	0.667	0.672	0.636	0.539	0.542	0.523	0.528	0.544	0.521	0.513	0.569	11.13
3)	T,M	Vinyl Chloride	0.502	0.539	0.541	0.493	0.494	0.483	0.483	0.486	0.455	0.443	0.492	6.33
4)	T,M	1,3-Butadiene	0.375	0.400	0.391	0.344	0.357	0.345	0.343	0.365	0.349	0.340	0.361	5.93
5)	T,M	Chloroethane	0.192	0.199	0.208	0.182	0.197	0.189	0.192	0.195	0.186	0.181	0.192	4.21
6)	T,M	1,1-Dichloroet...	0.898	0.947	0.962	0.859	0.892	0.872	0.897	0.936	0.961	0.976	0.920	4.49
7)	T,M	Methyl Tert-Bu...	1.022	1.082	1.095	0.970	1.020	1.055	1.064	1.111	1.275	1.352	1.105	10.76
8)	T,M	Trans-1,2-Dich...	0.788	0.873	0.935	0.823	0.873	0.840	0.856	0.903	0.929	0.947	0.877	5.93
9)	T,M	1,1-Dichloroet...	1.108	1.199	1.205	1.080	1.119	1.094	1.118	1.179	1.167	1.154	1.142	3.90
10)	T,M	Vinyl Acetate	1.765	1.956	1.966	1.777	1.867	1.813	1.903	2.149	2.373	2.450	2.002	12.17
11)	T,M	cis-1,2-Dichlo...	0.455	0.499	0.507	0.446	0.473	0.469	0.487	0.530	0.571	0.583	0.502	9.31
12)	T,M	Chloroform	1.166	1.219	1.234	1.104	1.134	1.097	1.125	1.175	1.147	1.141	1.154	3.92
13)	T,M	1,1,1-Trichlor...	1.138	1.250	1.257	1.108	1.150	1.120	1.146	1.197	1.185	1.185	1.174	4.34
14)	T,M	Carbon Tetrach...	1.033	1.166	1.199	1.071	1.181	1.083	1.104	1.160	1.169	1.168	1.133	4.94
15)	T,M	1,2-Dichloroet...	0.751	0.833	0.928	0.782	0.810	0.792	0.816	0.863	0.837	0.822	0.823	5.86
16)	I	1,4-Difluorobenzene	----------	ISTD	----------									
17)	T,M	Benzene	0.603	0.607	0.576	0.514	0.513	0.510	0.523	0.482	0.485	0.446	0.526	10.13
18)	T,M	Trichloroethene	0.223	0.231	0.231	0.200	0.194	0.185	0.187	0.192	0.191	0.187	0.202	9.27
19)	T,M	1,2-Dichloropr...	0.189	0.207	0.209	0.188	0.190	0.184	0.188	0.199	0.197	0.184	0.193	4.66
20)	T,M	Bromodichlorom...	0.348	0.379	0.393	0.345	0.349	0.333	0.335	0.347	0.341	0.318	0.349	6.31
21)	T,M	cis-1,3-Dichlo...	0.203	0.228	0.234	0.206	0.209	0.203	0.207	0.223	0.247	0.252	0.221	8.36
22)	T,M	Toluene	0.426	0.444	0.442	0.399	0.424	0.430	0.453	0.502	0.549	0.521	0.459	10.52
23)	T,M	trans-1,3-Dich...	0.193	0.203	0.213	0.187	0.193	0.190	0.195	0.218	0.240	0.239	0.207	9.54
24)	T,M	1,1,2-Trichlor...	0.203	0.222	0.223	0.202	0.201	0.192	0.195	0.202	0.198	0.183	0.202	6.20
25)	T,M	Tetrachloroethene	0.229	0.241	0.246	0.218	0.222	0.213	0.217	0.227	0.231	0.218	0.226	4.76
26)	T,M	1,2-Dibromoethane	0.258	0.279	0.300	0.259	0.263	0.255	0.260	0.280	0.292	0.283	0.273	5.83
27)	I	Chlorobenzene-d5	----------	ISTD	----------									
28)	T,M	Ethylbenzene	0.464	0.509	0.520	0.478	0.518	0.524	0.560	0.640	0.673	0.679	0.556	14.19
29)	T,M	M&P-Xylene	0.320	0.350	0.360	0.332	0.364	0.374	0.402	0.472	0.525	0.533	0.403	19.46
30)	T,M	O-Xylene	0.304	0.336	0.343	0.312	0.334	0.333	0.349	0.385	0.469	0.511	0.368	18.71
31)	T,M	1,1,2,2-Tetrac...	0.508	0.549	0.574	0.521	0.516	0.491	0.496	0.489	0.442	0.440	0.503	8.35
32)	S	1,4-Bromofluor...	0.620	0.623	0.627	0.641	0.653	0.660	0.668	0.677	0.658	0.677	0.650	3.30
33)	T,M	1,4-Dichlorobe...	0.281	0.299	0.343	0.329	0.360	0.382	0.403	0.442	0.437	0.433	0.371	15.64
34)	T,M	Naphthalene	0.321	0.337	0.371	0.362	0.391	0.413	0.437	0.535	0.773	0.850	0.479	38.84

(#) = Out of Range

BHATE Environmental - Birmingham
MSC2021.0012
L1570581
02/27/23 16:12
391 of 500

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:09:14 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration

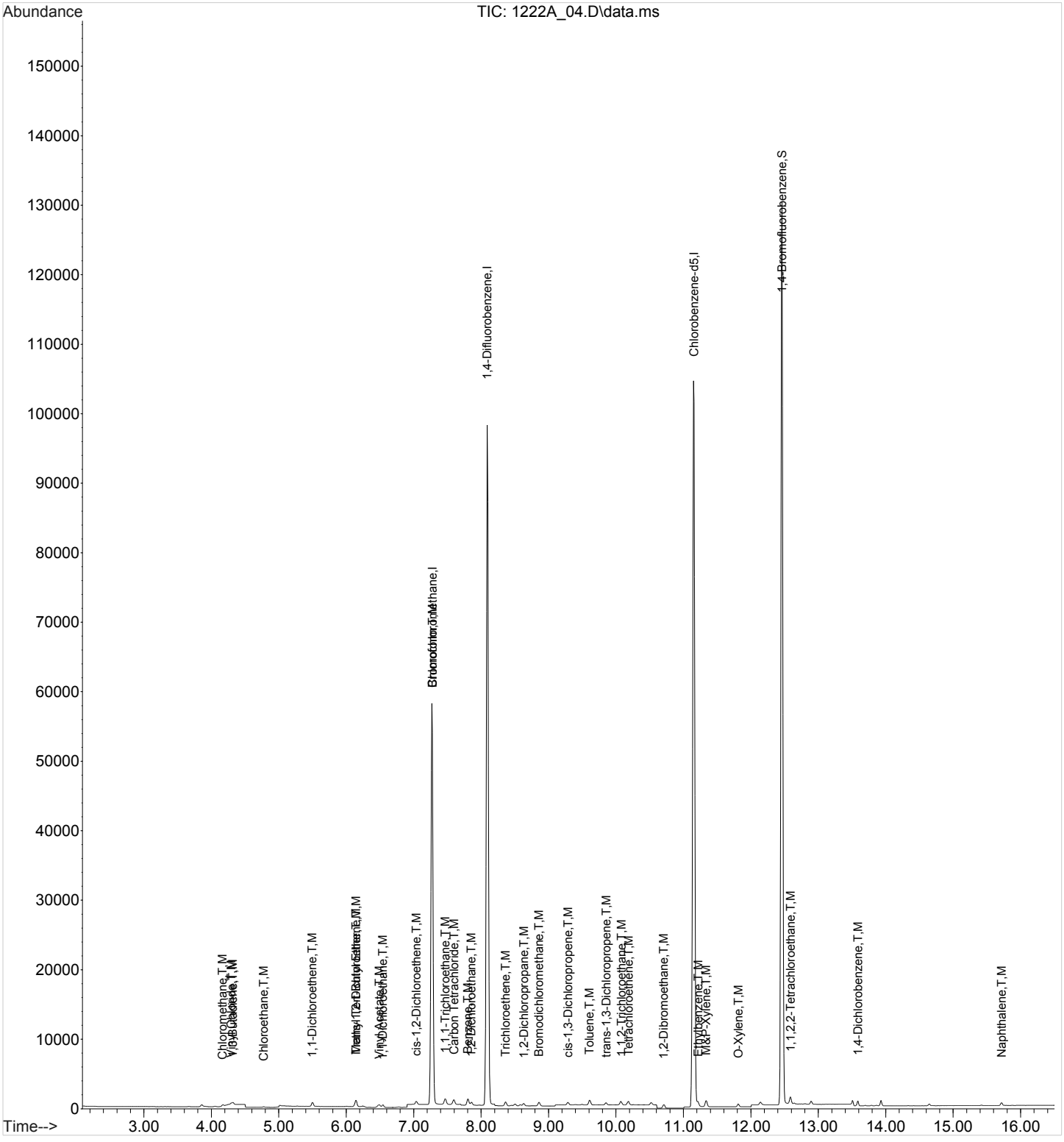
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	38711	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	130279	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.156	117	117699	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.463	95	72954	1.1604987	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 92.84%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	413	0.0252367	ppbv #	84
3) Vinyl Chloride	4.293	62	311m	0.0207772	ppbv	
4) 1,3-Butadiene	4.316	39	232m	0.0210145	ppbv	
5) Chloroethane	4.774	64	119m	0.0200397	ppbv	
6) 1,1-Dichloroethene	5.495	61	556	0.0199760	ppbv	98
7) Methyl Tert-Butyl Ether	6.144	73	633	0.0192124	ppbv #	48
8) Trans-1,2-Dichloroethene	6.144	61	488	0.0184140	ppbv	96
9) 1,1-Dichloroethane	6.541	63	686	0.0198150	ppbv #	69
10) Vinyl Acetate	6.489	43	1093	0.0185470	ppbv #	88
11) cis-1,2-Dichloroethene	7.038	96	282	0.0187129	ppbv	97
12) Chloroform	7.276	83	722	0.0207272	ppbv	96
13) 1,1,1-Trichloroethane	7.465	97	705	0.0198664	ppbv	99
14) Carbon Tetrachloride	7.599	117	640	0.0187135	ppbv	97
15) 1,2-Dichloroethane	7.853	62	465	0.0183929	ppbv #	47
17) Benzene	7.801	78	1256	0.0230485	ppbv	94
18) Trichloroethene	8.362	95	465m	0.0238932	ppbv	
19) 1,2-Dichloropropane	8.634	63	395	0.0201667	ppbv	97
20) Bromodichloromethane	8.853	83	726	0.0207790	ppbv	98
21) cis-1,3-Dichloropropene	9.287	75	424	0.0196576	ppbv #	87
22) Toluene	9.606	91	889	0.0188187	ppbv	100
23) trans-1,3-Dichloropropene	9.857	75	403	0.0198029	ppbv #	84
24) 1,1,2-Trichloroethane	10.079	97	424	0.0208679	ppbv	99
25) Tetrachloroethene	10.185	166	477	0.0211006	ppbv	99
26) 1,2-Dibromoethane	10.708	107	538	0.0198705	ppbv	98
28) Ethylbenzene	11.216	91	874	0.0165803	ppbv	100
29) M&P-Xylene	11.336	91	1206	0.0318049	ppbv	100
30) O-Xylene	11.815	91	573	0.0174500	ppbv	99
31) 1,1,2,2-Tetrachloroethane	12.588	83	956	0.0204669	ppbv	98
33) 1,4-Dichlorobenzene	13.588	146	529	0.0139428	ppbv #	87
34) Naphthalene	15.718	128	604	0.0146885	ppbv #	76

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

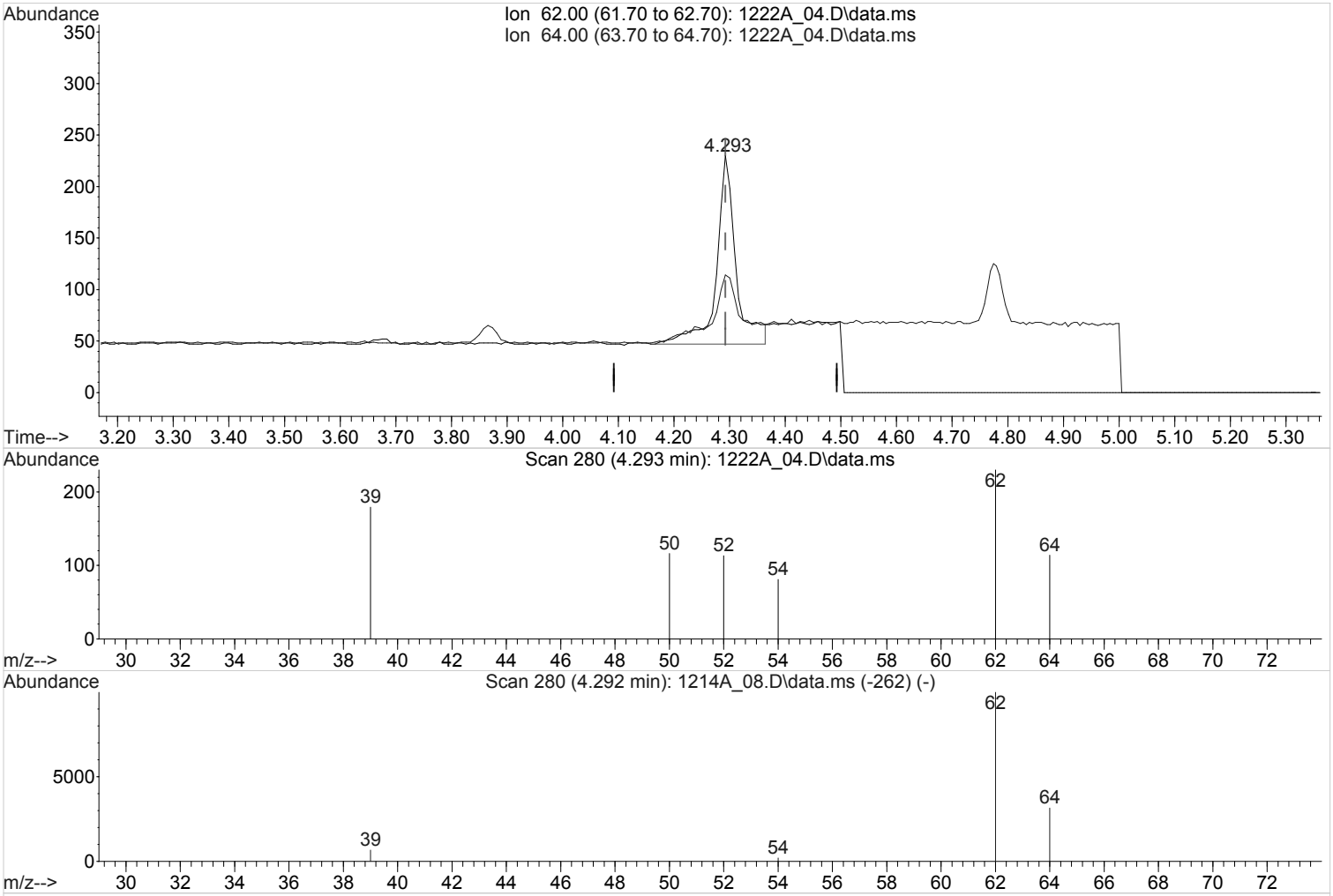
Quant Time: Dec 23 09:09:14 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration



TIC: 1222A_04.D\data.ms

(3) Vinyl Chloride (T,M)

4.293min (+0.000) 0.0297294 ppbv

Qvalue = 66

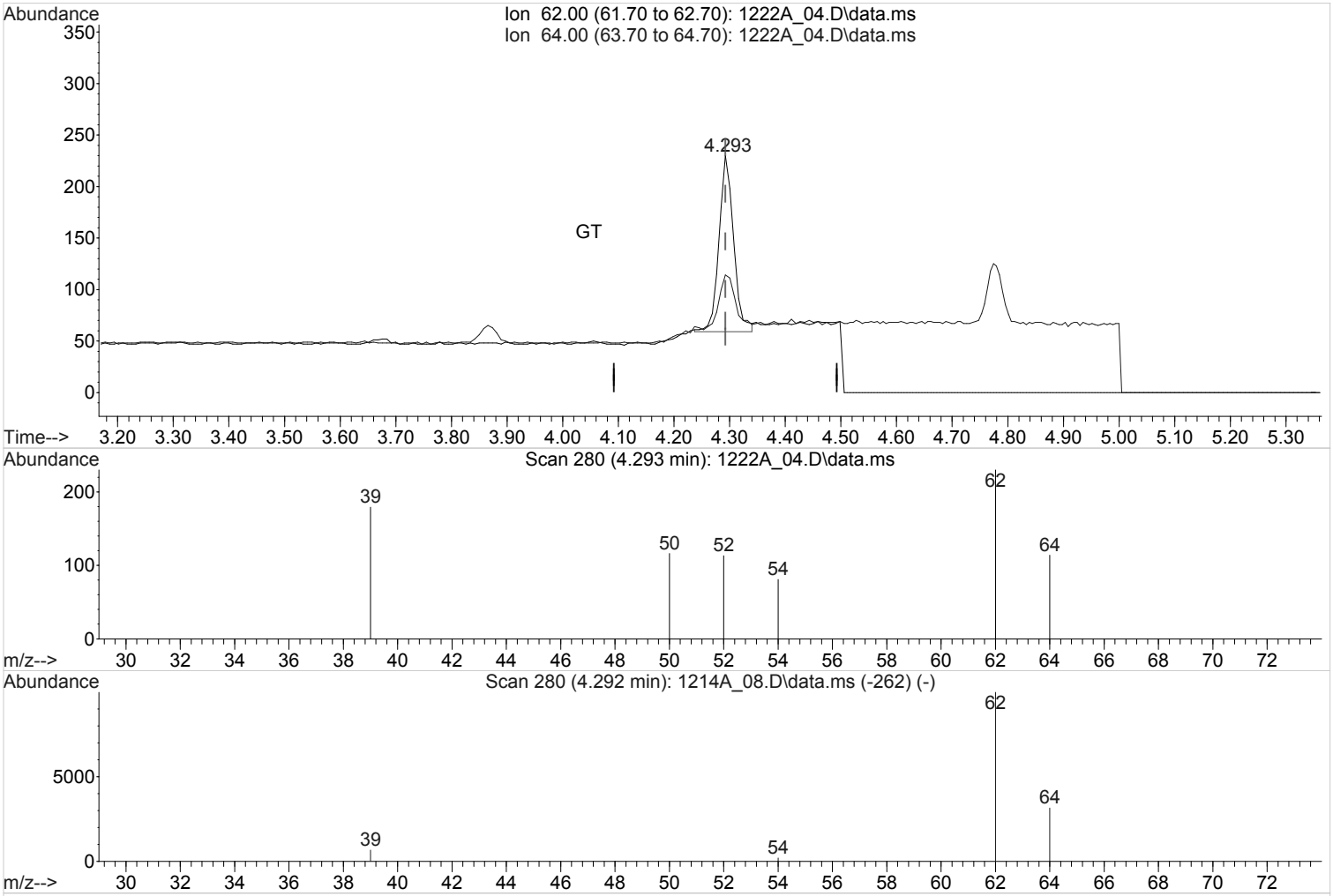
response 445

Ion	Exp%	Act%
62.00	100	100
64.00	33.30	52.81#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration



TIC: 1222A_04.D\data.ms

(3) Vinyl Chloride (T,M)

4.293min (+0.000) 0.0207772 ppbv m

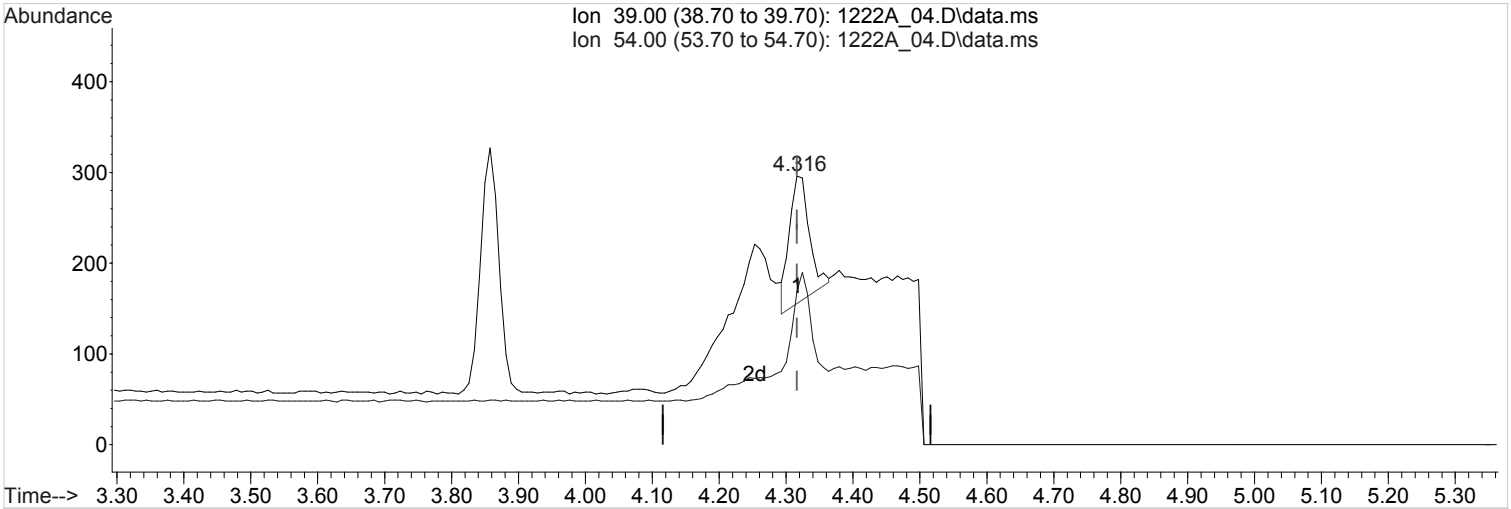
response 311

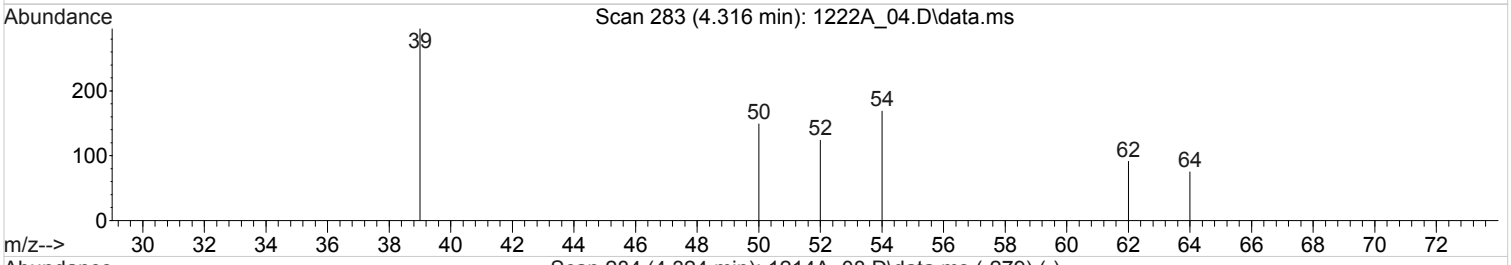
Ion	Exp%	Act%
62.00	100	100
64.00	33.30	75.56#
0.00	0.00	0.00
0.00	0.00	0.00

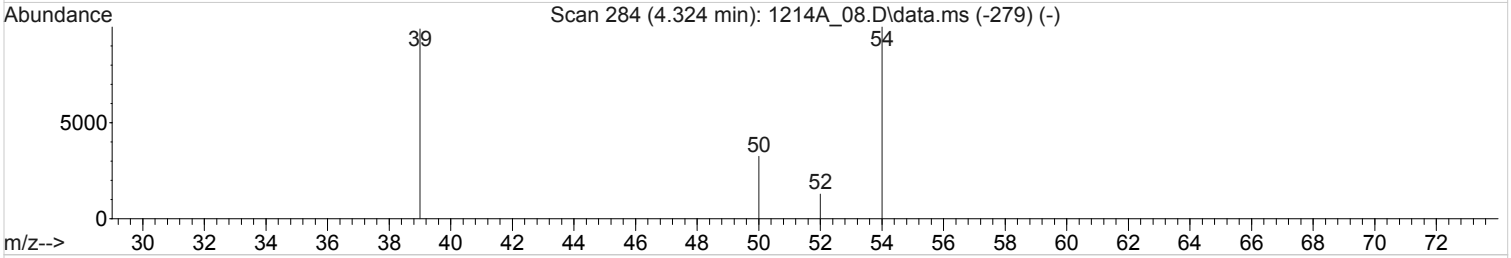
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration







TIC: 1222A_04.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.0263587 ppbv

Qvalue = 76

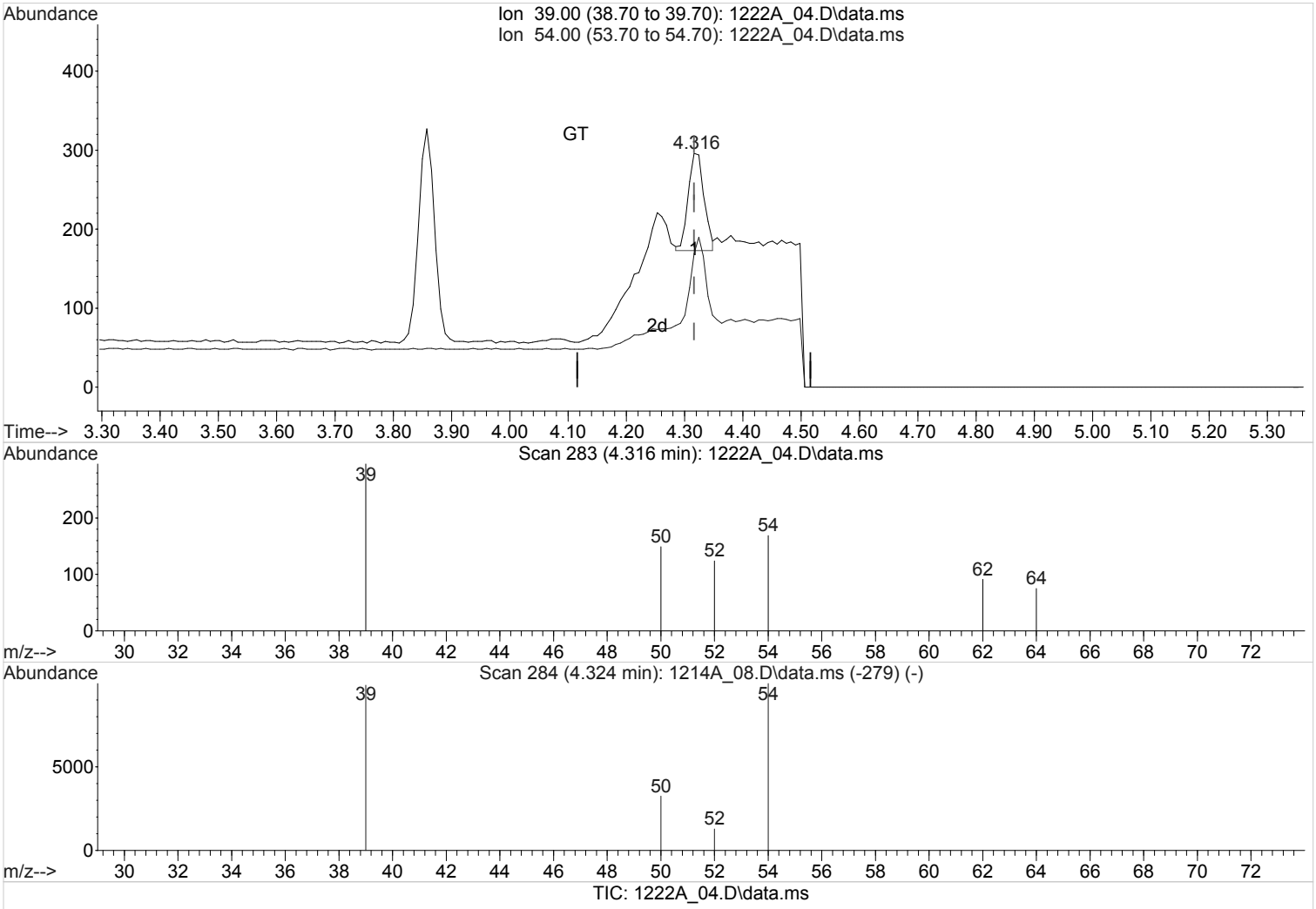
response 291

Ion	Exp%	Act%
39.00	100	100
54.00	90.30	67.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration



TIC: 1222A_04.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.0210145 ppbv m

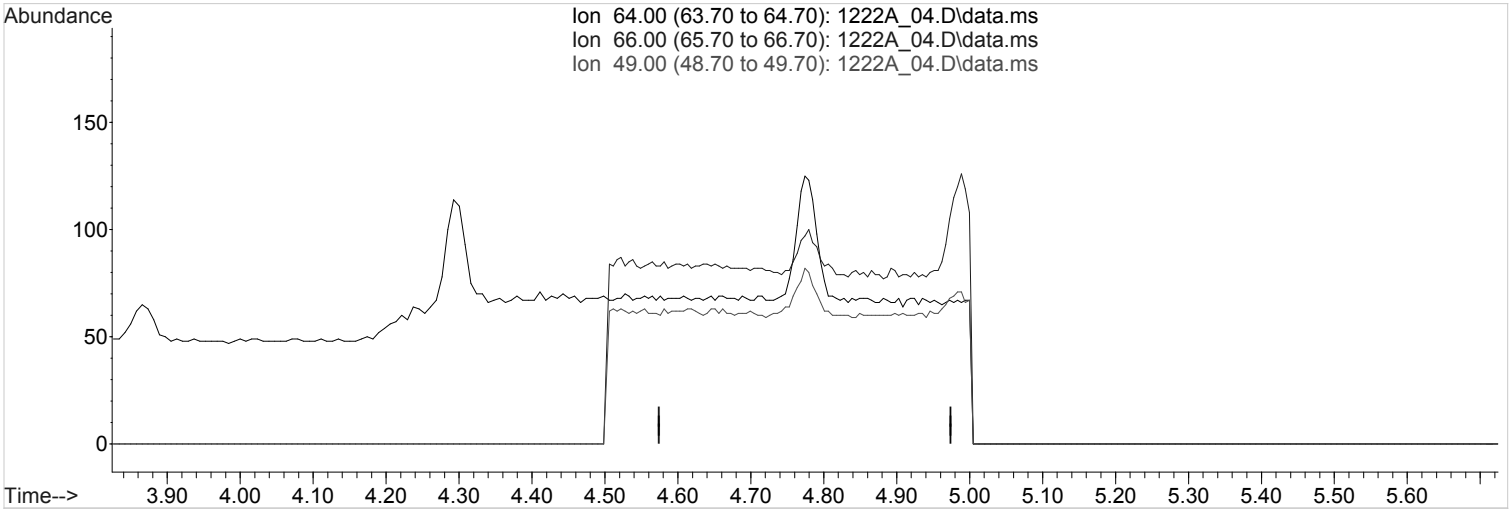
response 232

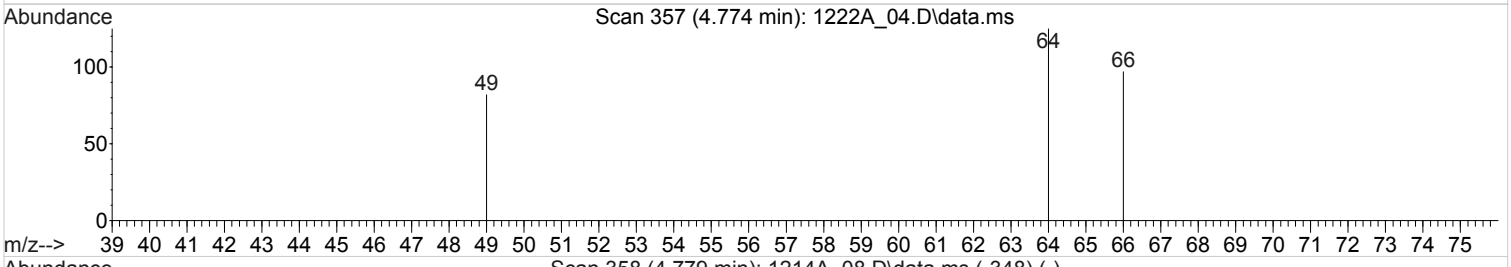
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	84.91
0.00	0.00	0.00
0.00	0.00	0.00

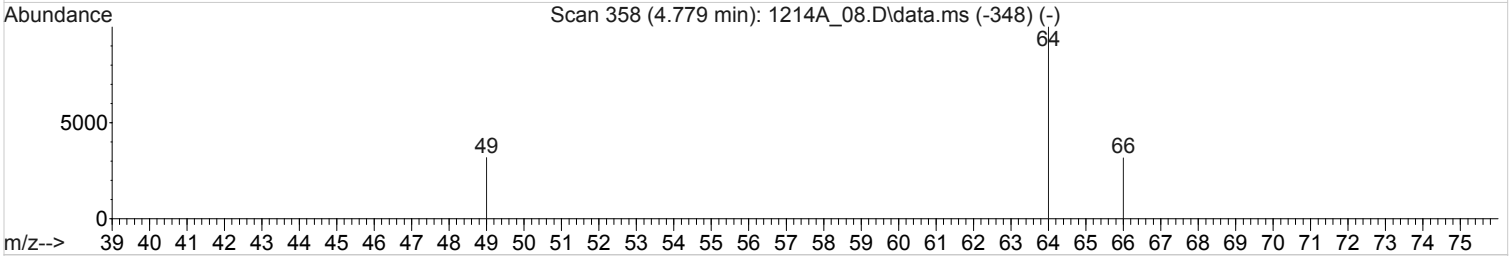
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration







TIC: 1222A_04.D\data.ms

(5) Chloroethane (T,M)

4.774min (-4.774) 0.0000000 ppbv

Qvalue = 0

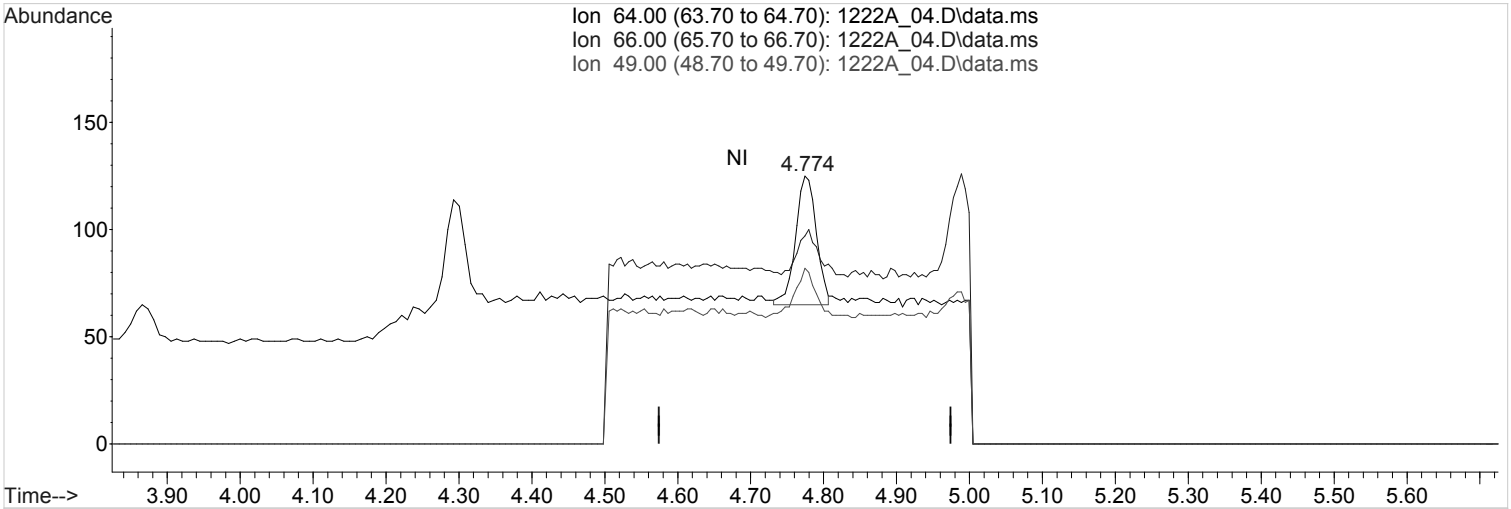
response 0

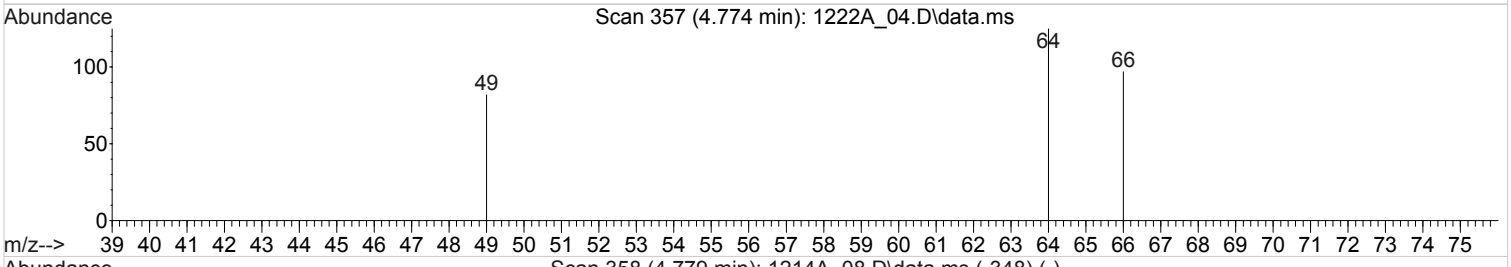
Ion	Exp%	Act%
64.00	100	0.00
66.00	32.20	0.00#
49.00	33.80	0.00#
0.00	0.00	0.00

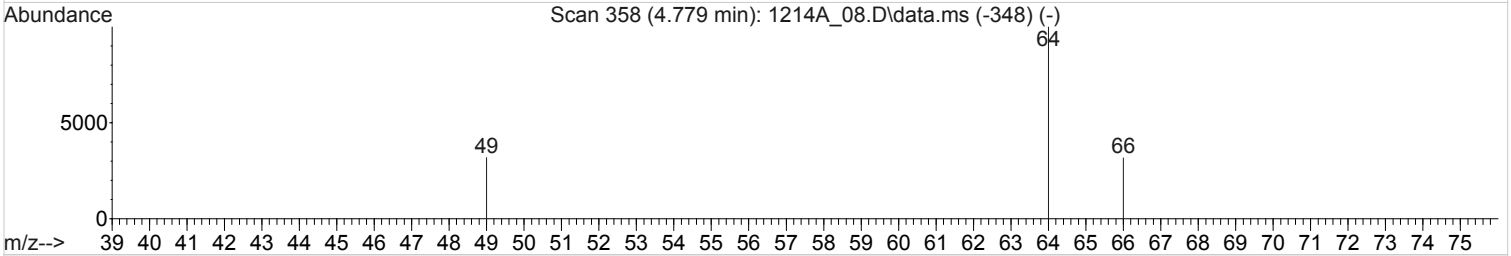
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration







TIC: 1222A_04.D\data.ms

(5) Chloroethane (T,M)

4.774min (+0.000) 0.0200397 ppbv m

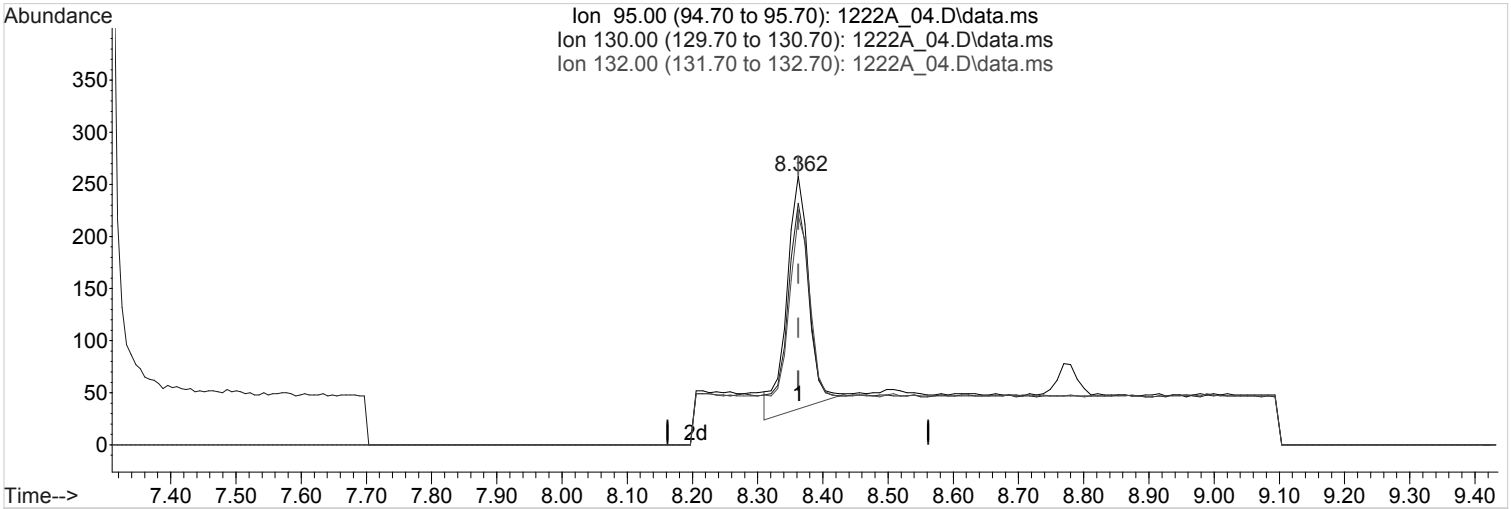
response 119

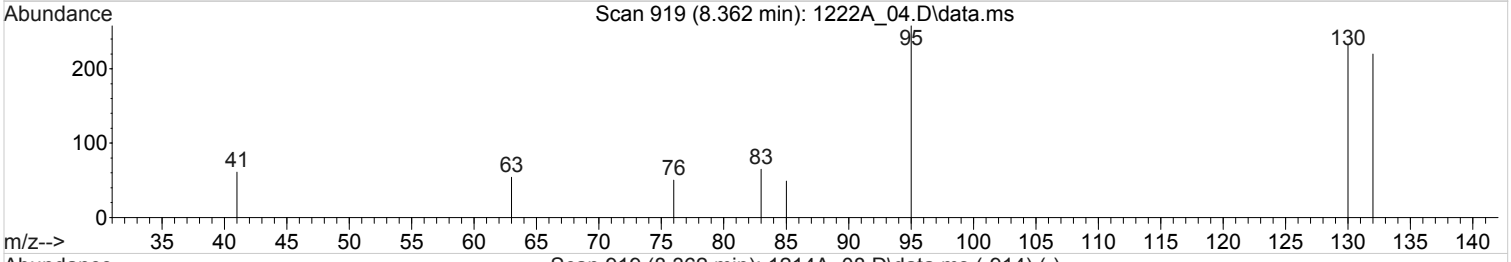
Ion	Exp%	Act%
64.00	100	100
66.00	32.20	0.00#
49.00	33.80	0.00#
0.00	0.00	0.00

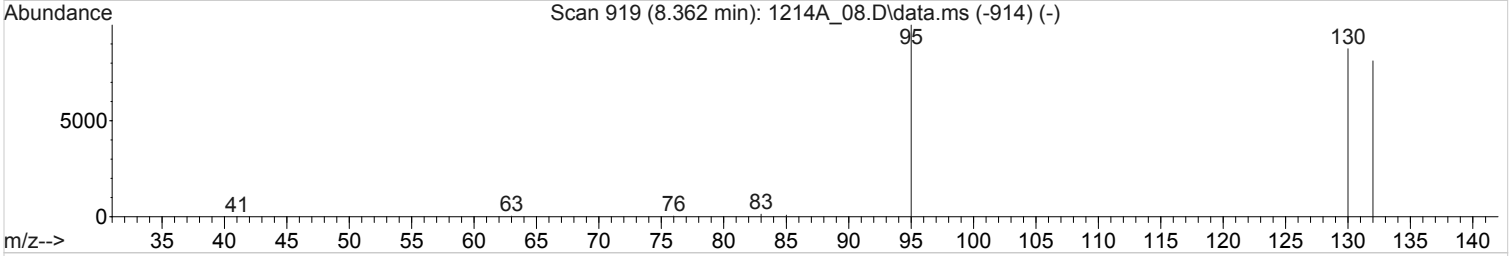
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration







TIC: 1222A_04.D\data.ms

(18) Trichloroethene (T,M)

8.362min (+0.000) 0.0271303 ppbv

Qvalue = 95

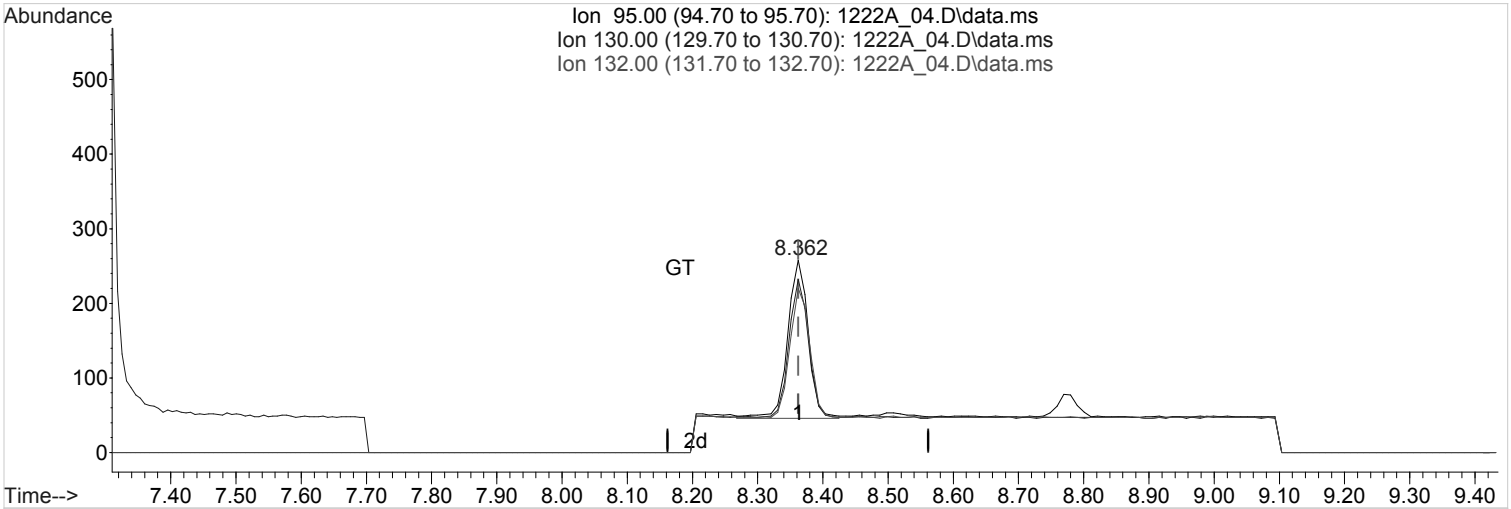
response 528

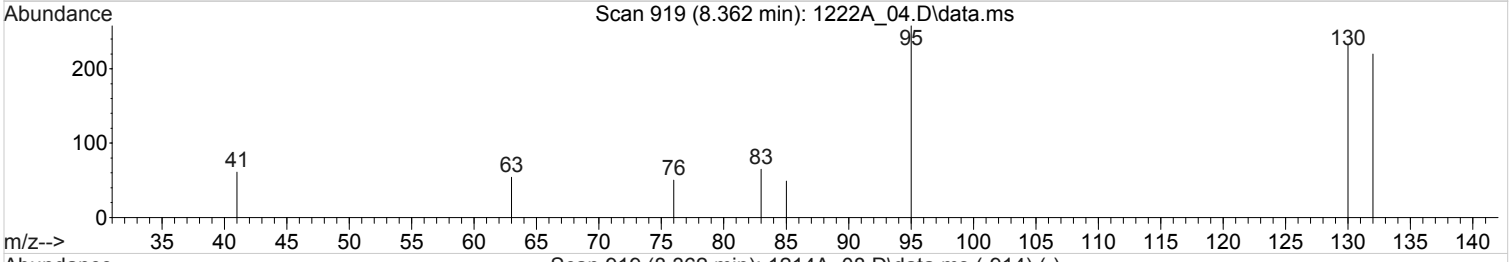
Ion	Exp%	Act%
95.00	100	100
130.00	91.20	85.98
132.00	87.30	83.14
0.00	0.00	0.00

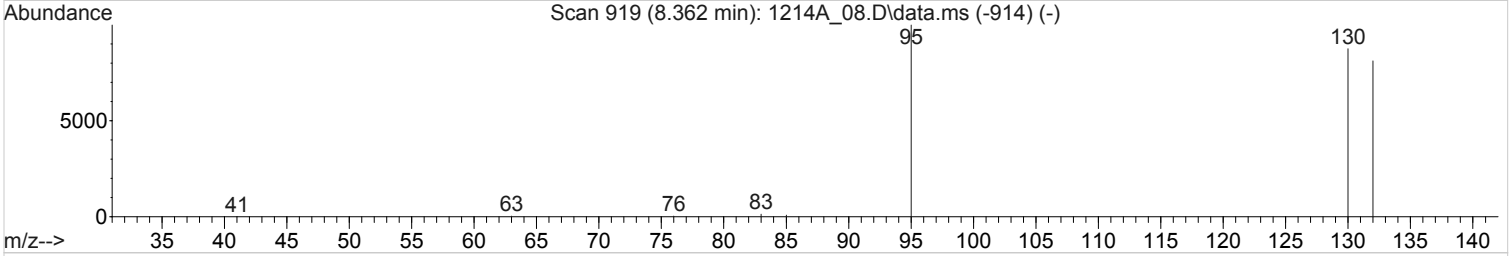
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_04.D
Acq On : 22 Dec 2022 6:41 pm
Operator :
Sample : STD AMS 0.019 ppbv 22L13276
Misc : 22L15639
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:07:17 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:06:48 2022
Response via : Initial Calibration







TIC: 1222A_04.D\data.ms

(18) Trichloroethene (T,M)

8.362min (+0.000) 0.0238932 ppbv m

response 465

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	97.63
132.00	87.30	94.41
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:13 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration

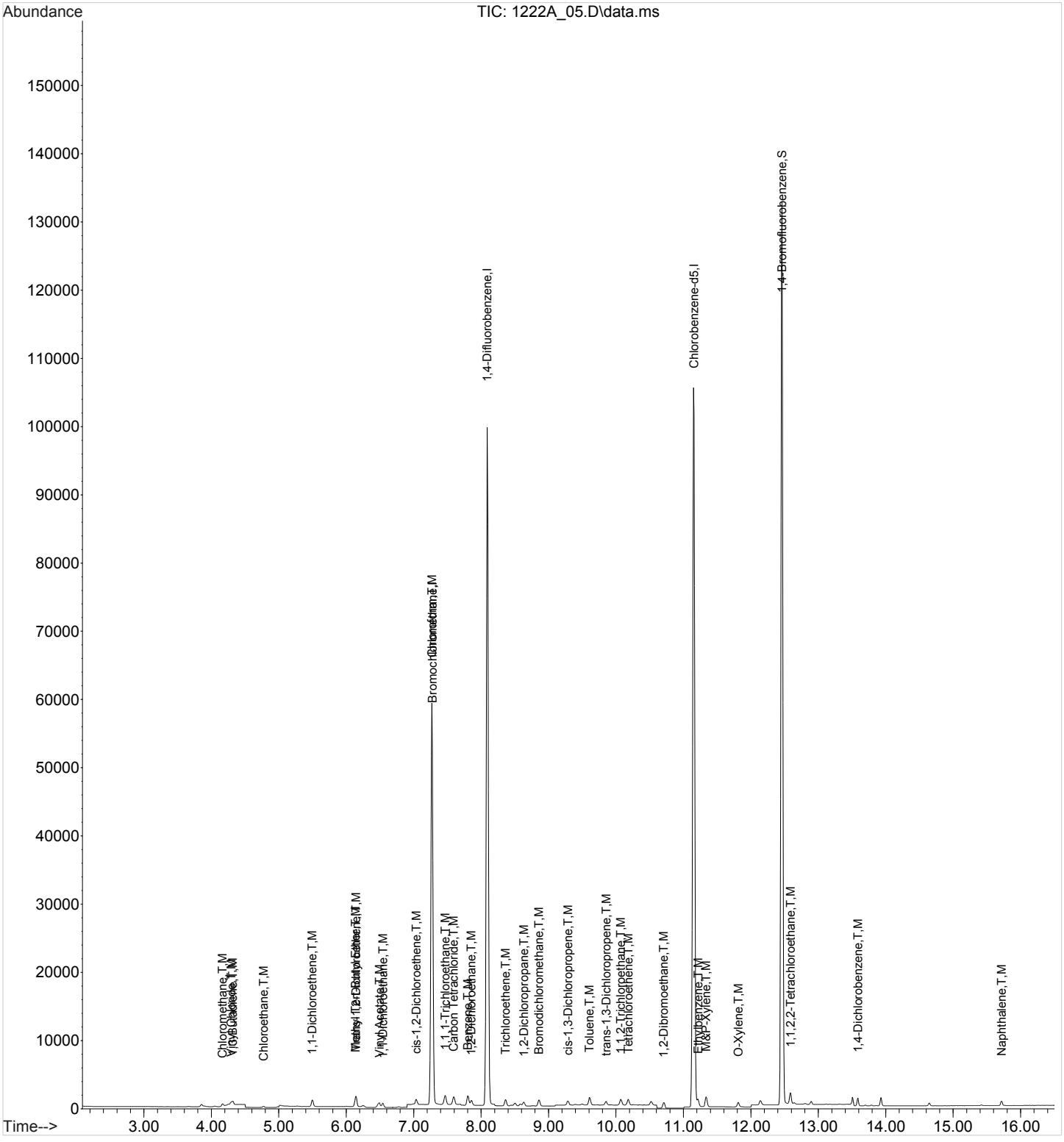
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.276	130	39080	1.2500000	ppbv		0.00
16) 1,4-Difluorobenzene	8.091	114	131327	1.2500000	ppbv		0.00
27) Chlorobenzene-d5	11.156	117	118611	1.2500000	ppbv		0.00
System Monitoring Compounds							
32) 1,4-Bromofluorobenzene	12.463	95	73936	1.2104097	ppbv		0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 96.83%				
Target Compounds							Qvalue
2) Chloromethane	4.166	50	630	0.0337188	ppbv	#	85
3) Vinyl Chloride	4.293	62	506m	0.0328473	ppbv		
4) 1,3-Butadiene	4.316	39	375m	0.0328144	ppbv		
5) Chloroethane	4.774	64	187	0.0311627	ppbv	#	42
6) 1,1-Dichloroethene	5.495	61	888	0.0316218	ppbv		96
7) Methyl Tert-Butyl Ether	6.136	73	1015	0.0311287	ppbv	#	79
8) Trans-1,2-Dichloroethene	6.144	61	819	0.0318759	ppbv		100
9) 1,1-Dichloroethane	6.544	63	1125	0.0323382	ppbv	#	69
10) Vinyl Acetate	6.492	43	1835	0.0320066	ppbv	#	88
11) cis-1,2-Dichloroethene	7.038	96	468	0.0317850	ppbv	#	81
12) Chloroform	7.269	83	1143	0.0319231	ppbv		99
13) 1,1,1-Trichloroethane	7.465	97	1172	0.0328239	ppbv		99
14) Carbon Tetrachloride	7.592	117	1094	0.0327393	ppbv		97
15) 1,2-Dichloroethane	7.853	62	781	0.0318814	ppbv		97
17) Benzene	7.801	78	1913	0.0323587	ppbv	#	90
18) Trichloroethene	8.362	95	728m	0.0338170	ppbv		
19) 1,2-Dichloropropane	8.634	63	654	0.0329860	ppbv		94
20) Bromodichloromethane	8.853	83	1196	0.0333091	ppbv		100
21) cis-1,3-Dichloropropene	9.287	75	720	0.0334003	ppbv		99
22) Toluene	9.606	91	1398	0.0302507	ppbv		99
23) trans-1,3-Dichloropropene	9.857	75	639	0.0313033	ppbv	#	85
24) 1,1,2-Trichloroethane	10.069	97	701	0.0334987	ppbv		99
25) Tetrachloroethene	10.185	166	760	0.0324580	ppbv		99
26) 1,2-Dibromoethane	10.708	107	878	0.0322738	ppbv		100
28) Ethylbenzene	11.216	91	1448	0.0298064	ppbv		100
29) M&P-Xylene	11.336	91	1990	0.0580207	ppbv		99
30) O-Xylene	11.815	91	956	0.0308571	ppbv		99
31) 1,1,2,2-Tetrachloroethane	12.588	83	1563	0.0328217	ppbv		97
33) 1,4-Dichlorobenzene	13.588	146	852	0.0262599	ppbv		99
34) Naphthalene	15.718	128	959	0.0266858	ppbv	#	76

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:13 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration

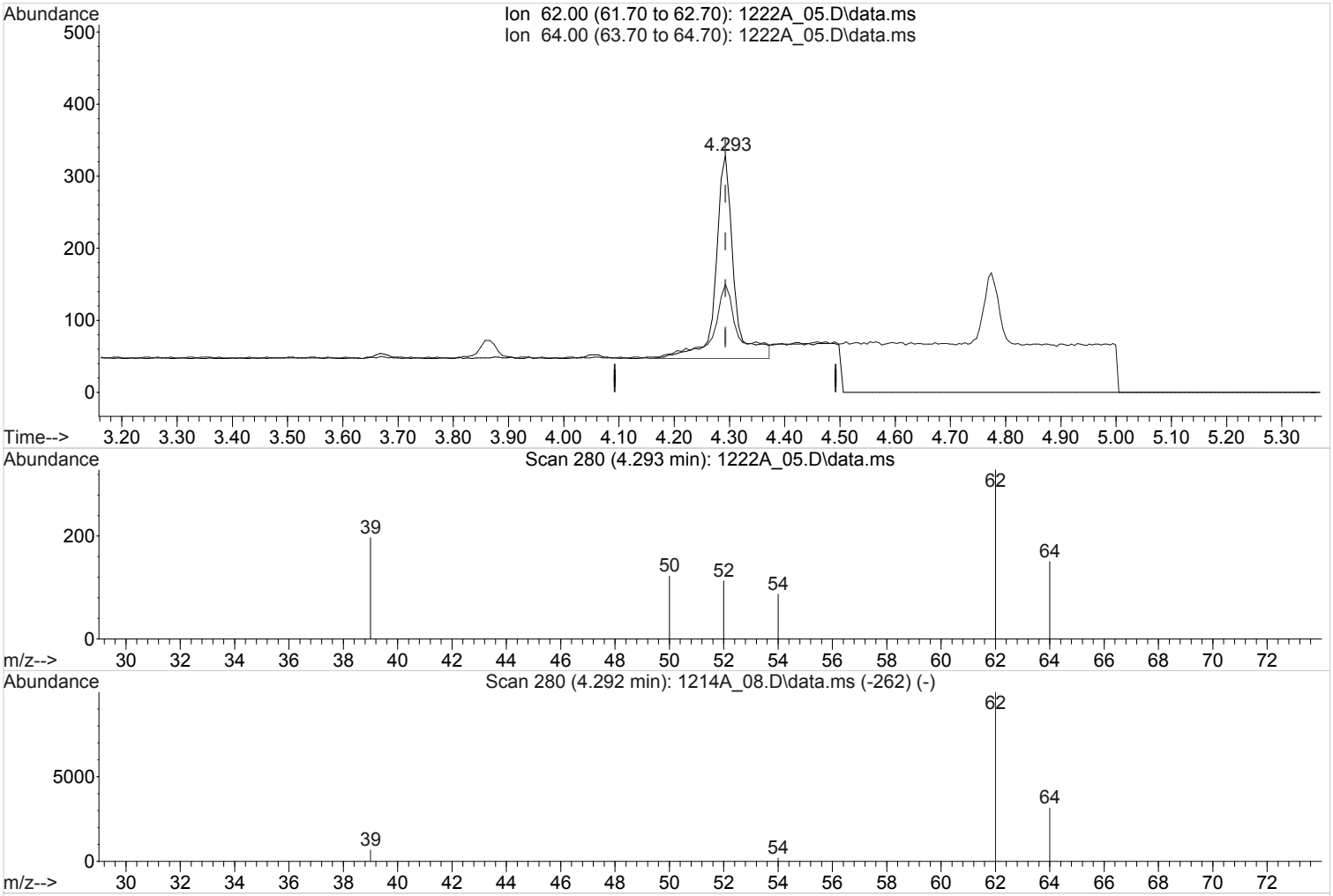


ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	403 of 500

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:10:53 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration



TIC: 1222A_05.D\data.ms

(3) Vinyl Chloride (T,M)

4.293min (+0.000) 0.0414811 ppbv

Qvalue = 81

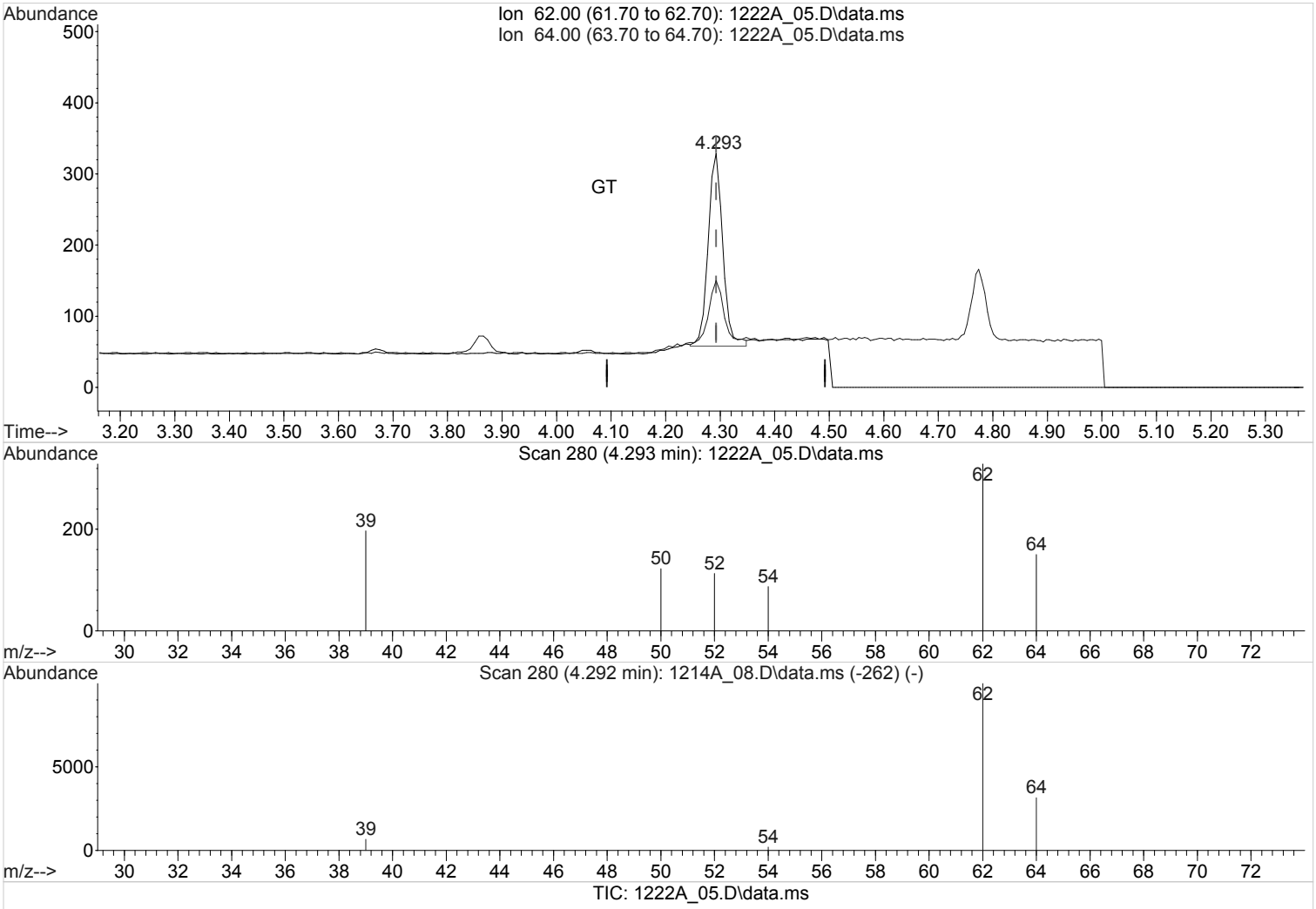
response 639

Ion	Exp%	Act%
62.00	100	100
64.00	33.30	43.82#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:10:53 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration



TIC: 1222A_05.D\data.ms

(3) Vinyl Chloride (T,M)

4.293min (+0.000) 0.0328473 ppbv m

response 506

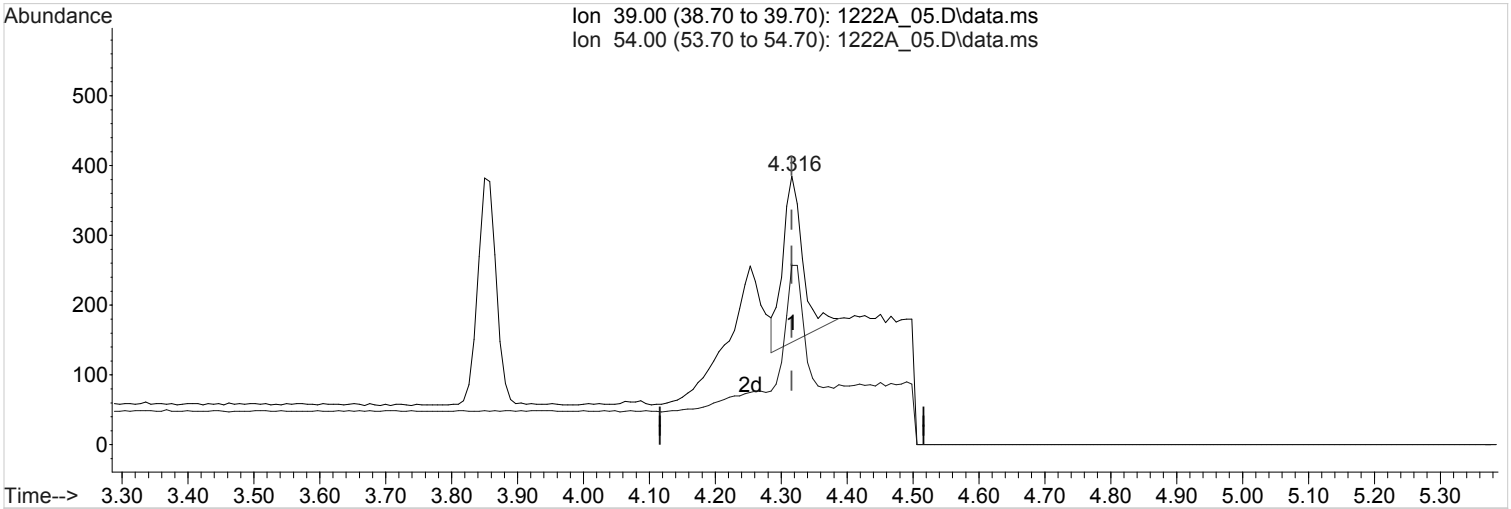
Ion	Exp%	Act%
62.00	100	100
64.00	33.30	55.34#
0.00	0.00	0.00
0.00	0.00	0.00

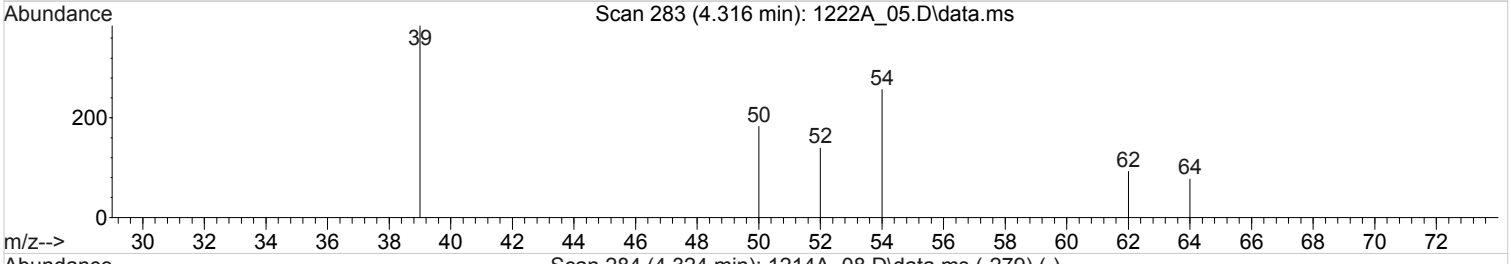
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	405 of 500

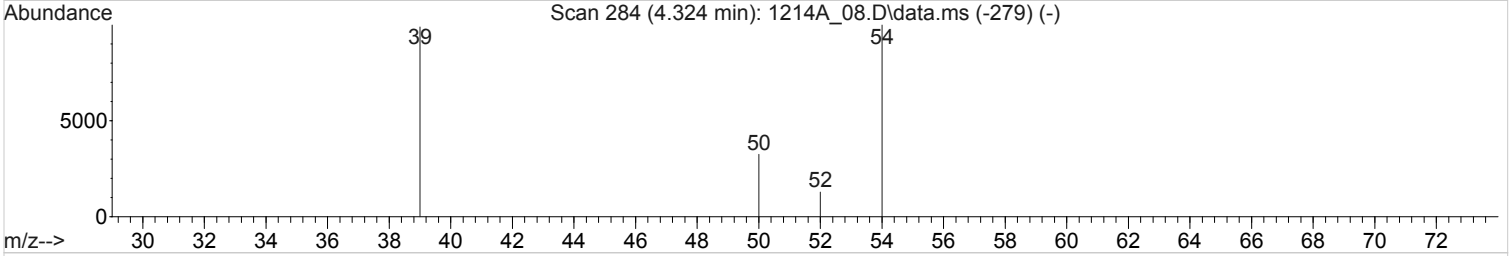
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:10:53 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration







TIC: 1222A_05.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.0439276 ppbv

Qvalue = 77

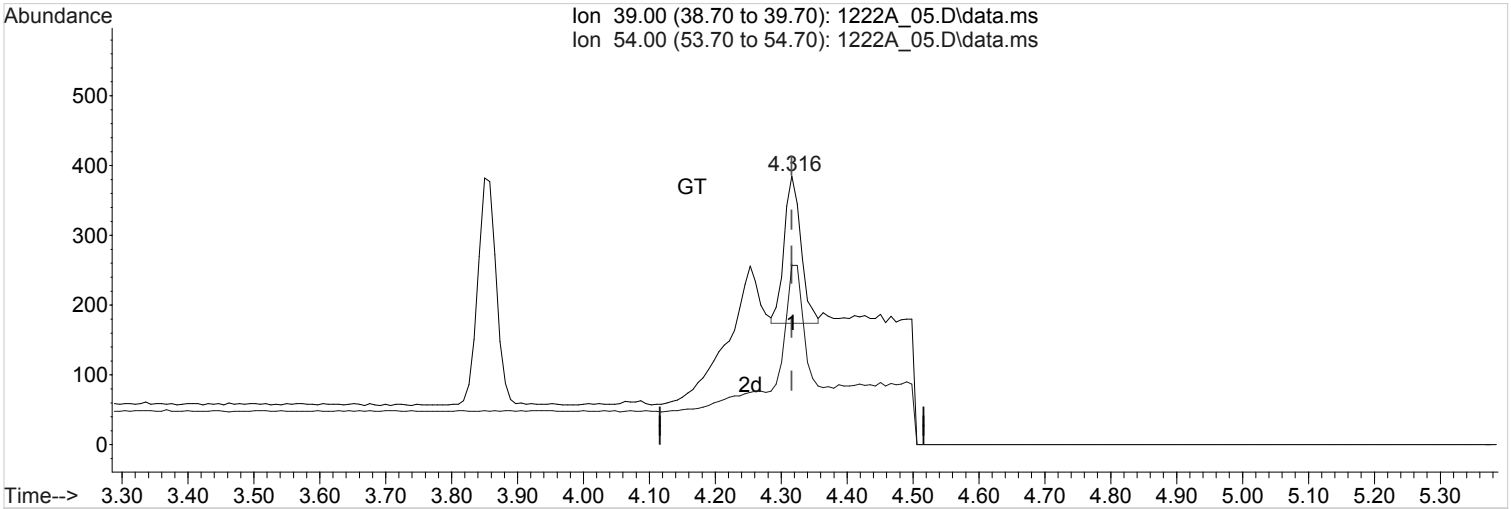
response 502

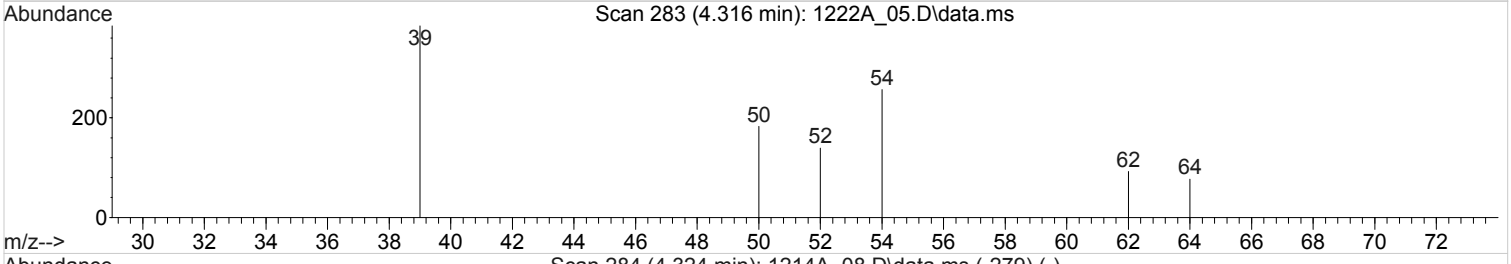
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	68.13#
0.00	0.00	0.00
0.00	0.00	0.00

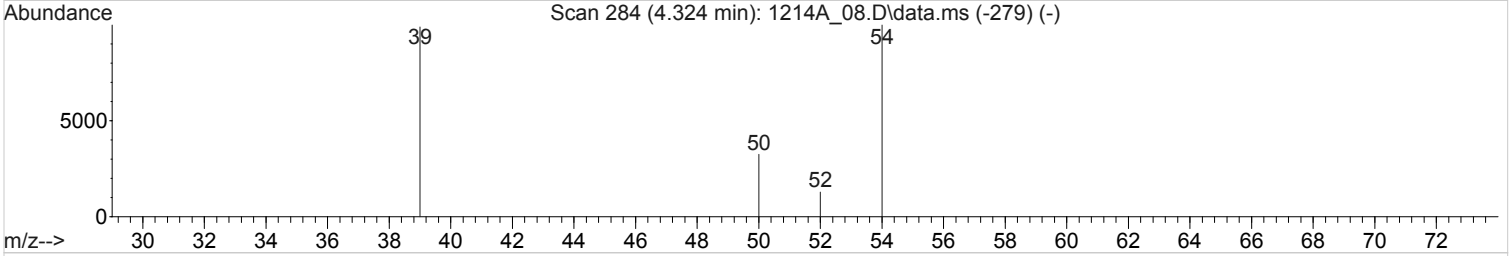
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:10:53 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration







TIC: 1222A_05.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.0328144 ppbv m

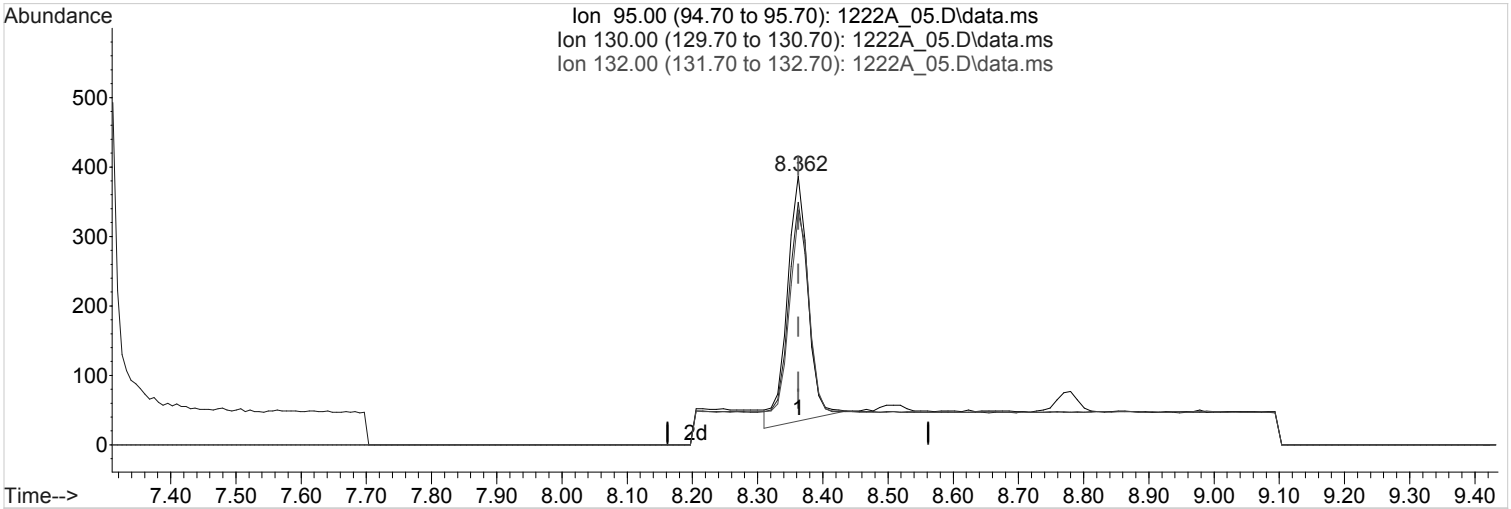
response 375

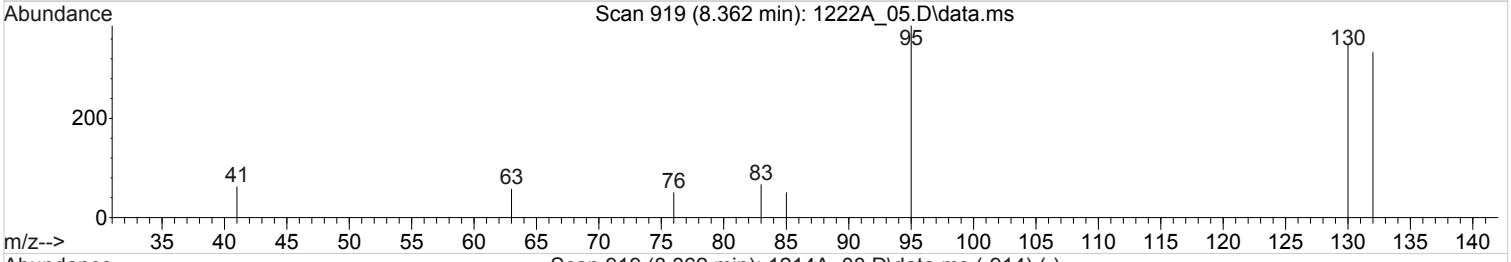
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	91.20
0.00	0.00	0.00
0.00	0.00	0.00

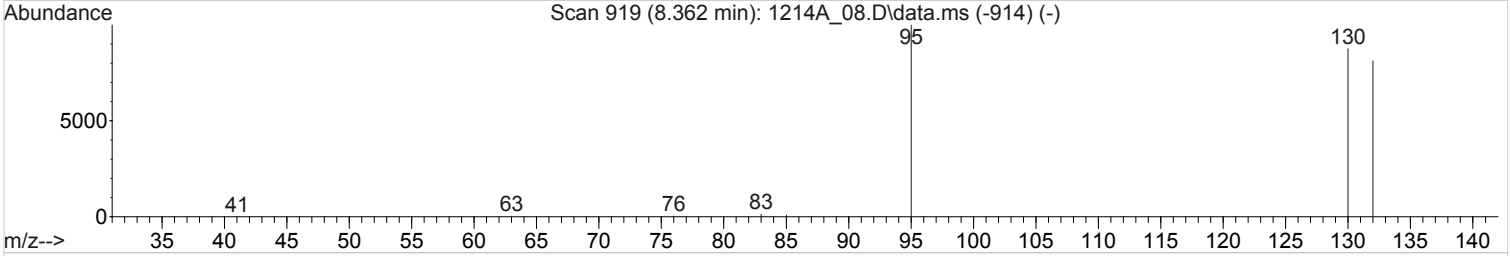
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:10:53 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration







TIC: 1222A_05.D\data.ms

(18) Trichloroethene (T,M)

8.362min (+0.000) 0.0362790 ppbv

Qvalue = 87

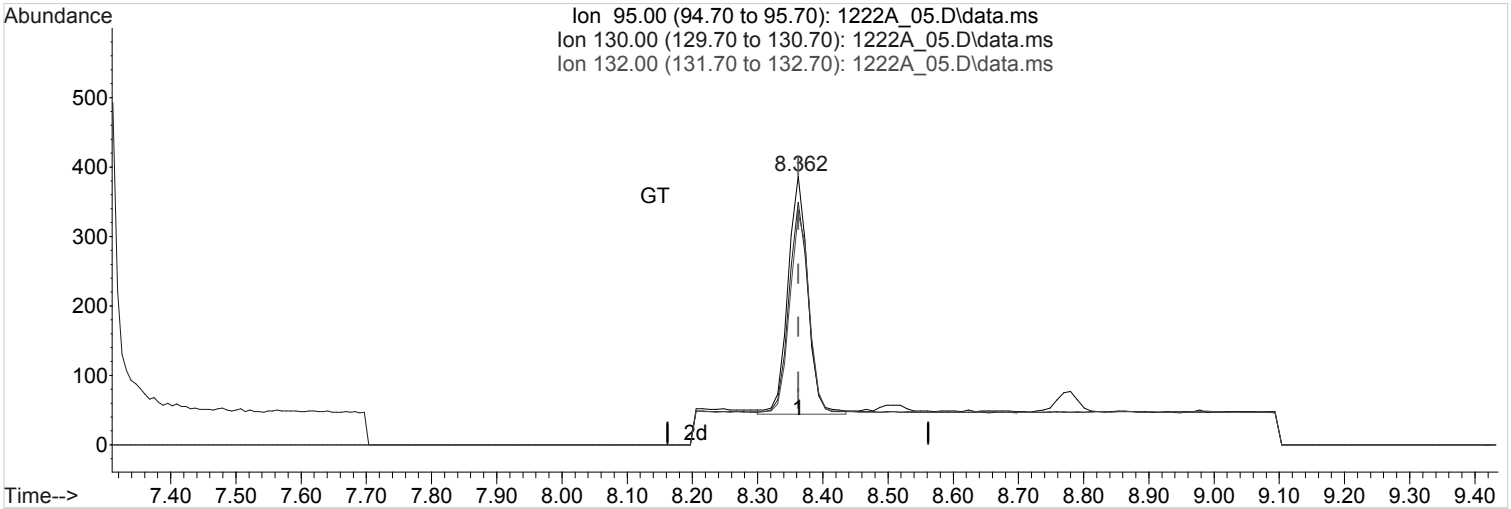
response 781

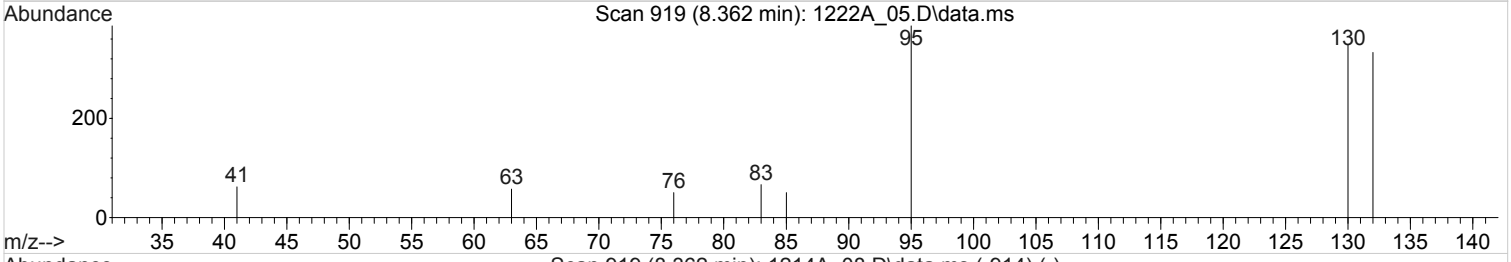
Ion	Exp%	Act%
95.00	100	100
130.00	91.20	77.59
132.00	87.30	75.67
0.00	0.00	0.00

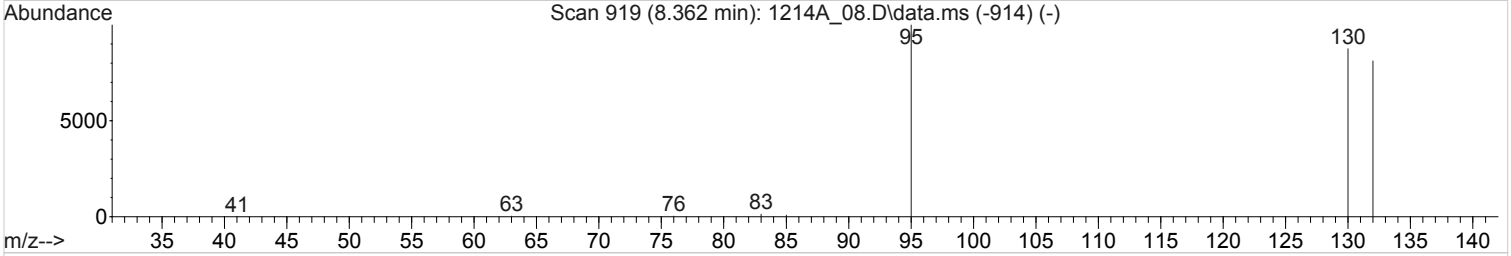
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_05.D
Acq On : 22 Dec 2022 7:20 pm
Operator :
Sample : STD AMS 0.031 ppbv 22L13276
Misc : 22L15639
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:10:53 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:10:39 2022
Response via : Initial Calibration







TIC: 1222A_05.D\data.ms

(18) Trichloroethene (T,M)

8.362min (+0.000) 0.0338170 ppbv m

response 728

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	83.24
132.00	87.30	81.18
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:21 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration

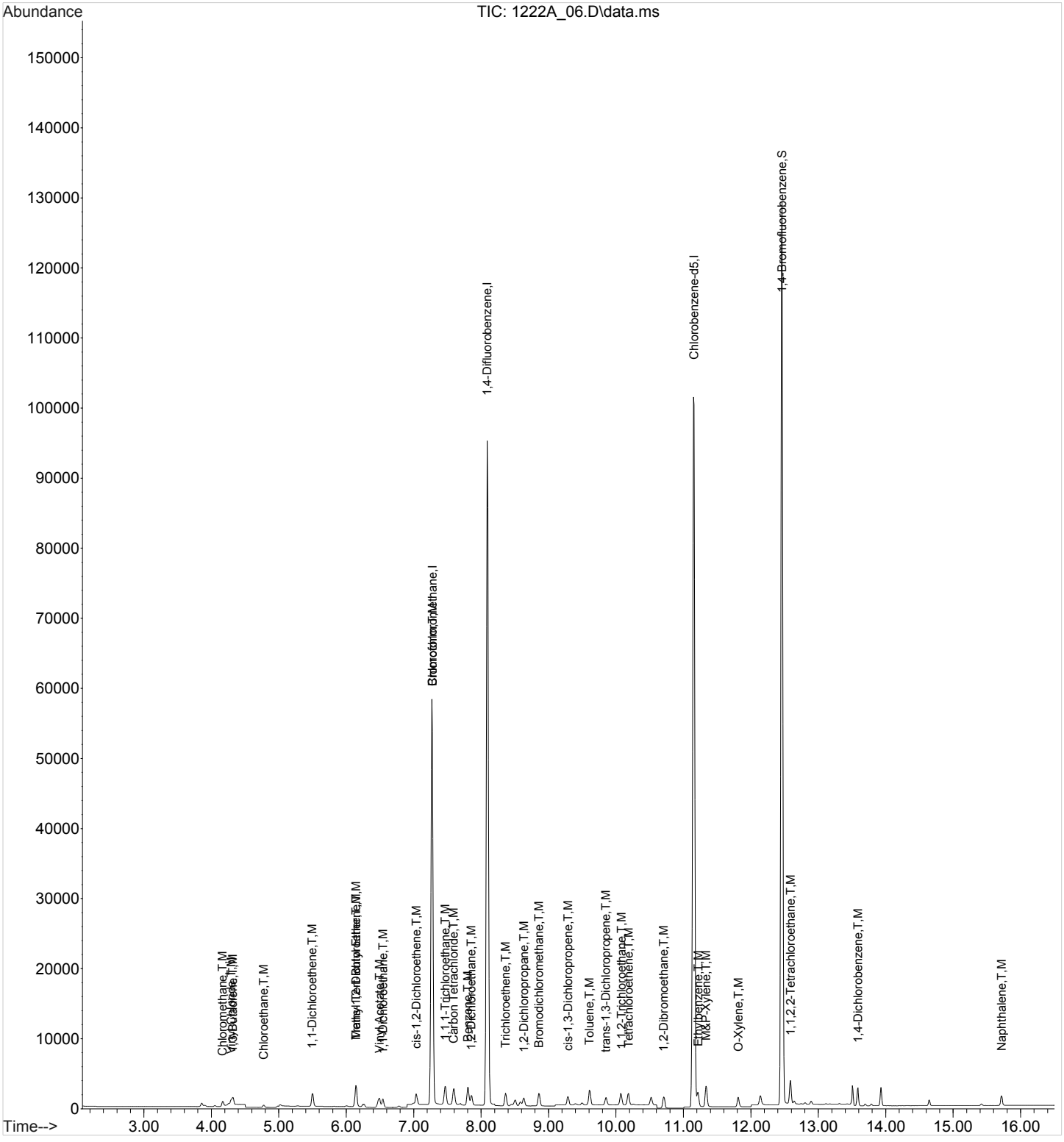
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.276	130	37808	1.2500000	ppbv		0.00
16) 1,4-Difluorobenzene	8.091	114	126998	1.2500000	ppbv		0.00
27) Chlorobenzene-d5	11.156	117	115620	1.2500000	ppbv		0.00
System Monitoring Compounds							
32) 1,4-Bromofluorobenzene	12.463	95	72531	1.2311232	ppbv		0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 98.49%				
Target Compounds							Qvalue
2) Chloromethane	4.166	50	1154	0.0613089	ppbv		95
3) Vinyl Chloride	4.292	62	982m	0.0638711	ppbv		
4) 1,3-Butadiene	4.316	39	710m	0.0622716	ppbv		
5) Chloroethane	4.774	64	377	0.0641108	ppbv	#	42
6) 1,1-Dichloroethene	5.495	61	1745	0.0630934	ppbv		99
7) Methyl Tert-Butyl Ether	6.144	73	1988	0.0622400	ppbv	#	83
8) Trans-1,2-Dichloroethene	6.144	61	1696m	0.0668368	ppbv		
9) 1,1-Dichloroethane	6.544	63	2186	0.0633061	ppbv		100
10) Vinyl Acetate	6.492	43	3568	0.0629249	ppbv	#	88
11) cis-1,2-Dichloroethene	7.038	96	921	0.0633982	ppbv	#	82
12) Chloroform	7.276	83	2239	0.0632851	ppbv		100
13) 1,1,1-Trichloroethane	7.465	97	2282	0.0640519	ppbv		99
14) Carbon Tetrachloride	7.591	117	2176	0.0653221	ppbv		98
15) 1,2-Dichloroethane	7.853	62	1684m	0.0696007	ppbv		
17) Benzene	7.800	78	3511	0.0598451	ppbv		94
18) Trichloroethene	8.362	95	1407m	0.0648360	ppbv		
19) 1,2-Dichloropropane	8.633	63	1271	0.0641623	ppbv		95
20) Bromodichloromethane	8.853	83	2396	0.0665570	ppbv		99
21) cis-1,3-Dichloropropene	9.287	75	1426	0.0659157	ppbv		99
22) Toluene	9.606	91	2697	0.0601808	ppbv		100
23) trans-1,3-Dichloropropene	9.847	75	1301	0.0649651	ppbv		98
24) 1,1,2-Trichloroethane	10.079	97	1362	0.0647860	ppbv		98
25) Tetrachloroethene	10.185	166	1500	0.0644844	ppbv		100
26) 1,2-Dibromoethane	10.708	107	1829m	0.0678095	ppbv		
28) Ethylbenzene	11.216	91	2887	0.0610964	ppbv		99
29) M&P-Xylene	11.336	91	3992	0.1207298	ppbv		100
30) O-Xylene	11.814	91	1906	0.0625166	ppbv		100
31) 1,1,2,2-Tetrachloroethane	12.587	83	3188	0.0665895	ppbv		100
33) 1,4-Dichlorobenzene	13.587	146	1905	0.0628455	ppbv		100
34) Naphthalene	15.718	128	2058	0.0609950	ppbv		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

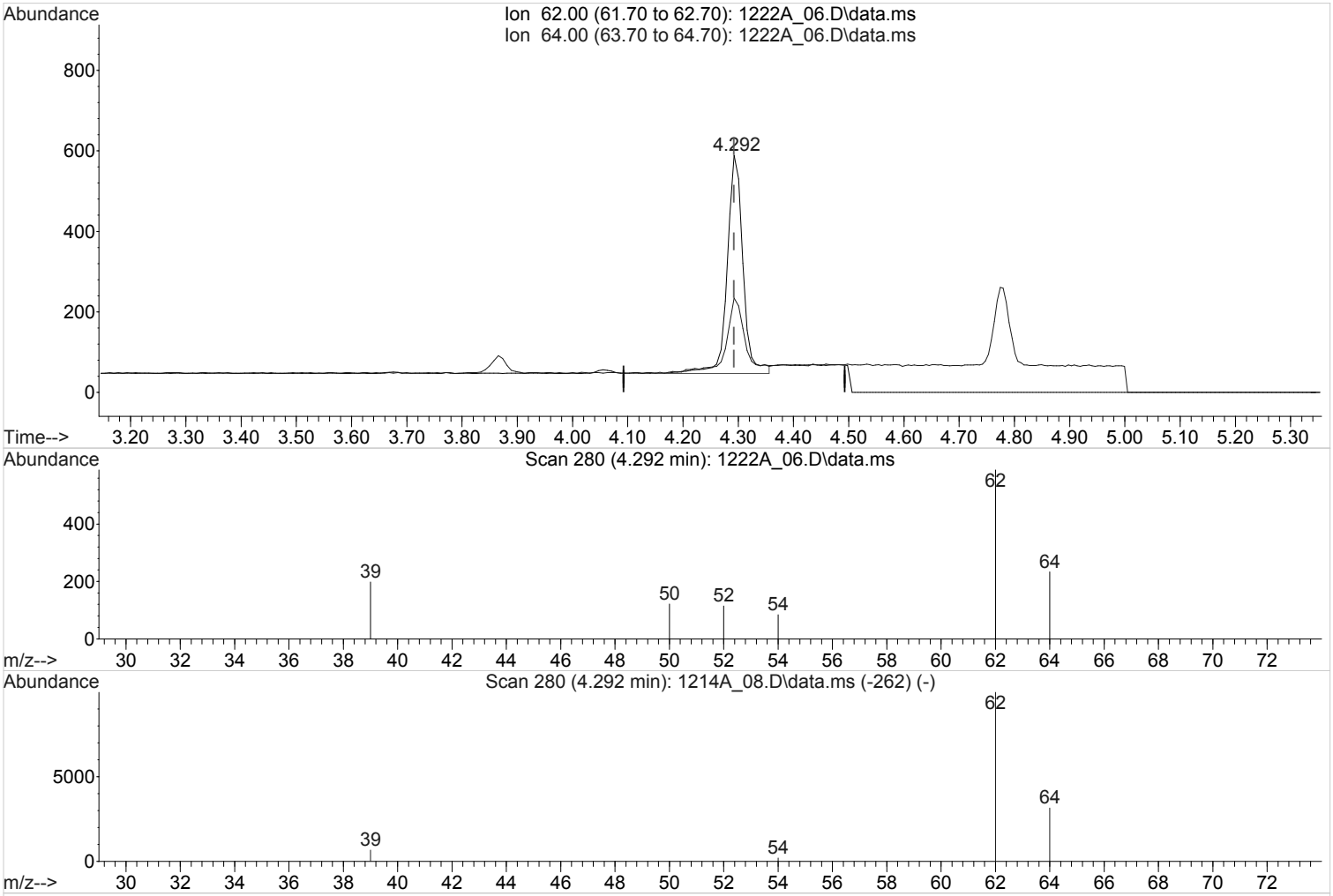
Quant Time: Dec 23 09:15:21 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration



TIC: 1222A_06.D\data.ms

(3) Vinyl Chloride (T,M)

4.292min (-0.000) 0.0702452 ppbv

Qvalue = 85

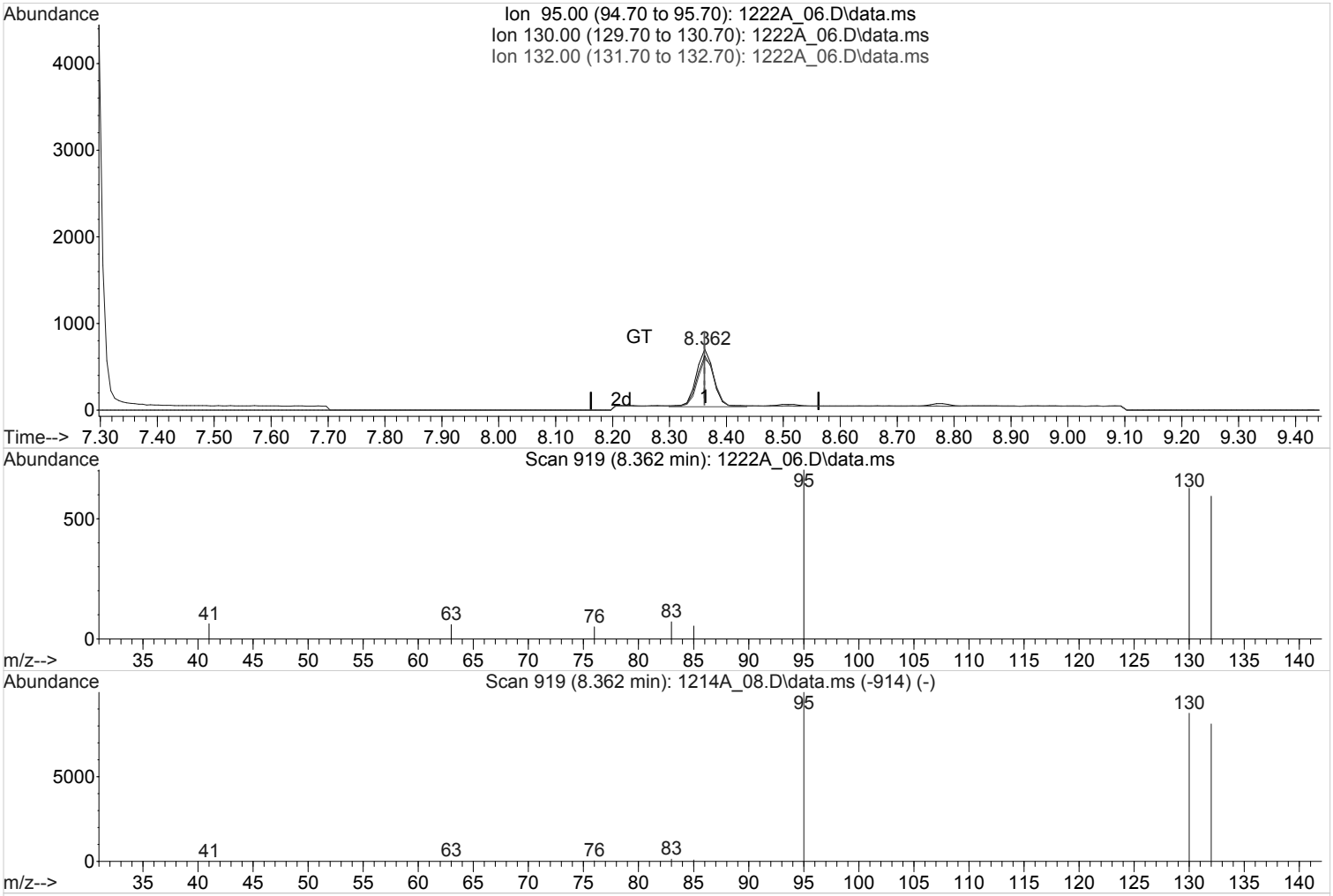
response 1080

Ion	Exp%	Act%
62.00	100	100
64.00	33.30	41.85#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration



TIC: 1222A_06.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.0648360 ppbv m

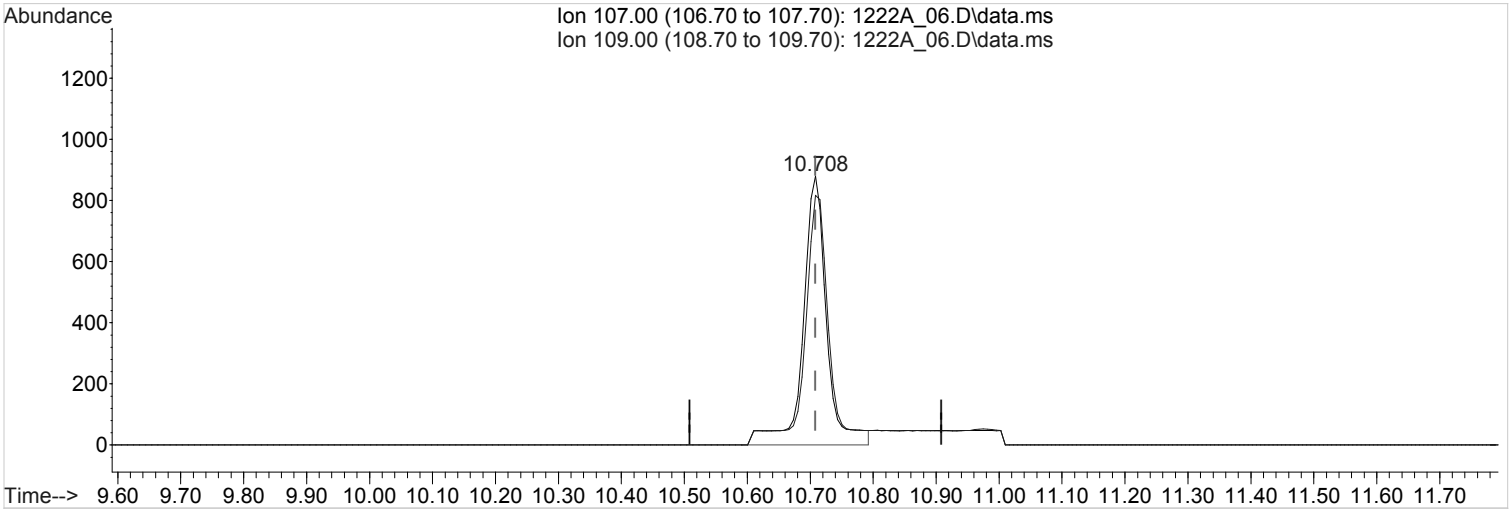
response 1407

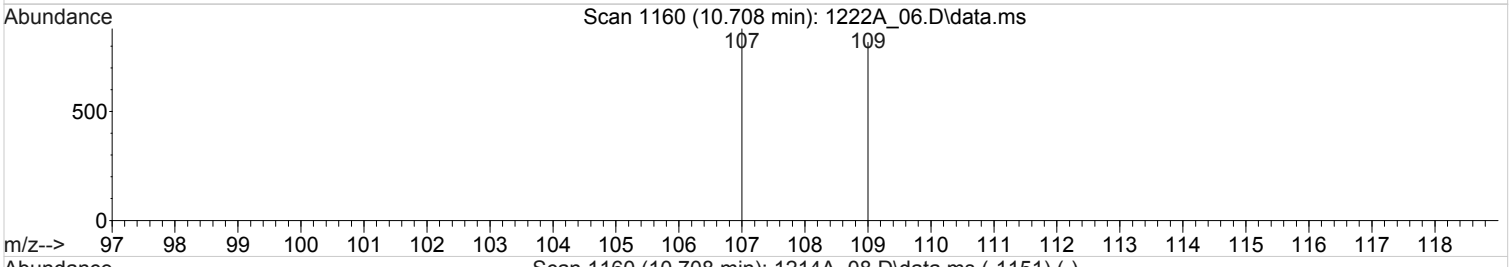
Ion	Exp%	Act%
95.00	100	100
130.00	91.20	83.72
132.00	87.30	87.49
0.00	0.00	0.00

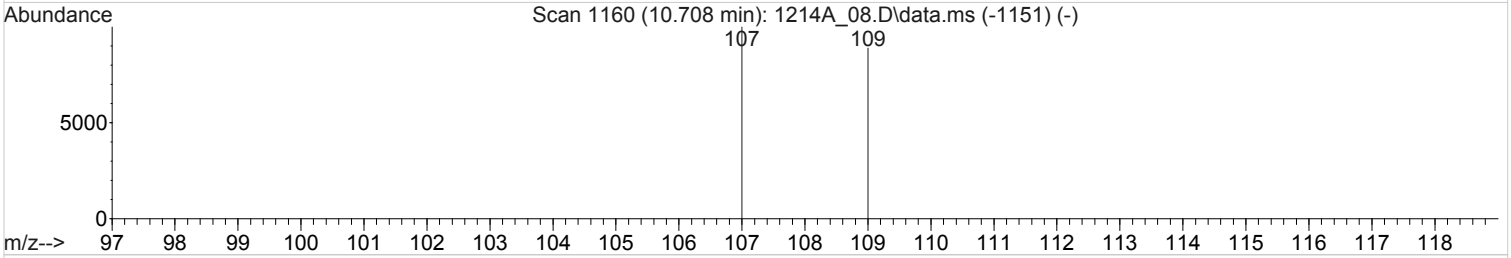
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(26) 1,2-Dibromoethane (T,M)

10.708min (-0.000) 0.0874219 ppbv

Qvalue = 75

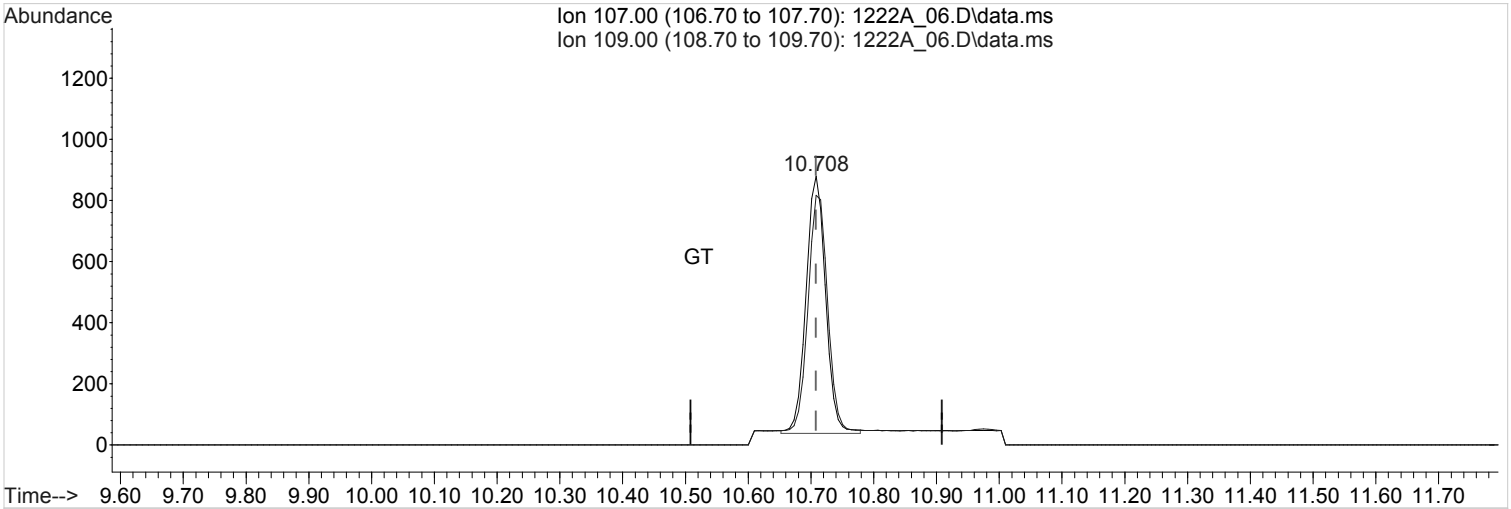
response 2358

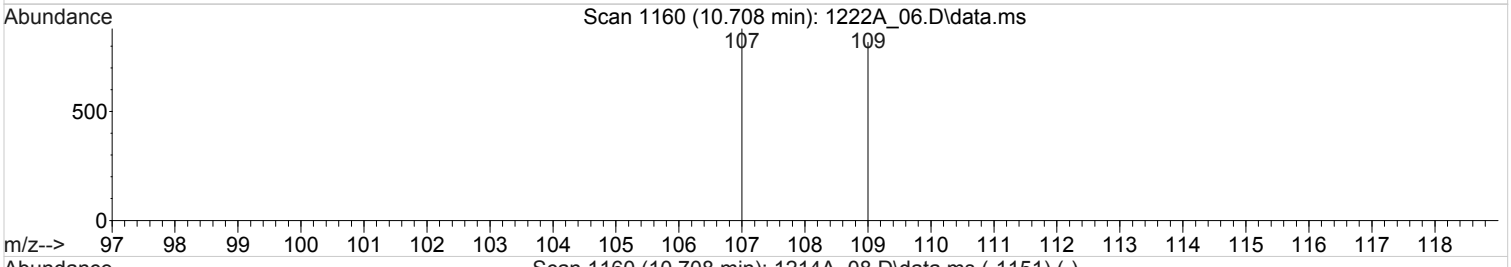
Ion	Exp%	Act%
107.00	100	100
109.00	93.80	69.59#
0.00	0.00	0.00
0.00	0.00	0.00

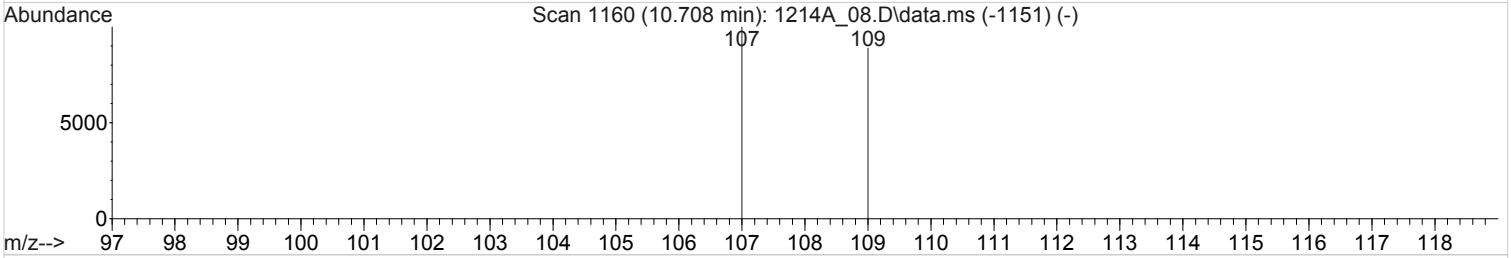
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(26) 1,2-Dibromoethane (T,M)

10.708min (-0.000) 0.0678095 ppbv m

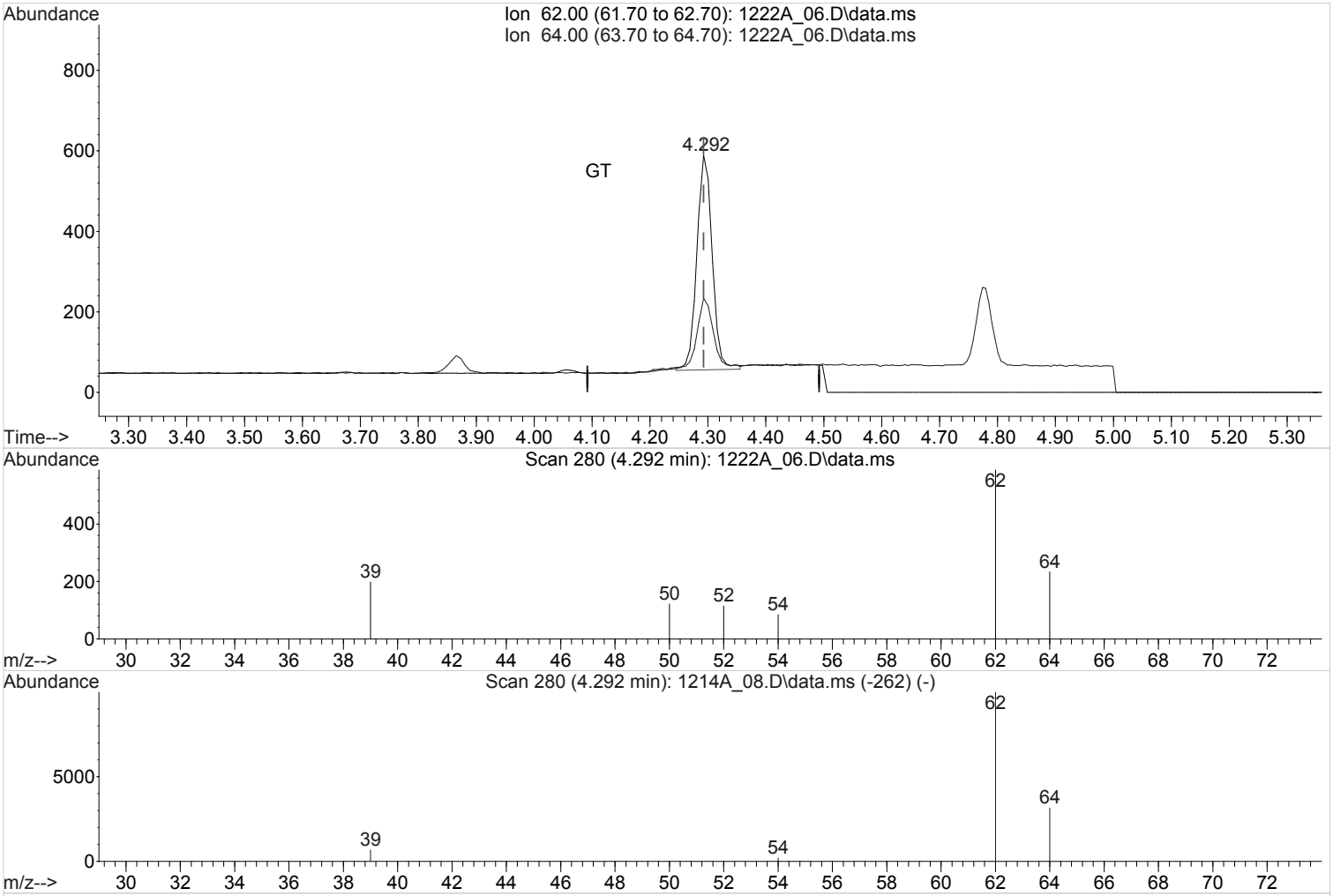
response 1829

Ion	Exp%	Act%
107.00	100	100
109.00	93.80	89.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration



TIC: 1222A_06.D\data.ms

(3) Vinyl Chloride (T,M)

4.292min (-0.000) 0.0638711 ppbv m

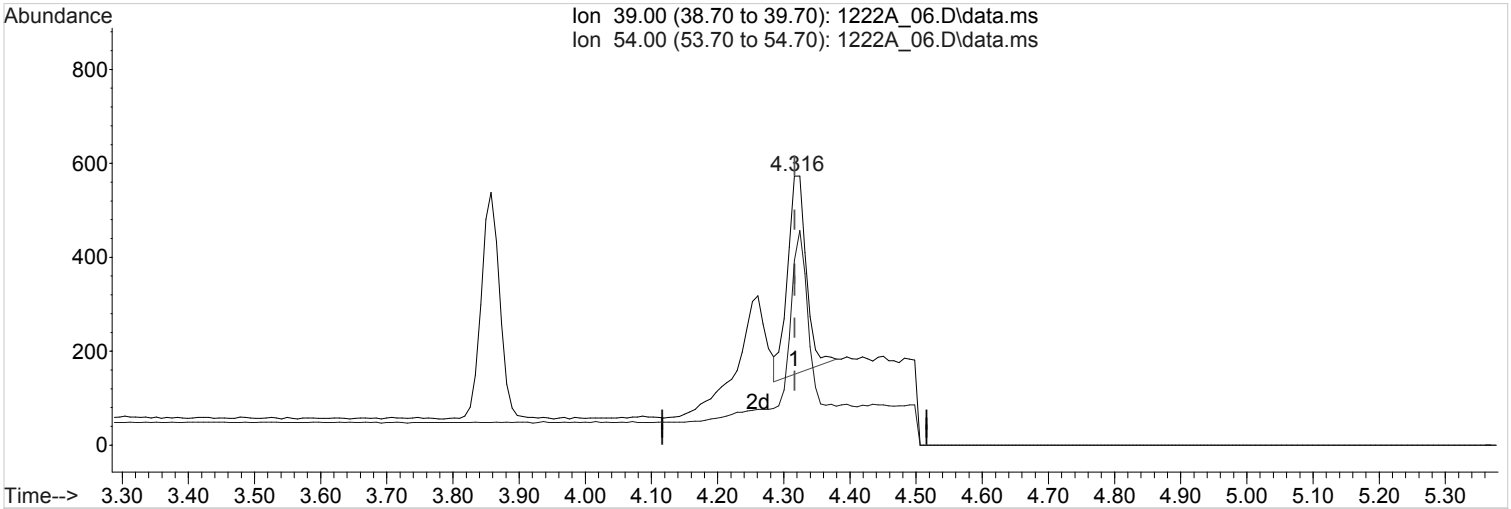
response 982

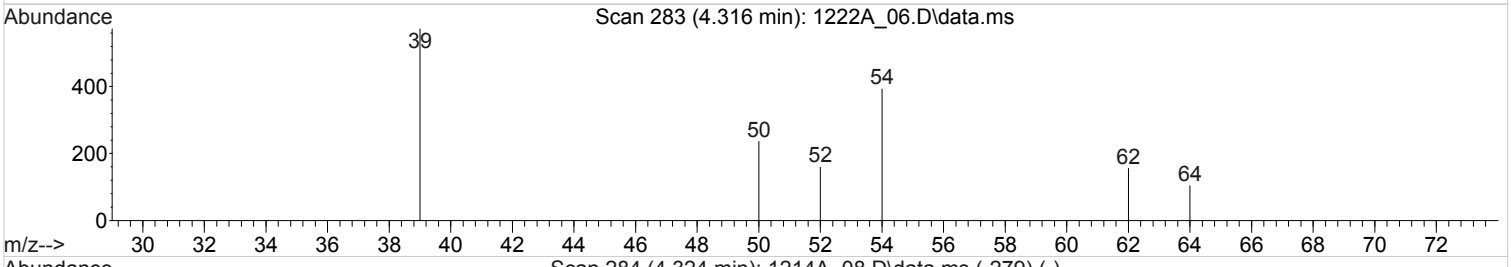
Ion	Exp%	Act%
62.00	100	100
64.00	33.30	46.03#
0.00	0.00	0.00
0.00	0.00	0.00

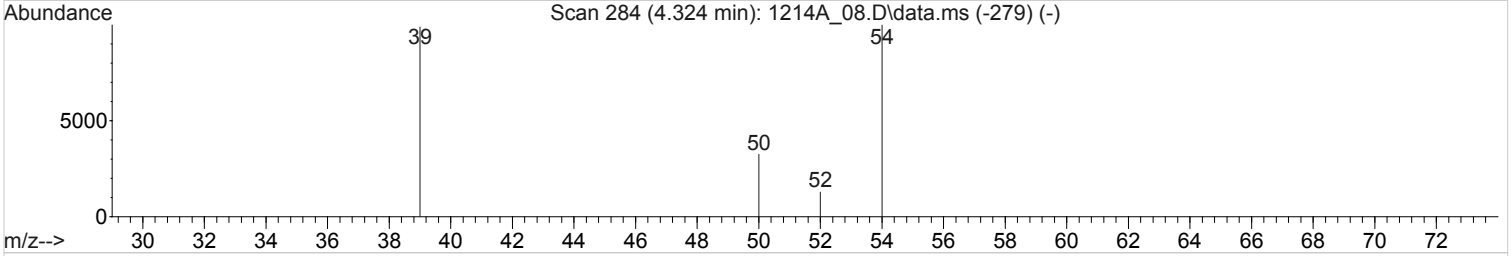
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (-0.000) 0.0731472 ppbv

Qvalue = 89

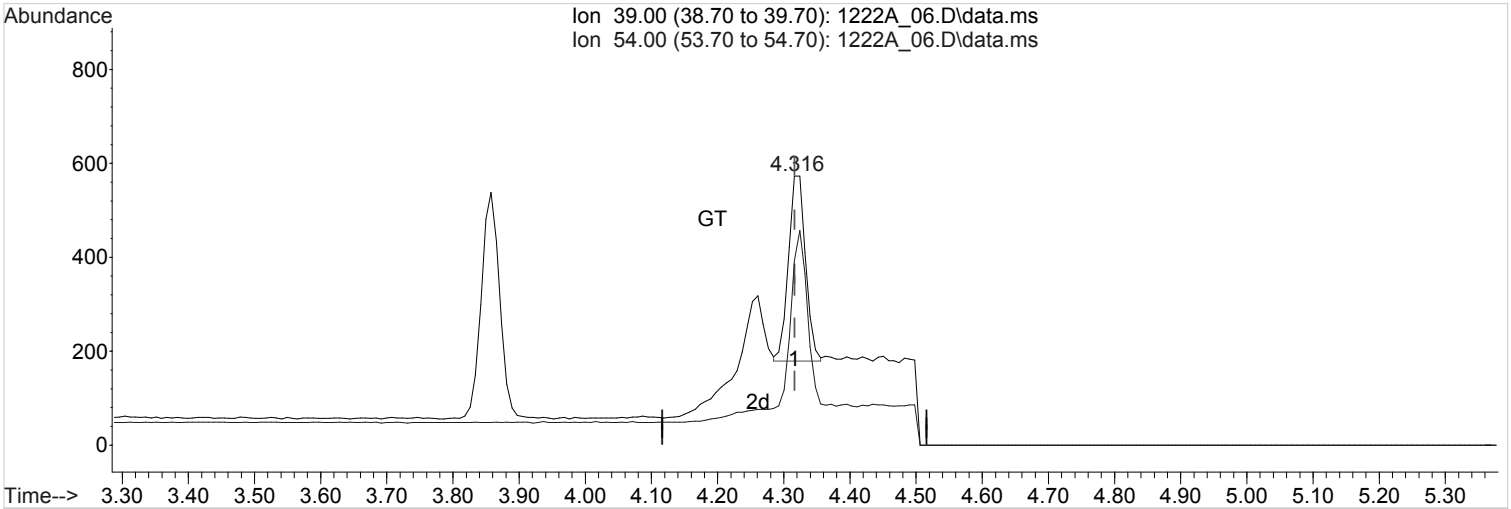
response 834

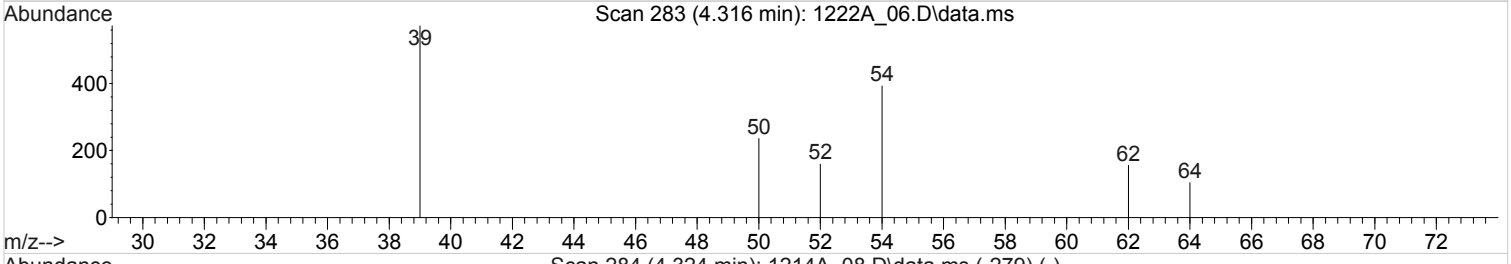
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	80.22
0.00	0.00	0.00
0.00	0.00	0.00

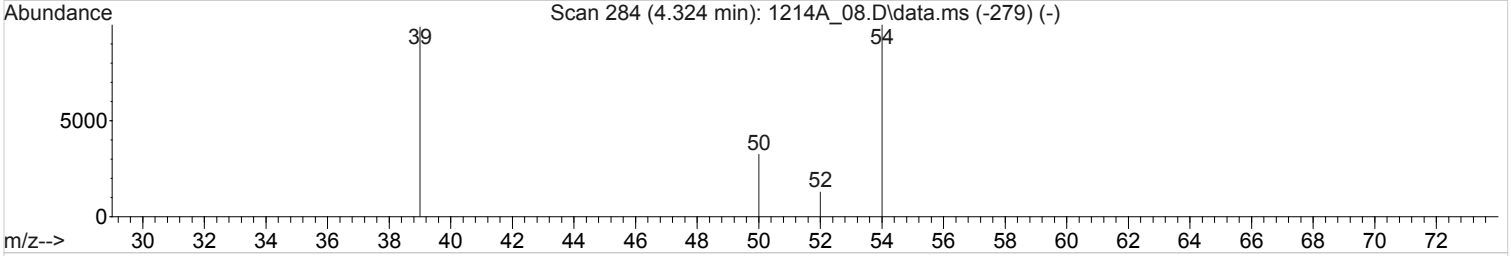
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (-0.000) 0.0622716 ppbv m

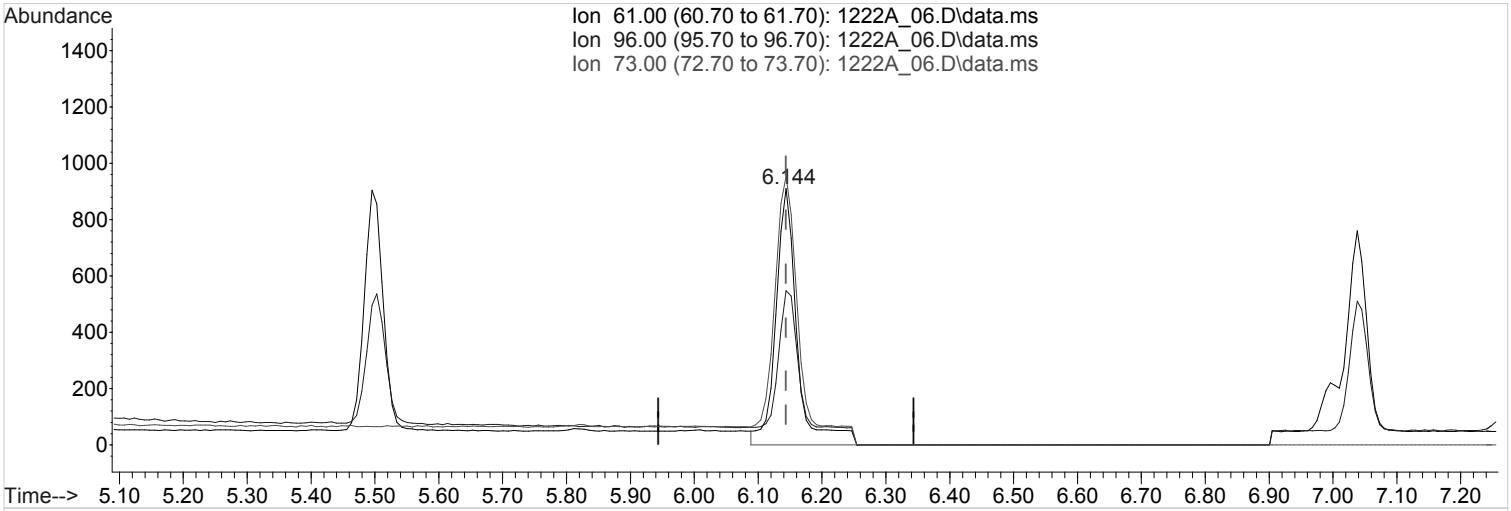
response 710

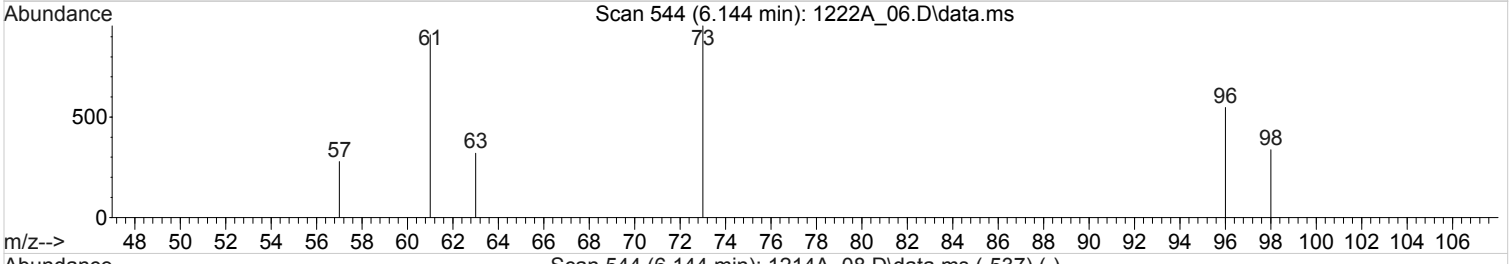
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	94.23
0.00	0.00	0.00
0.00	0.00	0.00

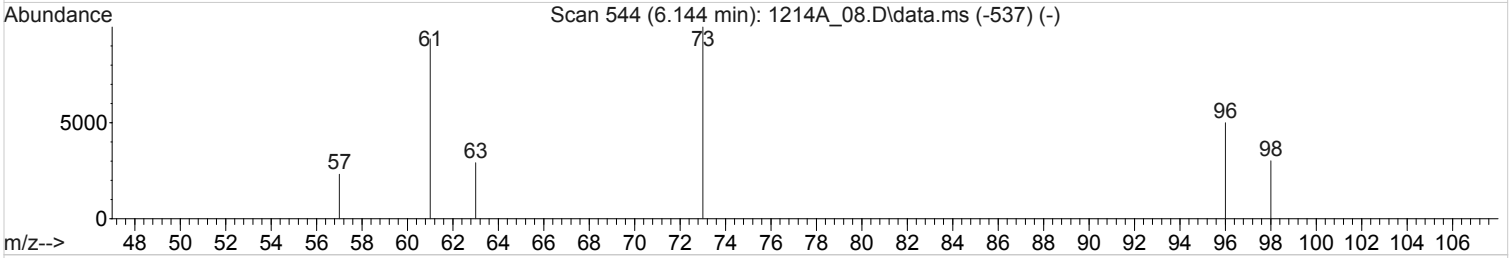
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(8) Trans-1,2-Dichloroethene (T,M)

6.144min (-0.000) 0.0805904 ppbv

Qvalue = 79

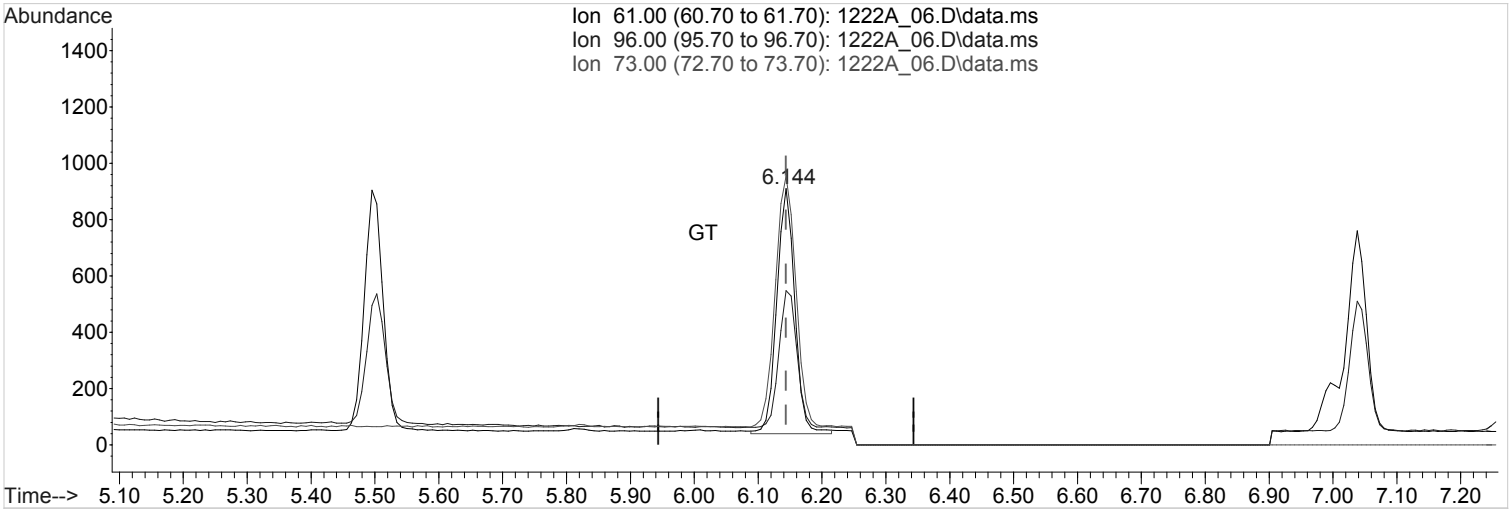
response 2045

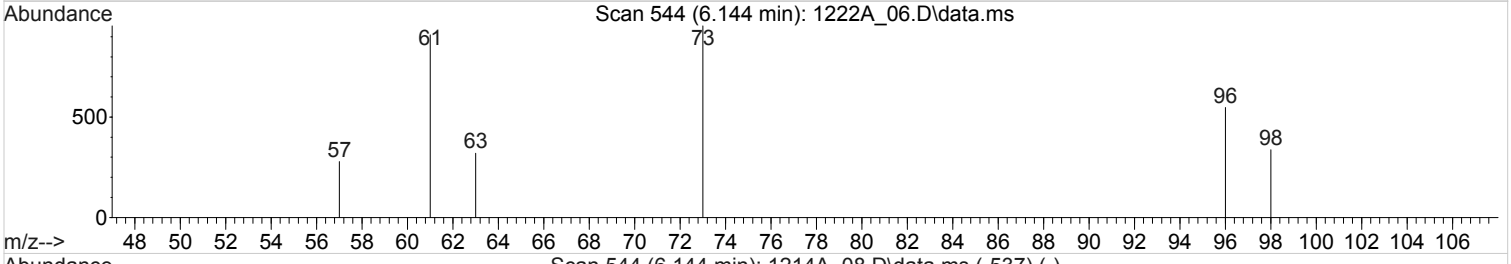
Ion	Exp%	Act%
61.00	100	100
96.00	60.70	71.69
73.00	124.30	97.21#
0.00	0.00	0.00

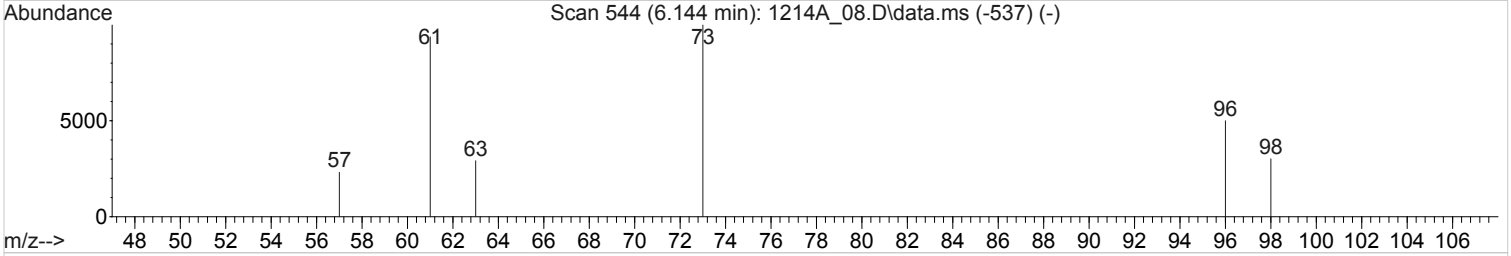
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(8) Trans-1,2-Dichloroethene (T,M)

6.144min (-0.000) 0.0668368 ppbv m

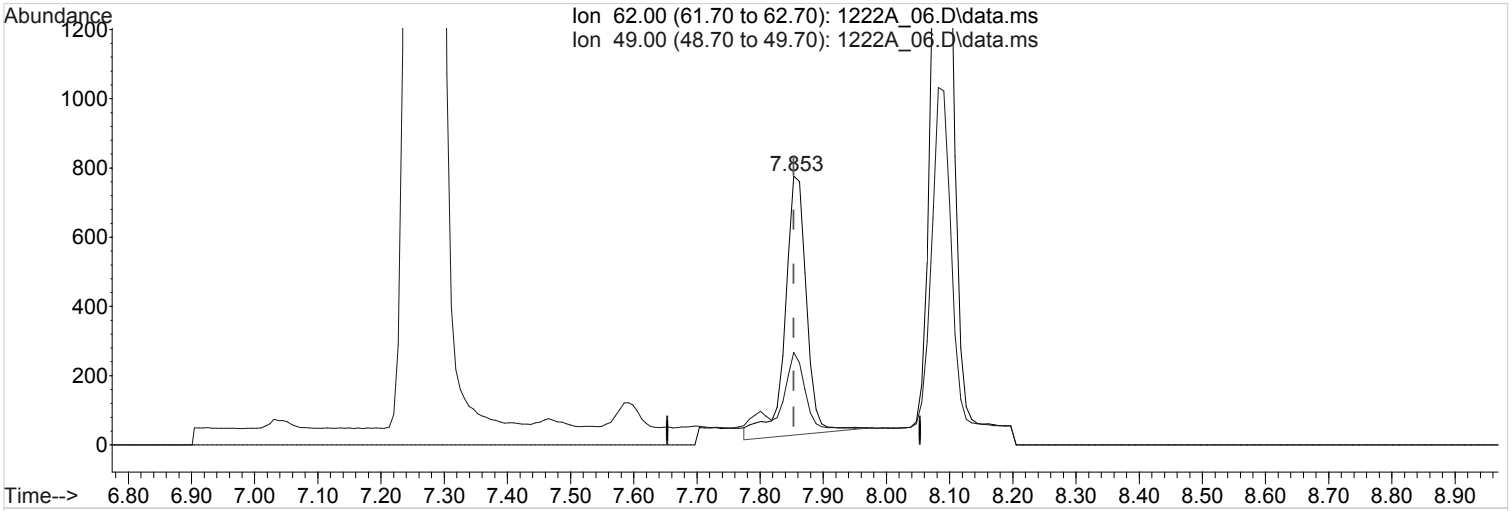
response 1696

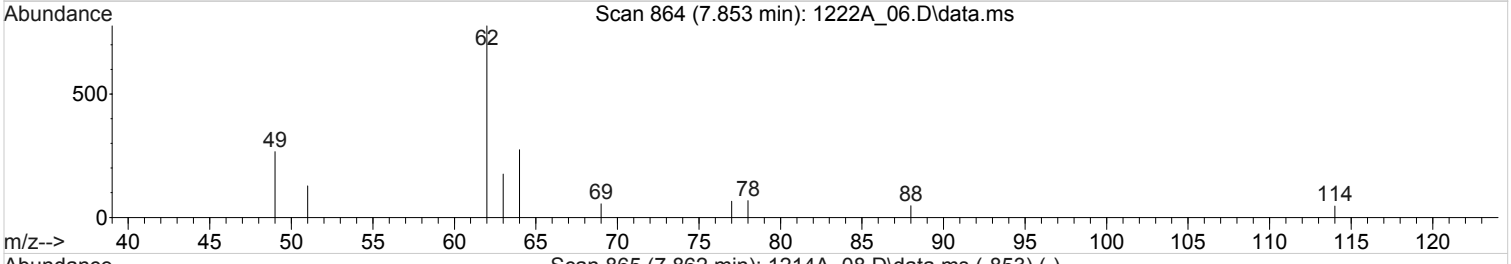
Ion	Exp%	Act%
61.00	100	100
96.00	60.70	86.44#
73.00	124.30	117.22
0.00	0.00	0.00

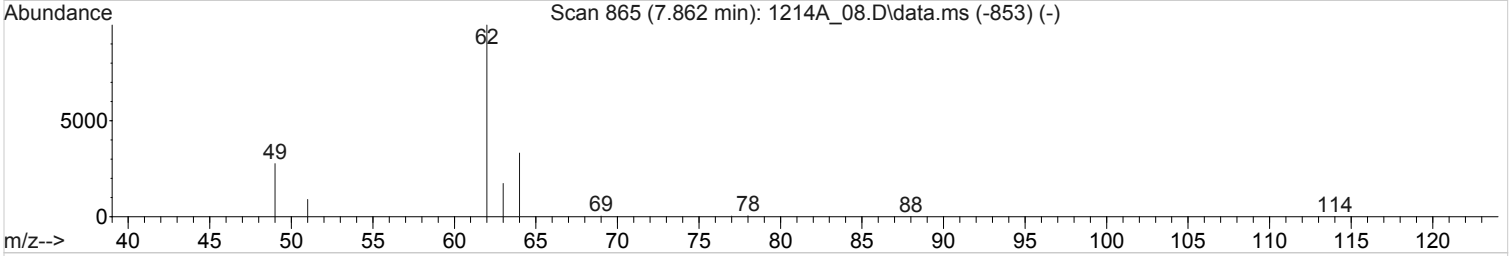
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(15) 1,2-Dichloroethane (T,M)

7.853min (-0.000) 0.0734858 ppbv

Qvalue = 94

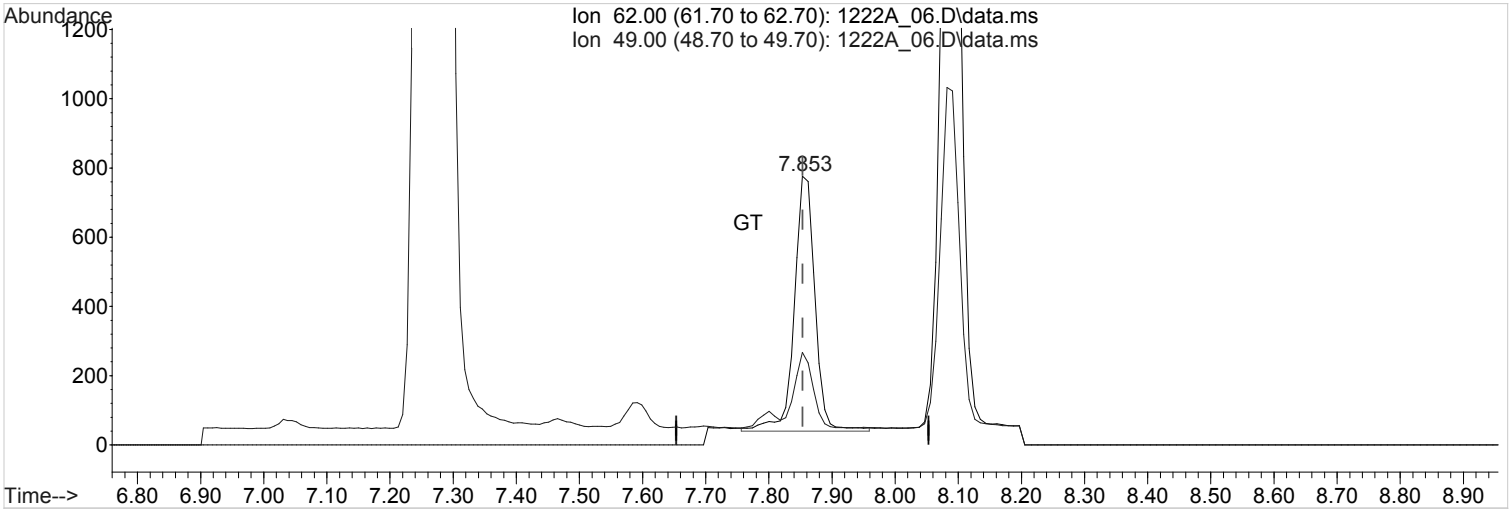
response 1778

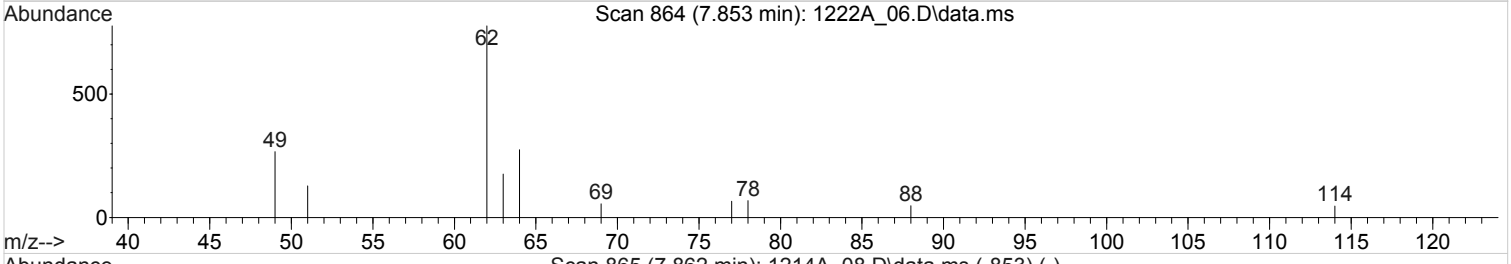
Ion	Exp%	Act%
62.00	100	100
49.00	28.00	24.92
0.00	0.00	0.00
0.00	0.00	0.00

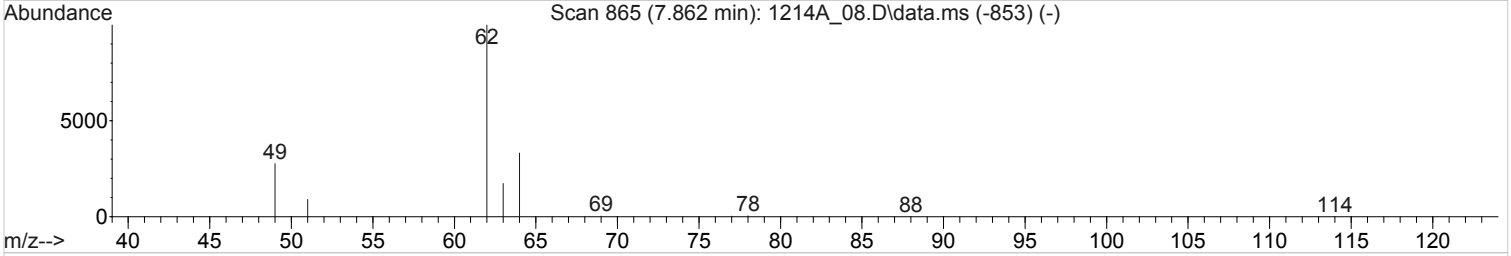
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(15) 1,2-Dichloroethane (T,M)

7.853min (-0.000) 0.0696007 ppbv m

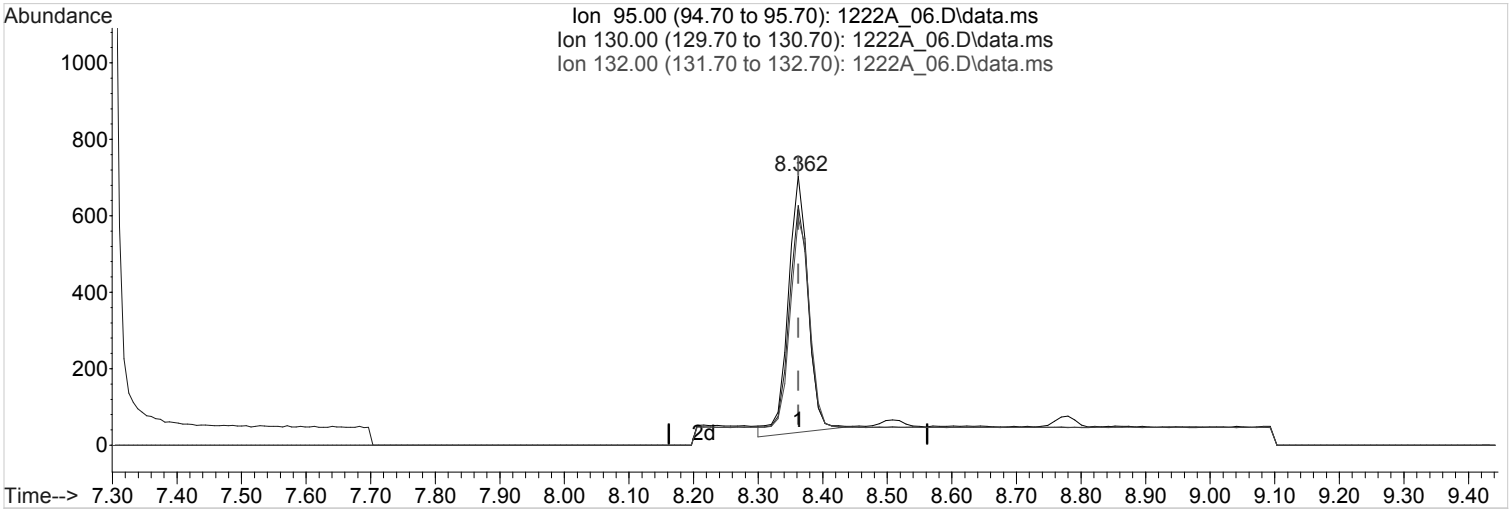
response 1684

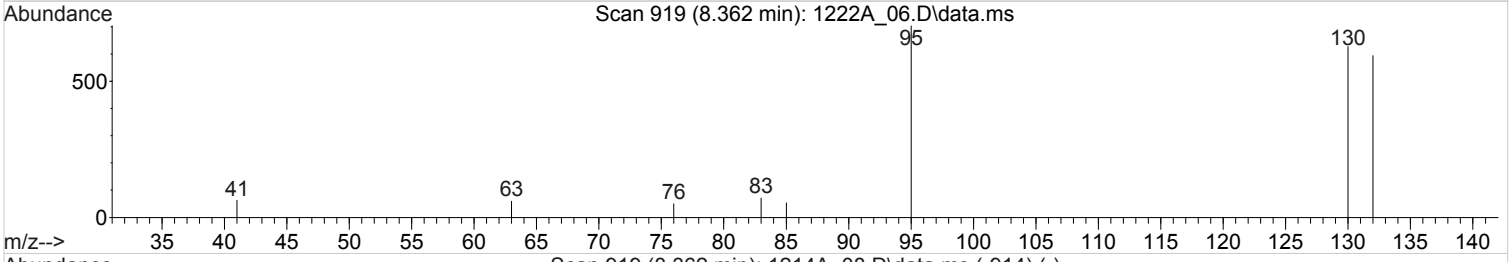
Ion	Exp%	Act%
62.00	100	100
49.00	28.00	26.31
0.00	0.00	0.00
0.00	0.00	0.00

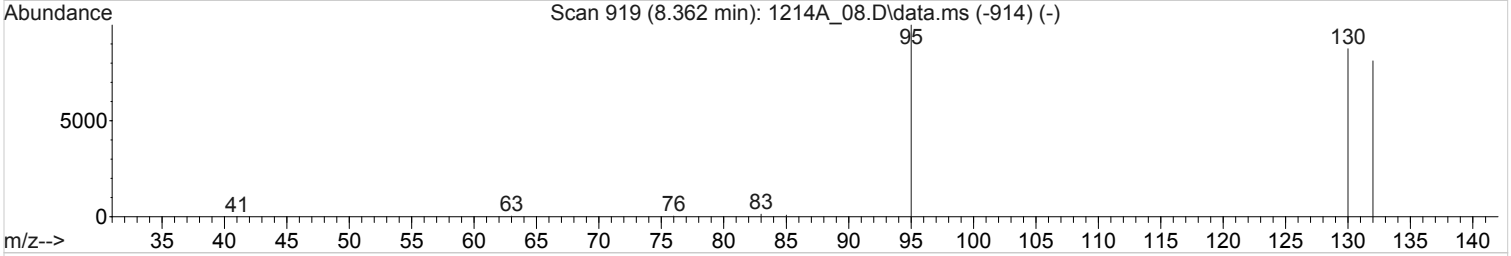
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_06.D
Acq On : 22 Dec 2022 7:58 pm
Operator :
Sample : STD AMS 0.063 ppbv 22L13276
Misc : 22L15639
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:12:47 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:12:42 2022
Response via : Initial Calibration







TIC: 1222A_06.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.0665410 ppbv

Qvalue = 94

response 1444

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	81.58
132.00	87.30	85.25
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:16:50 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration

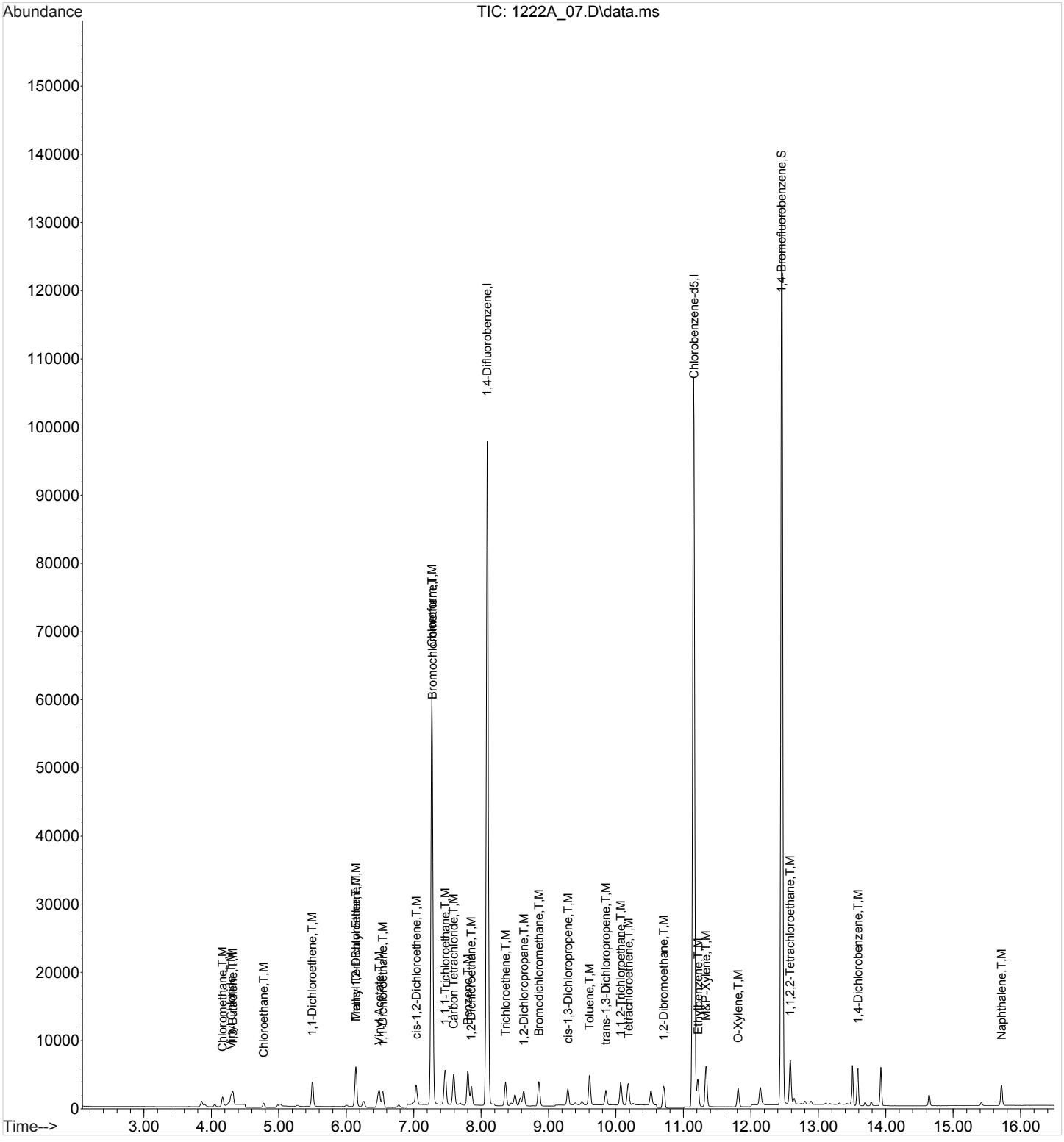
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.276	130	38049	1.2500000	ppbv		0.00
16) 1,4-Difluorobenzene	8.091	114	128757	1.2500000	ppbv		0.00
27) Chlorobenzene-d5	11.156	117	117596	1.2500000	ppbv		0.00
System Monitoring Compounds							
32) 1,4-Bromofluorobenzene	12.456	95	75400	1.2630843	ppbv		0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 101.05%				
Target Compounds							Qvalue
2) Chloromethane	4.166	50	2133	0.1119920	ppbv		98
3) Vinyl Chloride	4.292	62	1950	0.1240278	ppbv		92
4) 1,3-Butadiene	4.316	39	1361m	0.1175003	ppbv		
5) Chloroethane	4.774	64	722	0.1199476	ppbv		99
6) 1,1-Dichloroethene	5.495	61	3401	0.1206351	ppbv		99
7) Methyl Tert-Butyl Ether	6.144	73	3837	0.1182635	ppbv		92
8) Trans-1,2-Dichloroethene	6.144	61	3256m	0.1239699	ppbv		
9) 1,1-Dichloroethane	6.541	63	4272	0.1212621	ppbv		100
10) Vinyl Acetate	6.489	43	7032	0.1217464	ppbv		100
11) cis-1,2-Dichloroethene	7.038	96	1766	0.1191084	ppbv	#	78
12) Chloroform	7.269	83	4367	0.1209949	ppbv		99
13) 1,1,1-Trichloroethane	7.465	97	4385	0.1202694	ppbv		99
14) Carbon Tetrachloride	7.591	117	4237	0.1236445	ppbv	#	96
15) 1,2-Dichloroethane	7.853	62	3094	0.1221794	ppbv		99
17) Benzene	7.800	78	6883	0.1157929	ppbv		98
18) Trichloroethene	8.362	95	2674m	0.1191367	ppbv		
19) 1,2-Dichloropropane	8.634	63	2515	0.1230923	ppbv		94
20) Bromodichloromethane	8.853	83	4621	0.1232432	ppbv		99
21) cis-1,3-Dichloropropene	9.287	75	2761	0.1228533	ppbv		99
22) Toluene	9.606	91	5345	0.1175503	ppbv		100
23) trans-1,3-Dichloropropene	9.847	75	2510	0.1211182	ppbv		100
24) 1,1,2-Trichloroethane	10.069	97	2704	0.1243832	ppbv		99
25) Tetrachloroethene	10.185	166	2922	0.1216269	ppbv		99
26) 1,2-Dibromoethane	10.708	107	3470	0.1228925	ppbv		99
28) Ethylbenzene	11.216	91	5852	0.1212087	ppbv		99
29) M&P-Xylene	11.336	91	8113	0.2408719	ppbv		99
30) O-Xylene	11.808	91	3814	0.1217204	ppbv		100
31) 1,1,2,2-Tetrachloroethane	12.581	83	6374	0.1274021	ppbv		100
33) 1,4-Dichlorobenzene	13.587	146	4024	0.1289909	ppbv		100
34) Naphthalene	15.718	128	4426	0.1284410	ppbv		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

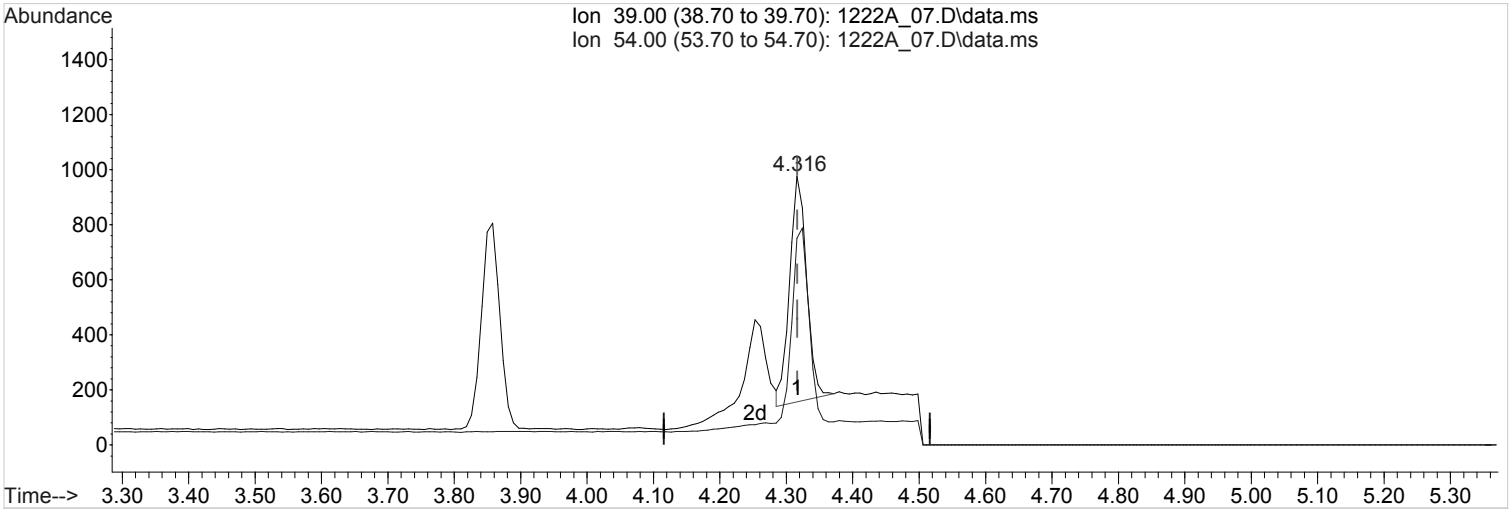
Quant Time: Dec 23 09:16:50 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration

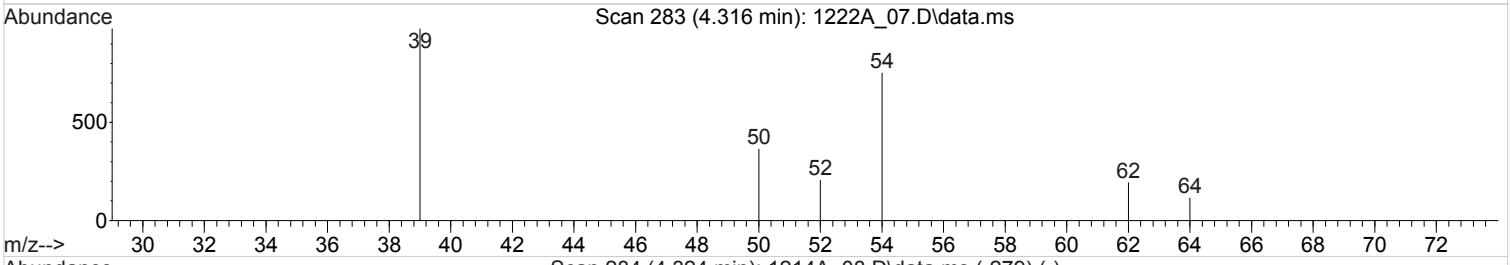


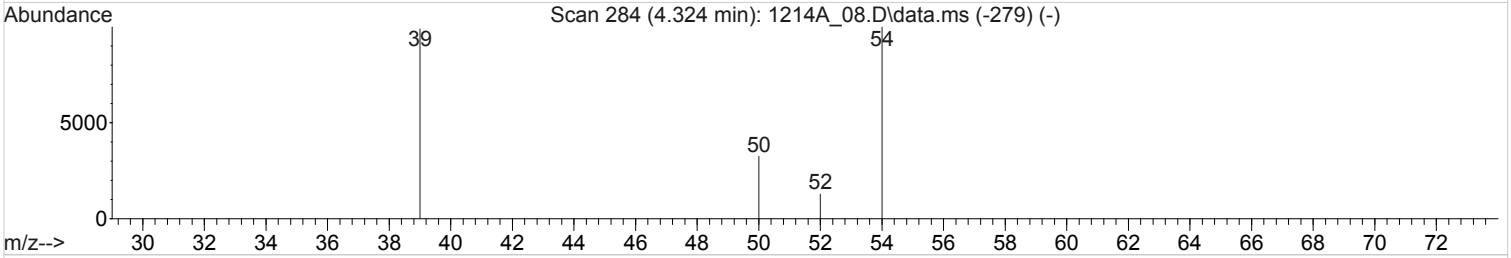
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:45 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration







TIC: 1222A_07.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (-0.000) 0.1260473 ppbv

Qvalue = 95

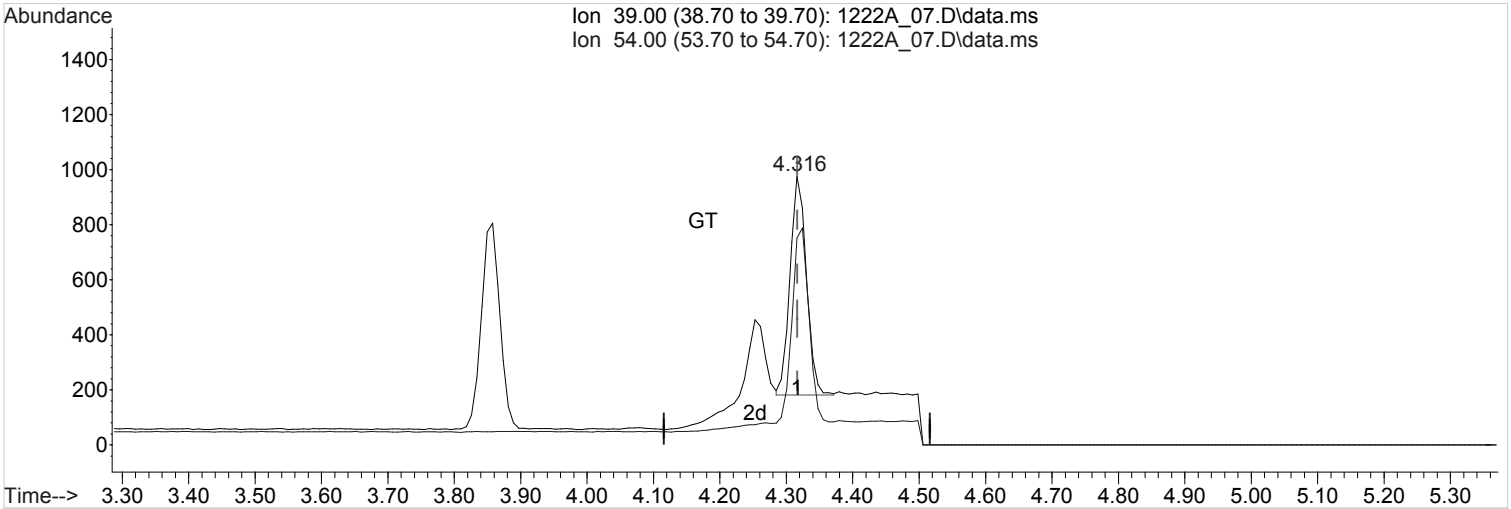
response 1460

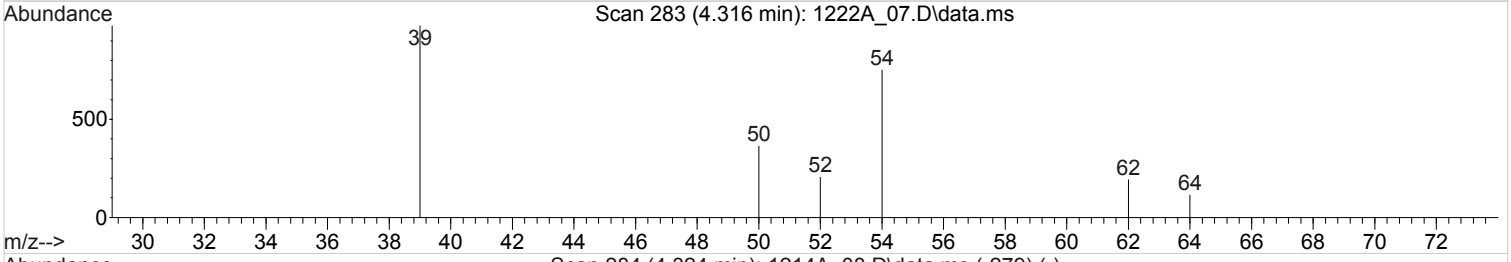
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	85.89
0.00	0.00	0.00
0.00	0.00	0.00

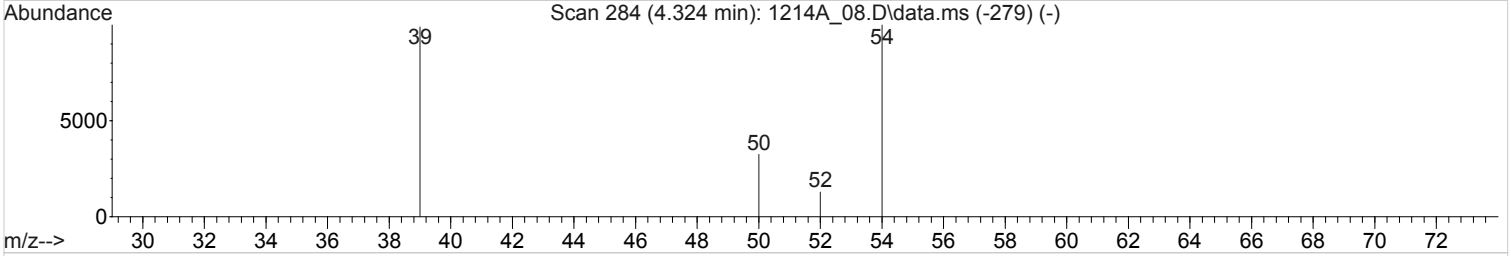
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:45 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration







TIC: 1222A_07.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (-0.000) 0.1175003 ppbv m

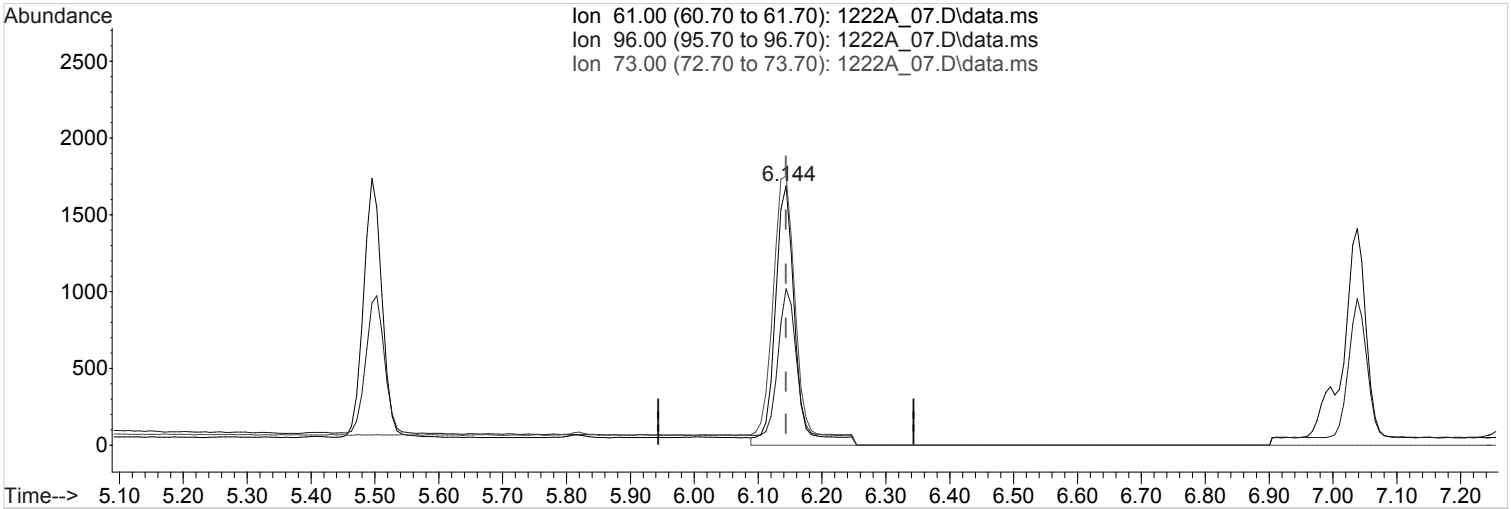
response 1361

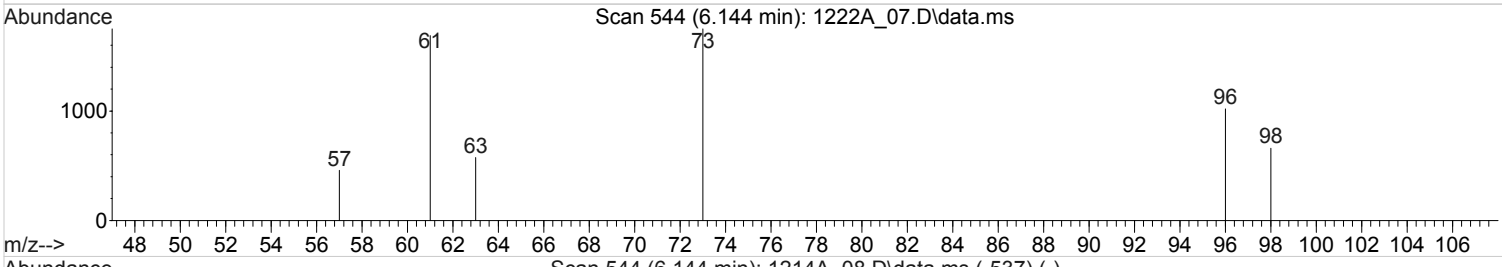
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	92.14
0.00	0.00	0.00
0.00	0.00	0.00

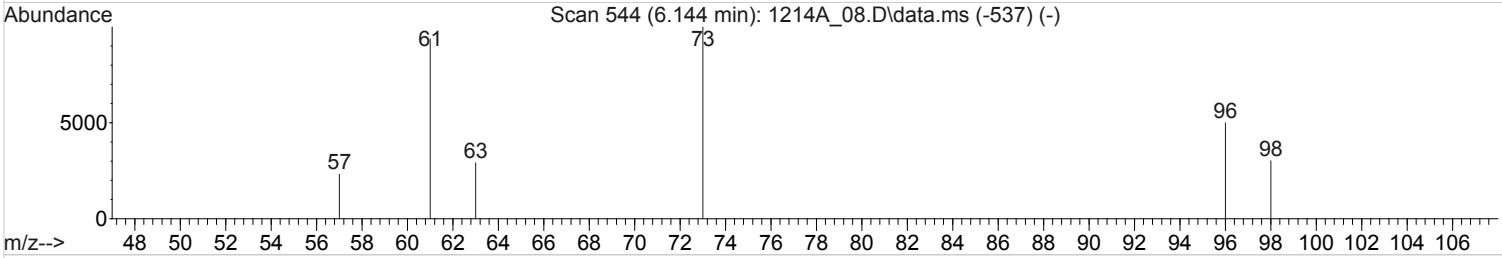
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:45 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration







TIC: 1222A_07.D\data.ms

(8) Trans-1,2-Dichloroethene (T,M)

6.144min (-0.000) 0.1346307 ppbv

Qvalue = 87

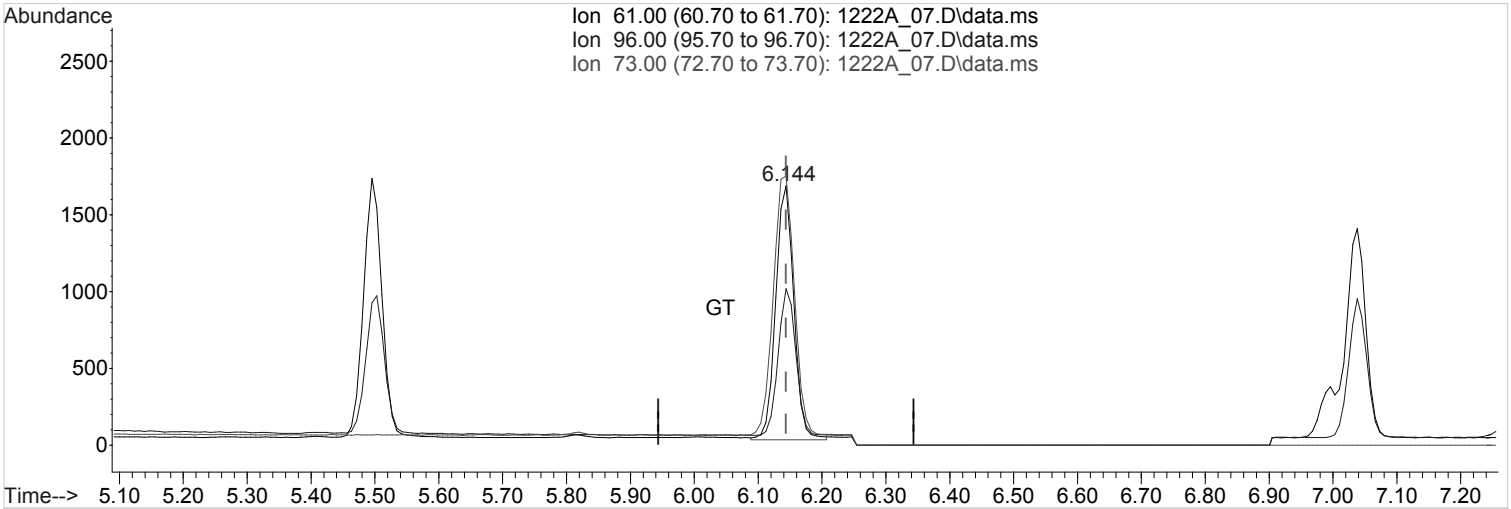
response 3536

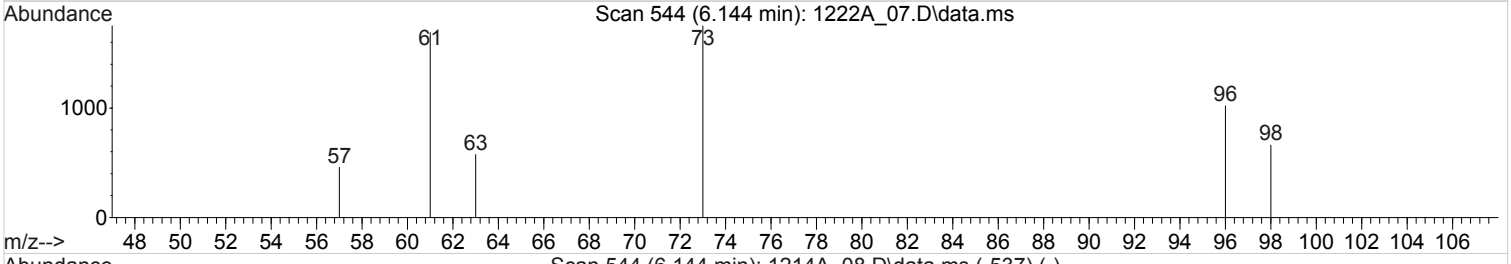
Ion	Exp%	Act%
61.00	100	100
96.00	60.70	51.73
73.00	124.30	108.51
0.00	0.00	0.00

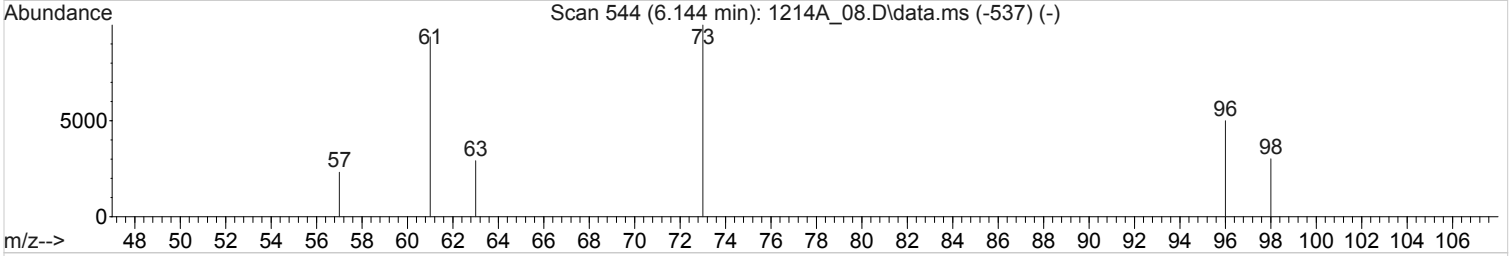
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:45 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration







TIC: 1222A_07.D\data.ms

(8) Trans-1,2-Dichloroethene (T,M)

6.144min (-0.000) 0.1239699 ppbv m

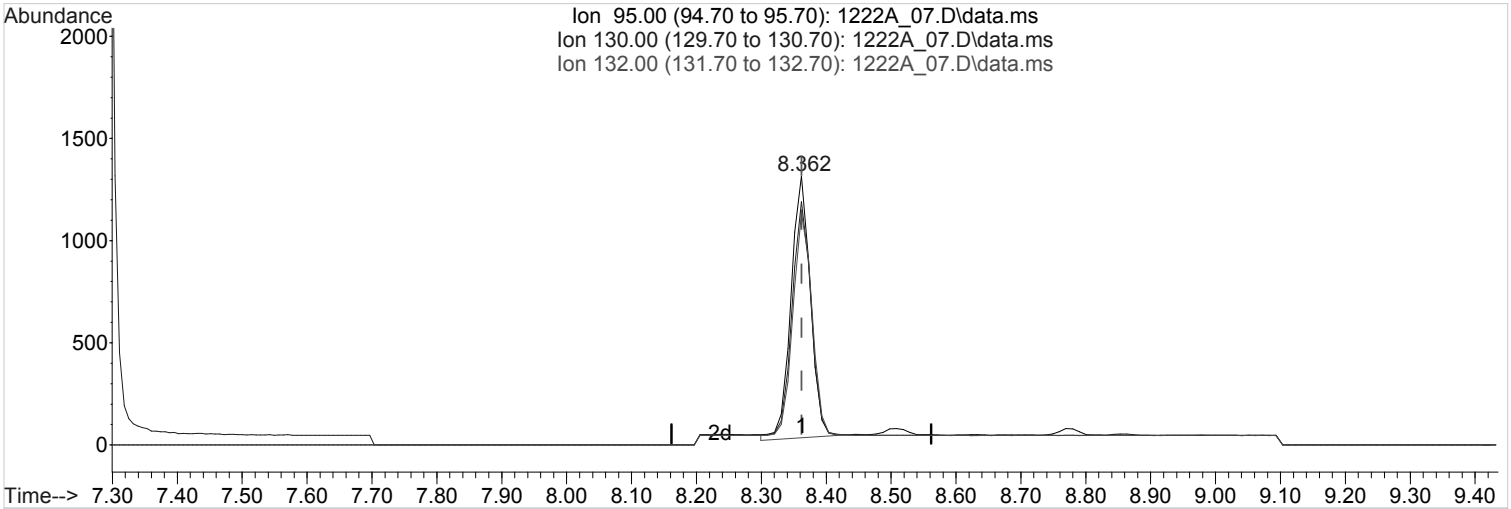
response 3256

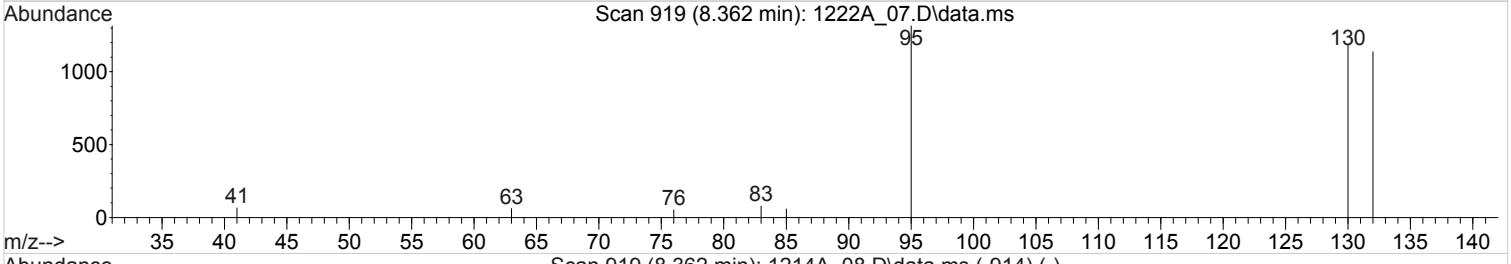
Ion	Exp%	Act%
61.00	100	100
96.00	60.70	56.17
73.00	124.30	117.84
0.00	0.00	0.00

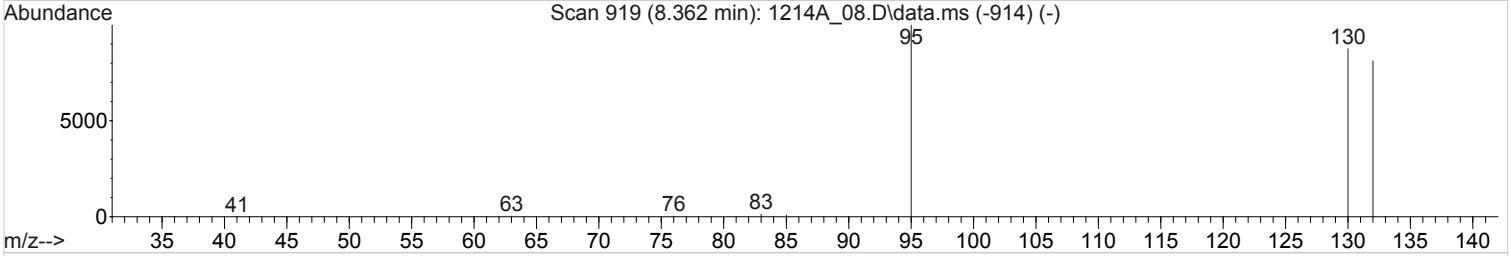
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:45 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration







TIC: 1222A_07.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.1185575 ppbv

Qvalue = 97

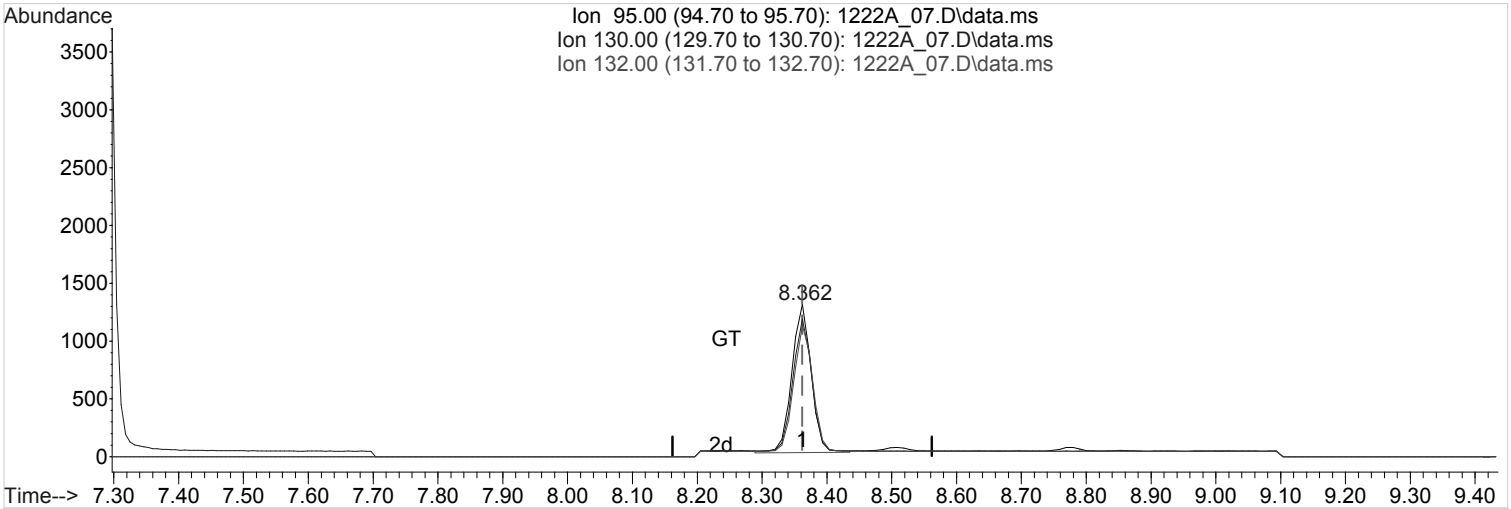
response 2661

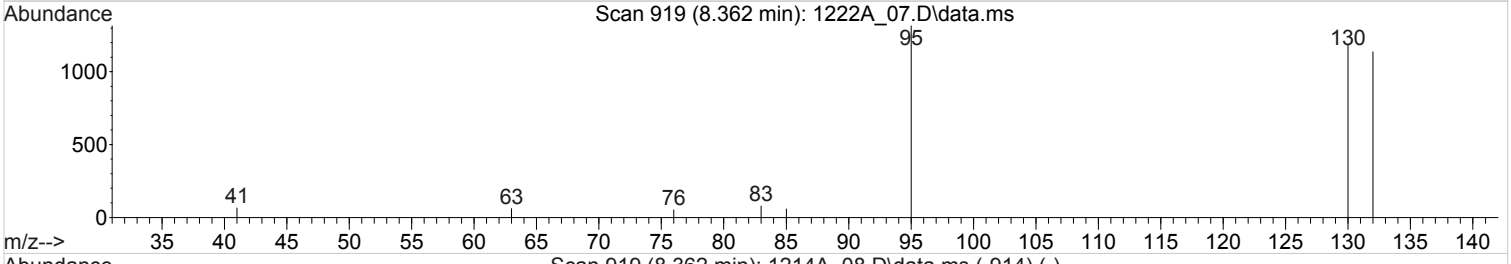
Ion	Exp%	Act%
95.00	100	100
130.00	91.20	86.13
132.00	87.30	88.61
0.00	0.00	0.00

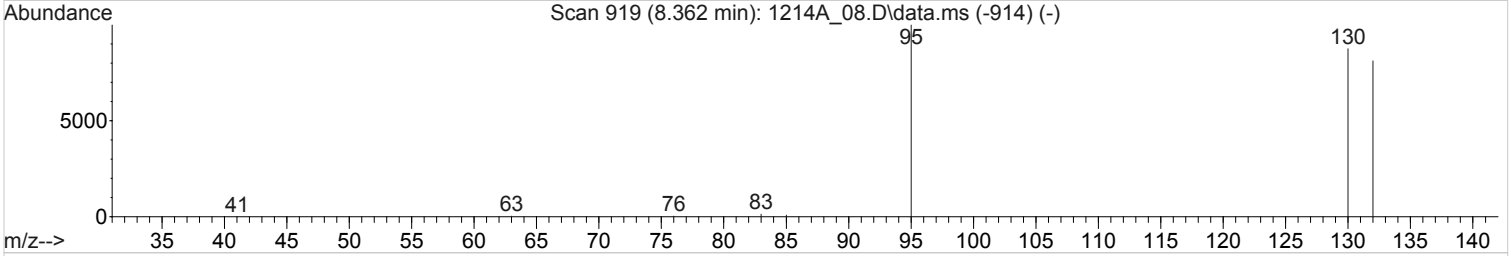
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_07.D
Acq On : 22 Dec 2022 8:35 pm
Operator :
Sample : STD AMS 0.125 ppbv 22L13276
Misc : 22L15639
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:15:45 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:15:40 2022
Response via : Initial Calibration







TIC: 1222A_07.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.1191367 ppbv m

response 2674

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	85.71
132.00	87.30	88.18
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:18:20 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration

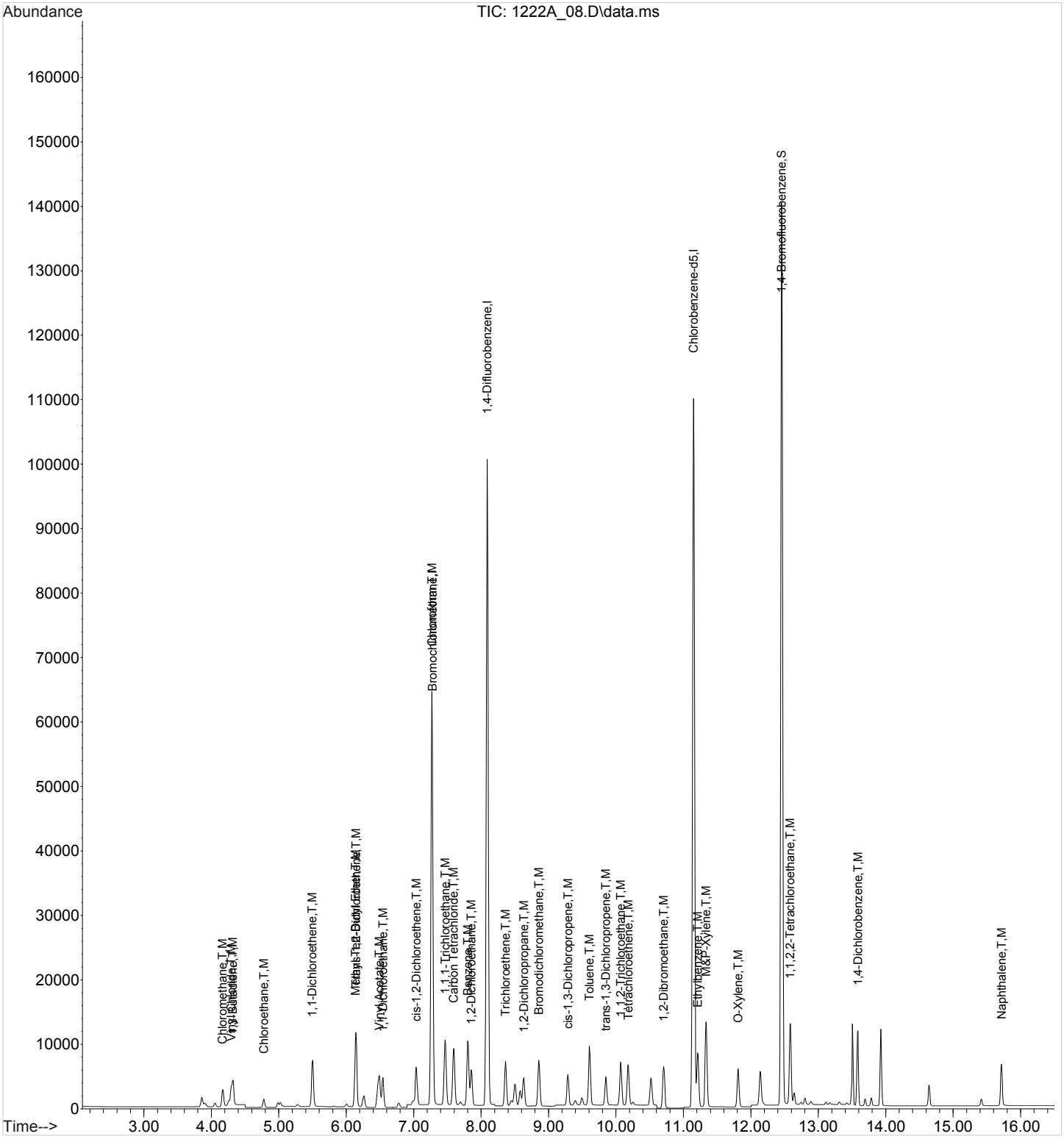
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	38059	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	132381	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	121223	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	79177	1.2839831	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 102.72%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	4129	0.2229096	ppbv	99
3) Vinyl Chloride	4.292	62	3761	0.2413695	ppbv	97
4) 1,3-Butadiene	4.316	39	2720m	0.2393693	ppbv	
5) Chloroethane	4.779	64	1500	0.2530466	ppbv	100
6) 1,1-Dichloroethene	5.495	61	6791	0.2443370	ppbv	100
7) Methyl Tert-Butyl Ether	6.136	73	7764	0.2436373	ppbv	96
8) Trans-1,2-Dichloroethene	6.144	61	6642	0.2551904	ppbv	95
9) 1,1-Dichloroethane	6.544	63	8518	0.2450164	ppbv	100
10) Vinyl Acetate	6.488	43	14209	0.2491016	ppbv	100
11) cis-1,2-Dichloroethene	7.038	96	3602	0.2470132	ppbv #	82
12) Chloroform	7.269	83	8628	0.2423475	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	8752	0.2436293	ppbv	100
14) Carbon Tetrachloride	7.591	117	8990	0.2648679	ppbv	99
15) 1,2-Dichloroethane	7.853	62	6167	0.2464305	ppbv	100
17) Benzene	7.800	78	13577	0.2271176	ppbv	98
18) Trichloroethene	8.362	95	5137m	0.2263907	ppbv	
19) 1,2-Dichloropropane	8.633	63	5028	0.2419209	ppbv	93
20) Bromodichloromethane	8.853	83	9238	0.2421521	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	5533	0.2421185	ppbv	100
22) Toluene	9.606	91	11216	0.2446009	ppbv	100
23) trans-1,3-Dichloropropene	9.847	75	5121	0.2436750	ppbv	100
24) 1,1,2-Trichloroethane	10.069	97	5330	0.2405451	ppbv	100
25) Tetrachloroethene	10.185	166	5876	0.2409946	ppbv	100
26) 1,2-Dibromoethane	10.708	107	6970	0.2427442	ppbv	100
28) Ethylbenzene	11.209	91	12558	0.2557829	ppbv	100
29) M&P-Xylene	11.336	91	17652	0.5159929	ppbv	100
30) O-Xylene	11.808	91	8090	0.2536917	ppbv	100
31) 1,1,2,2-Tetrachloroethane	12.580	83	12513	0.2435974	ppbv	100
33) 1,4-Dichlorobenzene	13.587	146	8736	0.2720796	ppbv	100
34) Naphthalene	15.717	128	9483	0.2676014	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

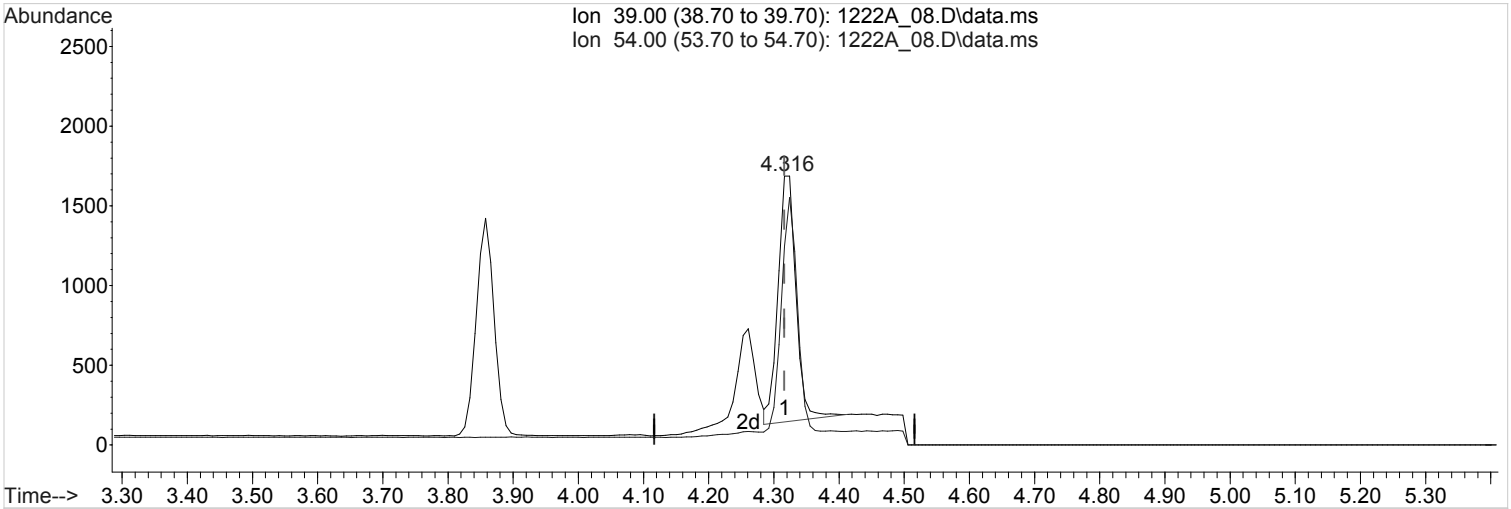
Quant Time: Dec 23 09:18:20 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration

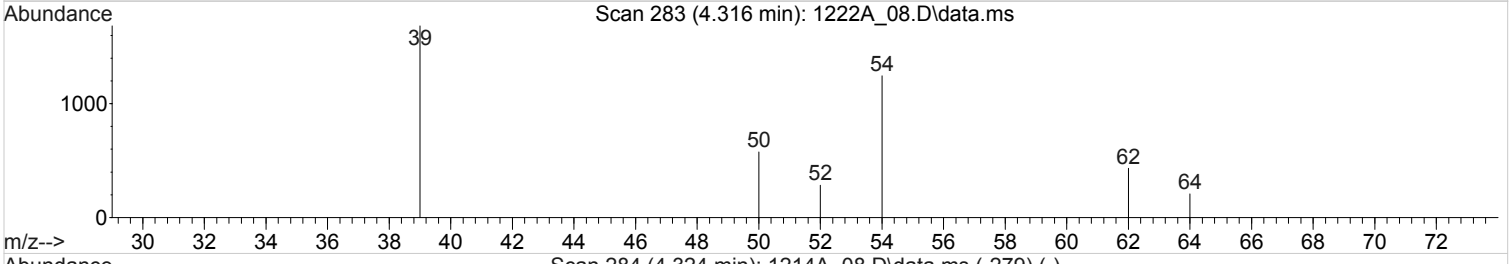


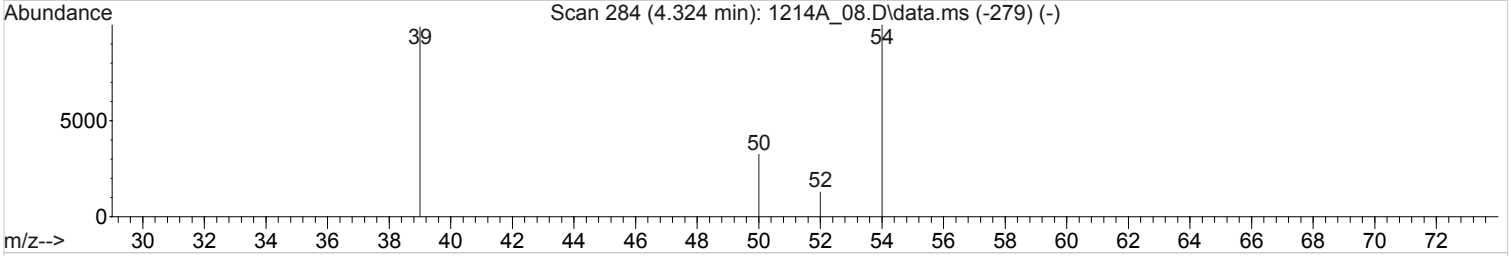
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:17:18 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration







TIC: 1222A_08.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (-0.000) 0.2578501 ppbv

Qvalue = 95

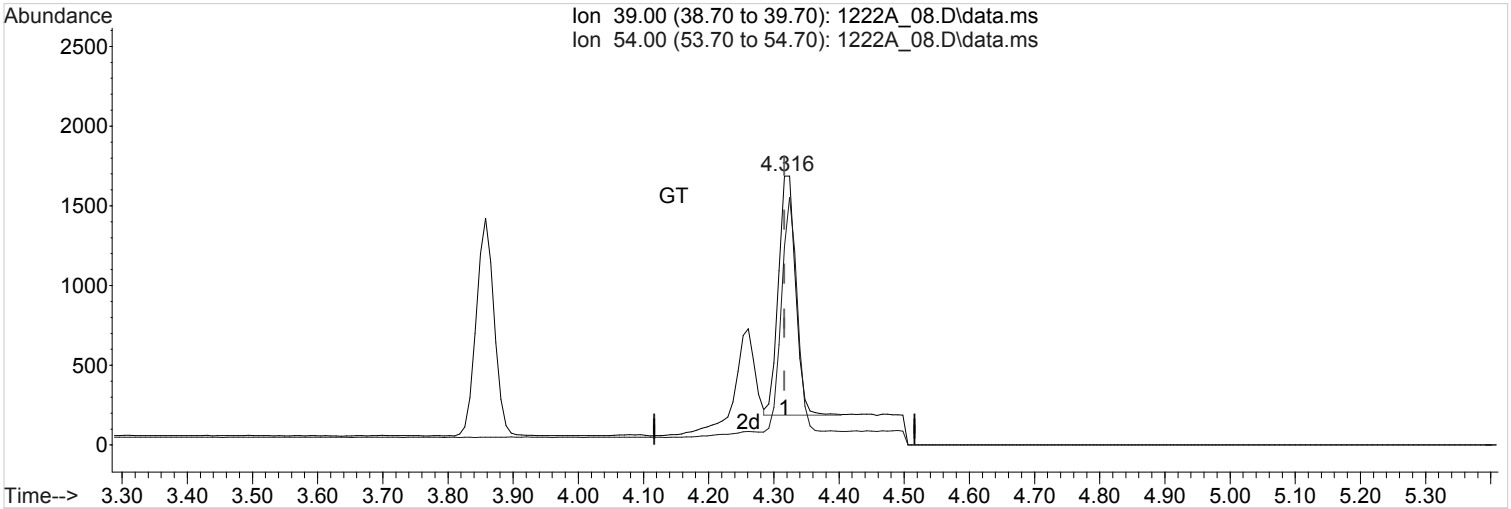
response 2930

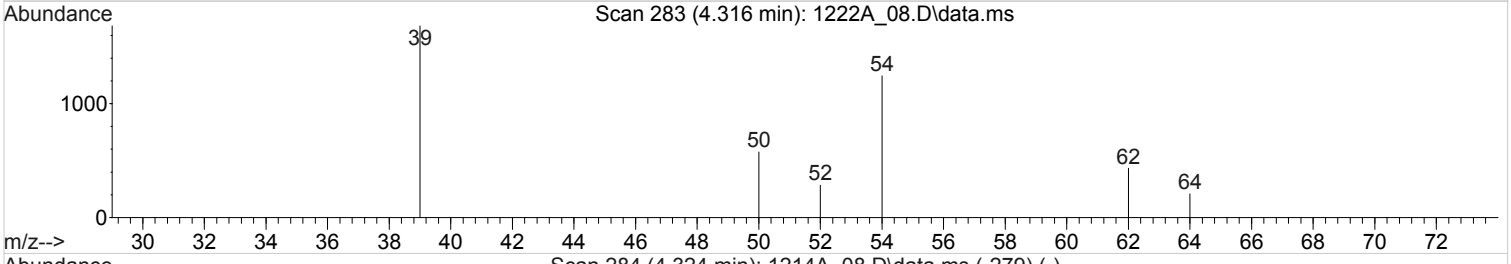
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	85.29
0.00	0.00	0.00
0.00	0.00	0.00

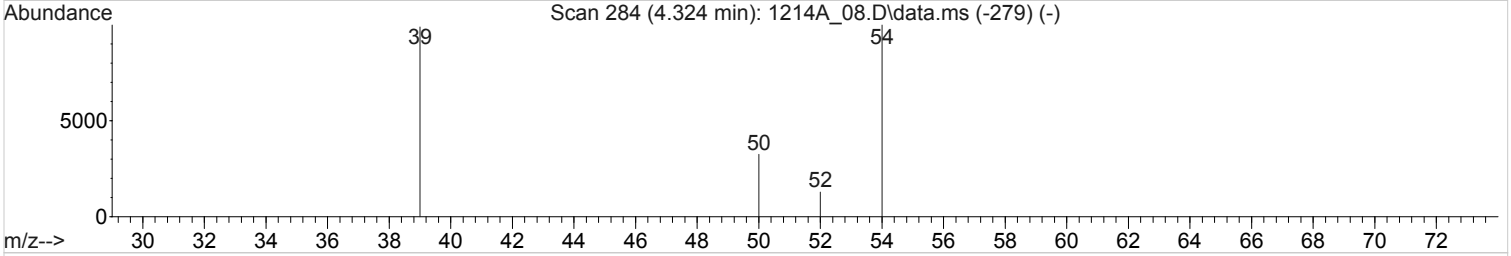
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:17:18 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration







TIC: 1222A_08.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (-0.000) 0.2393693 ppbv m

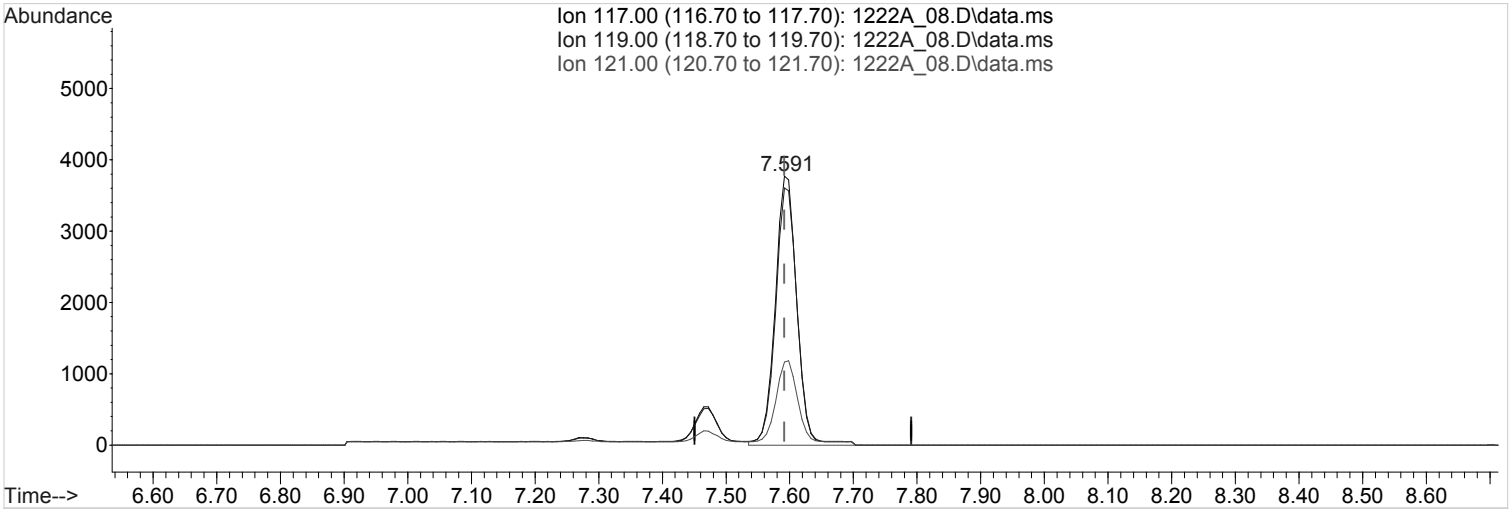
response 2720

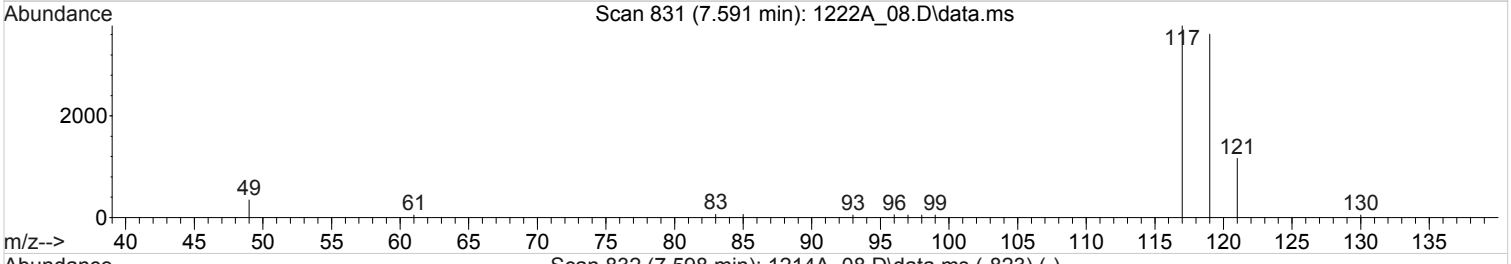
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	91.88
0.00	0.00	0.00
0.00	0.00	0.00

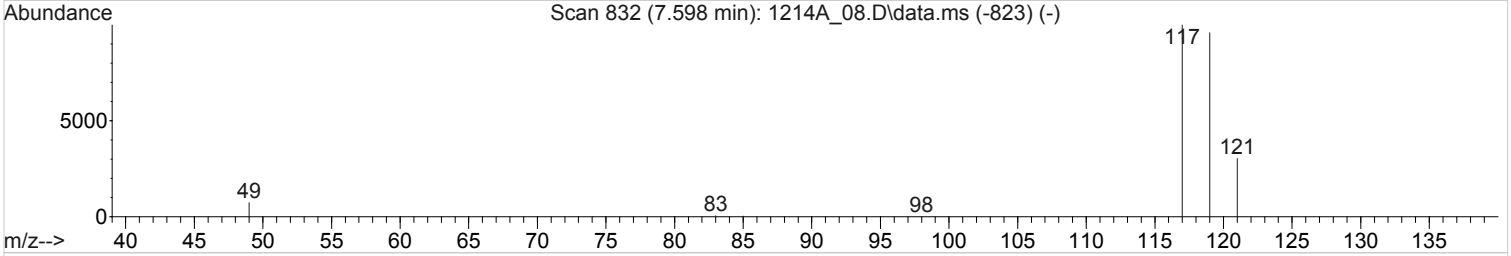
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:17:18 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration







TIC: 1222A_08.D\data.ms

(14) Carbon Tetrachloride (T,M)

7.591min (-0.000) 0.2648679 ppbv

Qvalue = 99

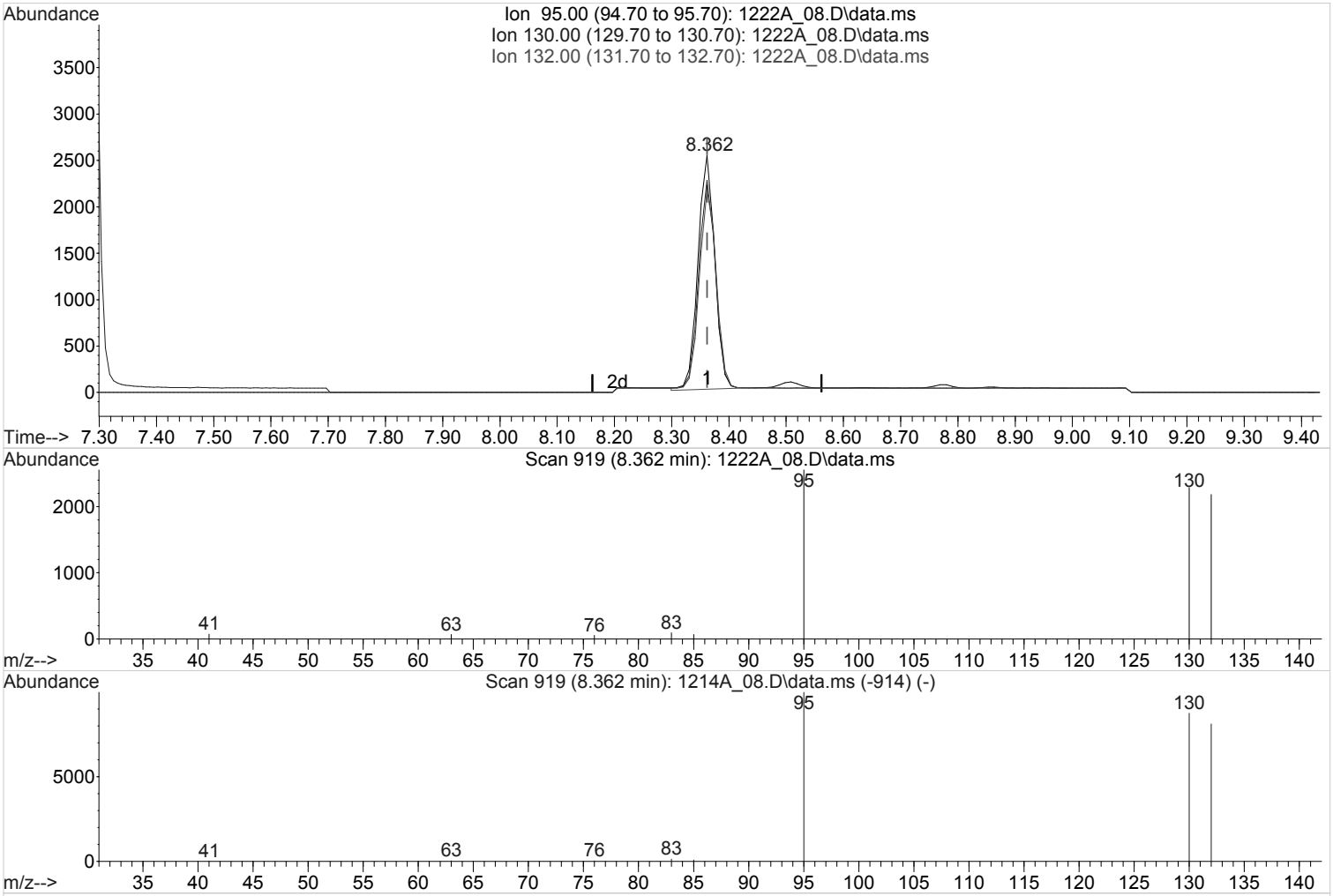
response 8990

Ion	Exp%	Act%
117.00	100	100
119.00	95.90	96.37
121.00	33.70	34.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:17:18 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration



TIC: 1222A_08.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.2270958 ppbv

Qvalue = 100

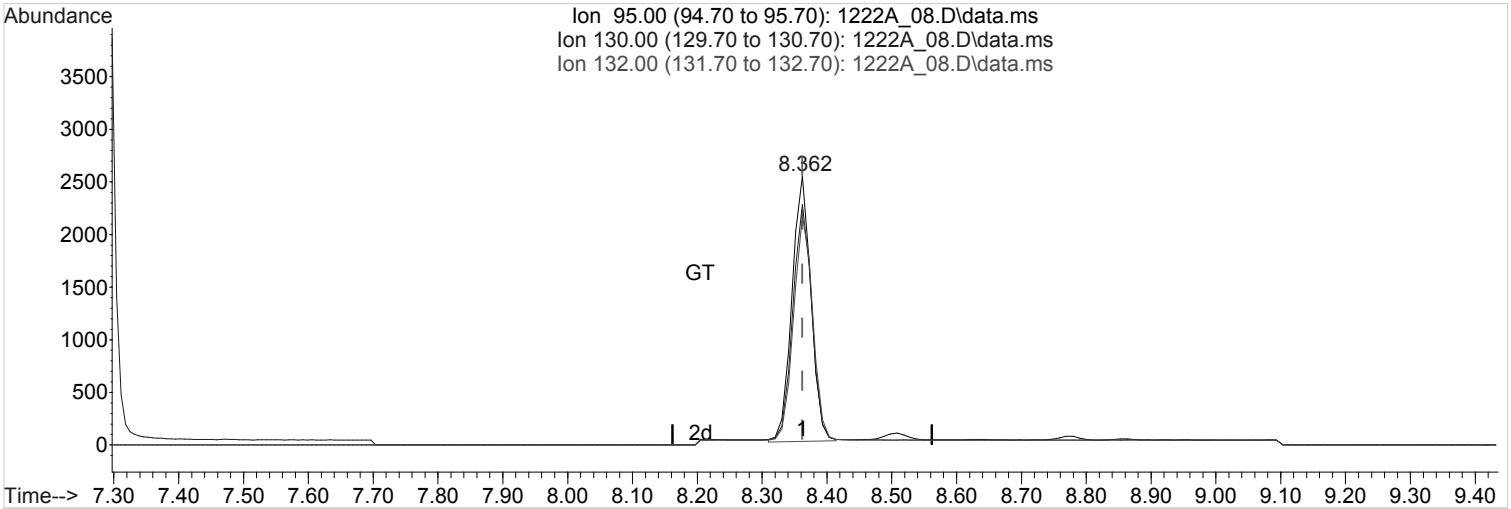
response 5153

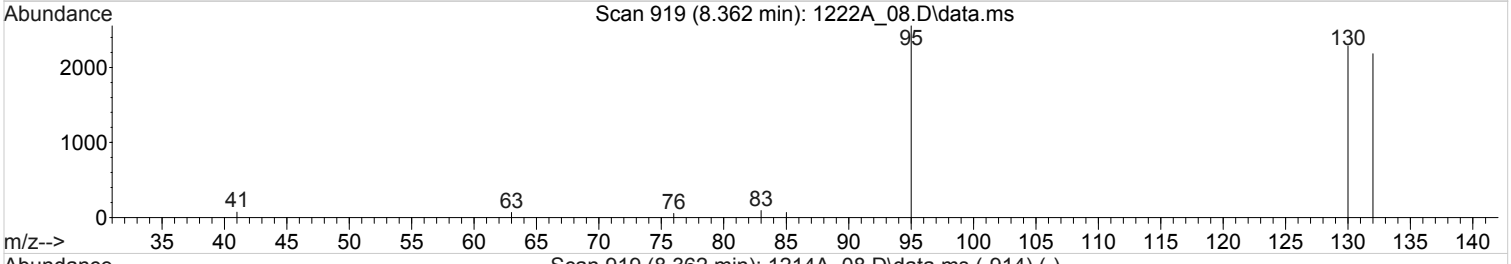
Ion	Exp%	Act%
95.00	100	100
130.00	91.20	91.05
132.00	87.30	87.64
0.00	0.00	0.00

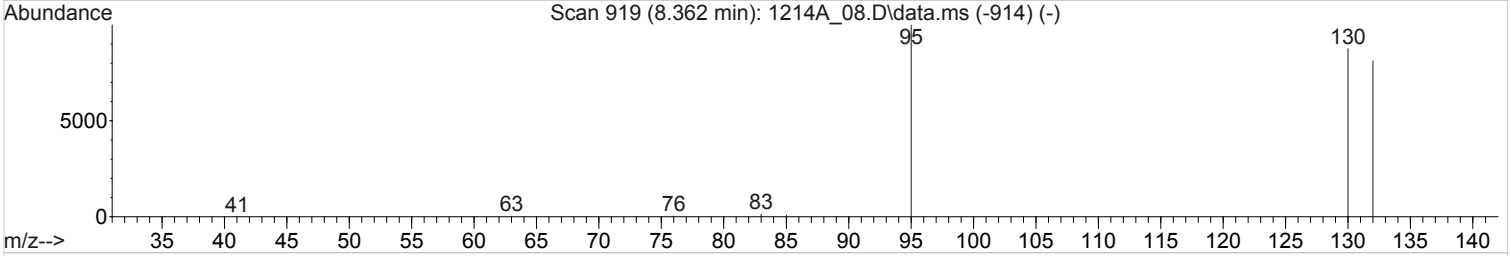
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_08.D
Acq On : 22 Dec 2022 9:15 pm
Operator :
Sample : STD AMS 0.25 ppbv 22L13276
Misc : 22L15639
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:17:18 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:17:13 2022
Response via : Initial Calibration







TIC: 1222A_08.D\data.ms

(18) Trichloroethene (T,M)

8.362min (-0.000) 0.2263907 ppbv m

response 5137

Ion	Exp%	Act%
95.00	100	100
130.00	91.20	91.34
132.00	87.30	87.91
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_09.D
Acq On : 22 Dec 2022 9:55 pm
Operator :
Sample : STD AMS 0.375 ppbv 22L13276
Misc : 22L15639
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:19:15 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:18:42 2022
Response via : Initial Calibration

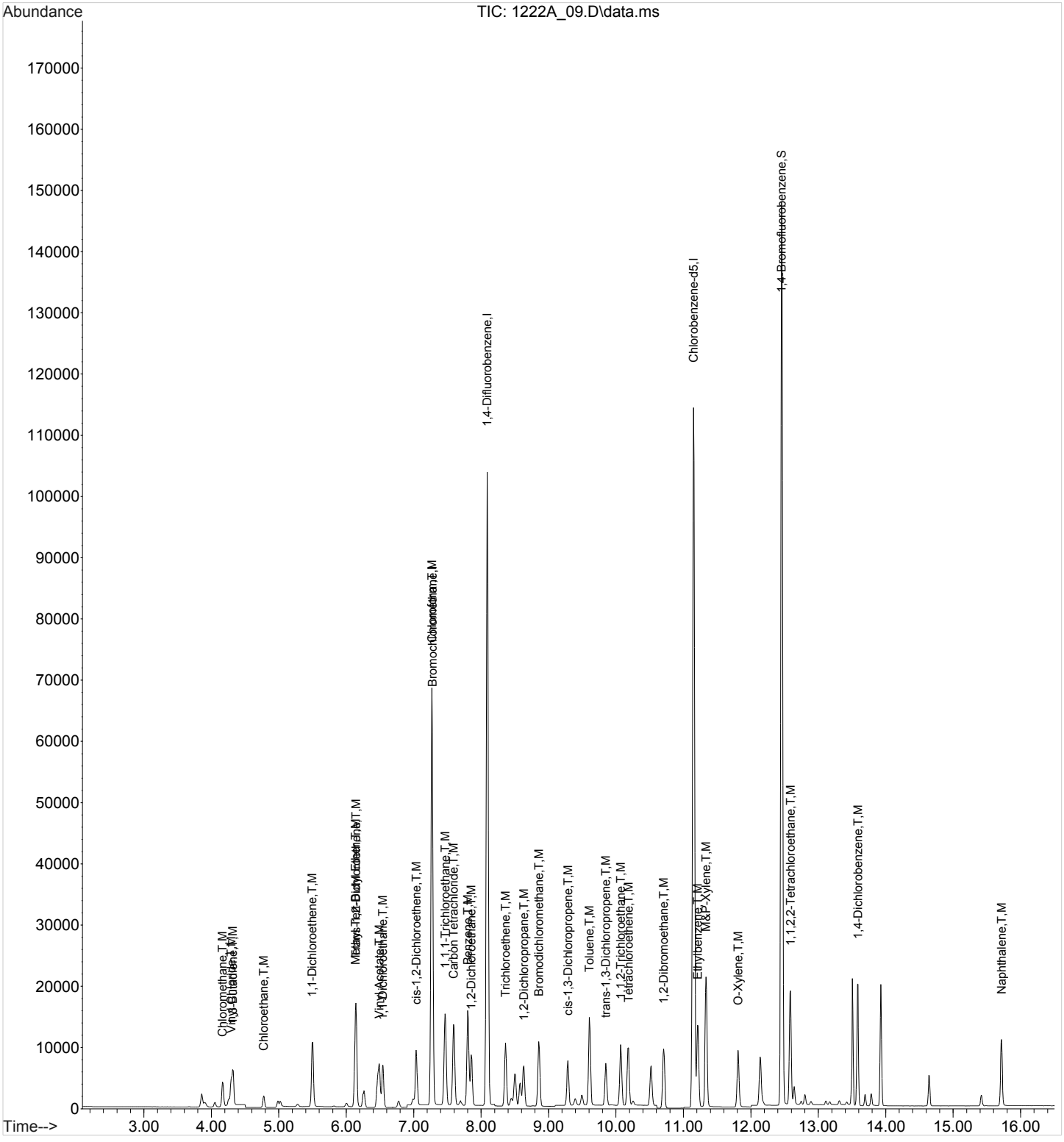
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	38276	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	135942	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	126257	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	83321	1.2914599	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 103.32%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	6089	0.3328709	ppbv	100
3) Vinyl Chloride	4.293	62	5622	0.3608334	ppbv	99
4) 1,3-Butadiene	4.316	39	4011m	0.3534858	ppbv	
5) Chloroethane	4.774	64	2198	0.3679481	ppbv	100
6) 1,1-Dichloroethene	5.495	61	10146	0.3643543	ppbv	100
7) Methyl Tert-Butyl Ether	6.136	73	12277	0.3847046	ppbv	99
8) Trans-1,2-Dichloroethene	6.144	61	9773	0.3720694	ppbv	99
9) 1,1-Dichloroethane	6.541	63	12728	0.3652530	ppbv	100
10) Vinyl Acetate	6.489	43	21097	0.3679804	ppbv	100
11) cis-1,2-Dichloroethene	7.038	96	5458	0.3729121	ppbv	99
12) Chloroform	7.269	83	12765	0.3583450	ppbv	100
13) 1,1,1-Trichloroethane	7.466	97	13033	0.3622812	ppbv	100
14) Carbon Tetrachloride	7.592	117	12596	0.3653840	ppbv	95
15) 1,2-Dichloroethane	7.853	62	9219	0.3671723	ppbv	100
17) Benzene	7.801	78	21081	0.3487277	ppbv	98
18) Trichloroethene	8.362	95	7638	0.3330355	ppbv	99
19) 1,2-Dichloropropane	8.634	63	7624	0.3591522	ppbv	92
20) Bromodichloromethane	8.853	83	13752	0.3528795	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	8378	0.3588951	ppbv	100
22) Toluene	9.606	91	17764	0.3786159	ppbv	100
23) trans-1,3-Dichloropropene	9.847	75	7832	0.3644483	ppbv	99
24) 1,1,2-Trichloroethane	10.069	97	7916	0.3501009	ppbv	99
25) Tetrachloroethene	10.185	166	8808	0.3539077	ppbv	100
26) 1,2-Dibromoethane	10.709	107	10526	0.3587215	ppbv	100
28) Ethylbenzene	11.210	91	20126	0.3920730	ppbv	100
29) M&P-Xylene	11.336	91	28719	0.8017512	ppbv	100
30) O-Xylene	11.808	91	12771	0.3835700	ppbv	100
31) 1,1,2,2-Tetrachloroethane	12.588	83	18849	0.3538236	ppbv	99
33) 1,4-Dichlorobenzene	13.588	146	14647	0.4316338	ppbv	100
34) Naphthalene	15.718	128	15870	0.4249939	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_09.D
Acq On : 22 Dec 2022 9:55 pm
Operator :
Sample : STD AMS 0.375 ppbv 22L13276
Misc : 22L15639
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS7

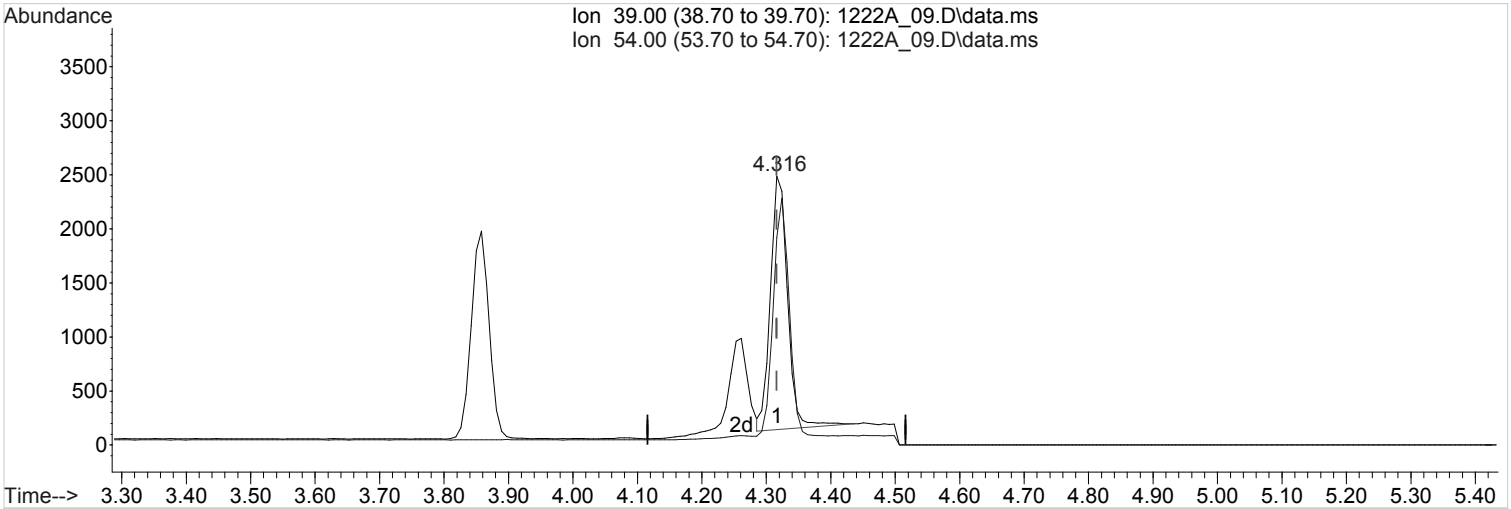
Quant Time: Dec 23 09:19:15 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:18:42 2022
Response via : Initial Calibration

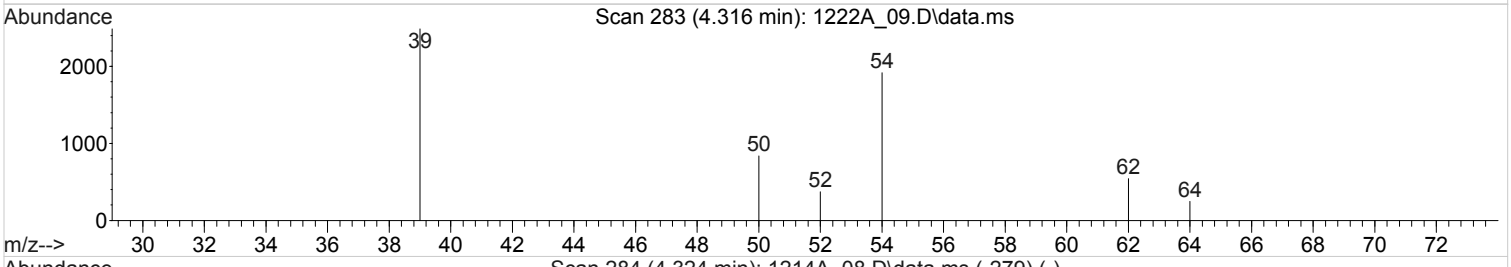


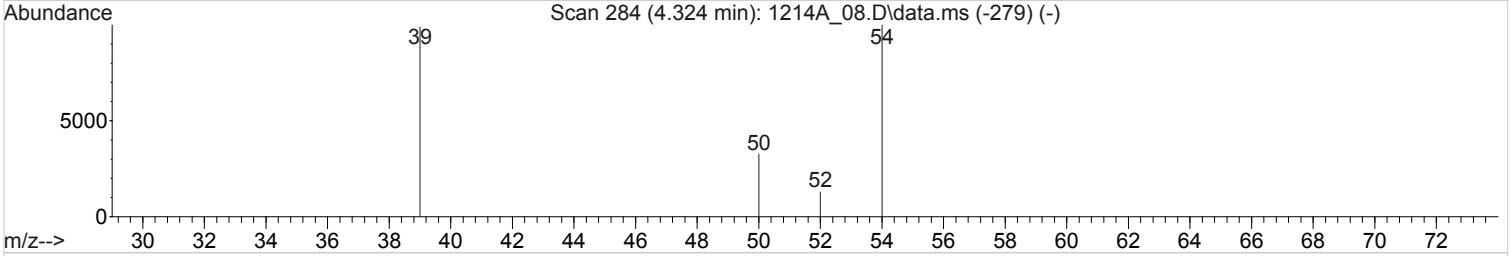
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_09.D
Acq On : 22 Dec 2022 9:55 pm
Operator :
Sample : STD AMS 0.375 ppbv 22L13276
Misc : 22L15639
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:18:52 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:18:42 2022
Response via : Initial Calibration







TIC: 1222A_09.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.3823921 ppbv

Qvalue = 96

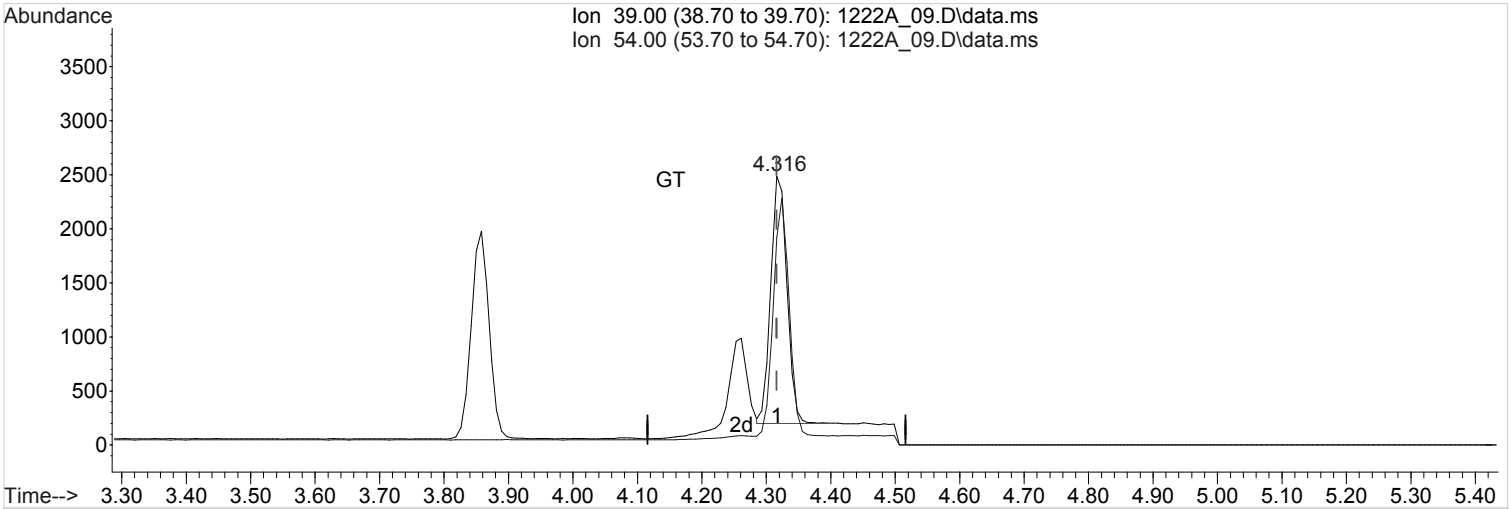
response 4339

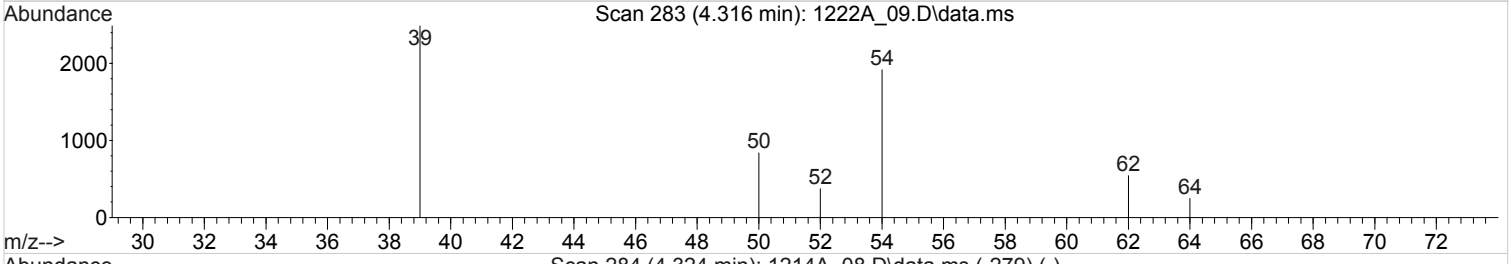
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	86.84
0.00	0.00	0.00
0.00	0.00	0.00

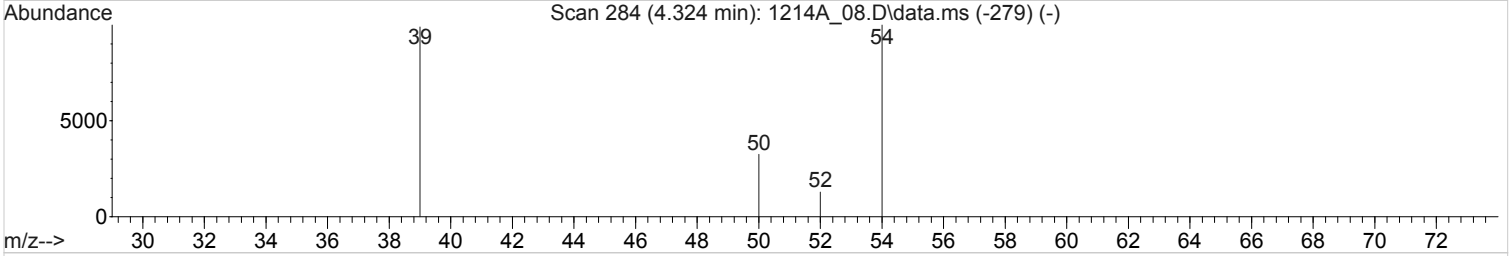
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_09.D
Acq On : 22 Dec 2022 9:55 pm
Operator :
Sample : STD AMS 0.375 ppbv 22L13276
Misc : 22L15639
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:18:52 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:18:42 2022
Response via : Initial Calibration







TIC: 1222A_09.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.3534858 ppbv m

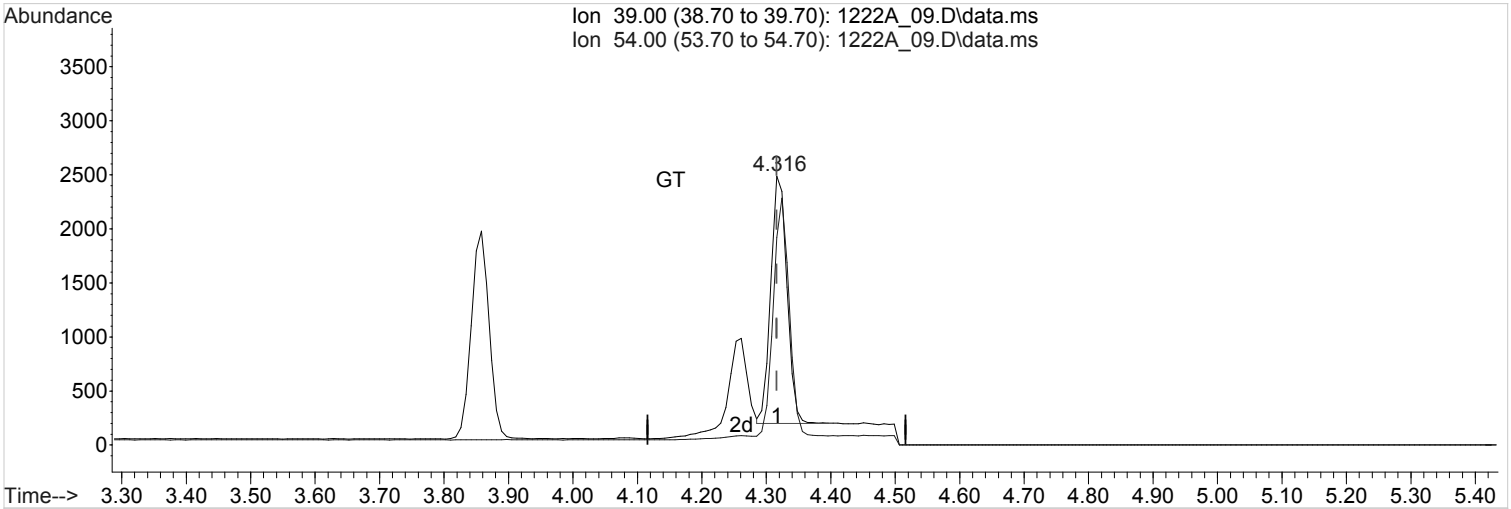
response 4011

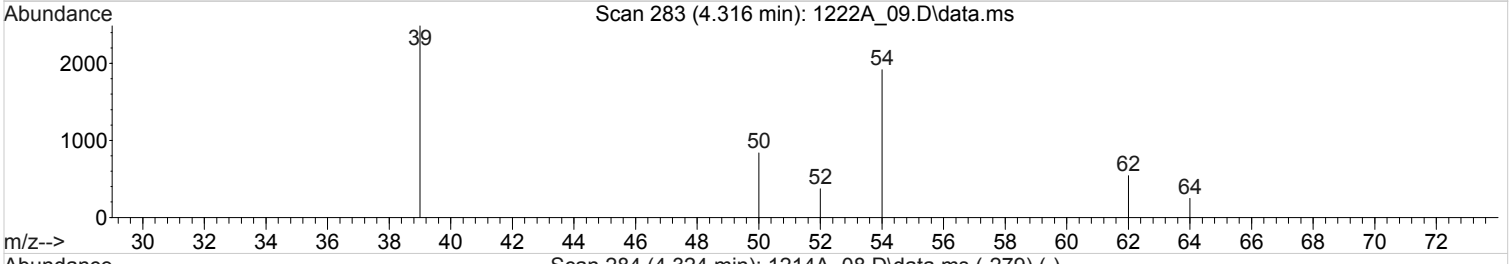
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	93.94
0.00	0.00	0.00
0.00	0.00	0.00

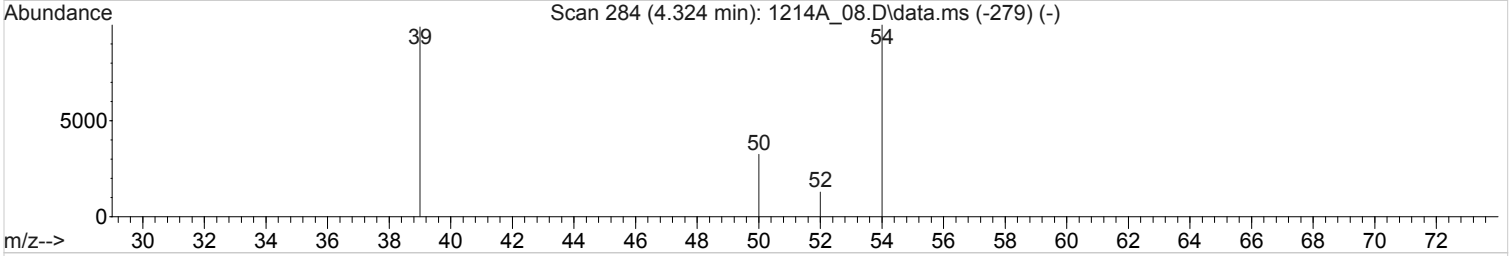
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_09.D
Acq On : 22 Dec 2022 9:55 pm
Operator :
Sample : STD AMS 0.375 ppbv 22L13276
Misc : 22L15639
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:18:52 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:18:42 2022
Response via : Initial Calibration







TIC: 1222A_09.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.3534858 ppbv m

response 4011

Ion	Exp%	Act%
39.00	100	100
54.00	90.30	93.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_10.D
Acq On : 22 Dec 2022 10:37 pm
Operator :
Sample : MSTD AMS 0.5 ppbv 22L13276
Misc : 22L15639
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:21:32 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:20:36 2022
Response via : Initial Calibration

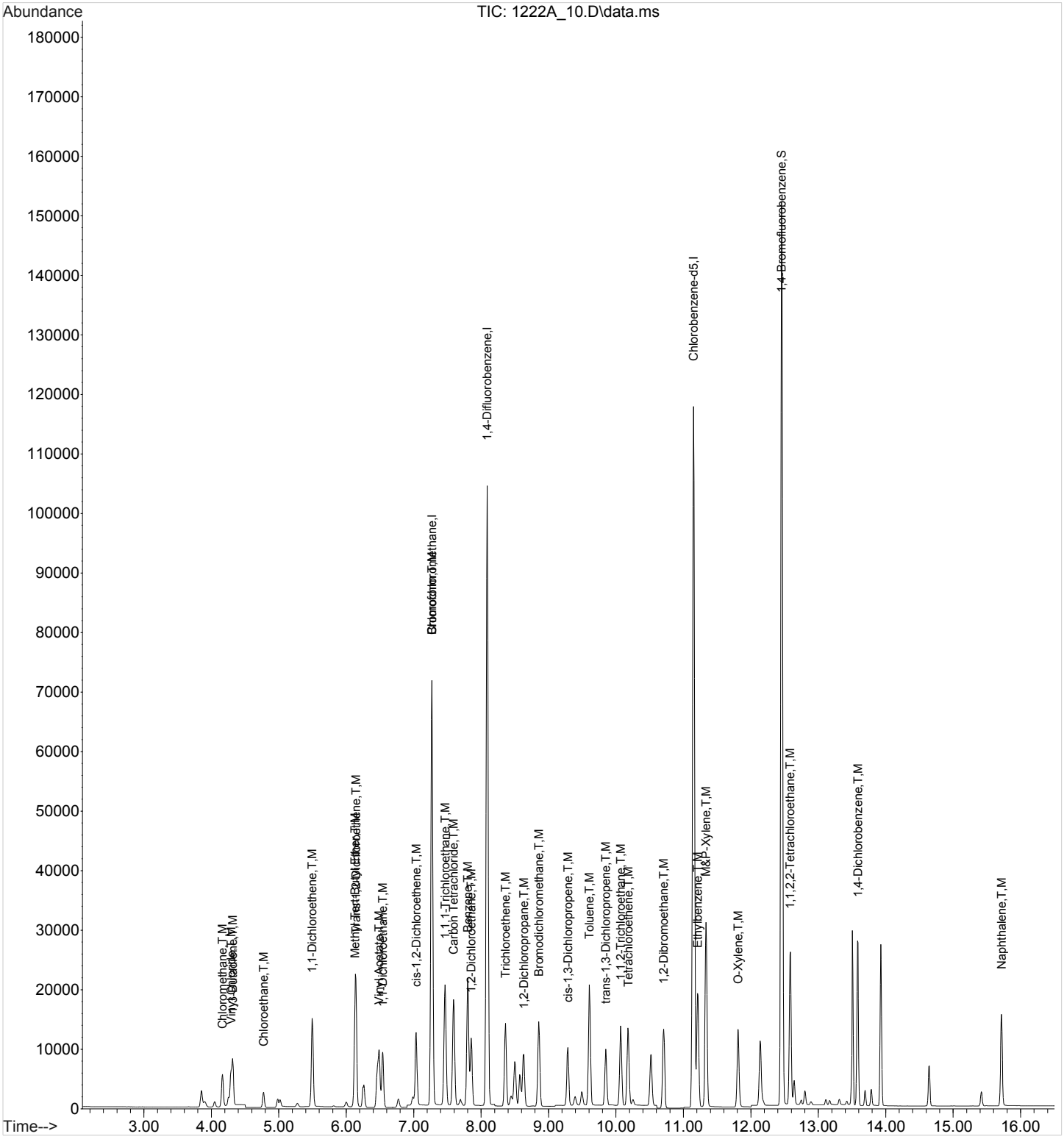
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.269	130	38136	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	137471	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	128213	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	85600	1.3003812	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 104.03%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	8061	0.4502709	ppbv	100
3) Vinyl Chloride	4.293	62	7373	0.4784011	ppbv	100
4) 1,3-Butadiene	4.316	39	5226m	0.4669074	ppbv	
5) Chloroethane	4.774	64	2925	0.4936832	ppbv	100
6) 1,1-Dichloroethene	5.495	61	13684	0.4961300	ppbv	100
7) Methyl Tert-Butyl Ether	6.128	73	16229	0.5095078	ppbv	100
8) Trans-1,2-Dichloroethene	6.144	61	13054	0.5002969	ppbv	100
9) 1,1-Dichloroethane	6.541	63	17053	0.4939014	ppbv	100
10) Vinyl Acetate	6.485	43	29028	0.5104808	ppbv	100
11) cis-1,2-Dichloroethene	7.038	96	7423	0.5103905	ppbv	100
12) Chloroform	7.269	83	17158	0.4874035	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	17480	0.4909495	ppbv	100
14) Carbon Tetrachloride	7.592	117	16846	0.4931716	ppbv	100
15) 1,2-Dichloroethane	7.853	62	12453	0.5002083	ppbv	100
17) Benzene	7.801	78	28751	0.4759121	ppbv	100
18) Trichloroethene	8.362	95	10268	0.4506877	ppbv	100
19) 1,2-Dichloropropane	8.634	63	10334	0.4852034	ppbv	100
20) Bromodichloromethane	8.853	83	18434	0.4725778	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	11380	0.4859275	ppbv	100
22) Toluene	9.606	91	24924	0.5255868	ppbv	100
23) trans-1,3-Dichloropropene	9.847	75	10737	0.4969759	ppbv	100
24) 1,1,2-Trichloroethane	10.069	97	10720	0.4741700	ppbv	100
25) Tetrachloroethene	10.185	166	11927	0.4785943	ppbv	100
26) 1,2-Dibromoethane	10.708	107	14285	0.4852940	ppbv	100
28) Ethylbenzene	11.210	91	28711	0.5482953	ppbv	100
29) M&P-Xylene	11.336	91	41263	1.1255363	ppbv	100
30) O-Xylene	11.808	91	17885	0.5282622	ppbv	100
31) 1,1,2,2-Tetrachloroethane	12.581	83	25441	0.4749534	ppbv	100
33) 1,4-Dichlorobenzene	13.588	146	20665	0.5882693	ppbv	100
34) Naphthalene	15.718	128	22397	0.5808104	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_10.D
Acq On : 22 Dec 2022 10:37 pm
Operator :
Sample : MSTD AMS 0.5 ppbv 22L13276
Misc : 22L15639
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS7

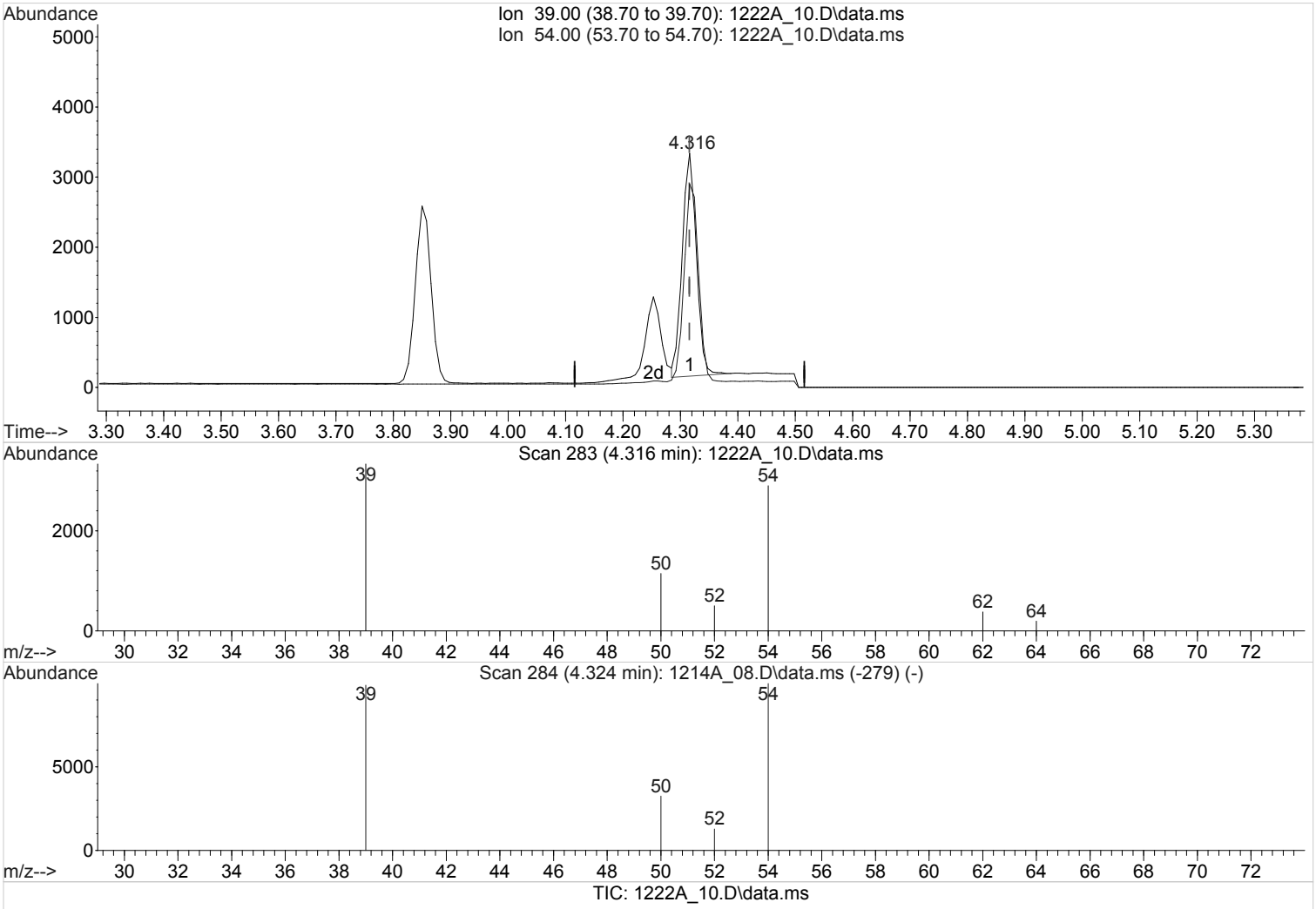
Quant Time: Dec 23 09:21:32 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:20:36 2022
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_10.D
Acq On : 22 Dec 2022 10:37 pm
Operator :
Sample : MSTD AMS 0.5 ppbv 22L13276
Misc : 22L15639
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:21:10 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:20:36 2022
Response via : Initial Calibration



TIC: 1222A_10.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (0.000) 0.4858482 ppbv

Qvalue = 100

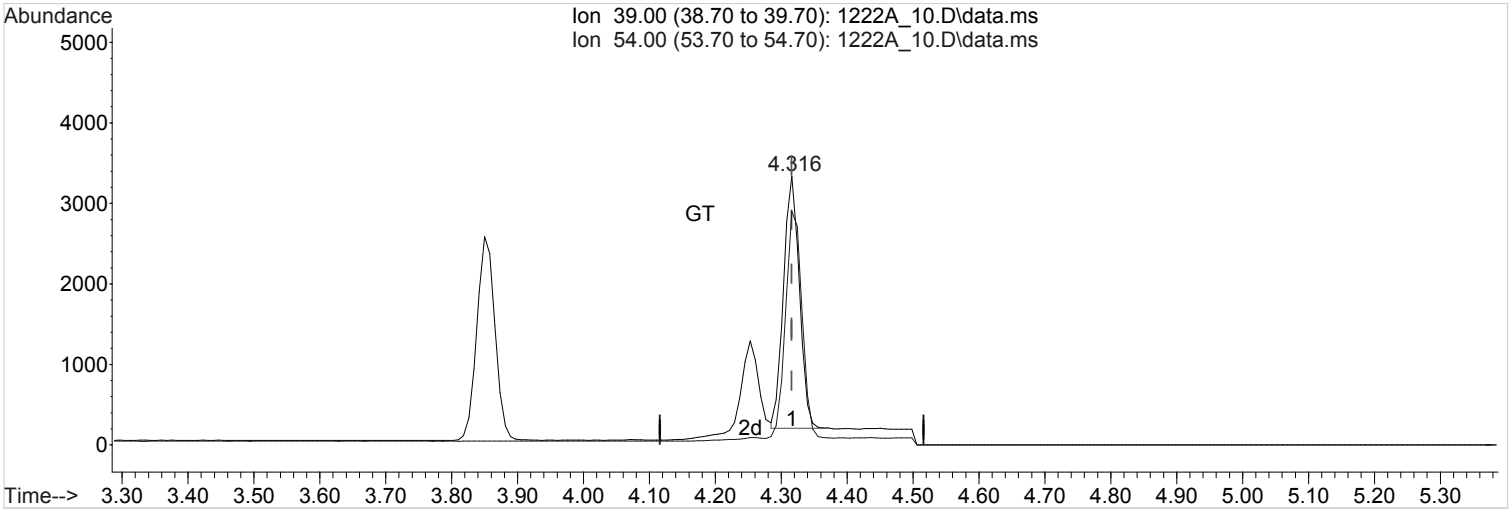
response 5438

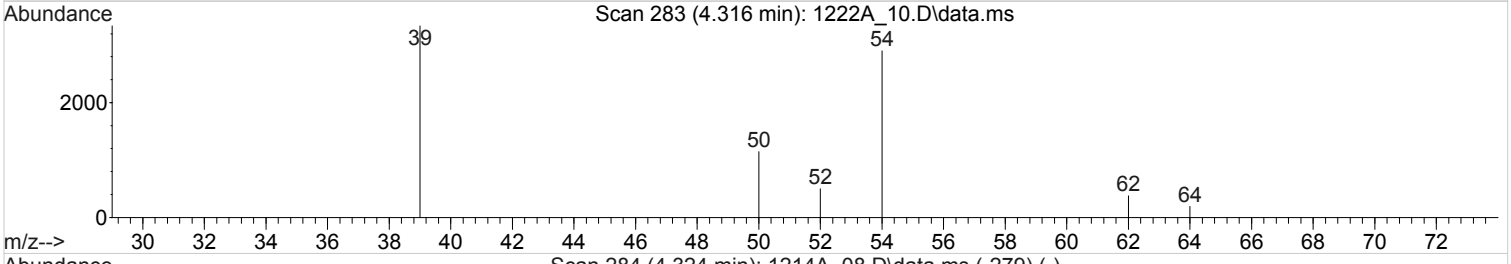
Ion	Exp%	Act%
39.00	100	100
54.00	90.30	90.33
0.00	0.00	0.00
0.00	0.00	0.00

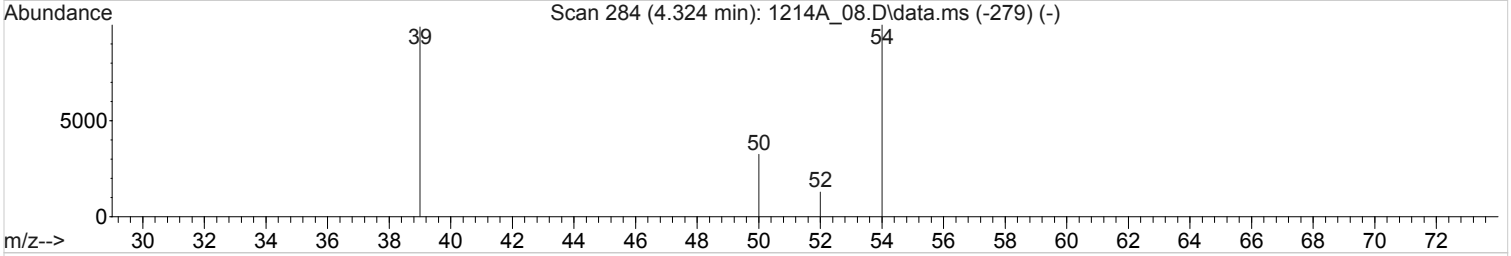
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_10.D
Acq On : 22 Dec 2022 10:37 pm
Operator :
Sample : MSTD AMS 0.5 ppbv 22L13276
Misc : 22L15639
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:21:10 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:20:36 2022
Response via : Initial Calibration







TIC: 1222A_10.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (0.000) 0.4669074 ppbv m

response 5226

Ion	Exp%	Act%
39.00	100	100
54.00	90.30	93.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_11.D
Acq On : 22 Dec 2022 11:14 pm
Operator :
Sample : STD AMS 1.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:22:54 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:22:10 2022
Response via : Initial Calibration

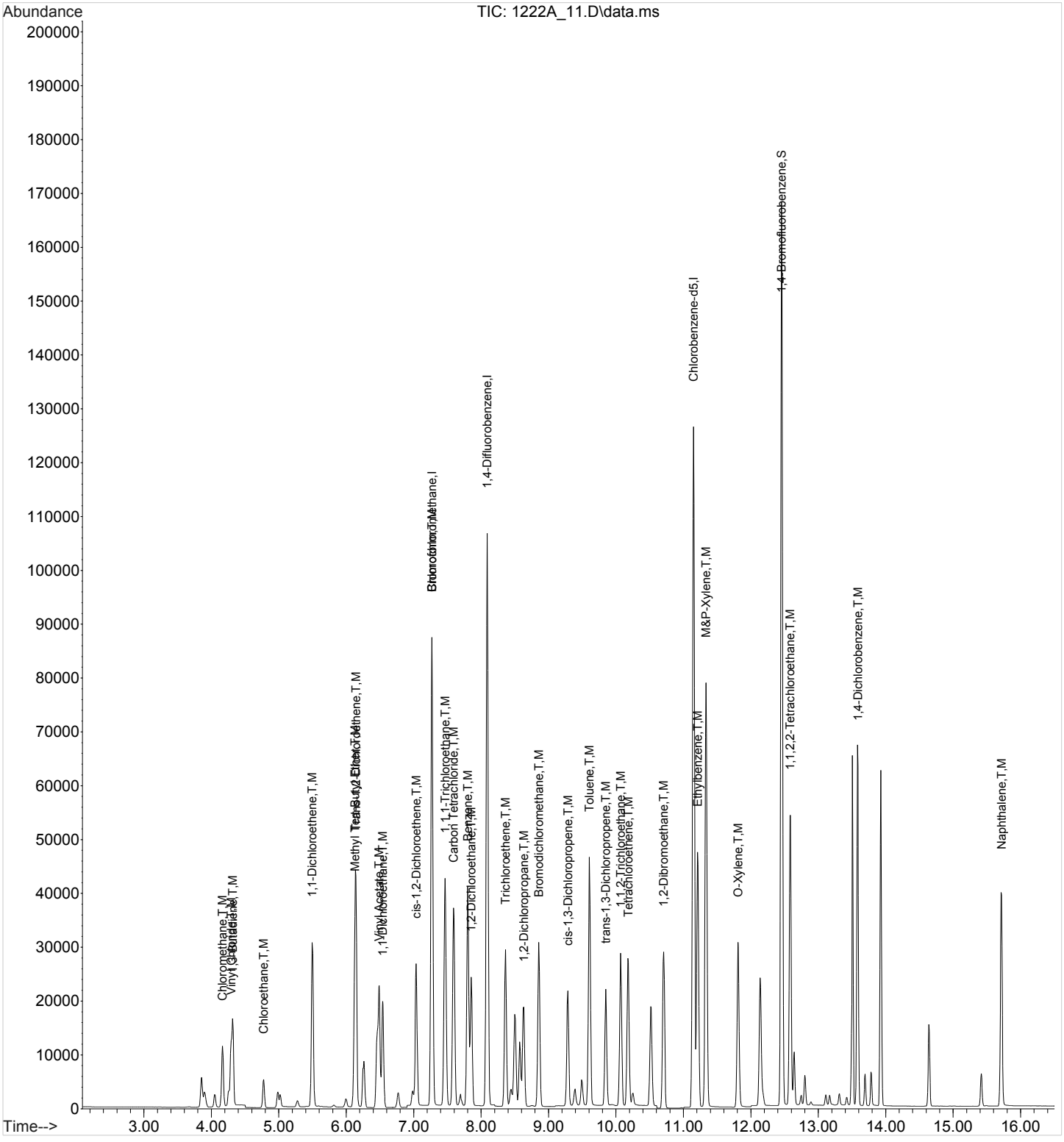
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.269	130	37973	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	139895	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	137269	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	92916	1.3183994	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 105.47%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	16534	0.9275196	ppbv	99
3) Vinyl Chloride	4.293	62	14760	0.9618216	ppbv	99
4) 1,3-Butadiene	4.316	39	11079m	0.9994907	ppbv	
5) Chloroethane	4.774	64	5913	1.0022835	ppbv	100
6) 1,1-Dichloroethene	5.495	61	28430	1.0354676	ppbv	100
7) Methyl Tert-Butyl Ether	6.128	73	33737	1.0637162	ppbv	98
8) Trans-1,2-Dichloroethene	6.144	61	27424	1.0555413	ppbv	99
9) 1,1-Dichloroethane	6.541	63	35805	1.0414619	ppbv	100
10) Vinyl Acetate	6.485	43	65277	1.1528762	ppbv	99
11) cis-1,2-Dichloroethene	7.038	96	16101	1.1118245	ppbv	99
12) Chloroform	7.269	83	35703	1.0185608	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	36375	1.0260266	ppbv	100
14) Carbon Tetrachloride	7.592	117	35244	1.0362073	ppbv	99
15) 1,2-Dichloroethane	7.853	62	26226	1.0579598	ppbv	100
17) Benzene	7.801	78	53922	0.8770991	ppbv	99
18) Trichloroethene	8.362	95	21442	0.9248344	ppbv	99
19) 1,2-Dichloropropane	8.634	63	22232	1.0257530	ppbv	98
20) Bromodichloromethane	8.853	83	38870	0.9792130	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	24945	1.0466986	ppbv	100
22) Toluene	9.606	91	56138	1.1633022	ppbv	99
23) trans-1,3-Dichloropropene	9.847	75	24387	1.1092251	ppbv	100
24) 1,1,2-Trichloroethane	10.069	97	22585	0.9816762	ppbv	100
25) Tetrachloroethene	10.185	166	25384	1.0009336	ppbv	100
26) 1,2-Dibromoethane	10.708	107	31357	1.0468105	ppbv	100
28) Ethylbenzene	11.210	91	70299	1.2539347	ppbv	100
29) M&P-Xylene	11.336	91	103702	2.6425194	ppbv	100
30) O-Xylene	11.808	91	42280	1.1664206	ppbv	100
31) 1,1,2,2-Tetrachloroethane	12.581	83	53676	0.9359585	ppbv	100
33) 1,4-Dichlorobenzene	13.588	146	48519	1.2900669	ppbv	100
34) Naphthalene	15.718	128	58764	1.4233623	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_11.D
Acq On : 22 Dec 2022 11:14 pm
Operator :
Sample : STD AMS 1.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS7

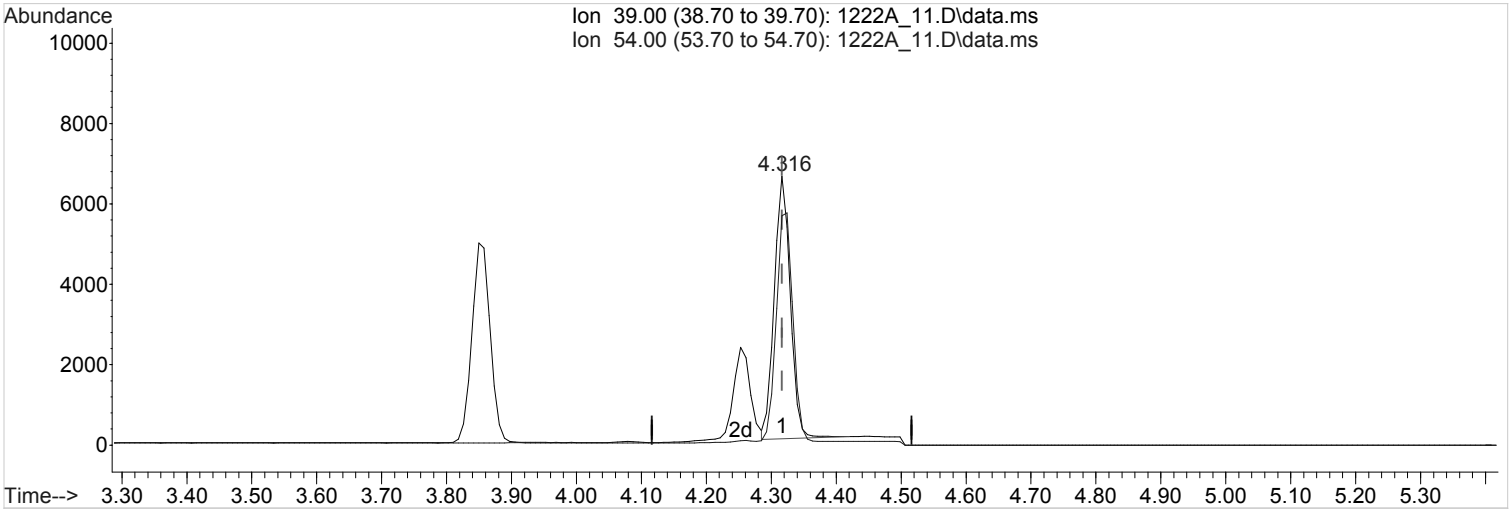
Quant Time: Dec 23 09:22:54 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:22:10 2022
Response via : Initial Calibration

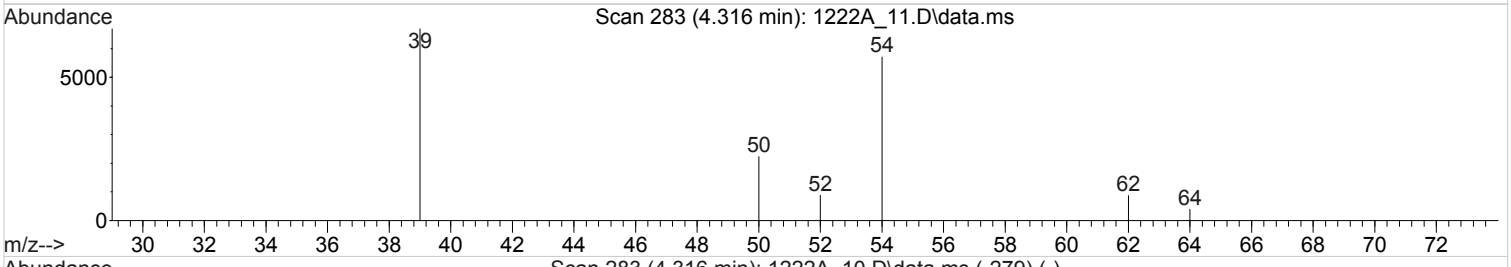


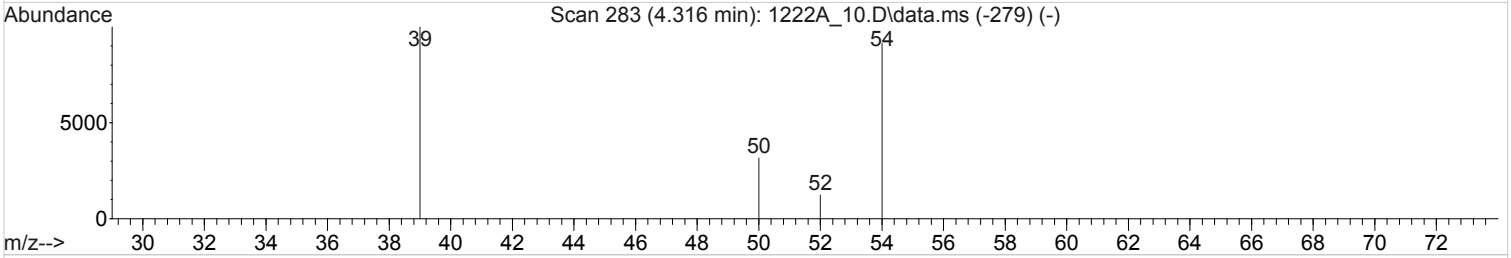
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_11.D
Acq On : 22 Dec 2022 11:14 pm
Operator :
Sample : STD AMS 1.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:22:29 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:22:10 2022
Response via : Initial Calibration







TIC: 1222A_11.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 1.0108578 ppbv

Qvalue = 100

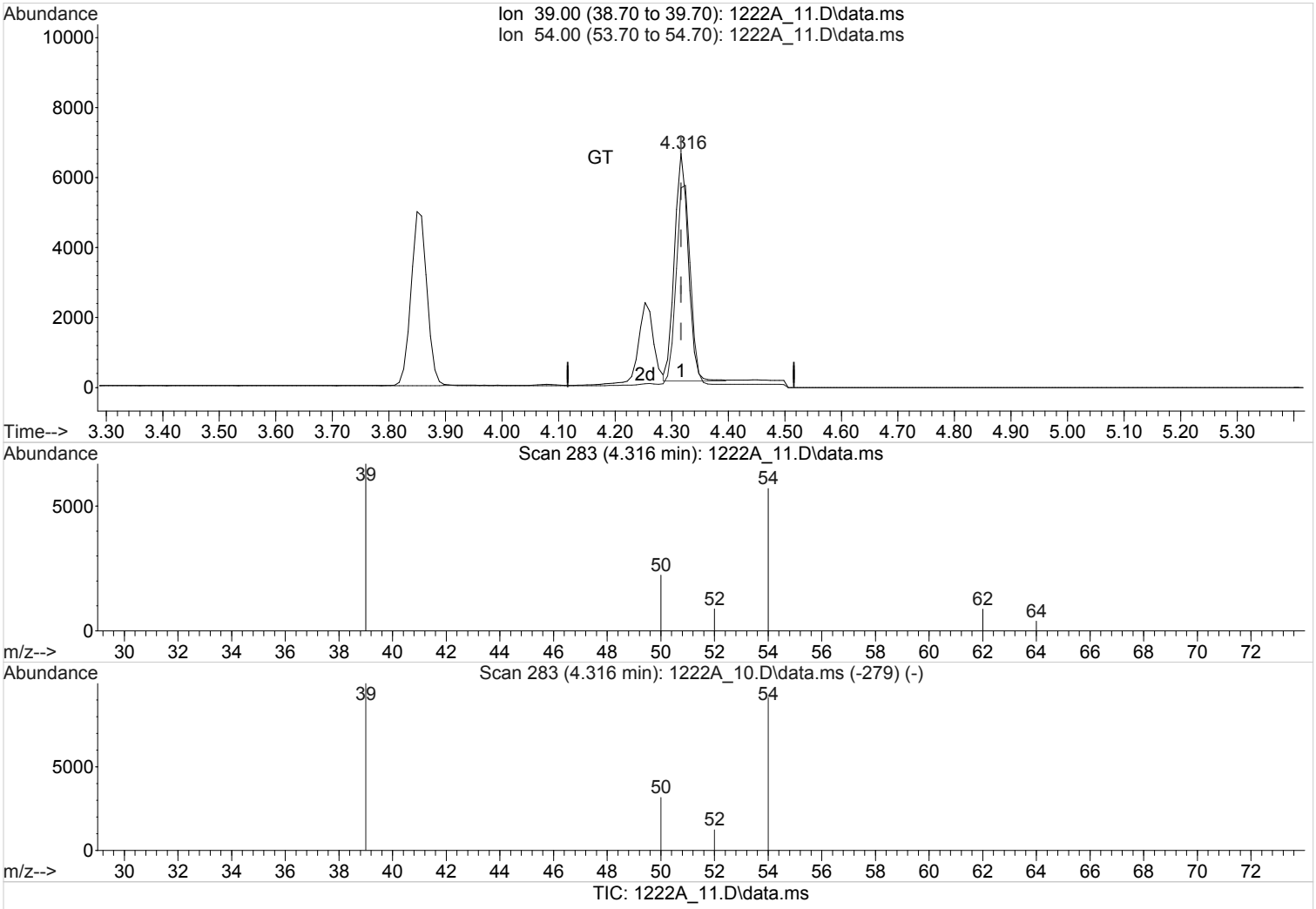
response 11205

Ion	Exp%	Act%
39.00	100	100
54.00	90.30	90.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_11.D
Acq On : 22 Dec 2022 11:14 pm
Operator :
Sample : STD AMS 1.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:22:29 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:22:10 2022
Response via : Initial Calibration



TIC: 1222A_11.D\data.ms

(4) 1,3-Butadiene (T,M)

4.316min (+0.000) 0.9994907 ppbv m

response 11079

Ion	Exp%	Act%
39.00	100	100
54.00	90.30	91.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_12.D
Acq On : 22 Dec 2022 11:56 pm
Operator :
Sample : STD AMS 5.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:23:55 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:23:30 2022
Response via : Initial Calibration

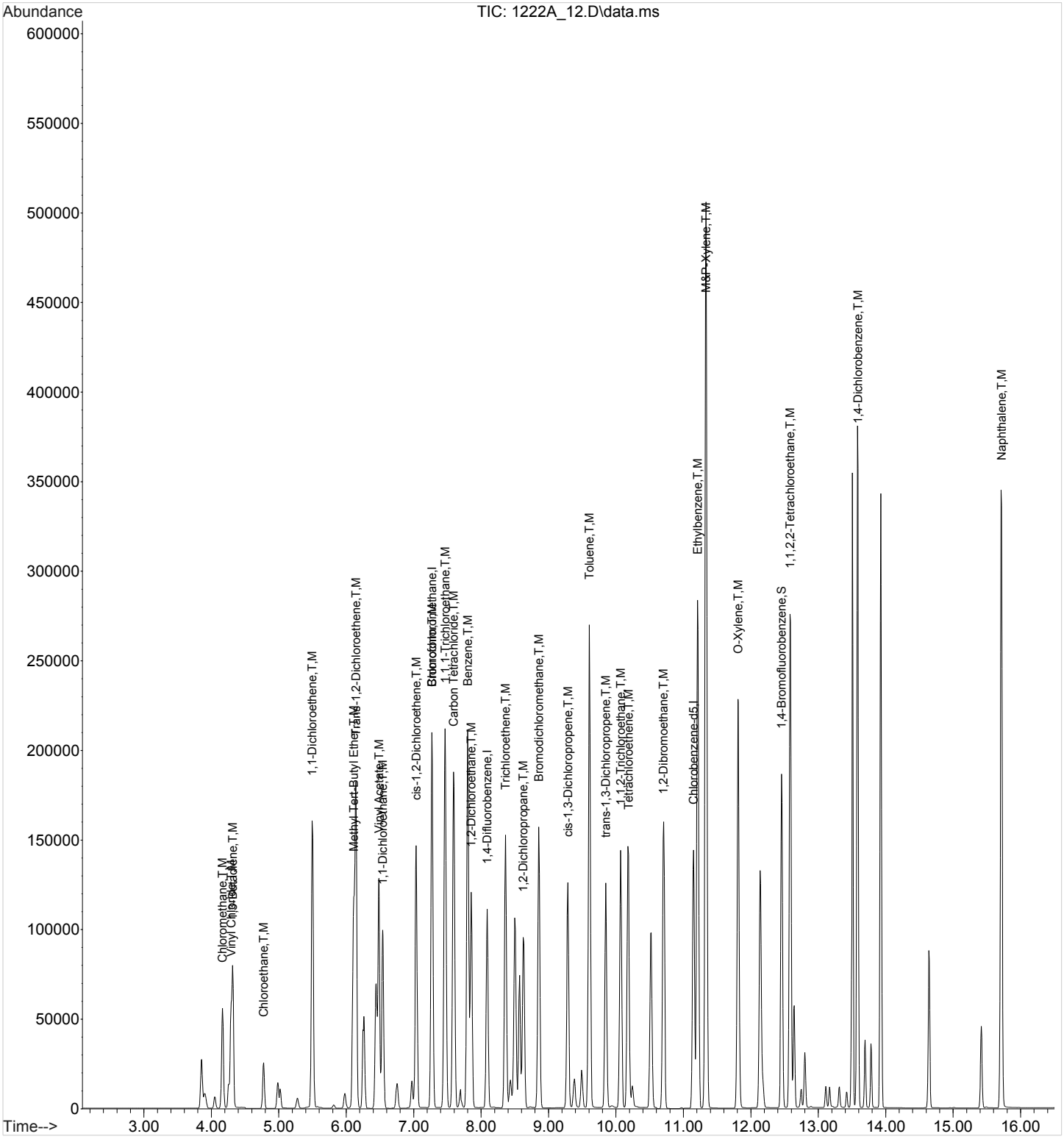
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.269	130	38790	1.2500000	ppbv	# 0.00
16) 1,4-Difluorobenzene	8.091	114	146250	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	156311	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	102859	1.2729792	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 101.84%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	80814	4.4785721	ppbv	99
3) Vinyl Chloride	4.292	62	70627	4.5270114	ppbv	98
4) 1,3-Butadiene	4.316	39	54103	4.7783982	ppbv	98
5) Chloroethane	4.774	64	28822	4.7812120	ppbv	100
6) 1,1-Dichloroethene	5.495	61	149142	5.2941174	ppbv	100
7) Methyl Tert-Butyl Ether	6.112	73	197784	6.0564810	ppbv	96
8) Trans-1,2-Dichloroethene	6.144	61	144160	5.3943559	ppbv	91
9) 1,1-Dichloroethane	6.540	63	181063	5.1290807	ppbv	100
10) Vinyl Acetate	6.485	43	368247m	6.2473521	ppbv	
11) cis-1,2-Dichloroethene	7.038	96	88671	5.9114166	ppbv	99
12) Chloroform	7.269	83	178036	4.9606521	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	183805	5.0589161	ppbv	99
14) Carbon Tetrachloride	7.591	117	181457	5.1991121	ppbv	97
15) 1,2-Dichloroethane	7.853	62	129859	5.0913058	ppbv	99
17) Benzene	7.800	78	283609	4.4815959	ppbv	96
18) Trichloroethene	8.362	95	111641	4.6497385	ppbv	98
19) 1,2-Dichloropropane	8.623	63	115176	5.0668352	ppbv	94
20) Bromodichloromethane	8.853	83	199687	4.8244597	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	144477	5.7652140	ppbv	100
22) Toluene	9.606	91	320949	6.2345064	ppbv	98
23) trans-1,3-Dichloropropene	9.847	75	140453	6.0285000	ppbv	99
24) 1,1,2-Trichloroethane	10.069	97	115900	4.8298516	ppbv	99
25) Tetrachloroethene	10.185	166	134936	5.0889558	ppbv	100
26) 1,2-Dibromoethane	10.701	107	170646	5.4175409	ppbv	100
28) Ethylbenzene	11.209	91	420508	6.3842801	ppbv	99
29) M&P-Xylene	11.336	91	655927	14.1114098	ppbv	100
30) O-Xylene	11.808	91	293235	6.9594863	ppbv	100
31) 1,1,2,2-Tetrachloroethane	12.580	83	276504	4.2682652	ppbv	100
33) 1,4-Dichlorobenzene	13.587	146	273354	6.1594324	ppbv	99
34) Naphthalene	15.717	128	483312	9.7638055	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_12.D
Acq On : 22 Dec 2022 11:56 pm
Operator :
Sample : STD AMS 5.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS7

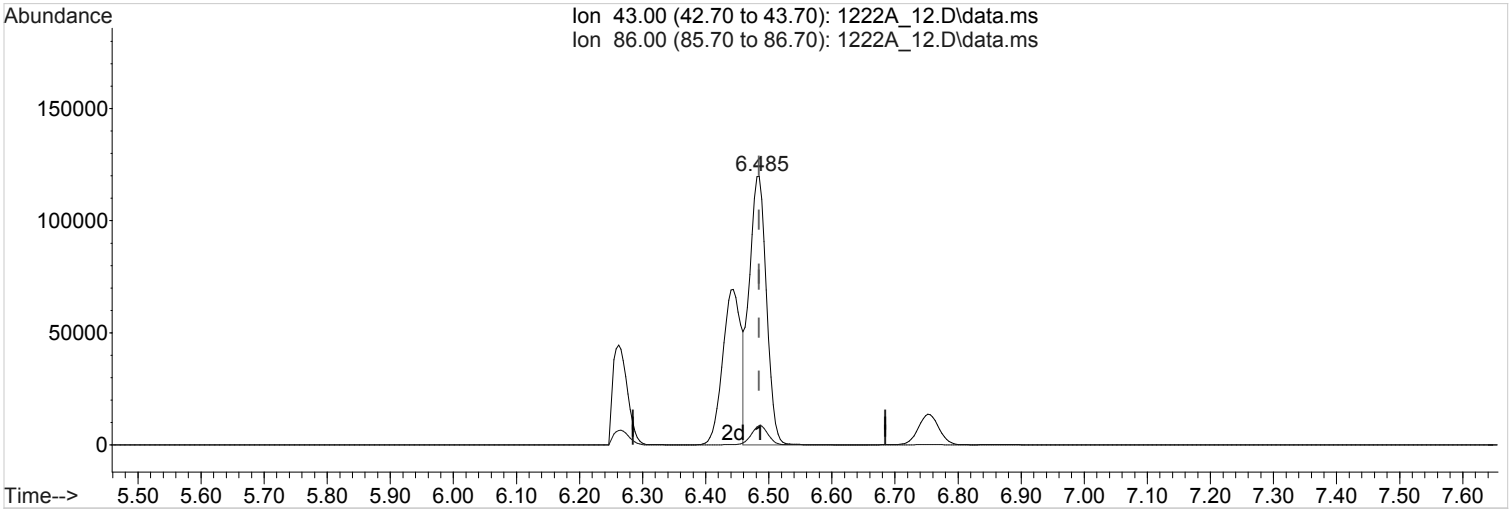
Quant Time: Dec 23 09:23:55 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:23:30 2022
Response via : Initial Calibration

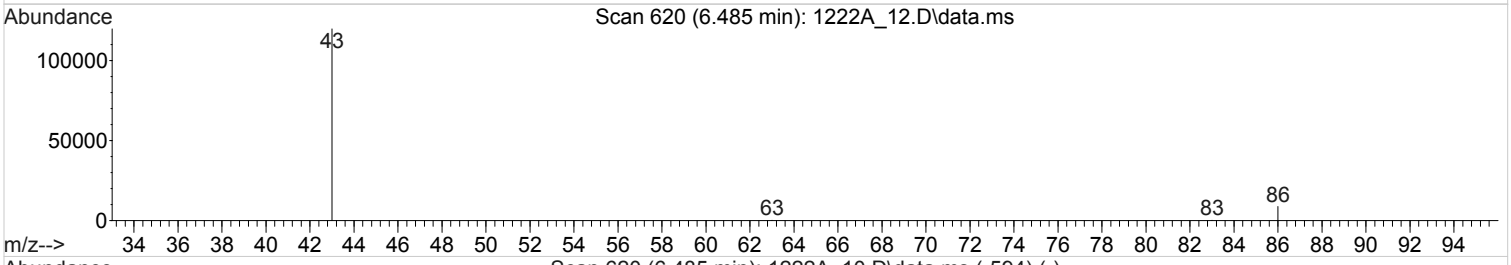


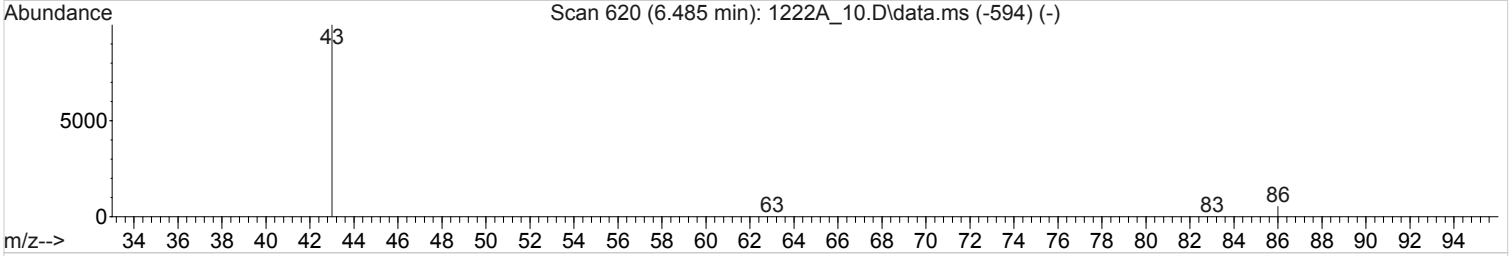
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_12.D
Acq On : 22 Dec 2022 11:56 pm
Operator :
Sample : STD AMS 5.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:23:36 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:23:30 2022
Response via : Initial Calibration







TIC: 1222A_12.D\data.ms

(10) Vinyl Acetate (T,M)

6.485min (-0.000) 3.8552372 ppbv

Qvalue = 91

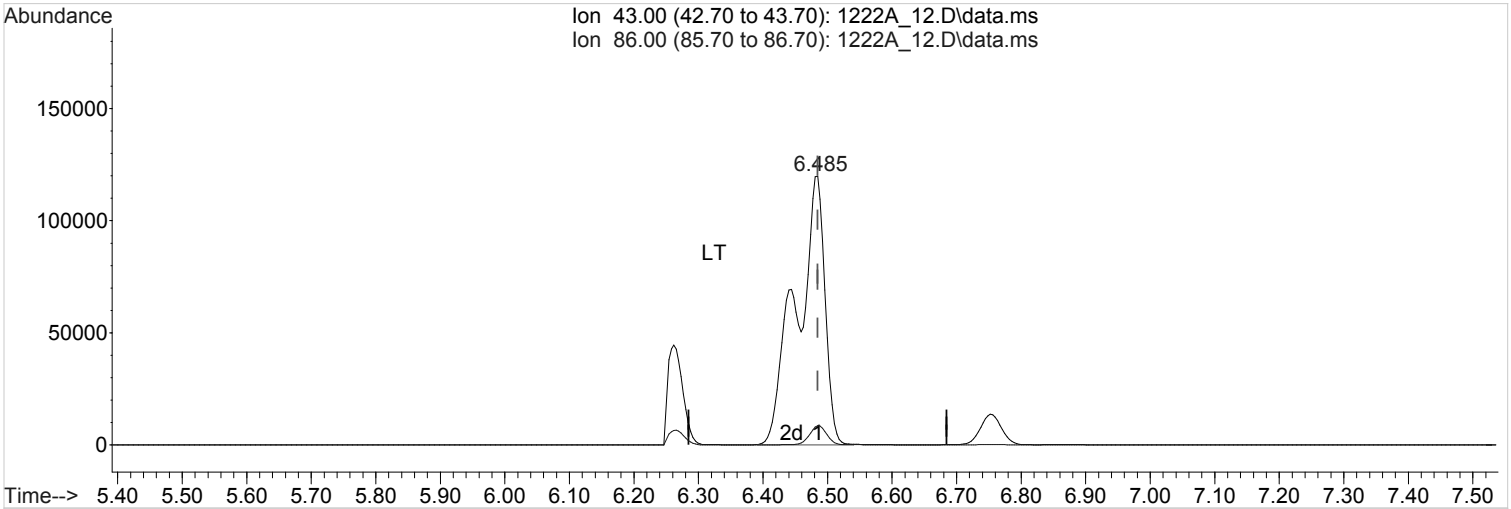
response 227245

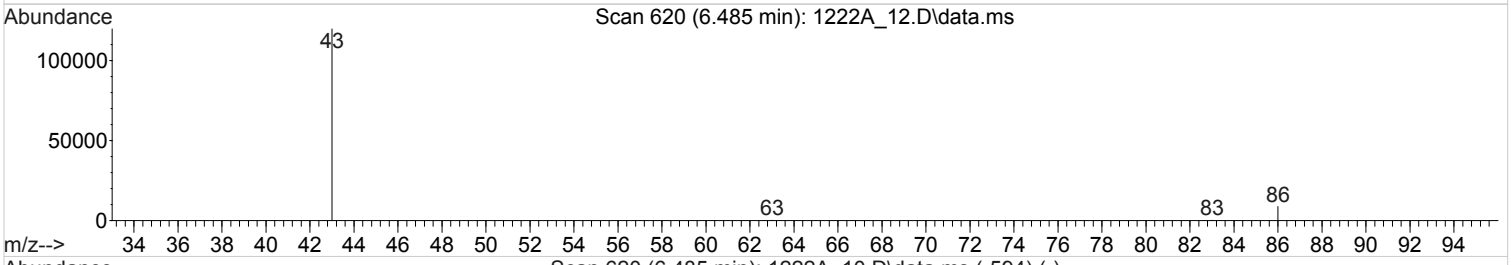
Ion	Exp%	Act%
43.00	100	100
86.00	4.00	7.10#
0.00	0.00	0.00
0.00	0.00	0.00

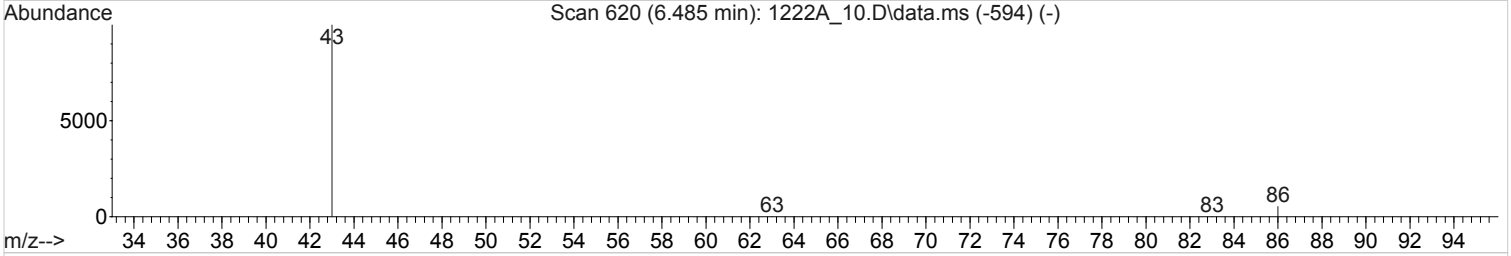
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_12.D
Acq On : 22 Dec 2022 11:56 pm
Operator :
Sample : STD AMS 5.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:23:36 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:23:30 2022
Response via : Initial Calibration







TIC: 1222A_12.D\data.ms

(10) Vinyl Acetate (T,M)

6.485min (-0.000) 6.2473521 ppbv m

response 368247

Ion	Exp%	Act%
43.00	100	100
86.00	4.00	4.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_13.D
Acq On : 23 Dec 2022 12:43 am
Operator :
Sample : STD AMS 10.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:26:22 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:25:53 2022
Response via : Initial Calibration

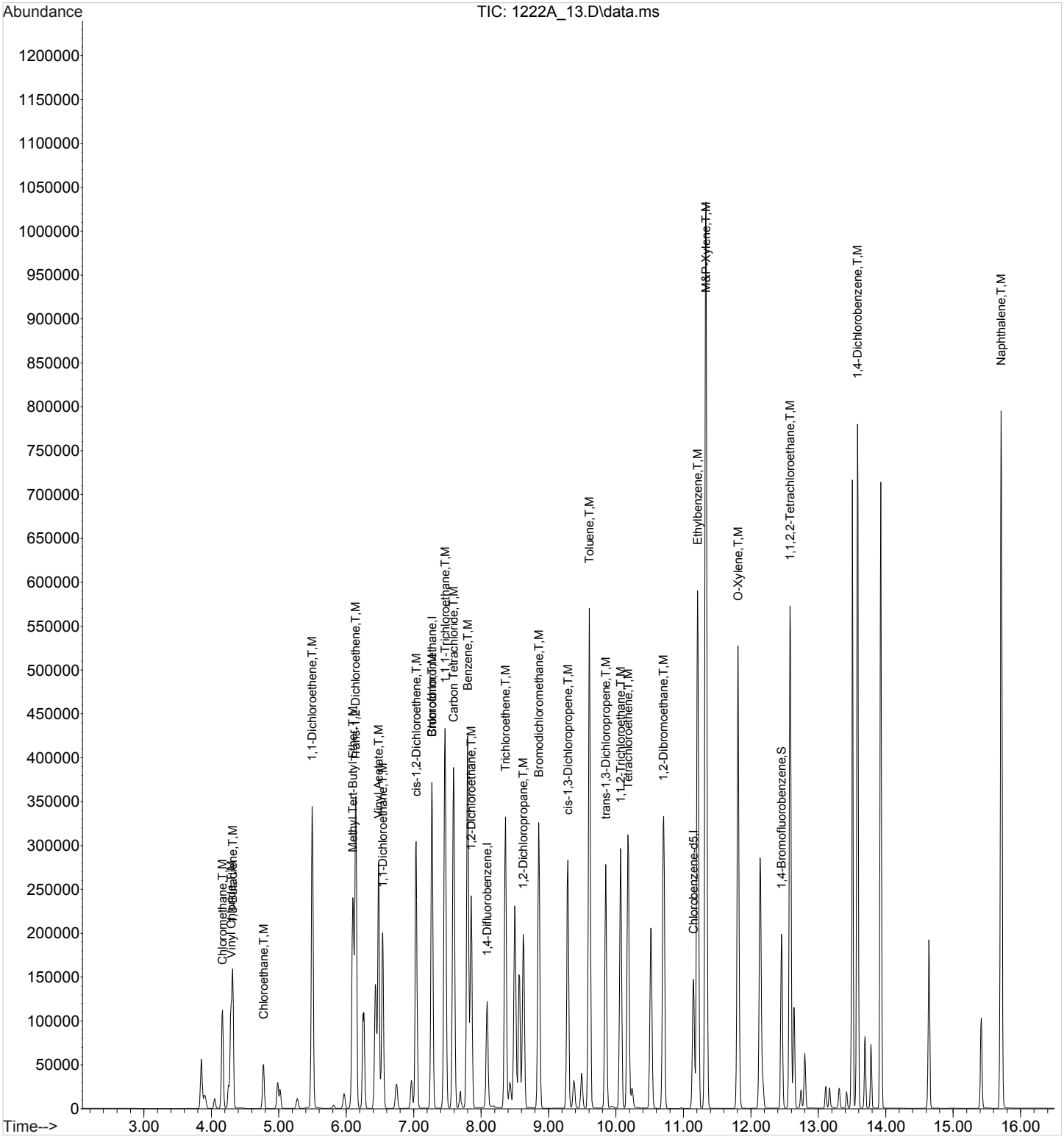
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.269	130	39898	1.2500000	ppbv	# 0.00
16) 1,4-Difluorobenzene	8.091	114	162228	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	161175	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	109141	1.3072920	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 104.58%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	163614	8.9187453	ppbv	99
3) Vinyl Chloride	4.292	62	141354	8.9023887	ppbv	98
4) 1,3-Butadiene	4.316	39	108568	9.3686161	ppbv	98
5) Chloroethane	4.774	64	57879	9.3803756	ppbv	99
6) 1,1-Dichloroethene	5.495	61	311641	10.6853207	ppbv	100
7) Methyl Tert-Butyl Ether	6.096	73	431530	12.5525110	ppbv	95
8) Trans-1,2-Dichloroethene	6.136	61	302175	10.8976452	ppbv	88
9) 1,1-Dichloroethane	6.541	63	368321	10.1148858	ppbv	100
10) Vinyl Acetate	6.477	43	782063m	12.5514182	ppbv	
11) cis-1,2-Dichloroethene	7.038	96	186123	11.8241649	ppbv	99
12) Chloroform	7.269	83	364272	9.8765507	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	378351	10.1110316	ppbv	99
14) Carbon Tetrachloride	7.592	117	372675	10.3356306	ppbv	97
15) 1,2-Dichloroethane	7.853	62	262517	9.9862611	ppbv	99
17) Benzene	7.801	78	578737	8.3405781	ppbv	96
18) Trichloroethene	8.362	95	243239	9.2045312	ppbv	98
19) 1,2-Dichloropropane	8.623	63	238231	9.4340586	ppbv	92
20) Bromodichloromethane	8.853	83	412707	9.0241901	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	327431	11.5820008	ppbv	99
22) Toluene	9.606	91	675998	11.5219984	ppbv	97
23) trans-1,3-Dichloropropene	9.847	75	310645	11.7516369	ppbv	99
24) 1,1,2-Trichloroethane	10.069	97	237415	8.9531071	ppbv	98
25) Tetrachloroethene	10.176	166	283512	9.6202130	ppbv	100
26) 1,2-Dibromoethane	10.701	107	366961	10.4060271	ppbv	98
28) Ethylbenzene	11.209	91	874936	12.4982012	ppbv	100
29) M&P-Xylene	11.336	91	1373383	27.4030344	ppbv	100
30) O-Xylene	11.808	91	658869	14.5325389	ppbv	99
31) 1,1,2,2-Tetrachloroethane	12.581	83	566953	8.6279756	ppbv	100
33) 1,4-Dichlorobenzene	13.581	146	558335	11.8947147	ppbv	99
34) Naphthalene	15.711	128	1095513	19.4088530	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_13.D
Acq On : 23 Dec 2022 12:43 am
Operator :
Sample : STD AMS 10.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS7

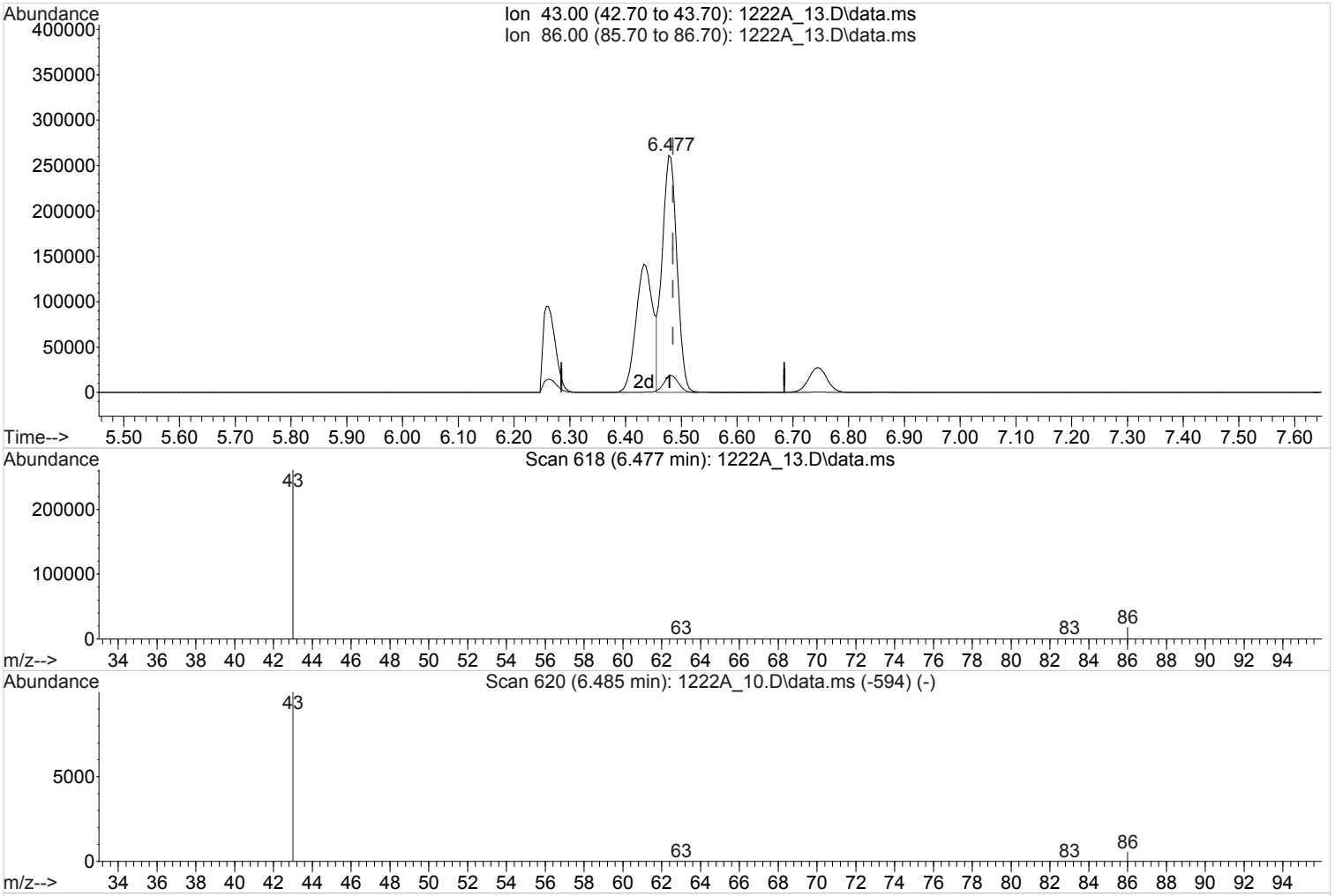
Quant Time: Dec 23 09:26:22 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:25:53 2022
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_13.D
Acq On : 23 Dec 2022 12:43 am
Operator :
Sample : STD AMS 10.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:26:01 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:25:53 2022
Response via : Initial Calibration



TIC: 1222A_13.D\data.ms

(10) Vinyl Acetate (T,M)

6.477min (-0.007) 7.6818282 ppbv

Qvalue = 90

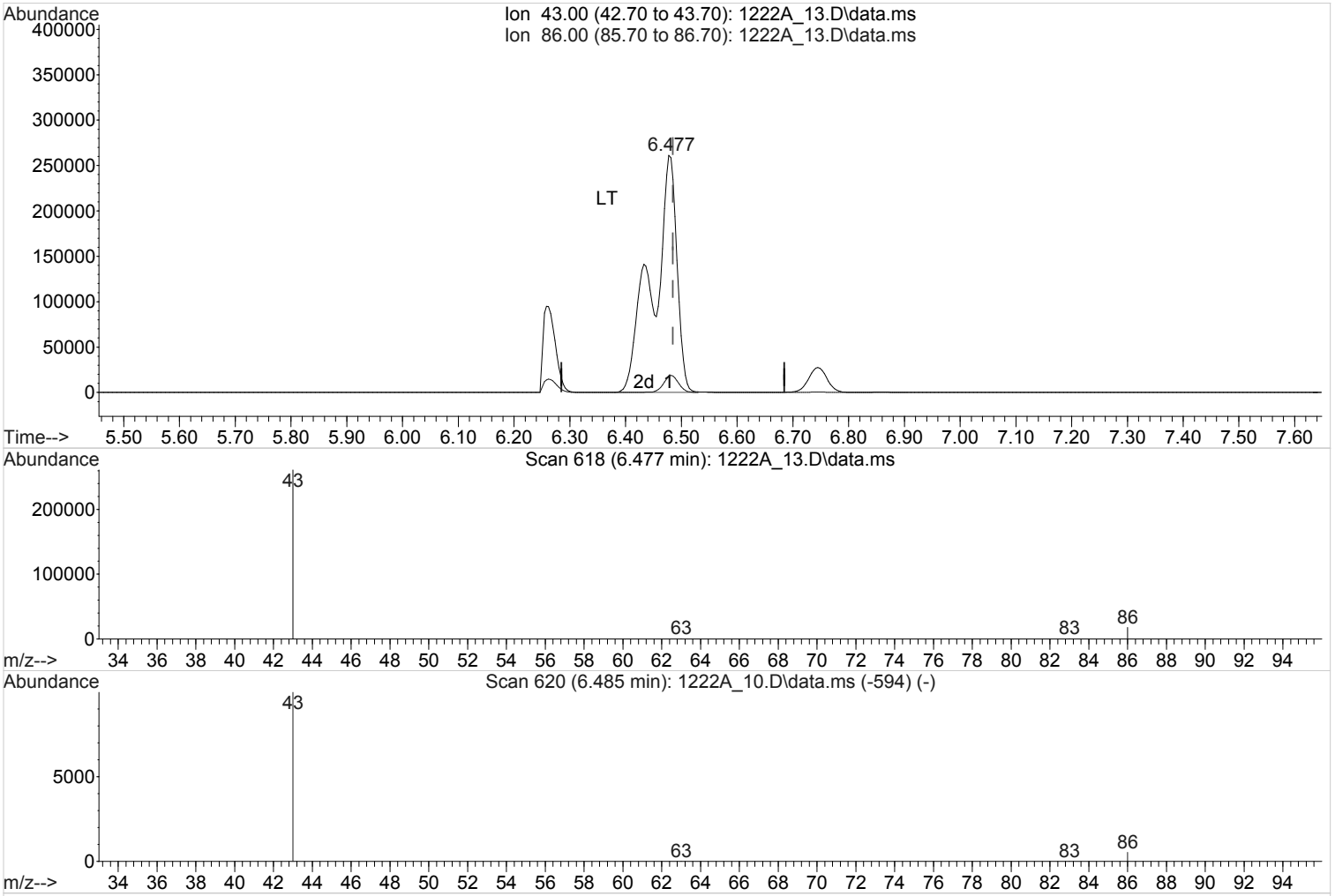
response 478645

Ion	Exp%	Act%
43.00	100	100
86.00	4.00	7.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_13.D
Acq On : 23 Dec 2022 12:43 am
Operator :
Sample : STD AMS 10.0 ppbv 22K29492
Misc : 22L15639
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:26:01 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:25:53 2022
Response via : Initial Calibration



TIC: 1222A_13.D\data.ms

(10) Vinyl Acetate (T,M)

6.477min (-0.007) 12.5514182 ppbv m

response 782063

Ion	Exp%	Act%
43.00	100	100
86.00	4.00	4.48
0.00	0.00	0.00
0.00	0.00	0.00

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570581	**Calibration (begin) date/time:**	12/22/22 18:41
Instrument ID:	AIRMS7	**Calibration (end) date/time:**	12/23/22 00:43
Lab File ID:	1222A_15	**Analysis date/time:**	12/23/22 01:59
Analytical Method:	TO-15-SIM	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	1.173654	1.164760		0.7580		0.50	0.4962	99.20	60 - 140
1,1,2,2-TETRACHLOROETHANE	0.502633	0.42087770		16.30		0.50	0.4187	83.70	60 - 140
1,1,2-TRICHLOROETHANE	0.202185	0.19187410		5.10		0.50	0.4745	94.90	60 - 140
1,1-DICHLOROETHANE	1.142150	1.143557		0.1230		0.50	0.5006	100	60 - 140
1,1-DICHLOROETHENE	0.920009	0.93139840		1.24		0.50	0.5062	101	60 - 140
1,2-DIBROMOETHANE	0.272822	0.25230010		7.52		0.50	0.4624	92.50	60 - 140
1,2-DICHLOROETHANE	0.823481	0.83826520		1.80		0.50	0.5090	102	60 - 140
1,2-DICHLOROPROPANE	0.193472	0.19166530		0.9340		0.50	0.4953	99.10	60 - 140
1,3-BUTADIENE	0.360773	0.34049780		5.62		0.50	0.4719	94.40	60 - 140
1,4-DICHLOROBENZENE	0.370941	0.40151450		8.24		0.50	0.5412	108	60 - 140
BENZENE	0.525778	0.46223410		12.10		0.50	0.4396	87.90	60 - 140
BROMODICHLOROMETHANE	0.348947	0.32361780		7.26		0.50	0.4637	92.70	60 - 140
CARBON TETRACHLORIDE	1.133463	1.108748		2.18		0.50	0.4891	97.80	60 - 140
CHLOROETHANE	0.192115	0.18197310		5.28		0.50	0.4736	94.70	60 - 140
CHLOROFORM	1.154099	1.209345		4.79		0.50	0.5239	105	60 - 140
CHLOROMETHANE	0.568531	0.52326350		7.96		0.50	0.4602	92	60 - 140
CIS-1,2-DICHLOROETHENE	0.502157	0.51963070		3.48		0.50	0.5174	103	60 - 140
CIS-1,3-DICHLOROPROPENE	0.221277	0.19810280		10.50		0.50	0.4476	89.50	60 - 140
ETHYLBENZENE	0.556490	0.58023890		4.27		0.50	0.5213	104	60 - 140
M&P-XYLENE	0.403079	0.42245680		4.81		1	1.048	105	60 - 140
METHYL TERT-BUTYL ETHER	1.104550	1.176649		6.53		0.50	0.5326	107	60 - 140
NAPHTHALENE	0.478941	0.41157210		14.10		0.50	0.5199	104	60 - 140
O-XYLENE	0.367554	0.37117250		0.9840		0.50	0.5049	101	60 - 140
TETRACHLOROETHENE	0.226213	0.21985130		2.81		0.50	0.4859	97.20	60 - 140
TOLUENE	0.458946	0.46583570		1.50		0.50	0.5075	102	60 - 140
TRANS-1,2-DICHLOROETHENE	0.876528	0.88919130		1.44		0.50	0.5072	101	60 - 140
TRANS-1,3-DICHLOROPROPENE	0.207249	0.17484060		15.60		0.50	0.4218	84.40	60 - 140
TRICHLOROETHENE	0.201998	0.22032110		9.07		0.50	0.5454	109	60 - 140
VINYL ACETATE	2.001933	1.980039		1.09		0.50	0.4945	98.90	60 - 140
VINYL CHLORIDE	0.492002	0.45212550		8.10		0.50	0.4595	91.90	60 - 140
1,4-BROMOFLUOROBENZENE	0.650450	0.67182520		3.29		1.25	1.291	103	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_15.D
Acq On : 23 Dec 2022 1:59 am
Operator :
Sample : SSCV AMS 0.5 ppbv 22L14409
Misc :
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:32:23 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:30:35 2022
Response via : Initial Calibration

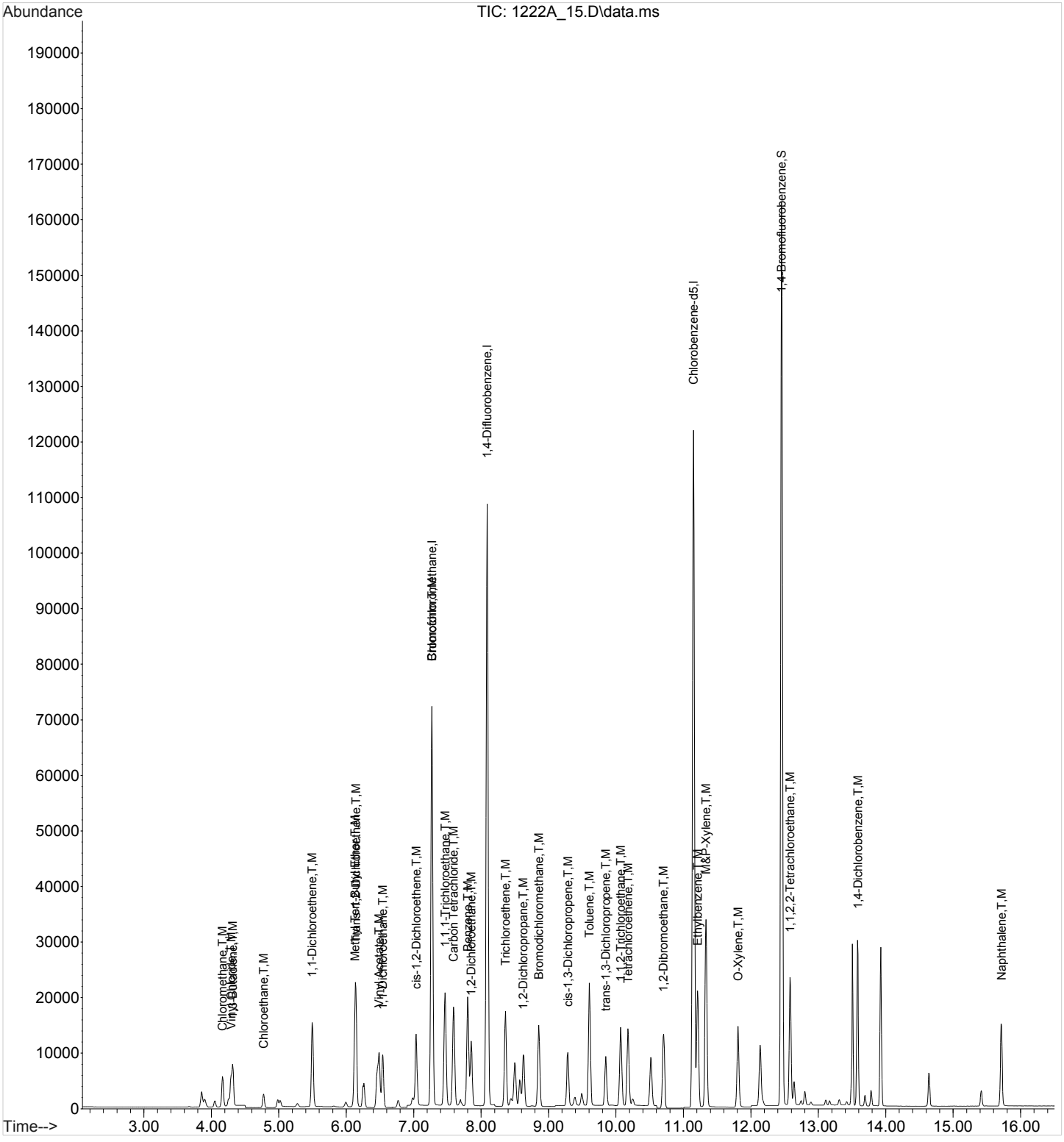
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.269	130	37849	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	143688	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	132984	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	89342	1.2910785	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 103.29%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	7922	0.4601890	ppbv	100
3) Vinyl Chloride	4.292	62	6845	0.4594749	ppbv	99
4) 1,3-Butadiene	4.316	39	5155	0.4718998	ppbv	100
5) Chloroethane	4.774	64	2755	0.4736057	ppbv	99
6) 1,1-Dichloroethene	5.495	61	14101	0.5061899	ppbv	100
7) Methyl Tert-Butyl Ether	6.128	73	17814	0.5326372	ppbv	98
8) Trans-1,2-Dichloroethene	6.144	61	13462	0.5072235	ppbv	95
9) 1,1-Dichloroethane	6.541	63	17313	0.5006162	ppbv	100
10) Vinyl Acetate	6.485	43	29977	0.4945319	ppbv	100
11) cis-1,2-Dichloroethene	7.038	96	7867	0.5173988	ppbv	99
12) Chloroform	7.269	83	18309	0.5239349	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	17634	0.4962108	ppbv	99
14) Carbon Tetrachloride	7.592	117	16786	0.4890975	ppbv	96
15) 1,2-Dichloroethane	7.853	62	12691	0.5089765	ppbv	99
17) Benzene	7.801	78	26567	0.4395720	ppbv	99
18) Trichloroethene	8.362	95	12663	0.5453545	ppbv	99
19) 1,2-Dichloropropane	8.623	63	11016	0.4953297	ppbv	98
20) Bromodichloromethane	8.853	83	18600	0.4637067	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	11386	0.4476345	ppbv	100
22) Toluene	9.606	91	26774	0.5075056	ppbv	99
23) trans-1,3-Dichloropropene	9.847	75	10049	0.4218138	ppbv	100
24) 1,1,2-Trichloroethane	10.069	97	11028	0.4745022	ppbv	100
25) Tetrachloroethene	10.176	166	12636	0.4859378	ppbv	100
26) 1,2-Dibromoethane	10.701	107	14501	0.4623901	ppbv	100
28) Ethylbenzene	11.209	91	30865	0.5213382	ppbv	100
29) M&P-Xylene	11.336	91	44944	1.0480739	ppbv	100
30) O-Xylene	11.808	91	19744	0.5049221	ppbv	100
31) 1,1,2,2-Tetrachloroethane	12.581	83	22388	0.4186734	ppbv	100
33) 1,4-Dichlorobenzene	13.587	146	21358	0.5412107	ppbv	100
34) Naphthalene	15.718	128	21893	0.5198607	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122222A\
Data File : 1222A_15.D
Acq On : 23 Dec 2022 1:59 am
Operator :
Sample : SSCV AMS 0.5 ppbv 22L14409
Misc :
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 23 09:32:23 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22V.M
QLast Update : Fri Dec 23 09:30:35 2022
Response via : Initial Calibration



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570581	**Calibration (begin) date/time:**	12/22/22 18:41
Instrument ID:	AIRMS7	**Calibration (end) date/time:**	12/23/22 00:43
Lab File ID:	1229_02	**Analysis date/time:**	12/29/22 09:38
Analytical Method:	TO-15-SIM	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	1.173654	1.107627		5.63		0.50	0.4719	94.40	70 - 130
1,1,2,2-TETRACHLOROETHANE	0.502633	0.48129710		4.24		0.50	0.4788	95.80	70 - 130
1,1,2-TRICHLOROETHANE	0.202185	0.19532030		3.40		0.50	0.4830	96.60	70 - 130
1,1-DICHLOROETHANE	1.142150	1.055129		7.62		0.50	0.4619	92.40	70 - 130
1,1-DICHLOROETHENE	0.920009	0.83217690		9.55		0.50	0.4523	90.50	70 - 130
1,2-DIBROMOETHANE	0.272822	0.25596440		6.18		0.50	0.4691	93.80	70 - 130
1,2-DICHLOROETHANE	0.823481	0.78072630		5.19		0.50	0.4740	94.80	70 - 130
1,2-DICHLOROPROPANE	0.193472	0.18148790		6.19		0.50	0.4690	93.80	70 - 130
1,3-BUTADIENE	0.360773	0.31243460		13.40		0.50	0.4330	86.60	70 - 130
1,4-DICHLOROBENZENE	0.370941	0.39751150		7.16		0.50	0.5358	107	70 - 130
BENZENE	0.525778	0.59094210		12.40		0.50	0.5620	112	70 - 130
BROMODICHLOROMETHANE	0.348947	0.32849660		5.86		0.50	0.4707	94.10	70 - 130
CARBON TETRACHLORIDE	1.133463	1.112340		1.86		0.50	0.4907	98.10	70 - 130
CHLOROETHANE	0.192115	0.15880290		17.30		0.50	0.4133	82.70	70 - 130
CHLOROFORM	1.154099	1.074701		6.88		0.50	0.4656	93.10	70 - 130
CHLOROMETHANE	0.568531	0.48590020		14.50		0.50	0.4273	85.50	70 - 130
CIS-1,2-DICHLOROETHENE	0.502157	0.47064830		6.27		0.50	0.4686	93.70	70 - 130
CIS-1,3-DICHLOROPROPENE	0.221277	0.20213470		8.65		0.50	0.4567	91.30	70 - 130
ETHYLBENZENE	0.556490	0.53087230		4.60		0.50	0.4770	95.40	70 - 130
M&P-XYLENE	0.403079	0.38022840		5.67		1	0.9433	94.30	70 - 130
METHYL TERT-BUTYL ETHER	1.104550	0.98993240		10.40		0.50	0.4481	89.60	70 - 130
NAPHTHALENE	0.478941	0.44200470		7.71		0.50	0.4614	92.30	70 - 130
O-XYLENE	0.367554	0.32924920		10.40		0.50	0.4479	89.60	70 - 130
TETRACHLOROETHENE	0.226213	0.21824470		3.52		0.50	0.4824	96.50	70 - 130
TOLUENE	0.458946	0.450507		1.84		0.50	0.4908	98.20	70 - 130
TRANS-1,2-DICHLOROETHENE	0.876528	0.79931660		8.81		0.50	0.4560	91.20	70 - 130
TRANS-1,3-DICHLOROPROPENE	0.207249	0.18885780		8.87		0.50	0.4556	91.10	70 - 130
TRICHLOROETHENE	0.201998	0.182673		9.57		0.50	0.4522	90.40	70 - 130
VINYL ACETATE	2.001933	1.645829		17.80		0.50	0.4111	82.20	70 - 130
VINYL CHLORIDE	0.492002	0.42855830		12.90		0.50	0.4355	87.10	70 - 130
1,4-BROMOFLUOROBENZENE	0.650450	0.65208350		0.2510		1.25	1.253	100	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Area Percent Report

Data Path : C:\msdchem\1\DATA\122922\
Data File : 1229_02.d
Acq On : 29 Dec 2022 9:38 am
Operator :
Sample : ICV AMS 0.5 ppbv
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: events.e
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\TO-SIMMS7.M
Title :

Signal : TIC: 1229_02.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.154	1214	1225	1230	BV 2	105492	2059920	73.38%	42.325%
2	12.462	1409	1419	1429	BB	146750	2807031	100.00%	57.675%

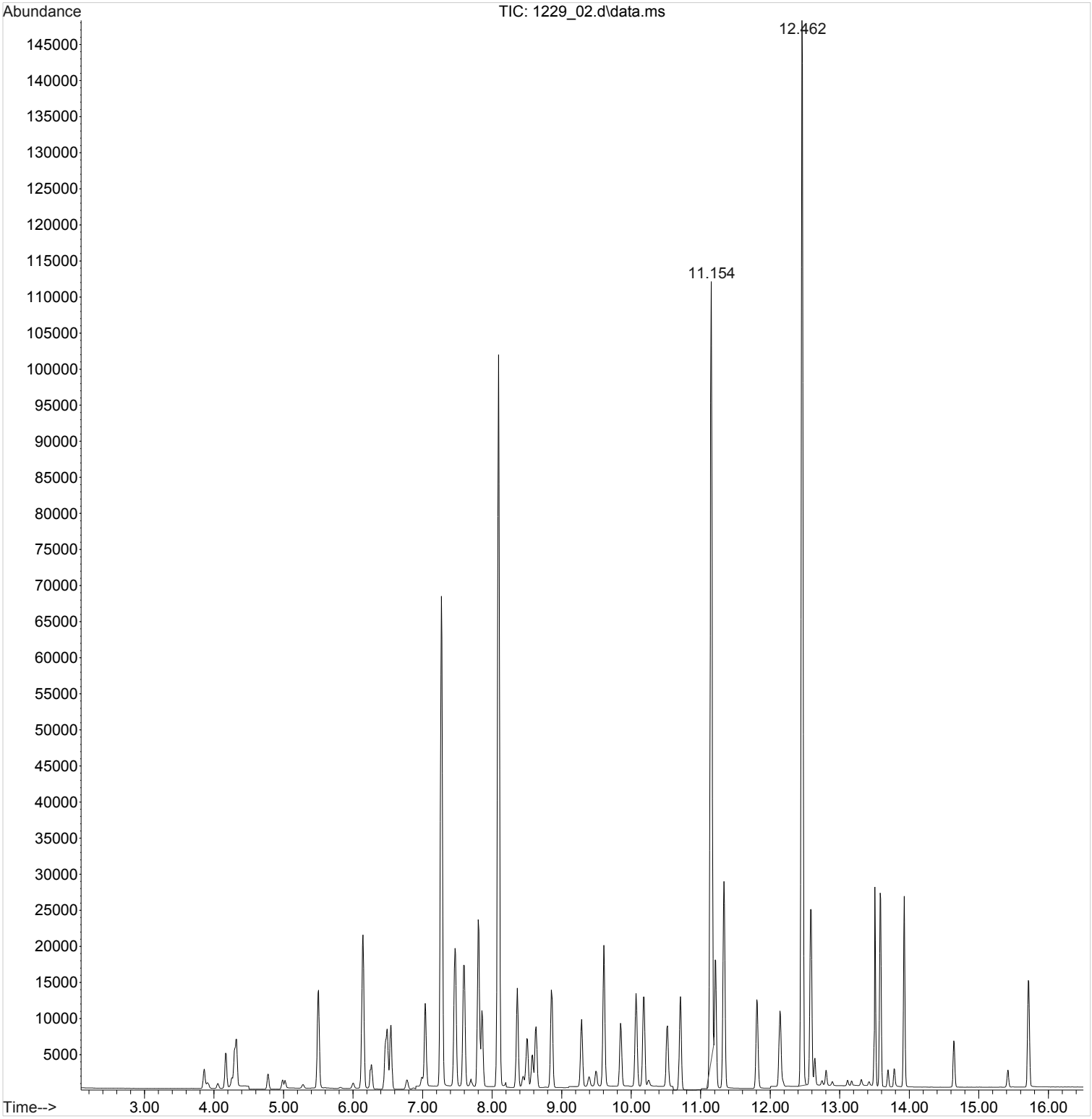
Sum of corrected areas: 4866951

Area Percent Report

Data Path : C:\msdchem\1\DATA\122922\
Data File : 1229_02.d
Acq On : 29 Dec 2022 9:38 am
Operator :
Sample : ICV AMS 0.5 ppbv
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: events.e
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\TO-SIMMS7.M
Title :



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1570581	**Calibration (begin) date/time:**	12/22/22 18:41
Instrument ID:	AIRMS7	**Calibration (end) date/time:**	12/23/22 00:43
Lab File ID:	1229_26	**Analysis date/time:**	12/30/22 01:58
Analytical Method:	TO-15-SIM	**Sample ID:**	CCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	1.173654	1.104342		5.91		0.50	0.4705	94.10	70 - 130
1,1,2,2-TETRACHLOROETHANE	0.502633	0.48096970		4.31		0.50	0.4785	95.70	70 - 130
1,1,2-TRICHLOROETHANE	0.202185	0.19407660		4.01		0.50	0.4799	96	70 - 130
1,1-DICHLOROETHANE	1.142150	1.060043		7.19		0.50	0.4641	92.80	70 - 130
1,1-DICHLOROETHENE	0.920009	0.83705730		9.02		0.50	0.4549	91	70 - 130
1,2-DIBROMOETHANE	0.272822	0.25647350		5.99		0.50	0.4700	94	70 - 130
1,2-DICHLOROETHANE	0.823481	0.75982750		7.73		0.50	0.4614	92.30	70 - 130
1,2-DICHLOROPROPANE	0.193472	0.181391		6.24		0.50	0.4688	93.80	70 - 130
1,3-BUTADIENE	0.360773	0.31534980		12.60		0.50	0.4370	87.40	70 - 130
1,4-DICHLOROBENZENE	0.370941	0.38194820		2.97		0.50	0.5148	103	70 - 130
BENZENE	0.525778	0.60434220		14.90		0.50	0.5747	115	70 - 130
BROMODICHLOROMETHANE	0.348947	0.32647440		6.44		0.50	0.4678	93.60	70 - 130
CARBON TETRACHLORIDE	1.133463	1.108628		2.19		0.50	0.4890	97.80	70 - 130
CHLOROETHANE	0.192115	0.17037340		11.30		0.50	0.4434	88.70	70 - 130
CHLOROFORM	1.154099	1.078750		6.53		0.50	0.4674	93.50	70 - 130
CHLOROMETHANE	0.568531	0.48578810		14.60		0.50	0.4272	85.40	70 - 130
CIS-1,2-DICHLOROETHENE	0.502157	0.46941980		6.52		0.50	0.4674	93.50	70 - 130
CIS-1,3-DICHLOROPROPENE	0.221277	0.19853220		10.30		0.50	0.4486	89.70	70 - 130
ETHYLBENZENE	0.556490	0.532075		4.39		0.50	0.4781	95.60	70 - 130
M&P-XYLENE	0.403079	0.38099530		5.48		1	0.9452	94.50	70 - 130
METHYL TERT-BUTYL ETHER	1.104550	0.99093250		10.30		0.50	0.4486	89.70	70 - 130
NAPHTHALENE	0.478941	0.39962510		16.60		0.50	0.4172	83.40	70 - 130
O-XYLENE	0.367554	0.32707030		11		0.50	0.4449	89	70 - 130
TETRACHLOROETHENE	0.226213	0.21696220		4.09		0.50	0.4796	95.90	70 - 130
TOLUENE	0.458946	0.44134440		3.84		0.50	0.4808	96.20	70 - 130
TRANS-1,2-DICHLOROETHENE	0.876528	0.79743560		9.02		0.50	0.4549	91	70 - 130
TRANS-1,3-DICHLOROPROPENE	0.207249	0.18717230		9.69		0.50	0.4516	90.30	70 - 130
TRICHLOROETHENE	0.201998	0.18196180		9.92		0.50	0.4504	90.10	70 - 130
VINYL ACETATE	2.001933	1.669503		16.60		0.50	0.4170	83.40	70 - 130
VINYL CHLORIDE	0.492002	0.42473170		13.70		0.50	0.4316	86.30	70 - 130
1,4-BROMOFLUOROBENZENE	0.650450	0.65136360		0.14		1.25	1.252	100	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_26.D
Acq On : 30 Dec 2022 1:58 am
Operator :
Sample : CCV AMS 0.5 ppbv
Misc :
ALS Vial : 26 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:20:10 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

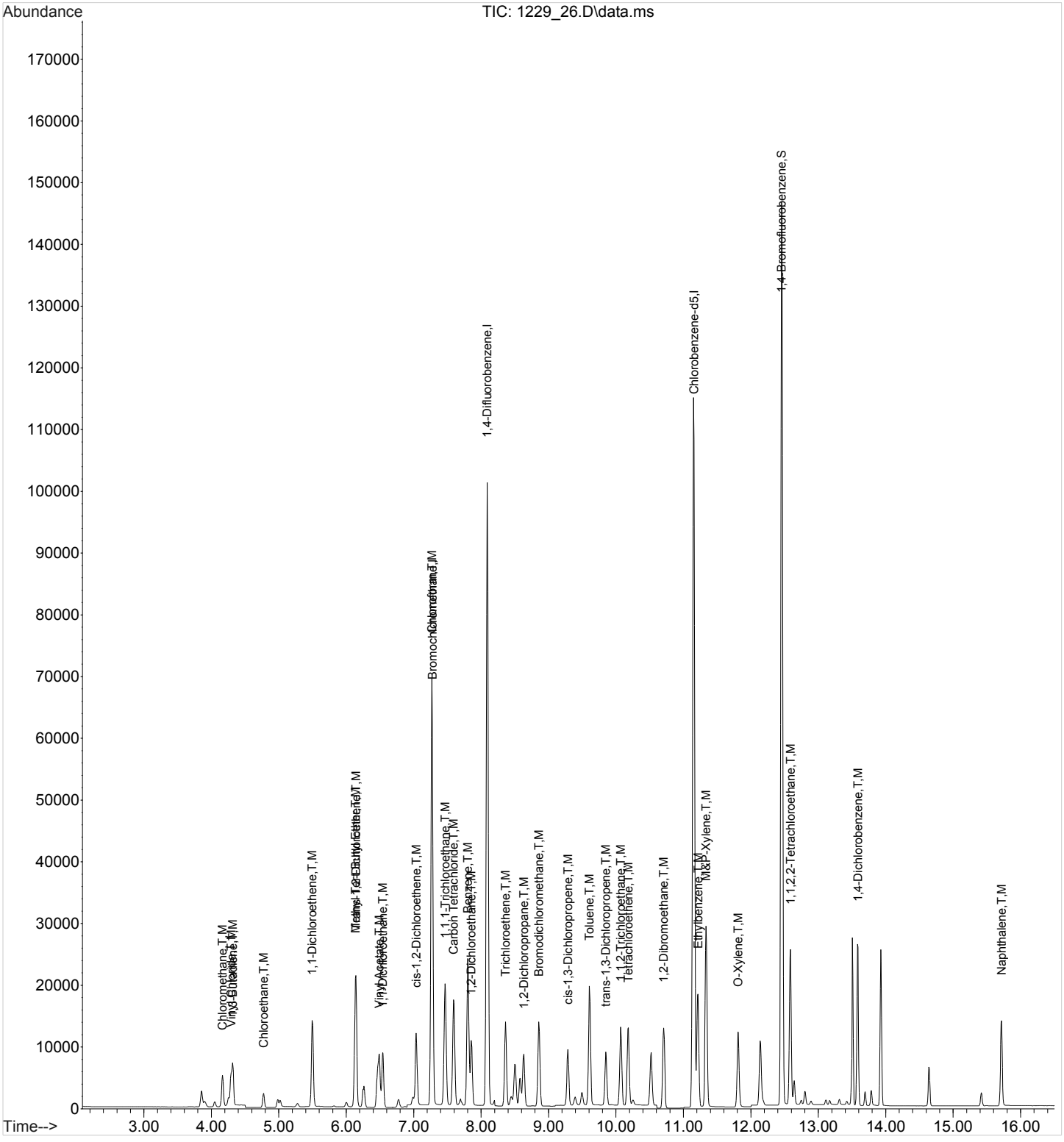
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	38489	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	135784	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.156	117	128558	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	83738	1.2517565	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 100.14%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	7479	0.4272310	ppbv	99
3) Vinyl Chloride	4.293	62	6539	0.4316358	ppbv	100
4) 1,3-Butadiene	4.316	39	4855	0.4370470	ppbv	99
5) Chloroethane	4.774	64	2623	0.4434160	ppbv	99
6) 1,1-Dichloroethene	5.495	61	12887	0.4549180	ppbv	97
7) Methyl Tert-Butyl Ether	6.136	73	15256	0.4485682	ppbv	100
8) Trans-1,2-Dichloroethene	6.144	61	12277	0.4548832	ppbv	99
9) 1,1-Dichloroethane	6.541	63	16320	0.4640561	ppbv	100
10) Vinyl Acetate	6.489	43	25703	0.4169728	ppbv	99
11) cis-1,2-Dichloroethene	7.038	96	7227	0.4674037	ppbv	97
12) Chloroform	7.269	83	16608	0.4673560	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	17002	0.4704713	ppbv	98
14) Carbon Tetrachloride	7.592	117	17068	0.4890448	ppbv	96
15) 1,2-Dichloroethane	7.853	62	11698	0.4613508	ppbv	100
17) Benzene	7.801	78	32824	0.5747128	ppbv	98
18) Trichloroethene	8.362	95	9883	0.4504048	ppbv	98
19) 1,2-Dichloropropane	8.634	63	9852	0.4687775	ppbv	98
20) Bromodichloromethane	8.853	83	17732	0.4677998	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	10783	0.4486047	ppbv	96
22) Toluene	9.606	91	23971	0.4808234	ppbv	100
23) trans-1,3-Dichloropropene	9.847	75	10166	0.4515646	ppbv	96
24) 1,1,2-Trichloroethane	10.069	97	10541	0.4799491	ppbv	97
25) Tetrachloroethene	10.185	166	11784	0.4795520	ppbv	99
26) 1,2-Dibromoethane	10.708	107	13930	0.4700387	ppbv	100
28) Ethylbenzene	11.216	91	27361	0.4780634	ppbv	99
29) M&P-Xylene	11.336	91	39184	0.9452120	ppbv	99
30) O-Xylene	11.808	91	16819	0.4449279	ppbv	99
31) 1,1,2,2-Tetrachloroethane	12.588	83	24733	0.4784506	ppbv	99
33) 1,4-Dichlorobenzene	13.588	146	19641	0.5148369	ppbv	98
34) Naphthalene	15.718	128	20550	0.4171961	ppbv	99

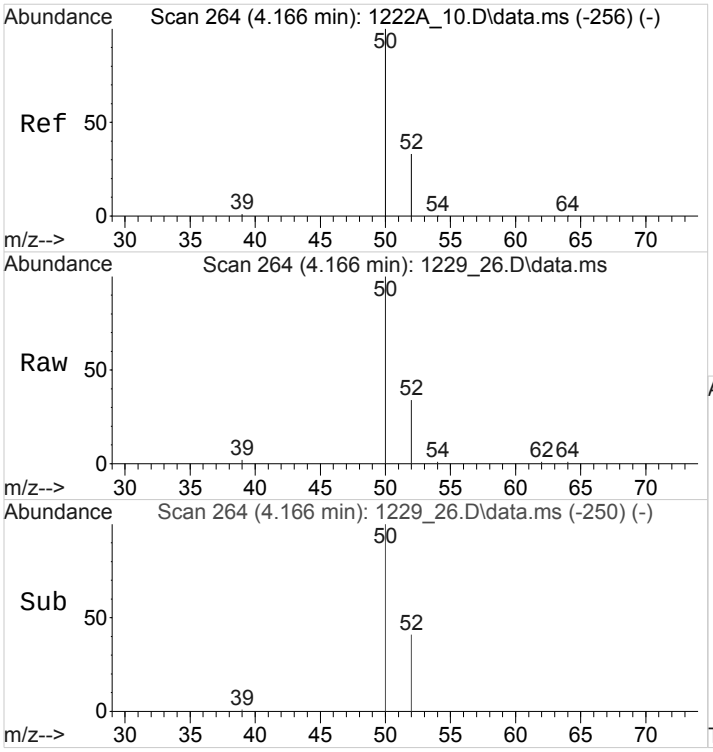
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_26.D
Acq On : 30 Dec 2022 1:58 am
Operator :
Sample : CCV AMS 0.5 ppbv
Misc :
ALS Vial : 26 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 30 08:20:10 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

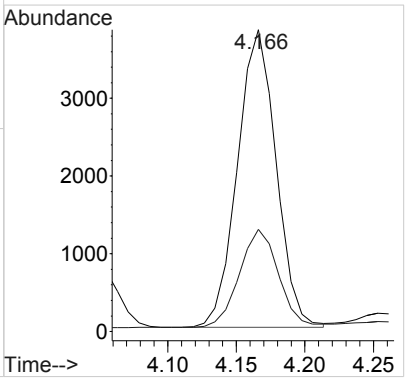


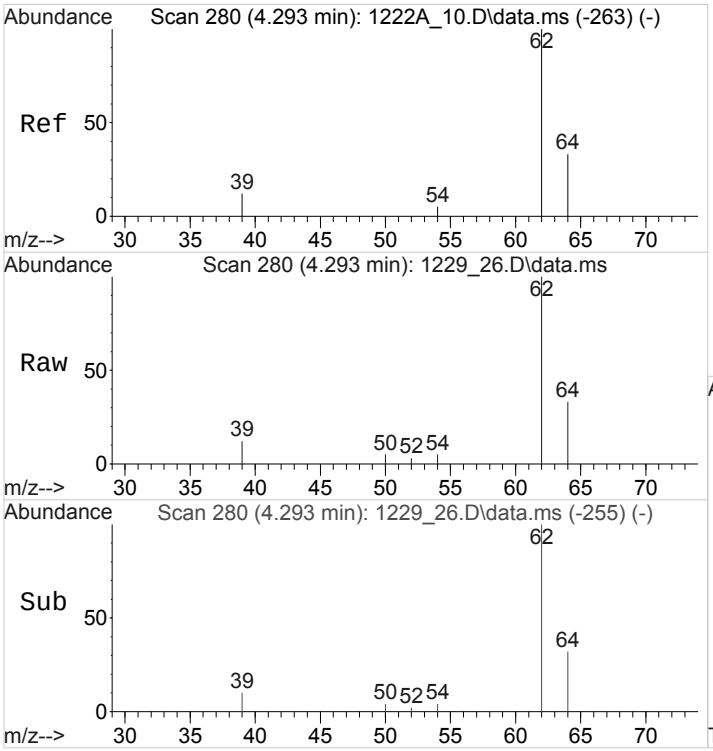


#2
Chloromethane
Concen: 0.4272310 ppbv
RT: 4.166 min Scan# 264
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 50 Resp: 7479

Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.6	40.0

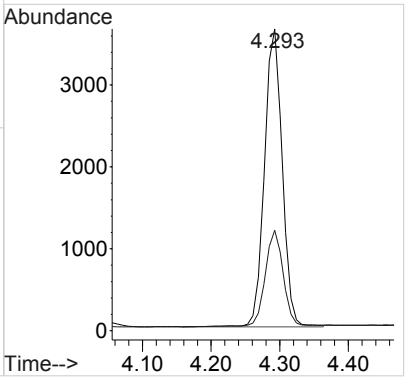


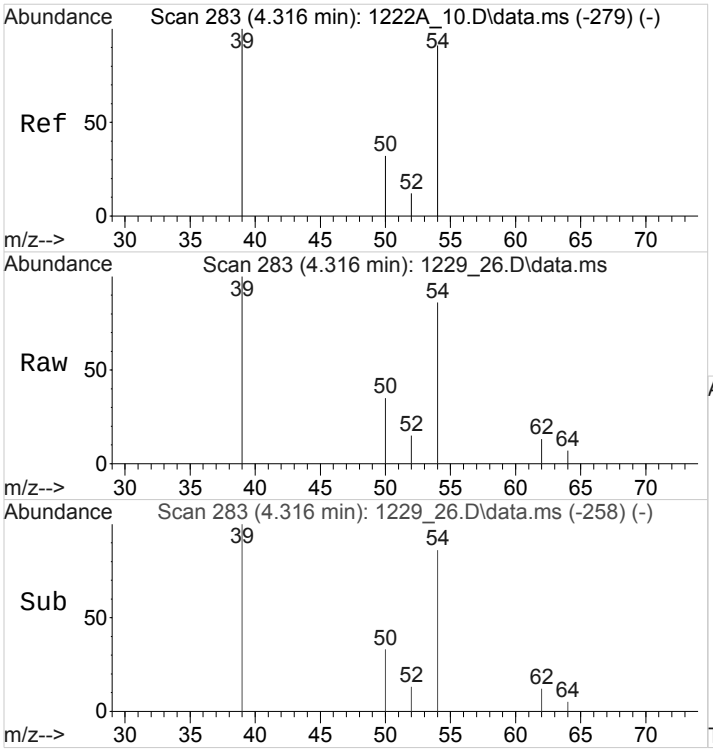


#3
Vinyl Chloride
Concen: 0.4316358 ppbv
RT: 4.293 min Scan# 280
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 62 Resp: 6539

Ion	Ratio	Lower	Upper
62	100		
64	33.5	26.6	40.0

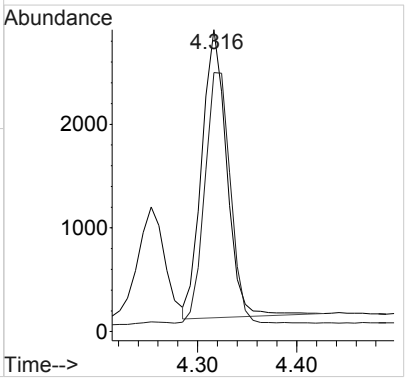


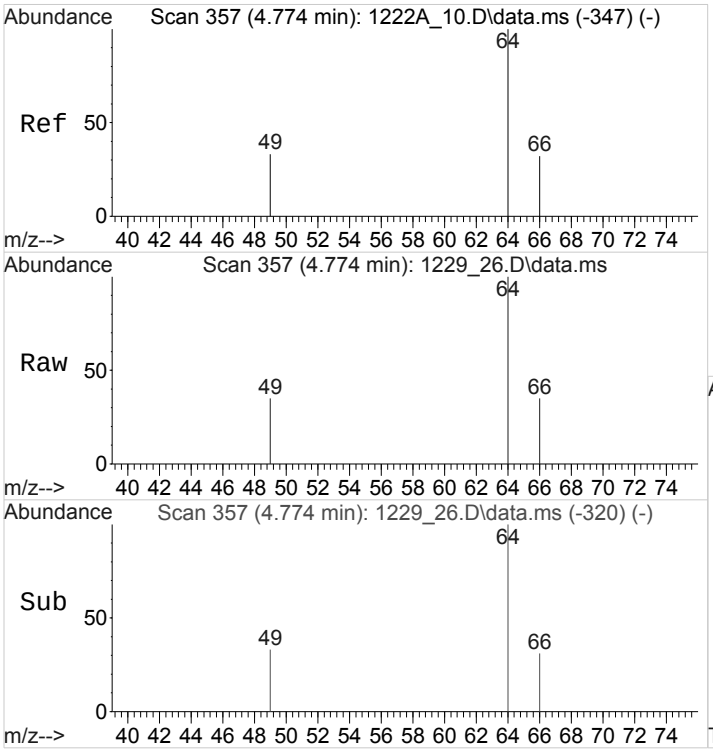


#4
1,3-Butadiene
Concen: 0.4370470 ppbv
RT: 4.316 min Scan# 283
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 39 Resp: 4855

Ion	Ratio	Lower	Upper
39	100		
54	89.2	72.2	108.4

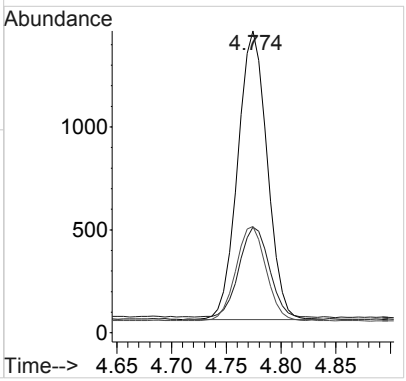




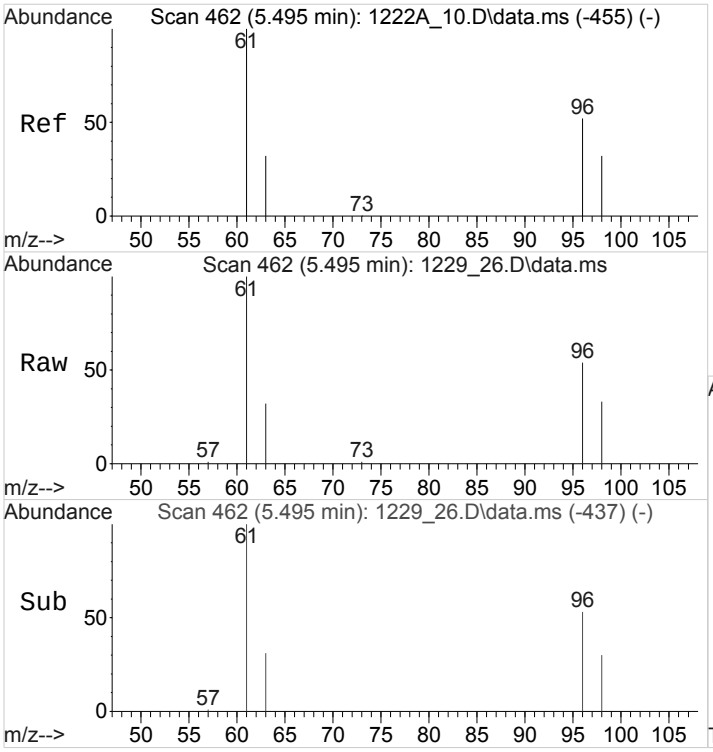
#5
Chloroethane
Concen: 0.4434160 ppbv
RT: 4.774 min Scan# 357
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 64 Resp: 2623

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.8	38.6
49	33.3	27.0	40.6



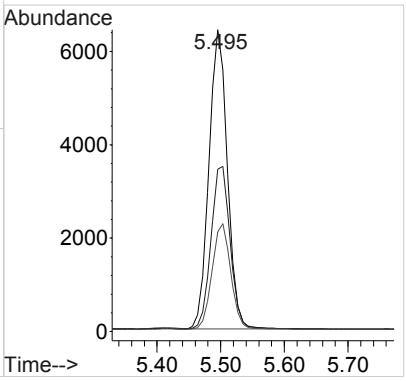
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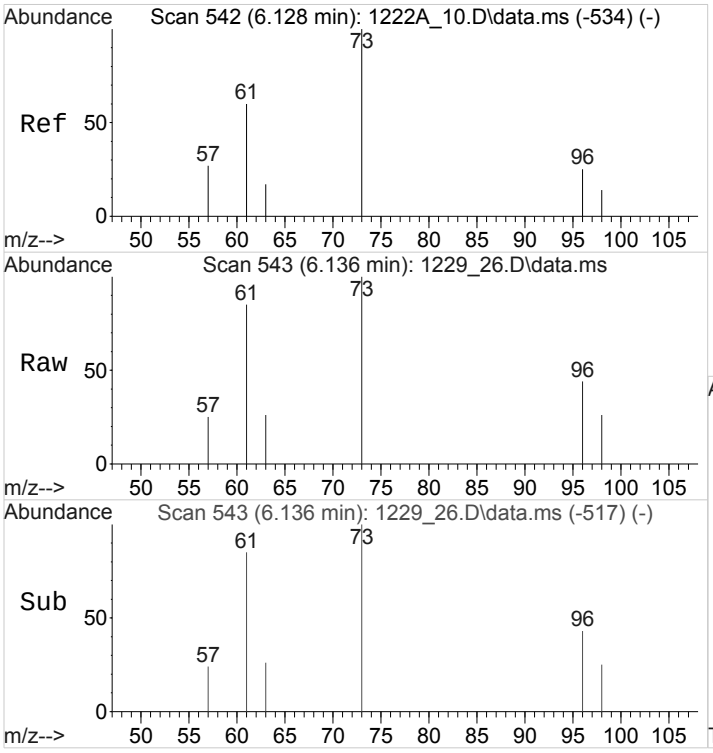


#6
1,1-Dichloroethene
Concen: 0.4549180 ppbv
RT: 5.495 min Scan# 462
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 61 Resp: 12887

Ion	Ratio	Lower	Upper
61	100		
96	56.5	43.2	64.8
98	35.7	27.5	41.3

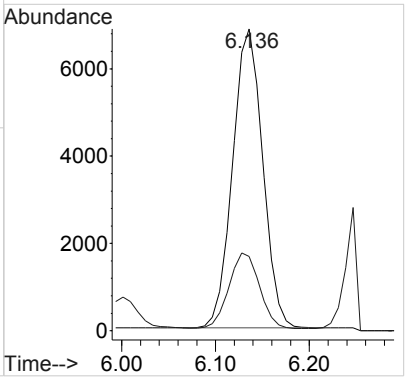




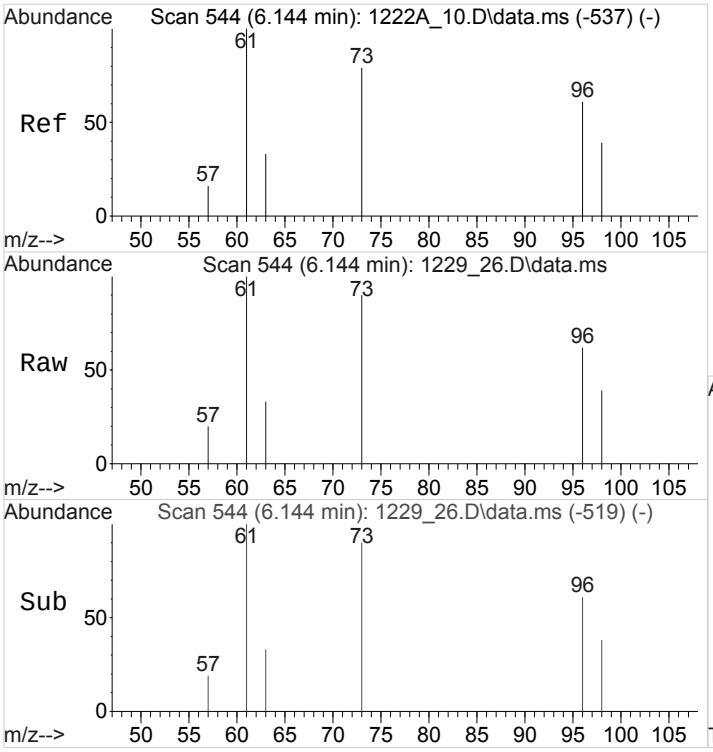
#7
Methyl Tert-Butyl Ether
Concen: 0.4485682 ppbv
RT: 6.136 min Scan# 543
Delta R.T. 0.008 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 73 Resp: 15256

Ion	Ratio	Lower	Upper
73	100		
57	27.1	21.8	32.8



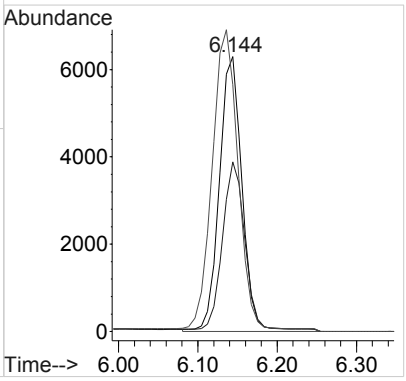
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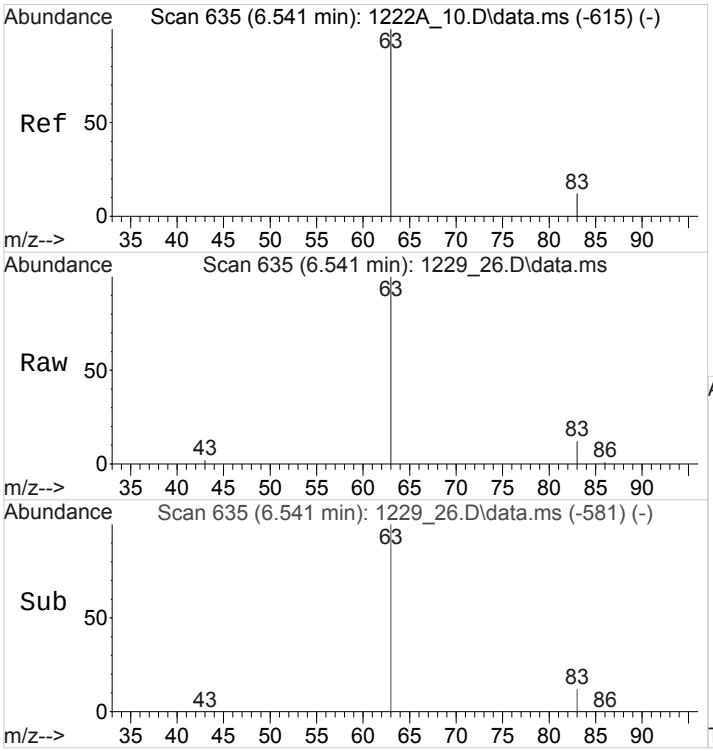


#8
Trans-1,2-Dichloroethene
Concen: 0.4548832 ppbv
RT: 6.144 min Scan# 544
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 61 Resp: 12277

Ion	Ratio	Lower	Upper
61	100		
96	62.3	48.6	72.8
73	124.3	99.4	149.2

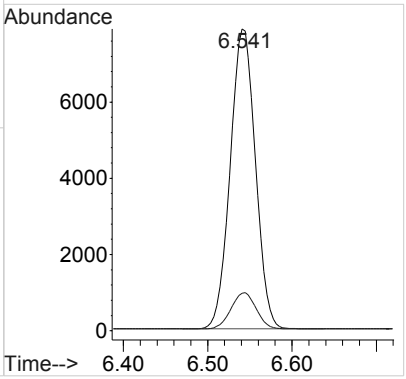




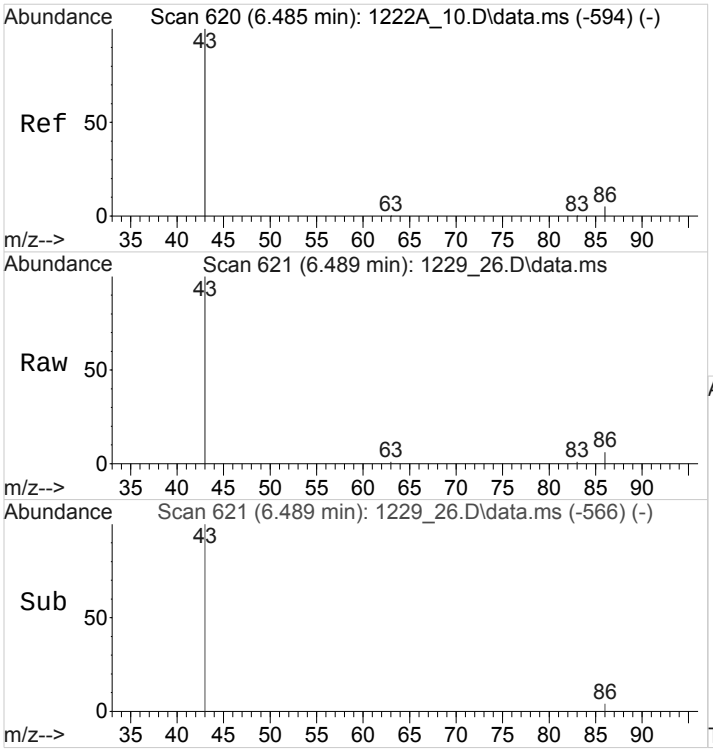
#9
1,1-Dichloroethane
Concen: 0.4640561 ppbv
RT: 6.541 min Scan# 635
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 63 Resp: 16320

Ion	Ratio	Lower	Upper
63	100		
83	12.1	9.5	14.3



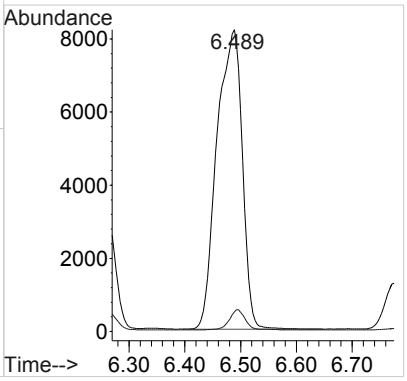
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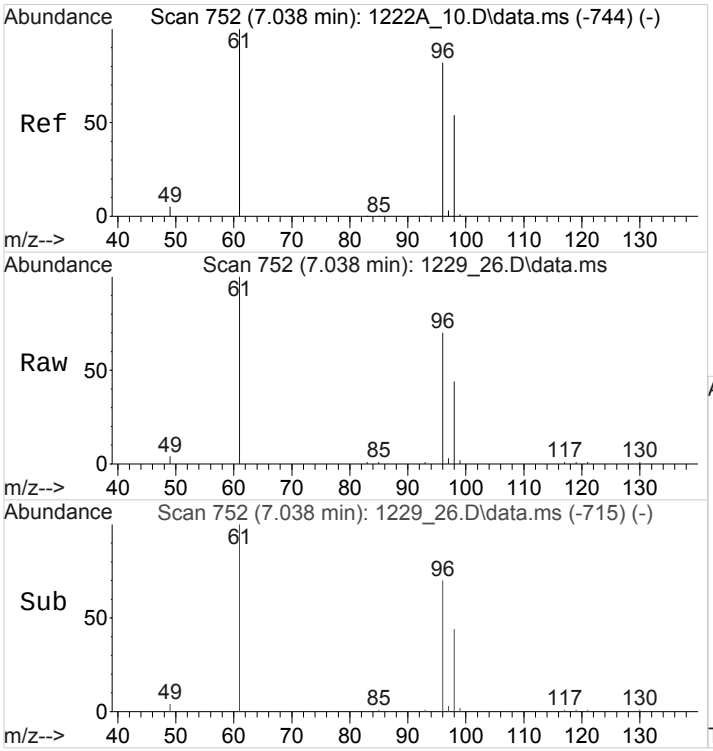


#10
Vinyl Acetate
Concen: 0.4169728 ppbv
RT: 6.489 min Scan# 621
Delta R.T. 0.004 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 43 Resp: 25703

Ion	Ratio	Lower	Upper
43	100		
86	4.2	3.2	4.8

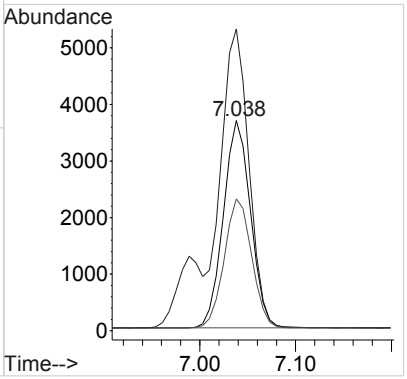




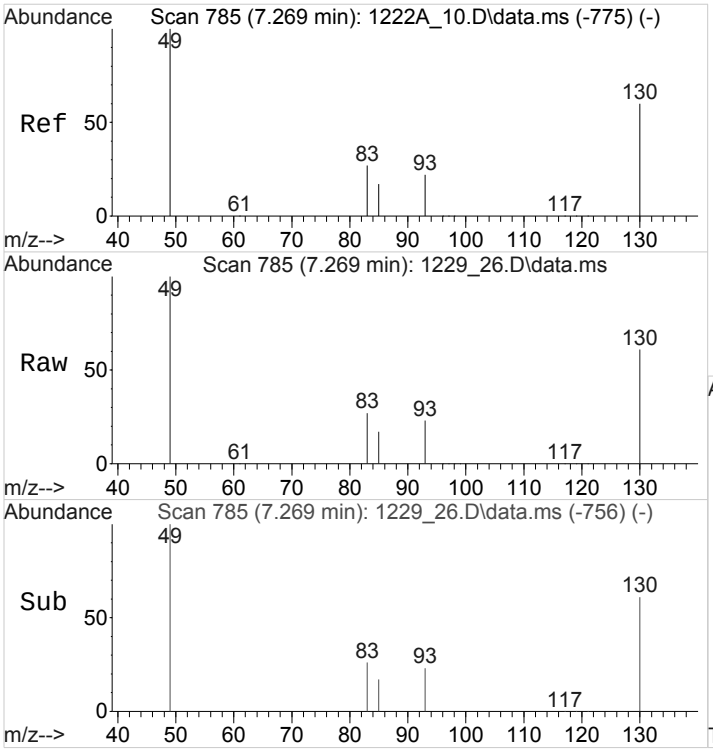
#11
cis-1,2-Dichloroethene
Concen: 0.4674037 ppbv
RT: 7.038 min Scan# 752
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 96 Resp: 7227

Ion	Ratio	Lower	Upper
96	100		
61	148.3	123.0	184.6
98	63.1	51.3	76.9



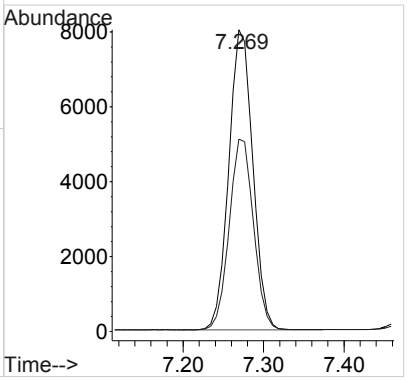
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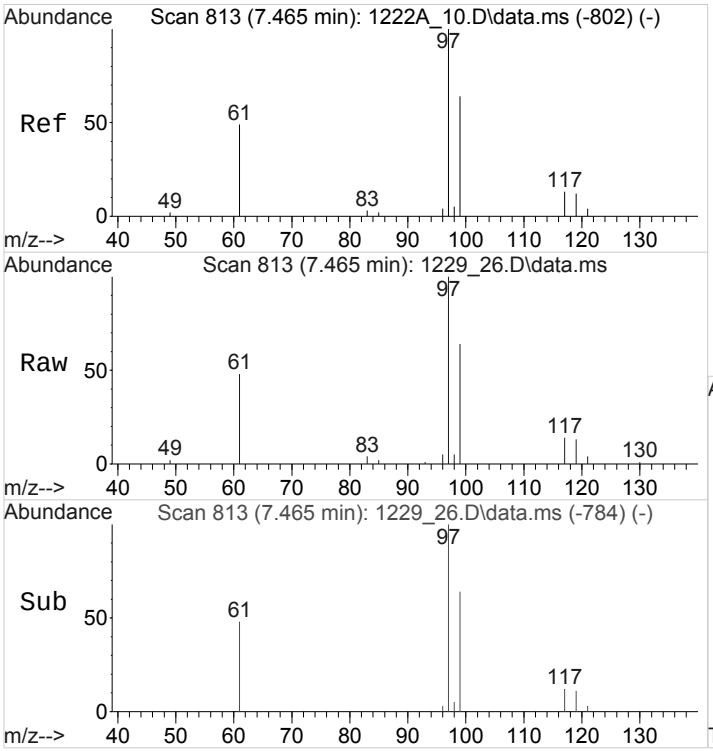


#12
Chloroform
Concen: 0.4673560 ppbv
RT: 7.269 min Scan# 785
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 83 Resp: 16608

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.3	76.9

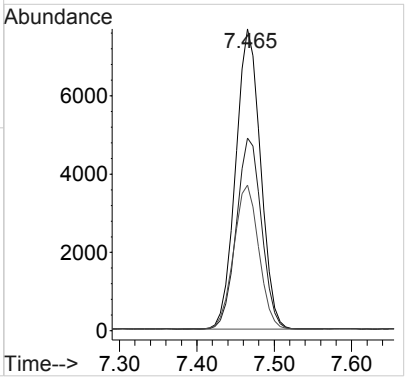


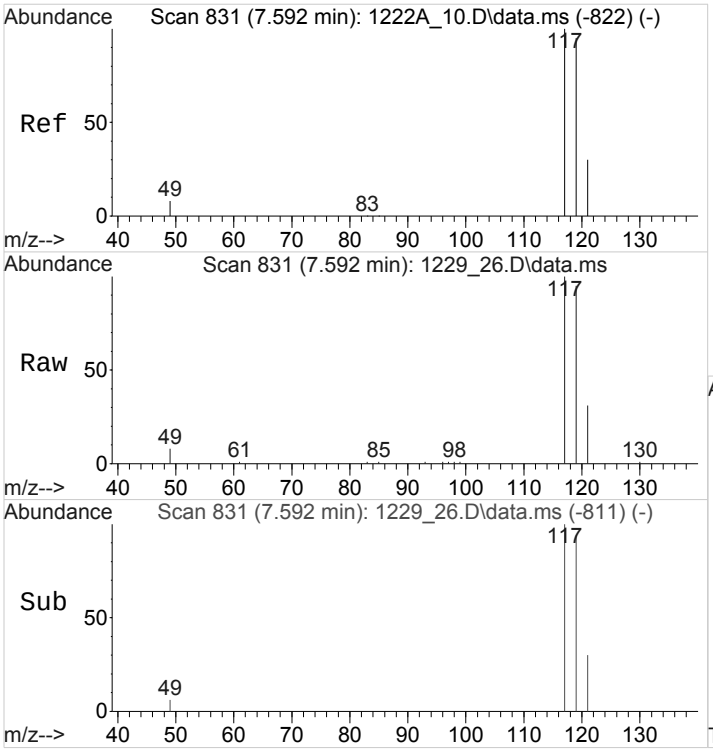


#13
1,1,1-Trichloroethane
Concen: 0.4704713 ppbv
RT: 7.465 min Scan# 813
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 97 Resp: 17002

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.0	76.6
61	48.5	40.3	60.5

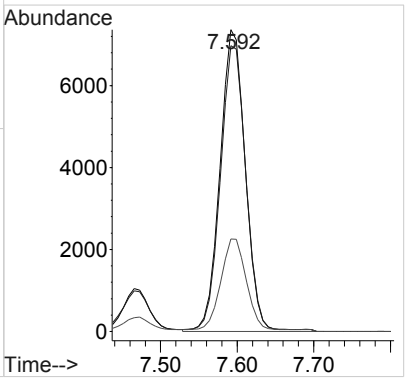


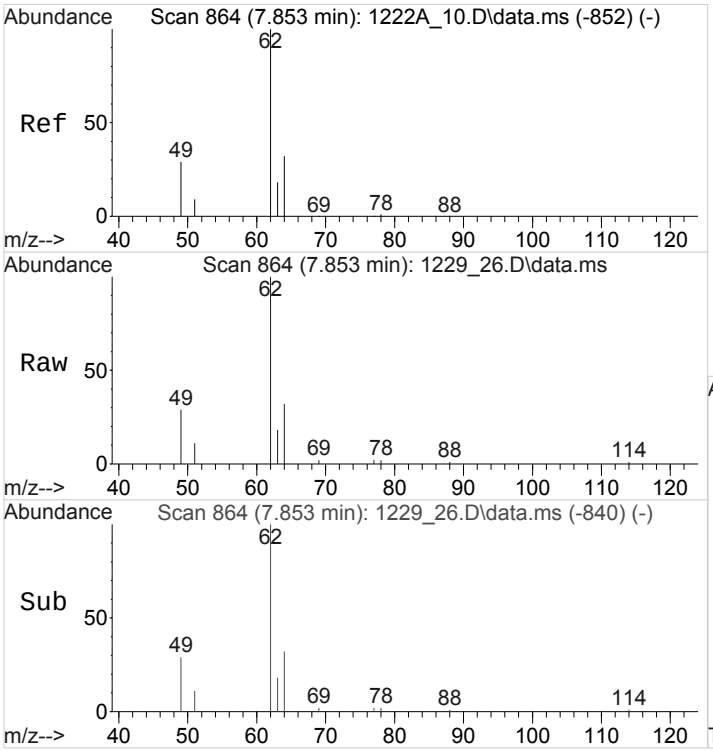


#14
Carbon Tetrachloride
Concen: 0.4890448 ppbv
RT: 7.592 min Scan# 831
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion:117 Resp: 17068

Ion	Ratio	Lower	Upper
117	100		
119	92.0	76.7	115.1
121	32.4	27.0	40.4

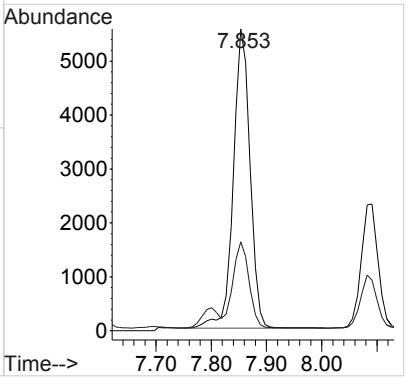




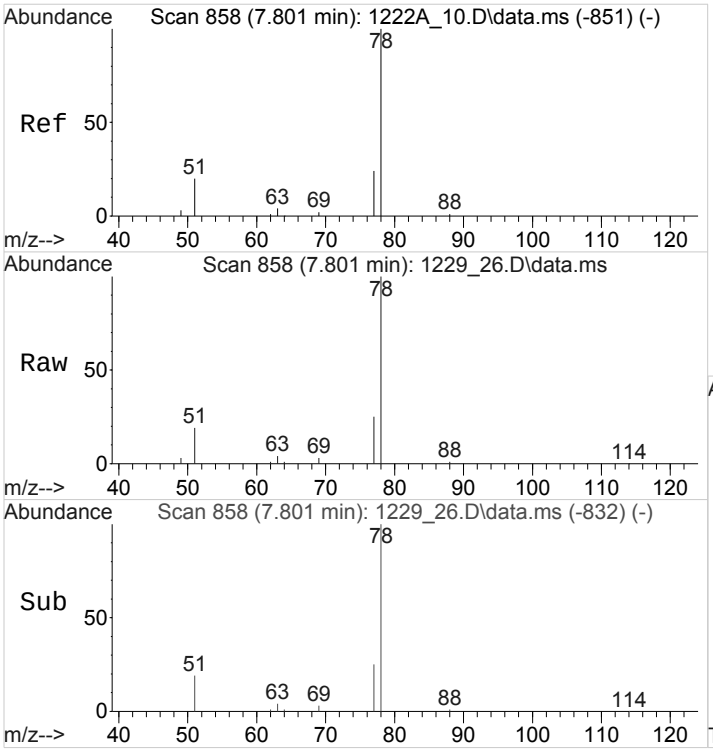
#15
1,2-Dichloroethane
Concen: 0.4613508 ppbv
RT: 7.853 min Scan# 864
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 62 Resp: 11698

Ion	Ratio	Lower	Upper
62	100		
49	27.9	22.4	33.6



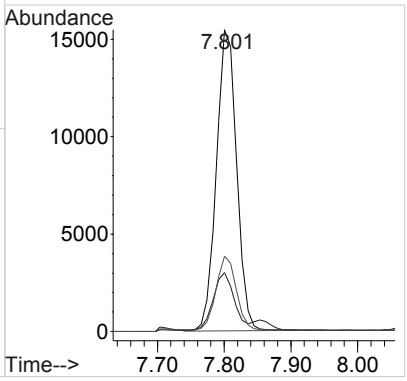
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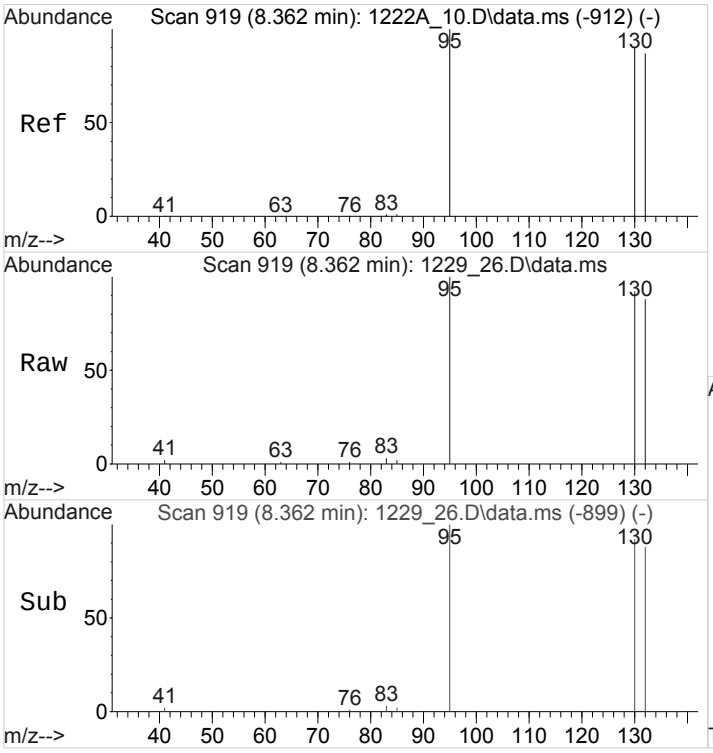


#17
Benzene
Concen: 0.5747128 ppbv
RT: 7.801 min Scan# 858
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 78 Resp: 32824

Ion	Ratio	Lower	Upper
78	100		
51	19.6	17.5	26.3
77	25.4	20.2	30.4

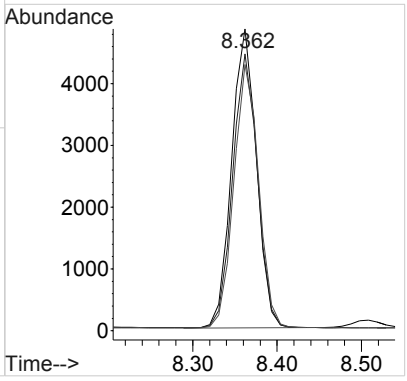




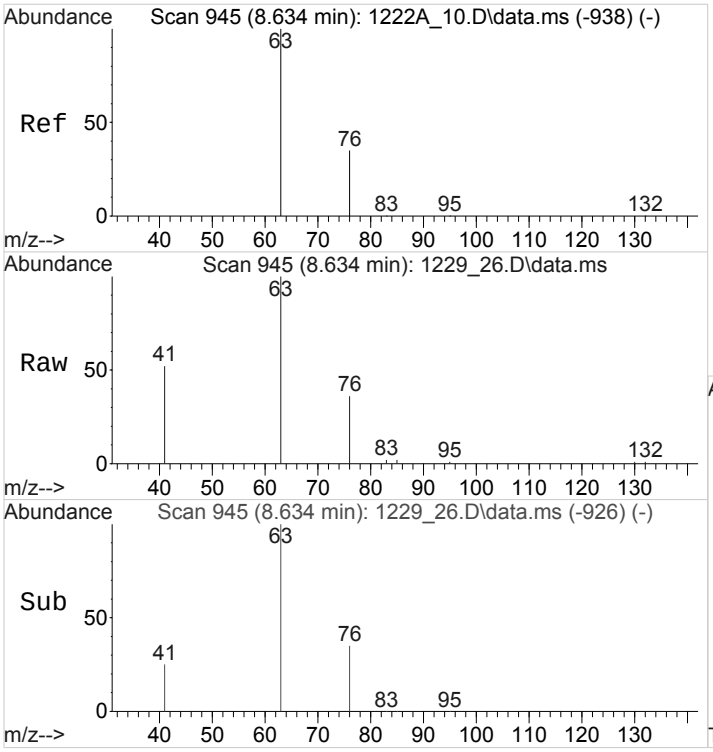
#18
Trichloroethene
Concen: 0.4504048 ppbv
RT: 8.362 min Scan# 919
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 95 Resp: 9883

Ion	Ratio	Lower	Upper
95	100		
130	92.5	73.0	109.4
132	89.3	69.8	104.8



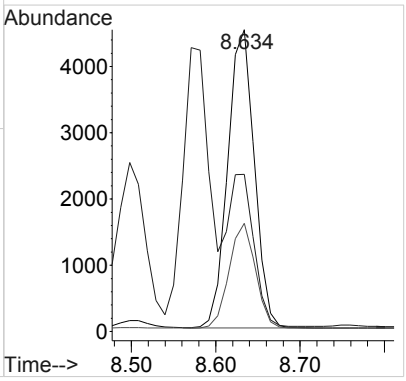
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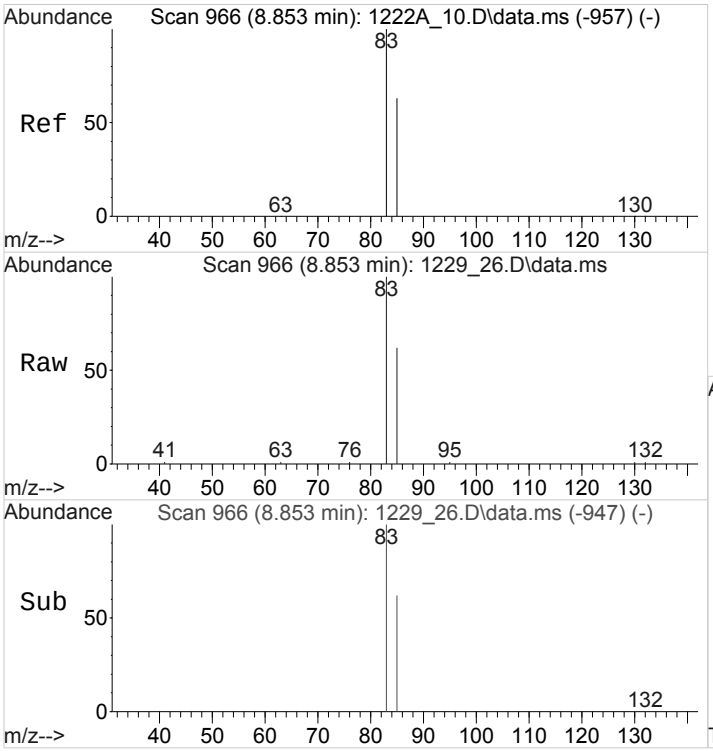


#19
1,2-Dichloropropane
Concen: 0.4687775 ppbv
RT: 8.634 min Scan# 945
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 63 Resp: 9852

Ion	Ratio	Lower	Upper
63	100		
41	50.6	41.9	62.9
76	34.6	27.3	40.9

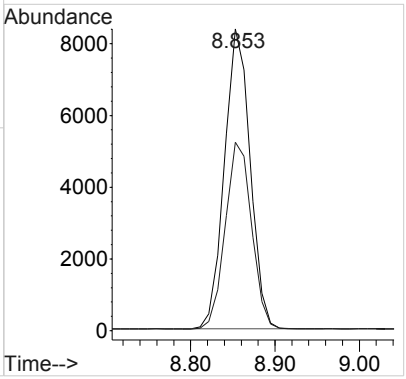




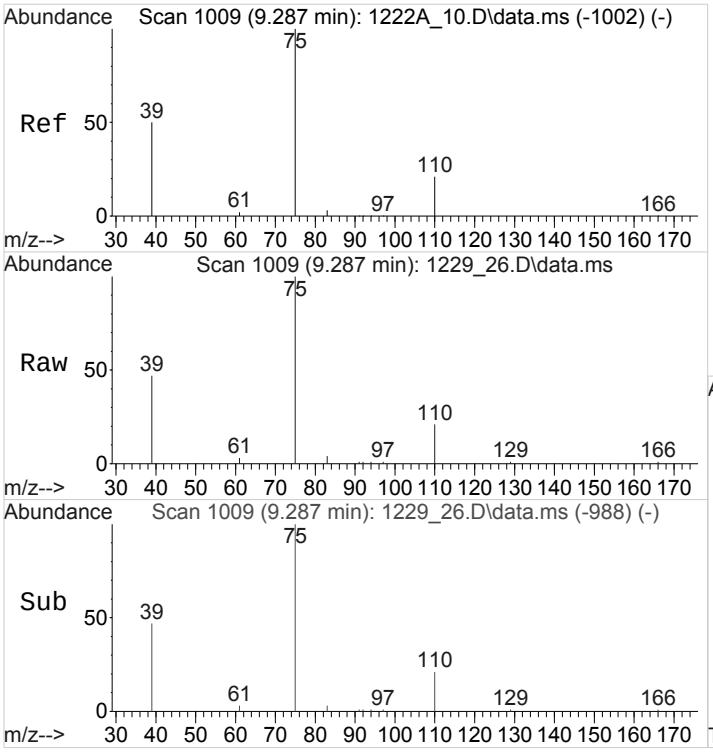
#20
Bromodichloromethane
Concen: 0.4677998 ppbv
RT: 8.853 min Scan# 966
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 83 Resp: 17732

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.7	76.1



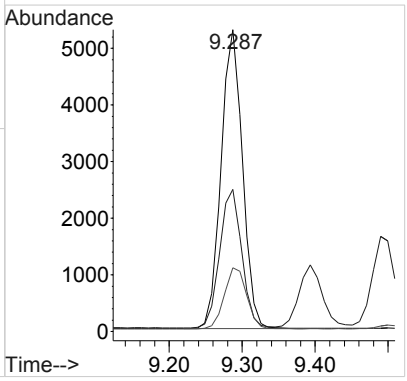
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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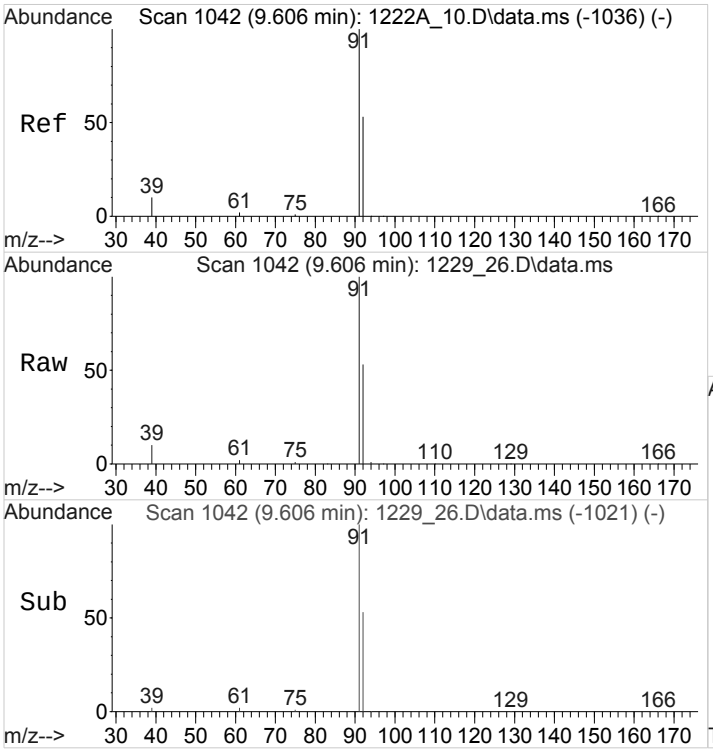


#21
cis-1,3-Dichloropropene
Concen: 0.4486047 ppbv
RT: 9.287 min Scan# 1009
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 75 Resp: 10783

Ion	Ratio	Lower	Upper
75	100		
39	47.4	41.2	61.8
110	21.1	16.6	24.8

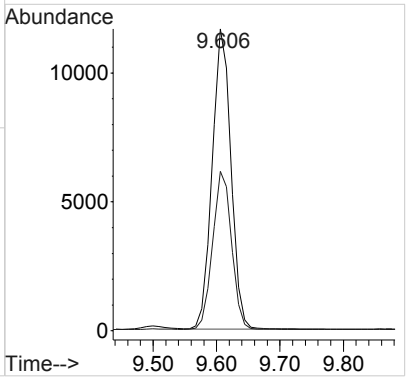




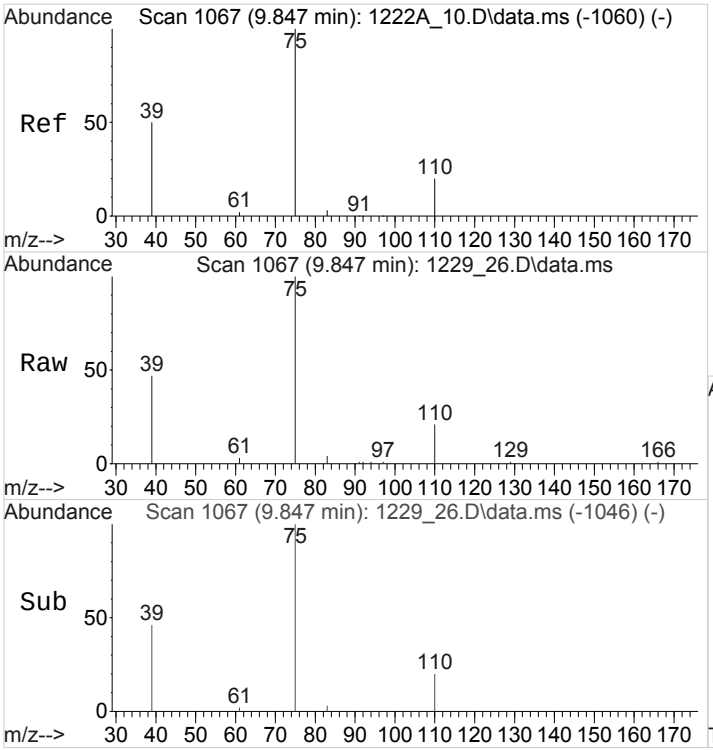
#22
Toluene
Concen: 0.4808234 ppbv
RT: 9.606 min Scan# 1042
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 91 Resp: 23971

Ion	Ratio	Lower	Upper
91	100		
92	52.9	42.1	63.1



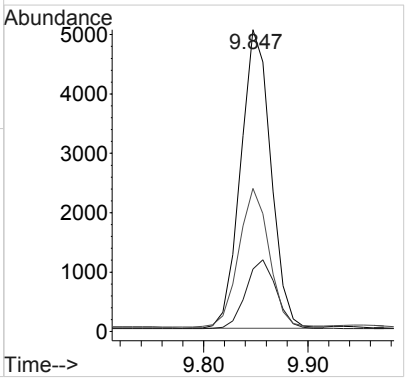
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	478 of 500

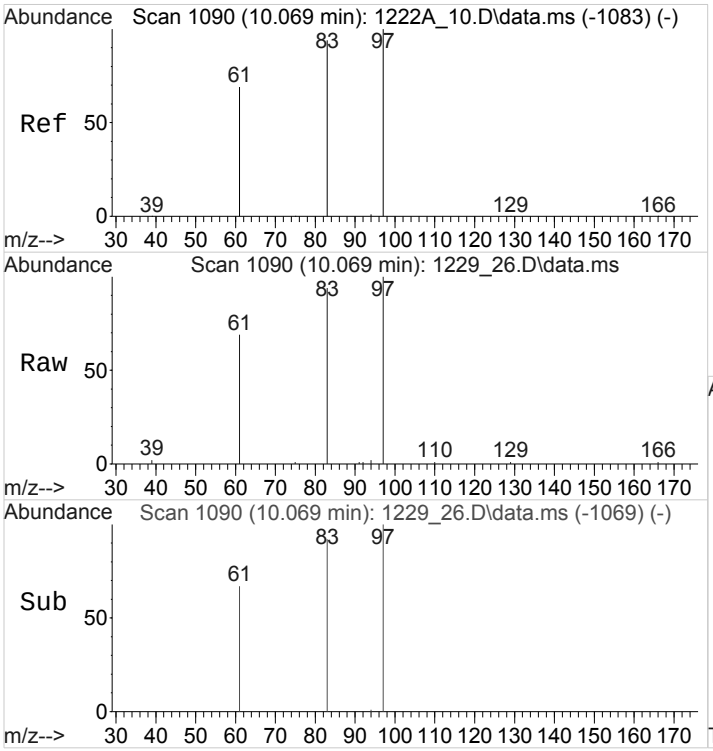


#23
trans-1,3-Dichloropropene
Concen: 0.4515646 ppbv
RT: 9.847 min Scan# 1067
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 75 Resp: 10166

Ion	Ratio	Lower	Upper
75	100		
110	23.2	18.1	27.1
39	46.4	40.3	60.5

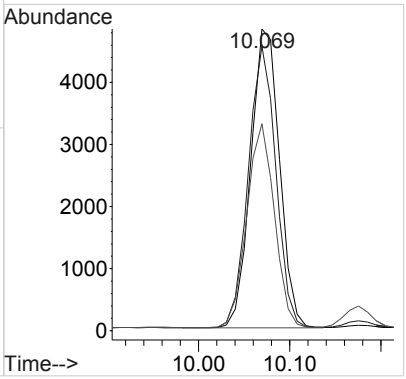




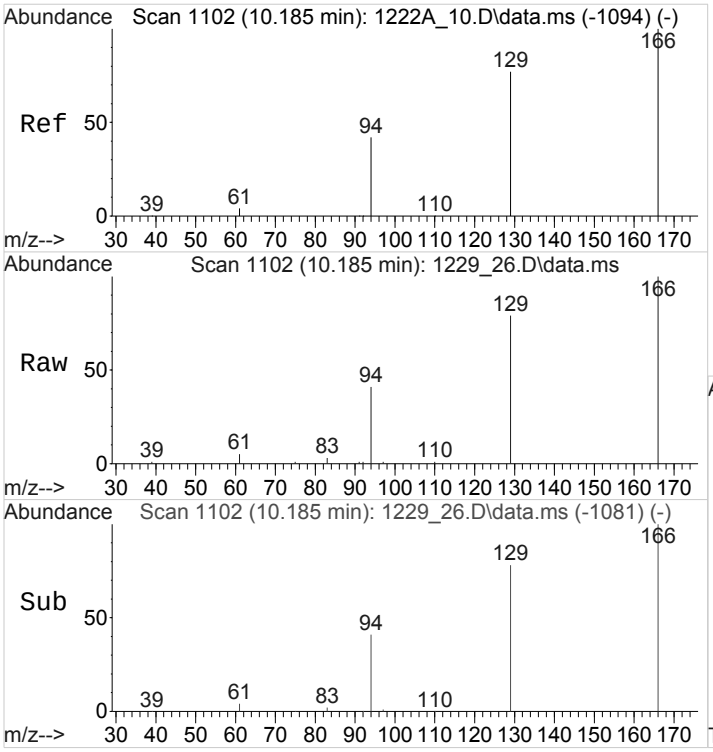
#24
1,1,2-Trichloroethane
Concen: 0.4799491 ppbv
RT: 10.069 min Scan# 1090
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 97 Resp: 10541

Ion	Ratio	Lower	Upper
97	100		
83	90.4	73.5	110.3
61	65.4	54.8	82.2



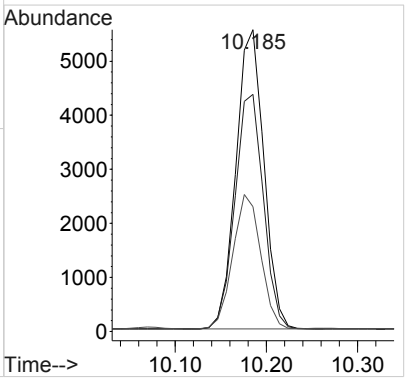
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	479 of 500

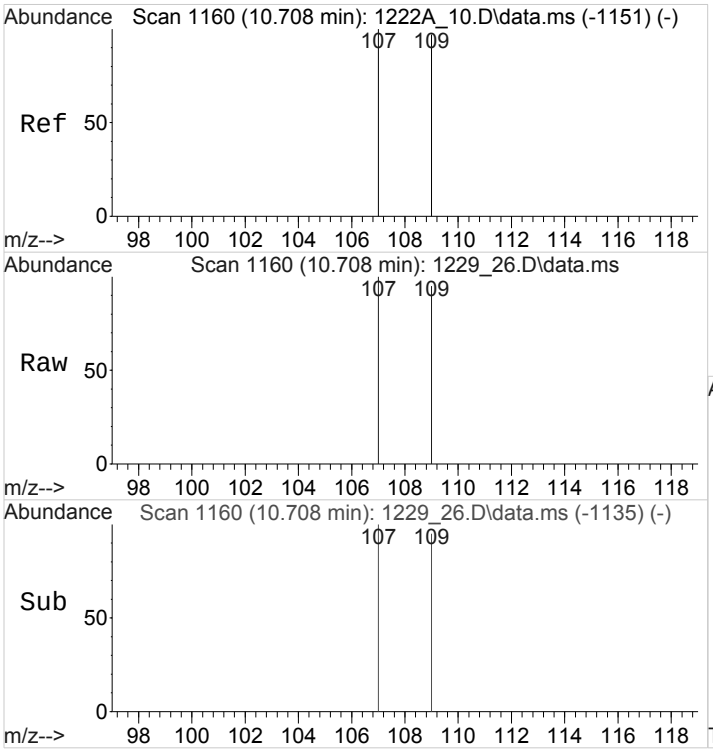


#25
Tetrachloroethene
Concen: 0.4795520 ppbv
RT: 10.185 min Scan# 1102
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion:166 Resp: 11784

Ion	Ratio	Lower	Upper
166	100		
129	79.8	63.9	95.9
94	44.8	37.4	56.2

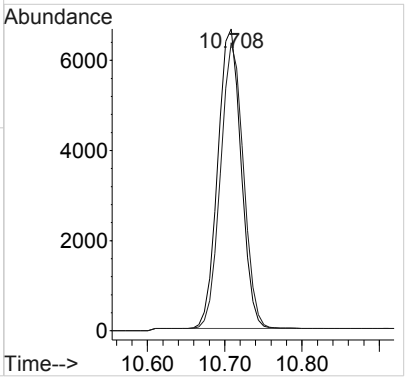




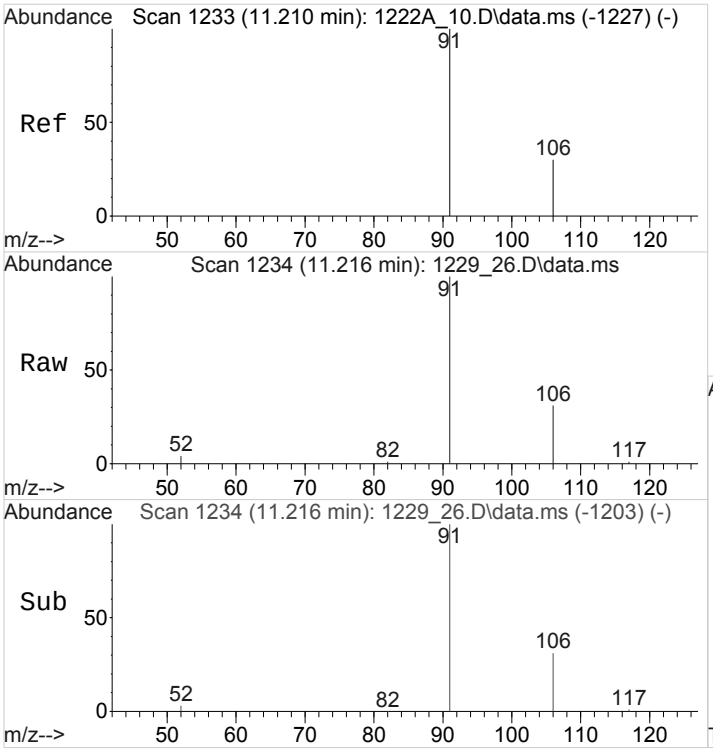
#26
1,2-Dibromoethane
Concen: 0.4700387 ppbv
RT: 10.708 min Scan# 1160
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion:107 Resp: 13930

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.0	112.6



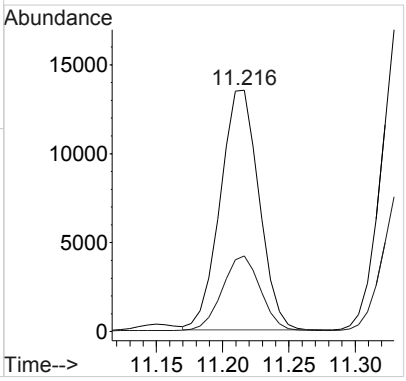
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	480 of 500

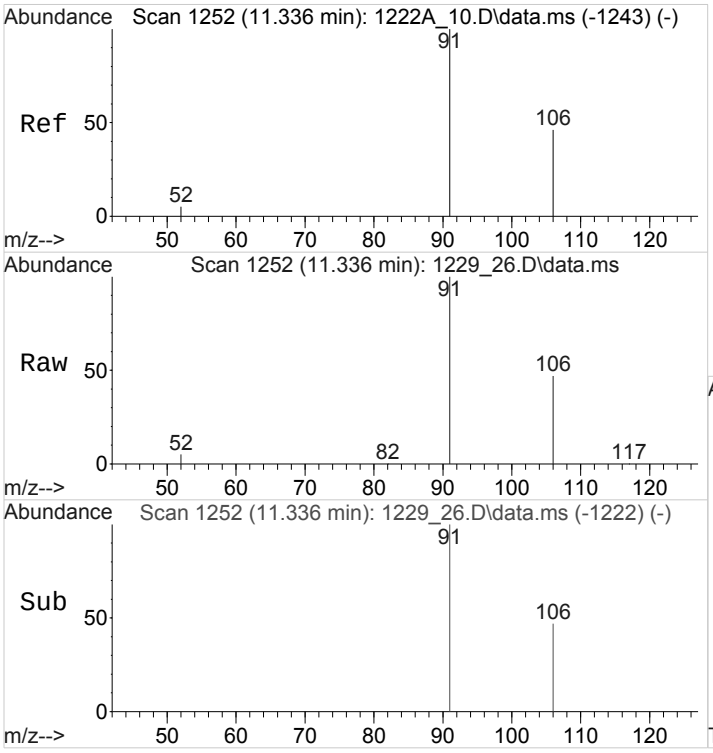


#28
Ethylbenzene
Concen: 0.4780634 ppbv
RT: 11.216 min Scan# 1234
Delta R.T. 0.007 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 91 Resp: 27361

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.2	36.4

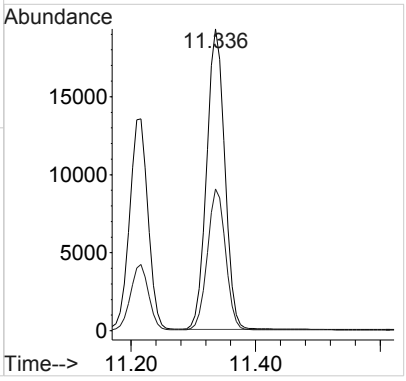


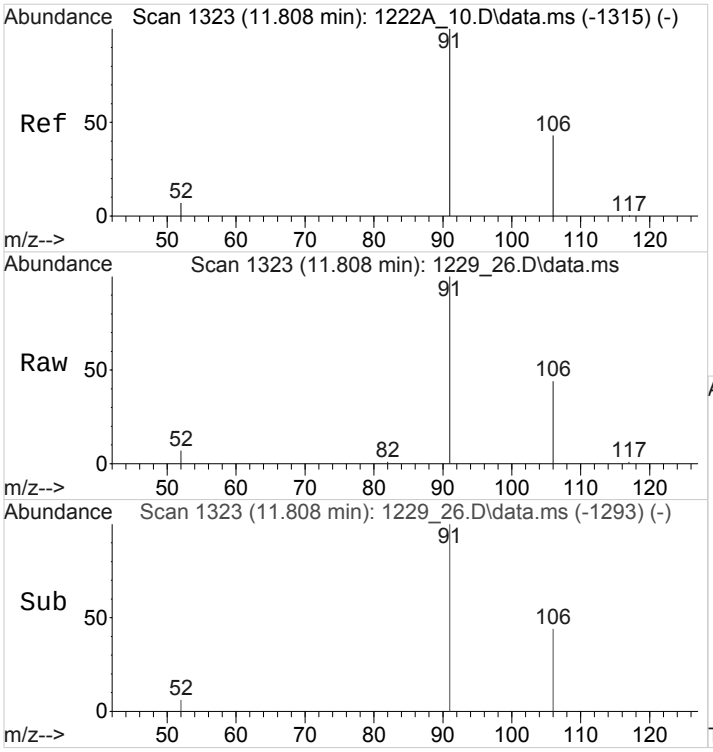


#29
M&P-Xylene
Concen: 0.9452120 ppbv
RT: 11.336 min Scan# 1252
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 91 Resp: 39184

Ion	Ratio	Lower	Upper
91	100		
106	46.9	36.9	55.3

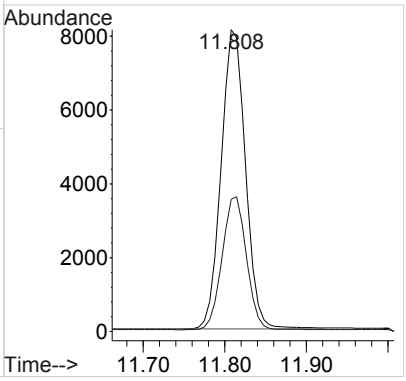


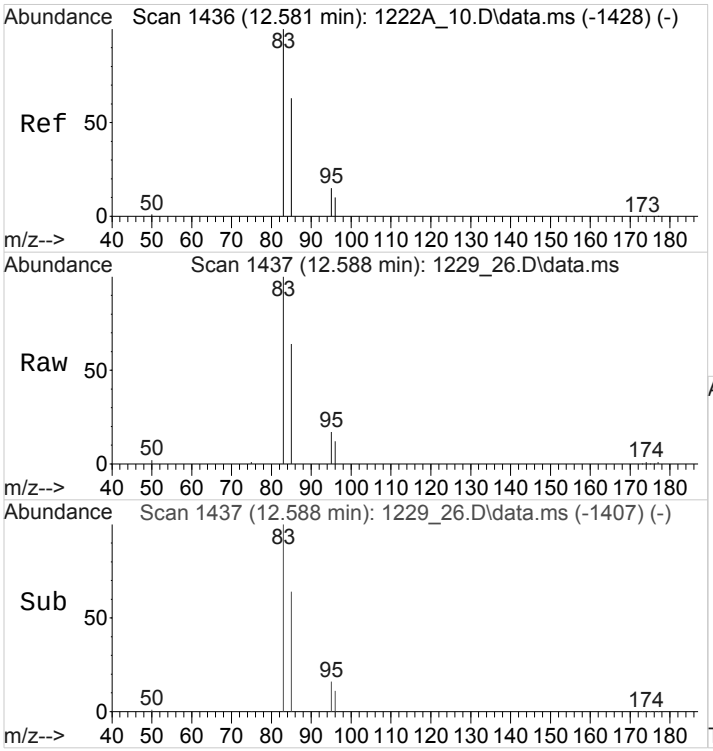


#30
O-Xylene
Concen: 0.4449279 ppbv
RT: 11.808 min Scan# 1323
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 91 Resp: 16819

Ion	Ratio	Lower	Upper
91	100		
106	44.1	34.6	52.0

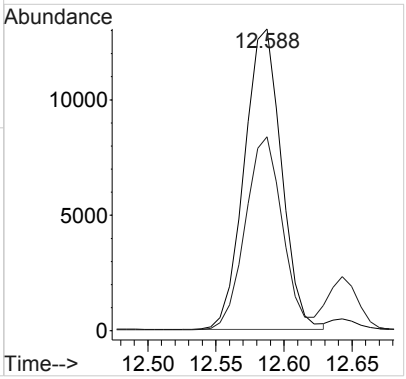


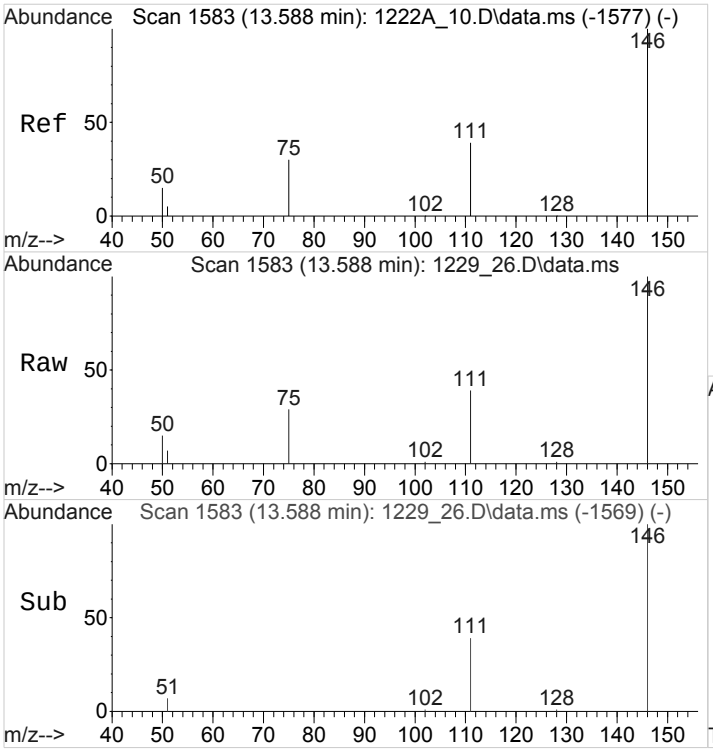


#31
1,1,2,2-Tetrachloroethane
Concen: 0.4784506 ppbv
RT: 12.588 min Scan# 1437
Delta R.T. 0.007 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion: 83 Resp: 24733

Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.0	76.6

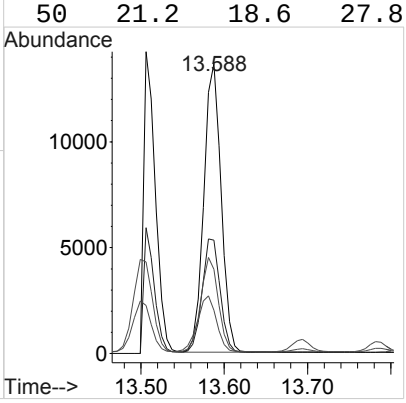


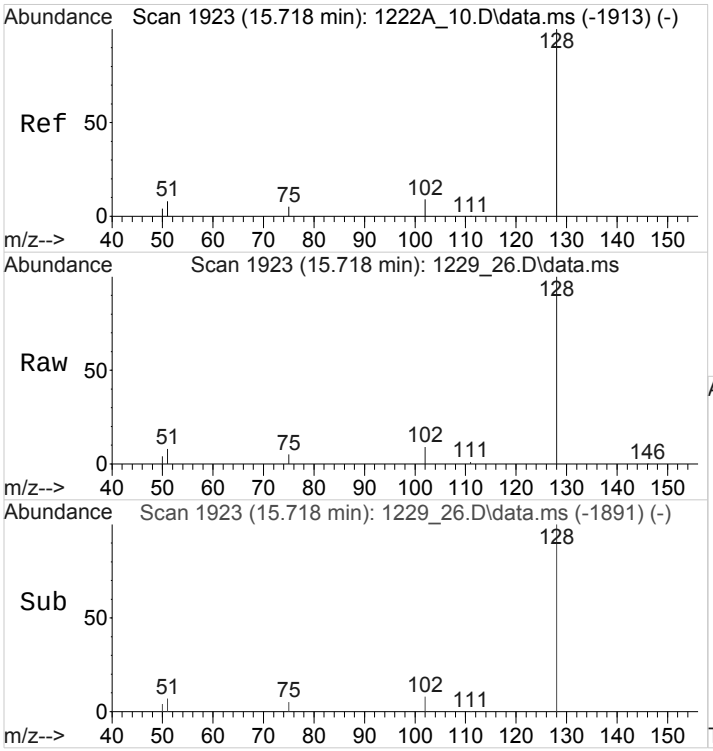


#33
1,4-Dichlorobenzene
Concen: 0.5148369 ppbv
RT: 13.588 min Scan# 1583
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion:146 Resp: 19641

Ion	Ratio	Lower	Upper
146	100		
111	40.6	32.6	49.0
75	33.0	27.5	41.3
50	21.2	18.6	27.8

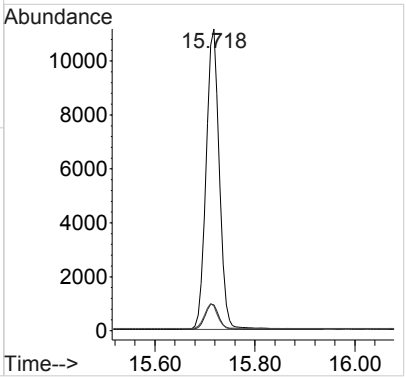




#34
Naphthalene
Concen: 0.4171961 ppbv
RT: 15.718 min Scan# 1923
Delta R.T. 0.000 min
Lab File: 1229_26.D
Acq: 30 Dec 2022 1:58 am

Tgt Ion:128 Resp: 20550

Ion	Ratio	Lower	Upper
128	100		
102	8.5	7.0	10.4
51	8.1	6.9	10.3



ANALYTICAL SEQUENCE

SDG:	L1570581	**Analytical Method:**	TO-15-SIM
Instrument ID:	AIRMS7	**Calibration Start Date:**	12/22/22 18:41
		Calibration End Date:	12/23/22 00:43

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	AIRMS7122222A1222A_01609226	1222A_01	12/22/22 16:43		
CAL	0.02	1222A_04	12/22/22 18:41		
CAL	0.03	1222A_05	12/22/22 19:20		
CAL	0.06	1222A_06	12/22/22 19:58		
CAL	0.13	1222A_07	12/22/22 20:35		
CAL	0.25	1222A_08	12/22/22 21:15		
CAL	0.38	1222A_09	12/22/22 21:55		
CAL	0.5	1222A_10	12/22/22 22:37		
CAL	1.0	1222A_11	12/22/22 23:14		
CAL	5.0	1222A_12	12/22/22 23:56		
CAL	10.0	1222A_13	12/23/22 00:43		
SSCV	AIRMS7122222A1222A_15609226	1222A_15	12/23/22 01:59		
TUNE	AIRMS71229221229_01T609226	1229_01T	12/29/22 08:54		
ICV	AIRMS71229221229_02609226	1229_02	12/29/22 09:38		
TUNE	AIRMS71229221229_02T609226	1229_02T	12/29/22 09:38		
LCS	R3876557-1	1229_03	12/29/22 10:24	1	WG1980882
LCSD	R3876557-2	1229_04	12/29/22 11:10	1	WG1980882
BLANK	R3876557-3	1229_05	12/29/22 11:49	1	WG1980882
L1569830-01	L1569830-01	1229_07	12/29/22 13:22	1	WG1980882
L1569830-02	L1569830-02	1229_08	12/29/22 14:01	1	WG1980882
L1569830-03	L1569830-03	1229_09	12/29/22 14:40	1	WG1980882
L1569830-04	L1569830-04	1229_10	12/29/22 15:20	1	WG1980882
L1569830-05	L1569830-05	1229_11	12/29/22 15:59	1	WG1980882
L1569830-06	L1569830-06	1229_12	12/29/22 16:38	1	WG1980882
L1569830-07	L1569830-07	1229_13	12/29/22 17:18	1	WG1980882
L1570570-10	L1570570-10	1229_14	12/29/22 17:57	1	WG1980882
L1570570-11	L1570570-11	1229_15	12/29/22 18:36	1	WG1980882
785-IA-1_1222	L1570581-10	1229_16	12/29/22 19:15	1	WG1980882
786-IA-1_1222	L1570581-11	1229_17	12/29/22 19:54	1	WG1980882
L1570591-06	L1570591-06	1229_18	12/29/22 20:34	1	WG1980882
L1570591-07	L1570591-07	1229_19	12/29/22 21:13	1	WG1980882
L1570763-01	L1570763-01	1229_20	12/29/22 21:53	1	WG1980882
L1570763-02	L1570763-02	1229_21	12/29/22 22:32	1	WG1980882
L1570763-03	L1570763-03	1229_22	12/29/22 23:12	1	WG1980882
L1570763-04	L1570763-04	1229_23	12/29/22 23:52	1	WG1980882
L1570763-05	L1570763-05	1229_24	12/30/22 00:32	1	WG1980882
CCV	AIRMS71229221229_26609226	1229_26	12/30/22 01:58		

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1570581-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** TO-15-SIM

Matrix: Air **Prep Method:** TO-15-SIM

Analyte	CAS	MDL	RDL
		ppbv	*ppbv*
1,1-Dichloroethene	75-35-4	0.009210	0.04
cis-1,2-Dichloroethene	156-59-2	0.0142	0.06
Tetrachloroethylene	127-18-4	0.0127	0.06
1,1,1-Trichloroethane	71-55-6	0.006490	0.04
Benzene	71-43-2	0.0112	0.05
Trichloroethylene	79-01-6	0.007460	0.04
Vinyl chloride	75-01-4	0.007650	0.04
Carbon tetrachloride	56-23-5	0.009950	0.04

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876557-3	**SDG:**	L1570581
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	1229_05	**Received Date/Time:**	
Instrument ID:	AIRMS7	**Preparation Date/Time:**	12/29/22 11:49
Analytical Batch:	WG1980882	**Analysis Date/Time:**	12/29/22 11:49
Dilution Factor:	1	**Prep Method:**	TO-15-SIM
Analytical Method:	TO-15-SIM	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
Benzene	71-43-2	7.80	0.0250	U	0.0112	0.0250	0.0500
Carbon tetrachloride	56-23-5	0	0.0200	U	0.00995	0.0200	0.0400
1,1-Dichloroethene	75-35-4	0	0.0190	U	0.00921	0.0190	0.0400
cis-1,2-Dichloroethene	156-59-2	0	0.0300	U	0.0142	0.0300	0.0600
Tetrachloroethylene	127-18-4	0	0.0300	U	0.0127	0.0300	0.0600
1,1,1-Trichloroethane	71-55-6	0	0.0190	U	0.00649	0.0190	0.0400
Trichloroethylene	79-01-6	0	0.0190	U	0.00746	0.0190	0.0400
Vinyl chloride	75-01-4	0	0.0190	U	0.00765	0.0190	0.0400

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_05.D
Acq On : 29 Dec 2022 11:49 am
Operator :
Sample : BLANK 1x WG1980882
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 29 12:17:52 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

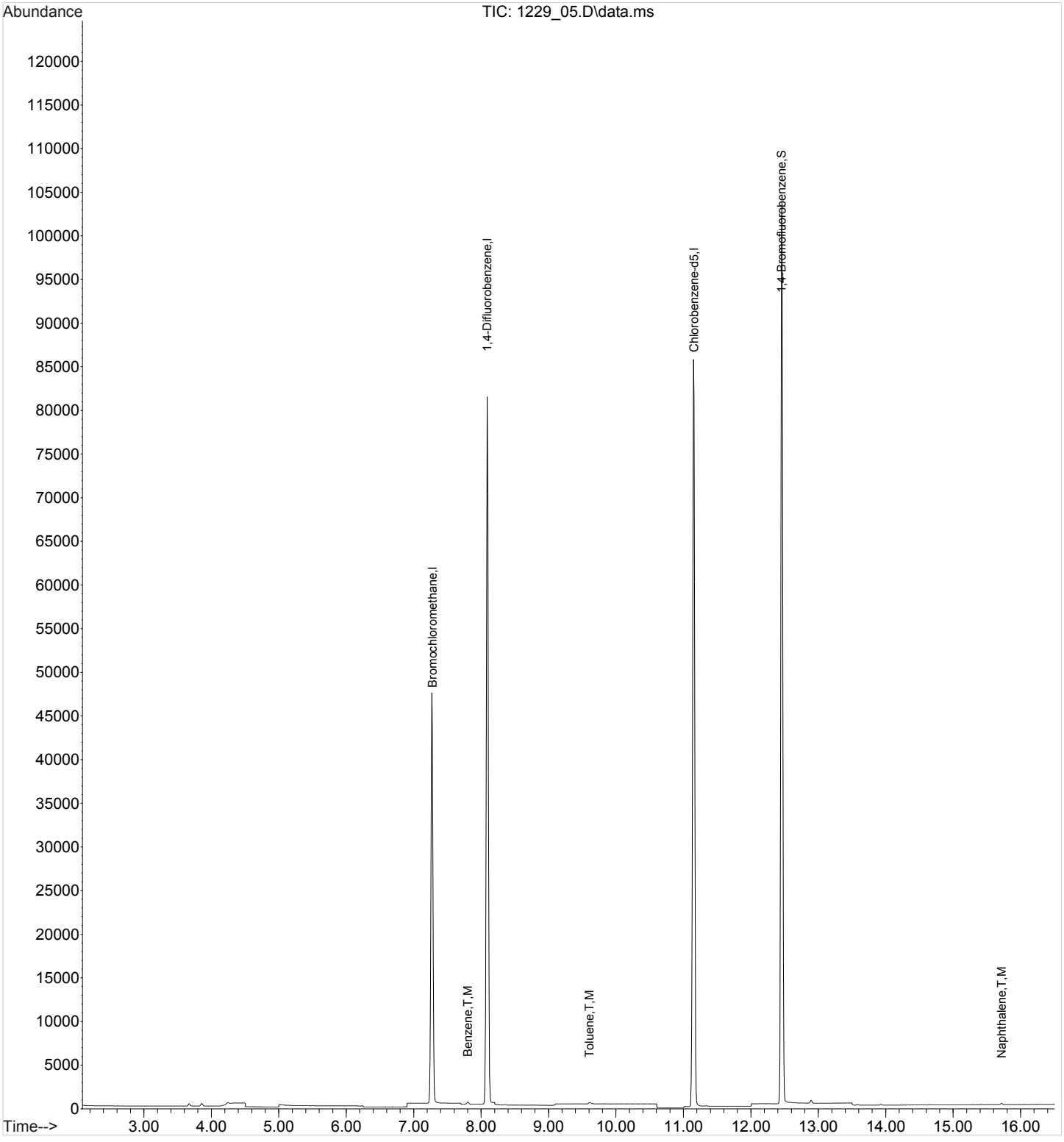
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	33241	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	108902	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.156	117	98225	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	59396	1.1620680	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 92.97%			
Target Compounds						Qvalue
2) Chloromethane	0.000		0	N.D. d		
3) Vinyl Chloride	0.000		0	N.D. d		
4) 1,3-Butadiene	0.000		0	N.D. d		
5) Chloroethane	0.000		0	N.D.		
6) 1,1-Dichloroethene	0.000		0	N.D.		
7) Methyl Tert-Butyl Ether	0.000		0	N.D.		
8) Trans-1,2-Dichloroethene	0.000		0	N.D.		
9) 1,1-Dichloroethane	0.000		0	N.D.		
10) Vinyl Acetate	0.000		0	N.D.		
11) cis-1,2-Dichloroethene	0.000		0	N.D.		
12) Chloroform	0.000		0	N.D.		
13) 1,1,1-Trichloroethane	0.000		0	N.D.		
14) Carbon Tetrachloride	0.000		0	N.D.		
15) 1,2-Dichloroethane	0.000		0	N.D.		
17) Benzene	7.800	78	334	0.0072915	ppbv #	1
18) Trichloroethene	0.000		0	N.D. d		
19) 1,2-Dichloropropane	0.000		0	N.D.		
20) Bromodichloromethane	0.000		0	N.D.		
21) cis-1,3-Dichloropropene	0.000		0	N.D.		
22) Toluene	9.606	91	202	0.0050520	ppbv #	26
23) trans-1,3-Dichloropropene	0.000		0	N.D.		
24) 1,1,2-Trichloroethane	0.000		0	N.D.		
25) Tetrachloroethene	0.000		0	N.D.		
26) 1,2-Dibromoethane	0.000		0	N.D.		
28) Ethylbenzene	0.000		0	N.D. d		
29) M&P-Xylene	0.000		0	N.D.		
30) O-Xylene	0.000		0	N.D.		
31) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
33) 1,4-Dichlorobenzene	0.000		0	N.D.		
34) Naphthalene	15.718	128	247	0.0065630	ppbv #	76

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_05.D
Acq On : 29 Dec 2022 11:49 am
Operator :
Sample : BLANK 1x WG1980882
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 29 12:17:52 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876557-1	**SDG:**	L1570581
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	1229_03	**Received Date/Time:**	
Instrument ID:	AIRMS7	**Preparation Date/Time:**	12/29/22 10:24
Analytical Batch:	WG1980882	**Analysis Date/Time:**	12/29/22 10:24
Dilution Factor:	1	**Prep Method:**	TO-15-SIM
Analytical Method:	TO-15-SIM	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
Benzene	71-43-2	7.80	0.561		0.0112	0.0250	0.0500
Carbon tetrachloride	56-23-5	7.59	0.489		0.00995	0.0200	0.0400
1,1-Dichloroethene	75-35-4	5.50	0.457		0.00921	0.0190	0.0400
cis-1,2-Dichloroethene	156-59-2	7.04	0.476		0.0142	0.0300	0.0600
Tetrachloroethylene	127-18-4	10.19	0.481		0.0127	0.0300	0.0600
1,1,1-Trichloroethane	71-55-6	7.47	0.474		0.00649	0.0190	0.0400
Trichloroethylene	79-01-6	8.36	0.453		0.00746	0.0190	0.0400
Vinyl chloride	75-01-4	4.29	0.440		0.00765	0.0190	0.0400

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 10:24 am
Operator :
Sample : LCS 1x WG1980882
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 29 11:12:54 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

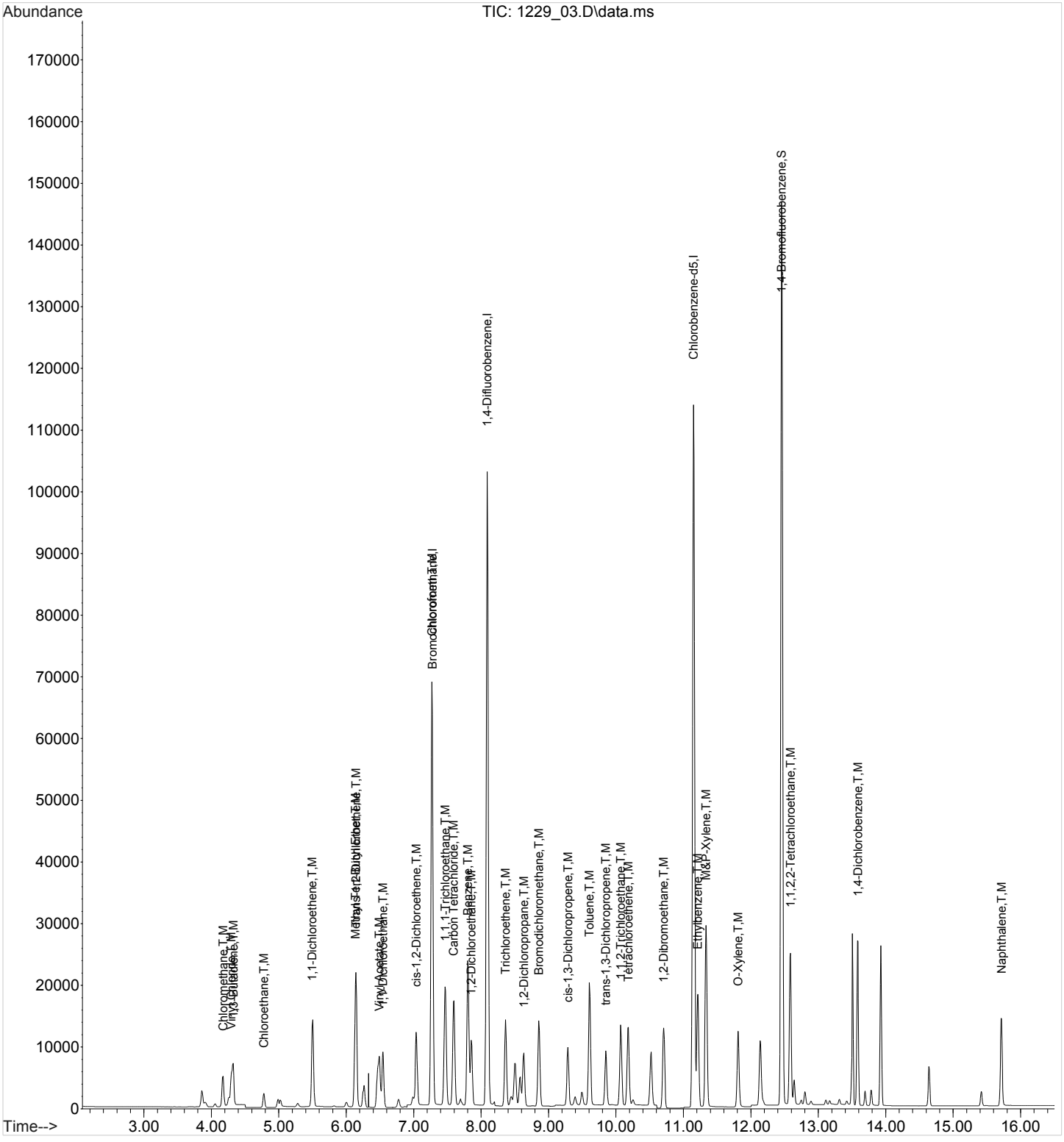
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	38329	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	137863	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	127508	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	83138	1.2530215	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 100.24%			
Target Compounds						Qvalue
2) Chloromethane	4.174	50	7533	0.4321120	ppbv	99
3) Vinyl Chloride	4.292	62	6635	0.4398010	ppbv	99
4) 1,3-Butadiene	4.324	39	4761	0.4303742	ppbv	99
5) Chloroethane	4.779	64	2629	0.4462855	ppbv	99
6) 1,1-Dichloroethene	5.495	61	12879	0.4565334	ppbv	97
7) Methyl Tert-Butyl Ether	6.136	73	15511	0.4579697	ppbv	99
8) Trans-1,2-Dichloroethene	6.144	61	12374	0.4603910	ppbv	99
9) 1,1-Dichloroethane	6.544	63	16365	0.4672782	ppbv	100
10) Vinyl Acetate	6.489	43	25236	0.4111057	ppbv	99
11) cis-1,2-Dichloroethene	7.038	96	7323	0.4755895	ppbv	97
12) Chloroform	7.269	83	16649	0.4704655	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	17051	0.4737968	ppbv	99
14) Carbon Tetrachloride	7.591	117	17003	0.4892161	ppbv	97
15) 1,2-Dichloroethane	7.853	62	11976	0.4742863	ppbv	99
17) Benzene	7.800	78	32512	0.5606656	ppbv	97
18) Trichloroethene	8.362	95	10083	0.4525899	ppbv	98
19) 1,2-Dichloropropane	8.634	63	9973	0.4673788	ppbv	98
20) Bromodichloromethane	8.853	83	17916	0.4655263	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	11082	0.4540914	ppbv	95
22) Toluene	9.606	91	24820	0.4903454	ppbv	100
23) trans-1,3-Dichloropropene	9.847	75	10321	0.4515361	ppbv	96
24) 1,1,2-Trichloroethane	10.069	97	10637	0.4770165	ppbv	97
25) Tetrachloroethene	10.185	166	11989	0.4805370	ppbv	98
26) 1,2-Dibromoethane	10.708	107	14064	0.4674038	ppbv	100
28) Ethylbenzene	11.209	91	27340	0.4816302	ppbv	99
29) M&P-Xylene	11.336	91	39257	0.9547710	ppbv	99
30) O-Xylene	11.808	91	16915	0.4511523	ppbv	99
31) 1,1,2,2-Tetrachloroethane	12.587	83	24453	0.4769294	ppbv	100
33) 1,4-Dichlorobenzene	13.587	146	20241	0.5349334	ppbv	98
34) Naphthalene	15.718	128	21483	0.4397289	ppbv	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_03.D
Acq On : 29 Dec 2022 10:24 am
Operator :
Sample : LCS 1x WG1980882
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 29 11:12:54 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
BHATE Environmental - Birmingham	MSC2021.0012	L1570581	02/27/23 16:12	491 of 500

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3876557-2	**SDG:**	L1570581
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	1229_04	**Received Date/Time:**	
Instrument ID:	AIRMS7	**Preparation Date/Time:**	12/29/22 11:10
Analytical Batch:	WG1980882	**Analysis Date/Time:**	12/29/22 11:10
Dilution Factor:	1	**Prep Method:**	TO-15-SIM
Analytical Method:	TO-15-SIM	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	DL	LOD	LOQ
			ppbv		*ppbv*	*ppbv*	*ppbv*
Benzene	71-43-2	7.80	0.564		0.0112	0.0250	0.0500
Carbon tetrachloride	56-23-5	7.59	0.472		0.00995	0.0200	0.0400
1,1-Dichloroethene	75-35-4	5.50	0.466		0.00921	0.0190	0.0400
cis-1,2-Dichloroethene	156-59-2	7.04	0.488		0.0142	0.0300	0.0600
Tetrachloroethylene	127-18-4	10.19	0.480		0.0127	0.0300	0.0600
1,1,1-Trichloroethane	71-55-6	7.47	0.476		0.00649	0.0190	0.0400
Trichloroethylene	79-01-6	8.36	0.453		0.00746	0.0190	0.0400
Vinyl chloride	75-01-4	4.29	0.451		0.00765	0.0190	0.0400

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_04.D
Acq On : 29 Dec 2022 11:10 am
Operator :
Sample : LCSD 1x WG1980882
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

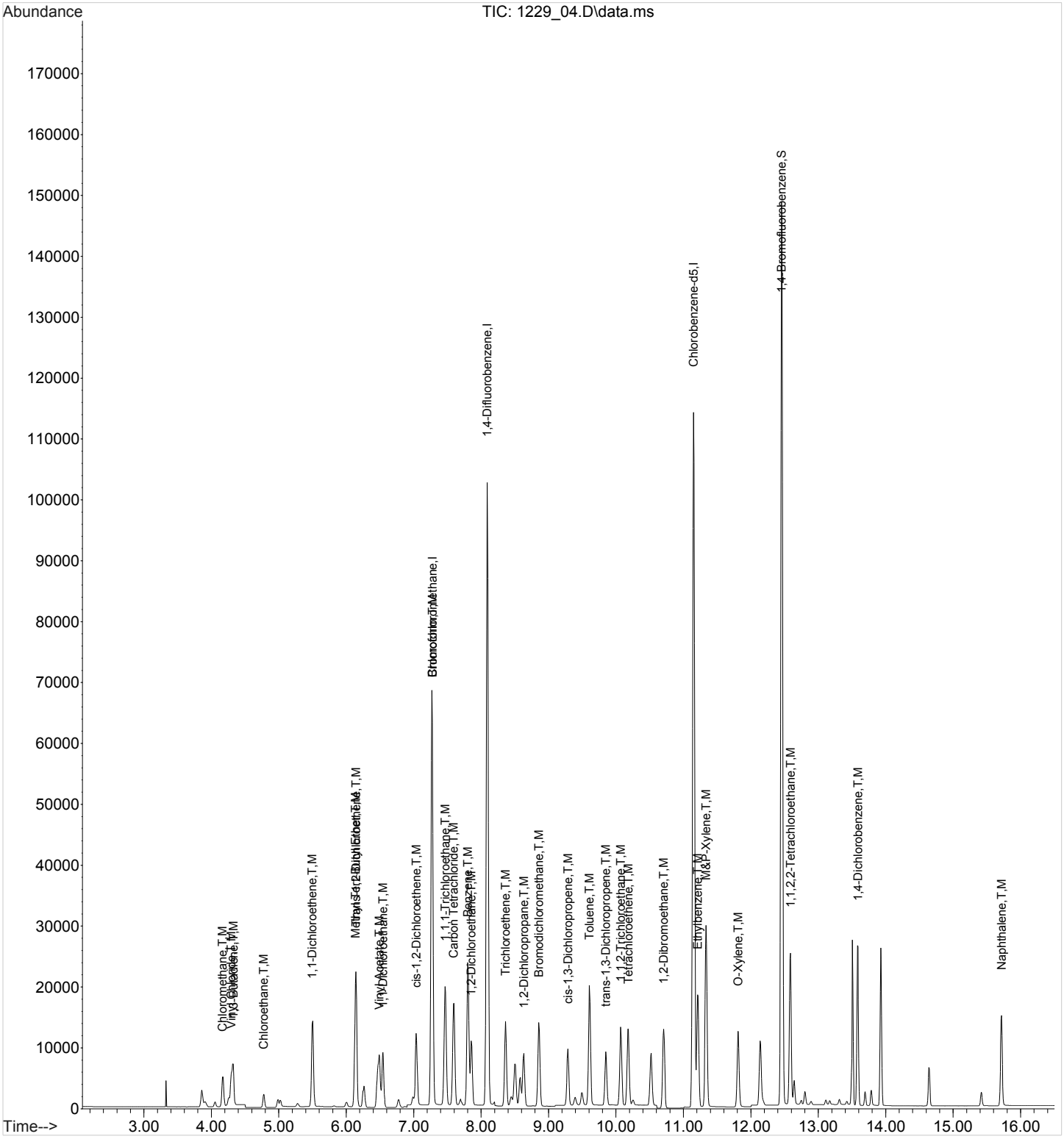
Quant Time: Dec 29 11:28:30 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.276	130	38176	1.2500000	ppbv	0.00
16) 1,4-Difluorobenzene	8.091	114	137133	1.2500000	ppbv	0.00
27) Chlorobenzene-d5	11.150	117	128561	1.2500000	ppbv	0.00
System Monitoring Compounds						
32) 1,4-Bromofluorobenzene	12.456	95	83764	1.2521159	ppbv	0.00
Spiked Amount 1.250	Range 60 - 140		Recovery = 100.17%			
Target Compounds						Qvalue
2) Chloromethane	4.166	50	7582	0.4366658	ppbv	99
3) Vinyl Chloride	4.292	62	6779	0.4511469	ppbv	99
4) 1,3-Butadiene	4.324	39	4907	0.4453497	ppbv	100
5) Chloroethane	4.774	64	2472	0.4213158	ppbv	99
6) 1,1-Dichloroethene	5.495	61	13080	0.4655167	ppbv	97
7) Methyl Tert-Butyl Ether	6.136	73	15576	0.4617320	ppbv	99
8) Trans-1,2-Dichloroethene	6.144	61	12433	0.4644401	ppbv	99
9) 1,1-Dichloroethane	6.544	63	16453	0.4716737	ppbv	100
10) Vinyl Acetate	6.488	43	25711	0.4205223	ppbv	99
11) cis-1,2-Dichloroethene	7.038	96	7491	0.4884500	ppbv	95
12) Chloroform	7.276	83	16646	0.4722659	ppbv	100
13) 1,1,1-Trichloroethane	7.465	97	17070	0.4762257	ppbv	99
14) Carbon Tetrachloride	7.591	117	16345	0.4721687	ppbv	95
15) 1,2-Dichloroethane	7.853	62	12050	0.4791295	ppbv	99
17) Benzene	7.800	78	32516	0.5637196	ppbv	97
18) Trichloroethene	8.362	95	10041	0.4531039	ppbv	99
19) 1,2-Dichloropropane	8.633	63	9959	0.4692072	ppbv	91
20) Bromodichloromethane	8.853	83	17827	0.4656796	ppbv	100
21) cis-1,3-Dichloropropene	9.287	75	10944	0.4508239	ppbv	96
22) Toluene	9.606	91	24528	0.4871562	ppbv	100
23) trans-1,3-Dichloropropene	9.847	75	10318	0.4538078	ppbv	95
24) 1,1,2-Trichloroethane	10.069	97	10525	0.4745065	ppbv	98
25) Tetrachloroethene	10.185	166	11918	0.4802341	ppbv	99
26) 1,2-Dibromoethane	10.708	107	14037	0.4689898	ppbv	100
28) Ethylbenzene	11.209	91	27649	0.4830842	ppbv	99
29) M&P-Xylene	11.336	91	39779	0.9595424	ppbv	99
30) O-Xylene	11.808	91	17274	0.4569538	ppbv	99
31) 1,1,2,2-Tetrachloroethane	12.587	83	24726	0.4783040	ppbv	99
33) 1,4-Dichlorobenzene	13.587	146	19922	0.5221904	ppbv	98
34) Naphthalene	15.718	128	21797	0.4425018	ppbv	99

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

Data Path : C:\msdchem\1\data\122922\
Data File : 1229_04.D
Acq On : 29 Dec 2022 11:10 am
Operator :
Sample : LCSD 1x WG1980882
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS7

Quant Time: Dec 29 11:28:30 2022
Quant Method : C:\msdchem\1\methods\TOSIMMS7L22AV.M
QLast Update : Fri Dec 23 09:26:44 2022
Response via : Initial Calibration



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
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TO-15 SIM Air VOCs Benchsheet

Batch: WG1980882

Analyst: CEP3540 **SOP:** ENV-SOP-MTJL-0104 **Method:** EPA TO-15

ICV, LCS/D Std: 22L13276 Amt. Used: 400 cc Exp. Date:05/05/23 **Internal Standard/Surrogate:** 22L15635 Amt. Used: 50 cc Exp. Date:06/12/23
High Standard: 22K29492 Amt. Used: 800 cc Exp. Date:05/05/23

Sample Number	Initial Sample Vol. (mL)	Analytical Dilution	Sample Vol Used (mL)	Prep Factor	Prep Ratio	Collection Date	Spike Factor	Surrogate Factor	Review Analyst	Review Date
BLANK	200	1	200	1	1		1	1	CEP3540	12/29/22 12:23:02
LCS	200	1	200	1	1		1	1	CEP3540	12/29/22 12:23:02
LCSD	200	1	200	1	1		1	1	CEP3540	12/29/22 12:23:02
1. L1569830-01	200	1	200	1	1	12/19/22 13:50	1	1	CEP3540	12/29/22 12:23:02
2. L1569830-02	200	1	200	1	1	12/19/22 14:15	1	1	CEP3540	12/29/22 12:23:02
3. L1569830-03	200	1	200	1	1	12/19/22 14:16	1	1	CEP3540	12/29/22 12:23:02
4. L1569830-04	200	1	200	1	1	12/19/22 14:10	1	1	CEP3540	12/29/22 12:23:02
5. L1569830-05	200	1	200	1	1	12/19/22 14:00	1	1	CEP3540	12/29/22 12:23:02
6. L1569830-06	200	1	200	1	1	12/19/22 14:02	1	1	CEP3540	12/29/22 12:23:02
7. L1569830-07	200	1	200	1	1	12/19/22 14:16	1	1	CEP3540	12/29/22 12:23:02
8. L1570570-10	200	1	200	1	1	12/02/22 08:20	1	1	MBF564	12/30/22 08:21:00
9. L1570570-11	200	1	200	1	1	12/22/22 09:00	1	1	MBF564	12/30/22 08:21:00
10. L1570581-10	200	1	200	1	1	12/21/22 15:30	1	1	MBF564	12/30/22 08:21:00
11. L1570581-11	200	1	200	1	1	12/21/22 16:10	1	1	MBF564	12/30/22 08:21:00
12. L1570591-06	200	1	200	1	1	12/21/22 13:15	1	1	MBF564	12/30/22 08:21:00
13. L1570591-07	200	1	200	1	1	12/21/22 13:20	1	1	MBF564	12/30/22 08:21:00
14. L1570763-01	200	1	200	1	1	12/23/22 15:30	1	1	MBF564	12/30/22 08:21:00
15. L1570763-02	200	1	200	1	1	12/23/22 15:35	1	1	MBF564	12/30/22 08:21:00
16. L1570763-03	200	1	200	1	1	12/23/22 15:36	1	1	MBF564	12/30/22 08:21:00
17. L1570763-04	200	1	200	1	1	12/23/22 15:33	1	1	MBF564	12/30/22 08:21:00
18. L1570763-05	200	1	200	1	1	12/23/22 15:40	1	1	MBF564	12/30/22 08:21:00

Comments:

Reviewed By: MBF564 on 12/30/22 08:21:00

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

COD	Coefficient of Determination.
DL	Detection Limit.
LOD	Limit of Detection.
LOQ	Limit of Quantitation.
Mass	Mass of parameter.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RRF	Relative Response Factor.
RT	Retention Time.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

Qualifier Description

GLOSSARY OF TERMS

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
BHATE Environmental - Birmingham

1608 13th Ave. S

Suite 300

Billing Information:
Attn. - Accounts Payable
1608 13th Ave. South, Ste. 300
Birmingham, AL 35205

Report To:
David Badio

Email To:
dbadio@bhate.com

Project Description: **Griffiss AFB**

City/State Collected: Rome, NY

Please Circle: PT MT CT ET

Phone:
205-918-4000

Client Project #

Lab Project #
BHATEBAL-GRIFFISS

Collected by (print):

Site/Facility ID #
BUILDING 785/786 SITE

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Three Day
___ Next Day ___ Five Day
___ Two Day

Date Results Needed

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE
MT JULIET, TN
12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1570581
A205
Acctnum: BHATEBAL
Template: T221348
Prelogin: P969260
PM: 873 - Heather J Wagner
PB: CSG 12/16/22
Shipped Via: FedEX Ground

Sample ID	Can #	Flow Cont. #	Collection Date	Collection Time	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Analysis: DODTO-15 Summa	Analysis: DODTO-15SIM Summa	Rem./Contaminant	Sample # (lab only)
785786-INF_1222	008896	012225	12/21	1505	30	0	X			-01
785-VMP-2_1222	009836	011340	12/20-12/21	1435/1545	31	2	X			-02
785-VMP-2_1222-A	006946	009865	" "	" "	29	0	X			-03
785-VMP-4_1222	010423	011729	" "	1455/1535	29	0	X			-04
785-VMP-5_1222	022537	005774	" "	1525/1600	33	0	X			-05
786-VMP-1_1222	012181	020148	" "	1600/1615	30	0	X			-06
786-VMP-2_1222	012363	009876	" "	1545/1620	30	1.5	X			-07
786-VMP-3_1222	011984	006479	" "	1605/1625	31	0	X			-08
785-OA-1_1222	010420	007843	12/20 12/21	1625/1455	30	0	X			-09
785-IA-1_1222	007981	011331	12/20-12/21	1515/1530	30	0		X		-10

Remarks:
TO-15SIM=benzene, TCE, PCE, 1,1 DCE, cis-1,2-DCE, 1,1,1-TCA, MC, VC, carbon tetrachloride

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Tracking #	Hold #
				Date: Time:	Condition: (lab use only)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Date: Time:	
					COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/24/22 Time: 1100	NCF:

Samples returned via: __ UPS __ FedEx __ Courier __ _____

Company Name/Address:
BHATE Environmental - Birmingham

1608 13th Ave. S

Suite 300

Billing Information:
Attn. - Accounts Payable
1608 13th Ave. South, Ste. 300
Birmingham, AL 35205

Report To:
David Badio

Email To:
dbadio@bhate.com

Project Description: **Griffiss AFB**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **205-918-4000**

Client Project #

Lab Project #
BHATEBAL-GRIFFISS

Collected by (print):

Site/Facility ID #
BUILDING 785/786 SITE

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Three Day
___ Next Day ___ Five Day
___ Two Day

Date Results Needed

Sample ID	Can #	Flow Cont. #	Collection Date	Collection Time	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Analysis: DODTO-15 Summa	Analysis: DODTO-15SIM Summa	Analysis	Analysis	Rem./Contaminant	Sample # (lab only)
786-IA-1_1222	008783	006633	12/20-12/21	1540/1610	28.5	0		X				-01

Sample Receipt Checklist

		If Applicable	
COC Seal Present/Intact:	Y N	VOA Zero Headspace:	Y N
COC Signed/Accurate:	Y N	Pres.Correct/Check:	Y N
Bottles arrive intact:	Y N		
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RAD Screen <0.5 mR/hr:	Y N		

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG #

Table #

Acctnum: **BHATEBAL**
Template: **T221348**
Prelogin: **P969260**
PM: 873 - Heather J Wagner
PB: ESL 12/16/22

Shipped Via: **FedEx Ground**

Remarks:
TO-15SIM=benzene, TCE, PCE, 1,1 DCE, cis-1,2-DCE, 1,1,1-TCA, MC, VC, carbon tetrachloride

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/24/22	Time: 1100

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

NCF:

APPENDIX C
DATA VALIDATION REPORTS

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Facility:	Griffiss Air Force Base, BECOS
Event:	2022 Q3 Griffiss Air
SDG:	L1570570
Guidance Document:	Final Basewide Uniform Federal Policy Quality Assurance Project Plan, Long Term Monitoring, Former Griffiss Air Force Base, Rome, New York, April 2022
Prime Contractor:	Bhate Environmental Associates, Inc., Birmingham, AL
Project Manager:	Frank Gardner
Contract Laboratory(ies):	Pace Analytical National Center for Testing and Innovation, Mount Juliet, TN
Data Review Contractor:	Synectics, Sacramento, CA
Data Review Level:	S2BVEM
Primary Data Reviewer:	Calvin Tanaka, Data Review Chemist
Second Reviewer:	Evin McKinney, Senior Scientist
Date Submitted:	March 13, 2023

Field Sample ID	Lab Sample ID	Matrix	Type/Type Code	TO15	TO15SIM
774776-INF_1222	L1570570-01	Air	Field Sample/N	X	
774-IA-1_1222	L1570570-10	Air	Field Sample/N		X
776-IA-1_1222	L1570570-11	Air	Field Sample/N		X
776-OA-1_1222	L1570570-09	Air	Field Sample/N	X	
774-VMP-1_1222	L1570570-02	Gas	Field Sample/N	X	
774-VMP-2_1222	L1570570-03	Gas	Field Sample/N	X	
774-VMP-3_1222	L1570570-04	Gas	Field Sample/N	X	
776-VMP-1_1222	L1570570-05	Gas	Field Sample/N	X	
776-VMP-2_1222	L1570570-06	Gas	Field Sample/N	X	
776-VMP-2_1222-A	L1570570-07	Gas	Field Duplicate/FD	X	
776-VMP-3_1222	L1570570-08	Gas	Field Sample/N	X	

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page at S2BVEM data validation level. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Basewide Uniform Federal Policy Quality Assurance Project Plan, Long Term Monitoring, Former Griffiss Air Force Base, Rome, New York, April 2022 and the additional guidance documents incorporated by reference to the extent possible. Where definitive guidance is not provided, results have been evaluated in a conservative manner using professional judgment.

Sample collection was managed and directed by Bhate Environmental Associates, Inc., Birmingham, AL; analyses were performed by Pace Analytical National Center for Testing and Innovation, Mount Juliet, TN and were reported under sample delivery group (SDG) L1570570. Data have been evaluated electronically based on electronic data deliverables (EDDs) provided by the laboratory, and hard copy data summary forms have also been reviewed during this effort and compared to the automated review output by the reviewers whose signatures appear on the following page. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative and throughout this report.

All quality control (QC) elements associated with this SDG have been reviewed by a project chemist in accordance with the requirements defined for the project. This review is documented in the attached Data Review Checklists. The QC elements listed below were supported by the electronic deliverable and were evaluated using ADR processes.

- Field Duplicate RPD
- Lab Blank
- LCS Recovery
- LCS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

Results of the ADR process were subsequently reviewed and updated as applicable by the data review chemists identified on the signature page. Quality control elements that were not included in the electronic deliverable were reviewed manually and findings are documented within this report. Summaries of findings and associated qualified results are documented throughout this report.

A total of 0 results (0.00%) out of the 484 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected or deemed a serious deficiency (X qualifier). Trace values, defined as results that are qualified as estimated because they fall between the detection limit and the reporting limit/limit of quantitation, are not counted as qualified results in the above count. The qualified results are detailed throughout this report and discussed in the narrative below, where appropriate.

Narrative Comments

Corrections on the COC were not initialed or dated.

Analytical Method	Data Reviewer Comment
TO15	No additional comments; see Checklist for detail.
TO15SIM	No additional comments; see Checklist for detail.

Reviewed by Calvin Tanaka, Data Review Chemist, Synectics, Sacramento, CA — March 02, 2023

As the First Reviewer, I certify that I have performed a data review process in accordance with the requirements of the project guidance document, and have compared the electronic data to the laboratory's hard copy report and have verified the consistency of the reported sample results and method quality control data between the two deliverables.

Reviewed by Evin McKinney, Senior Scientist, Synectics, Sacramento, CA — March 13, 2023

As the Second Reviewer, I certify that I have performed a quality assurance review of the report generated by the First Reviewer.

No Outliers were associated with this sample delivery group.

Qualified Results

No results associated with this sample delivery group required qualification.

Reason Code Definitions

Code	Definition
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated Value
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a tentative identification.
NJ	The analyte has been tentatively identified or presumptively as present and the associated numerical value was the estimated concentration in the sample.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
X	Result may require rejection; PDT attention required

Bias

-	The result may be biased low
+	The result may be biased high

Note - The bias field is a separate field; however, it is an integral part of the final flag (qualifier) on the sample result

Review Questions

Method: TO15 (Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by GC/MS)				
Review Questions	Yes	No	NA	Comment
Were there discrepancies between the COC and the samples received?	•			
Were there discrepancies between the COC and the sample labels?	•			
Were samples relinquished properly on the COC?		•		Page 2 of 2 of the CoC was not relinquished to the laboratory
Were all samples properly preserved?	•			
Were sampling dates/times, date and time of laboratory receipt of samples, and sample conditions upon receipt at the laboratory (including preservation, pH, and temperature) documented?	•			
Were sample results reported with percent moisture correction if required?			•	
Were analytical methods performed and analysis dates present?	•			
Were all requested target analytes reported?	•			
Were QAPP specified Project Quantitation Limit Goals achieved? (The laboratory LOQ is compared to the QAPP Project Quantitation Goal)	•			
Were holding times met?	•			
Were trip blanks analyzed at the proper frequency and in control?			•	
Were field blanks analyzed at the proper frequency and in control?			•	
Were equipment blanks analyzed at the proper frequency and in control?			•	
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than DL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	
Were MS/MSD recoveries within project acceptance limits?			•	
Was the MS/MSD RPD within project acceptance limits?			•	
If ISM ws used for sample collection, were laboratory triplicates analyzed and within project acceptance limits?			•	
Were surrogate recoveries within project acceptance limits?	•			
Were field replicates (duplicates, triplicates, etc.) analyzed at the proper frequency and in control?	•			
Were reported sample concentrations within calibration range?	•			
Was the GC/MS system properly tuned based on method criteria?	•			
Was instrument tuning completed every 24 hours during sample analysis?	•			
Was the Calibration within project acceptance criteria?	•			

Review Questions

Method: TO15 (Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by GC/MS)				
Review Questions	Yes	No	NA	Comment
Was a ICV performed after each ICAL prior to sample analysis and within project acceptance criteria?	•			
Were CCVs run at the required frequency and within project acceptance criteria?	•			
Were internal standard retention times and area criteria within project acceptance criteria?	•			
Were internal standards spiked for every sample, standard, and QC sample?	•			
Were instrument run logs present and filled out appropriately?	•			
Were sample preparation sheets present and filled out appropriately?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were DoD QSM corrective actions followed if deviations were noted?			•	no deviations noted
Were any data recommended for exclusion in the data validation process?		•		

Review Questions

Method: TO15SIM (Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by GC/MS)

Review Questions	Yes	No	NA	Comment
Were there discrepancies between the COC and the samples received?		•		
Were there discrepancies between the COC and the sample labels?		•		
Were samples relinquished properly on the COC?		•		Page 2 of 2 of the CoC was not relinquished to the laboratory
Were all samples properly preserved?	•			
Were sampling dates/times, date and time of laboratory receipt of samples, and sample conditions upon receipt at the laboratory (including preservation, pH, and temperature) documented?	•			
Were sample results reported with percent moisture correction if required?	•			
Were analytical methods performed and analysis dates present?	•			
Were all requested target analytes reported?	•			
Were QAPP specified Project Quantitation Limit Goals achieved? (The laboratory LOQ is compared to the QAPP Project Quantitation Goal)	•			
Were holding times met?	•			
Were trip blanks analyzed at the proper frequency and in control?			•	
Were field blanks analyzed at the proper frequency and in control?			•	
Were equipment blanks analyzed at the proper frequency and in control?			•	
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than DL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?			•	
Was a MS/MSD pair prepared with each batch?			•	
Were MS/MSD recoveries within project acceptance limits?			•	
Was the MS/MSD RPD within project acceptance limits?			•	
If ISM ws used for sample collection, were laboratory triplicates analyzed and within project acceptance limits?			•	
Were surrogate recoveries within project acceptance limits?	•			
Were field replicates (duplicates, triplicates, etc.) analyzed at the proper frequency and in control?	•			
Were reported sample concentrations within calibration range?	•			
Was the GC/MS system properly tuned based on method criteria?	•			
Was instrument tuning completed every 24 hours during sample analysis?	•			
Was the Calibration within project acceptance criteria?	•			

Review Questions

Method: TO15SIM (Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by GC/MS)				
Review Questions	Yes	No	NA	Comment
Was a ICV performed after each ICAL prior to sample analysis and within project acceptance criteria?	•			
Were CCVs run at the required frequency and within project acceptance criteria?	•			
Were internal standard retention times and area criteria within project acceptance criteria?	•			
Were internal standards spiked for every sample, standard, and QC sample?	•			
Were instrument run logs present and filled out appropriately?	•			
Were sample preparation sheets present and filled out appropriately?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were DoD QSM corrective actions followed if deviations were noted?			•	
Were any data recommended for exclusion in the data validation process?		•		

Facility:	Griffiss Air Force Base, BECOS
Event:	2022 Q3 Griffiss Air
SDG:	L1570581
Guidance Document:	Final Basewide Uniform Federal Policy Quality Assurance Project Plan, Long Term Monitoring, Former Griffiss Air Force Base, Rome, New York, April 2022
Prime Contractor:	Bhate Environmental Associates, Inc., Birmingham, AL
Project Manager:	Frank Gardner
Contract Laboratory(ies):	Pace Analytical National Center for Testing and Innovation, Mount Juliet, TN
Data Review Contractor:	Synectics, Sacramento, CA
Data Review Level:	S2BVEM
Primary Data Reviewer:	Calvin Tanaka, Data Review Chemist
Second Reviewer:	Evin McKinney, Senior Scientist
Date Submitted:	March 14, 2023

Field Sample ID	Lab Sample ID	Matrix	Type/Type Code	TO15	TO15SIM
785786-INF_1222	L1570581-01	Air	Field Sample/N	X	
785-IA-1_1222	L1570581-10	Air	Field Sample/N		X
785-OA-1_1222	L1570581-09	Air	Field Sample/N	X	
786-IA-1_1222	L1570581-11	Air	Field Sample/N		X
785-VMP-2_1222	L1570581-02	Gas	Field Sample/N	X	
785-VMP-2_1222-A	L1570581-03	Gas	Field Duplicate/FD	X	
785-VMP-4_1222	L1570581-04	Gas	Field Sample/N	X	
785-VMP-5_1222	L1570581-05	Gas	Field Sample/N	X	
786-VMP-1_1222	L1570581-06	Gas	Field Sample/N	X	
786-VMP-2_1222	L1570581-07	Gas	Field Sample/N	X	
786-VMP-3_1222	L1570581-08	Gas	Field Sample/N	X	

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page at S2BVEM data validation level. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Final Basewide Uniform Federal Policy Quality Assurance Project Plan, Long Term Monitoring, Former Griffiss Air Force Base, Rome, New York, April 2022 and the additional guidance documents incorporated by reference to the extent possible. Where definitive guidance is not provided, results have been evaluated in a conservative manner using professional judgment.

Sample collection was managed and directed by Bhate Environmental Associates, Inc., Birmingham, AL; analyses were performed by Pace Analytical National Center for Testing and Innovation, Mount Juliet, TN and were reported under sample delivery group (SDG) L1570581. Data have been evaluated electronically based on electronic data deliverables (EDDs) provided by the laboratory, and hard copy data summary forms have also been reviewed during this effort and compared to the automated review output by the reviewers whose signatures appear on the following page. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative and throughout this report.

All quality control (QC) elements associated with this SDG have been reviewed by a project chemist in accordance with the requirements defined for the project. This review is documented in the attached Data Review Checklists. The QC elements listed below were supported by the electronic deliverable and were evaluated using ADR processes.

- Field Duplicate RPD
- Lab Blank
- LCS Recovery
- LCS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

Results of the ADR process were subsequently reviewed and updated as applicable by the data review chemists identified on the signature page. Quality control elements that were not included in the electronic deliverable were reviewed manually and findings are documented within this report. Summaries of findings and associated qualified results are documented throughout this report.

A total of 4 results (0.83%) out of the 484 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected or deemed a serious deficiency (X qualifier). Trace values, defined as results that are qualified as estimated because they fall between the detection limit and the reporting limit/limit of quantitation, are not counted as qualified results in the above count. The qualified results are detailed throughout this report and discussed in the narrative below, where appropriate.

Narrative Comments

Analytical Method	Data Reviewer Comment
TO15	No additional comments; see Checklist for detail.
TO15SIM	No additional comments; see Checklist for detail.

March 02, 2023

Reviewed by Calvin Tanaka, Data Review Chemist, Synectics, Sacramento, CA

As the First Reviewer, I certify that I have performed a data review process in accordance with the requirements of the project guidance document, and have compared the electronic data to the laboratory's hard copy report and have verified the consistency of the reported sample results and method quality control data between the two deliverables.

March 14, 2023

Reviewed by Evin McKinney, Senior Scientist, Synectics, Sacramento, CA

As the Second Reviewer, I certify that I have performed a quality assurance review of the report generated by the First Reviewer.

Quality Control Outliers for test method TO15, Field Duplicate RPD

Field duplicate analyses are performed in order to assess sample collection/laboratory precision for each sample matrix. Summary forms were evaluated and compared to electronic data deliverables. Field duplicate results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Warning Limits	Control Limits	Units	Qualifier	Reason Code	Comment
785-VMP-2_1222-A (N)	Acetone	52.1	< 30	< 30	rpd	J/None	D3	
785-VMP-2_1222-A (N)	Carbon disulfide	62.4	< 30	< 30	rpd	J/None	D3	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

Qualified Results associated with the Field Duplicate RPD for TO15

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
785-VMP-2_1222 L1570581-02	N	Acetone	5.70	5.51 J	5.51 J		ug/m3	D3/TR
785-VMP-2_1222 L1570581-02	N	Carbon disulfide	1.56	0.598 J	0.598 J		ug/m3	D3/TR
785-VMP-2_1222-A L1570581-03	FD	Acetone	5.70	9.39	9.39 J		ug/m3	D3
785-VMP-2_1222-A L1570581-03	FD	Carbon disulfide	1.56	1.14 J	1.14 J		ug/m3	D3/TR

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance. In instances where no LOD is provided, results are reported down to the LOQ.

Table of All Qualified Results

Test Method: TO15		Extraction Method: METHOD						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
785-VMP-2_1222 L1570581-02	N	Acetone	5.70	5.51 J	5.51 J		ug/m3	D3/TR
785-VMP-2_1222 L1570581-02	N	Carbon disulfide	1.56	0.598 J	0.598 J		ug/m3	D3/TR
785-VMP-2_1222-A L1570581-03	FD	Acetone	5.70	9.39	9.39 J		ug/m3	D3
785-VMP-2_1222-A L1570581-03	FD	Carbon disulfide	1.56	1.14 J	1.14 J		ug/m3	D3/TR

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Reason Code Definitions

Code	Definition
D3	Field Duplicate RPD
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated Value
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a tentative identification.
NJ	The analyte has been tentatively identified or presumptively as present and the associated numerical value was the estimated concentration in the sample.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
X	Result may require rejection; PDT attention required

Bias

-	The result may be biased low
+	The result may be biased high

Note - The bias field is a separate field; however, it is an integral part of the final flag (qualifier) on the sample result

Review Questions

Method: TO15 (Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by GC/MS)				
Review Questions	Yes	No	NA	Comment
Were there discrepancies between the COC and the samples received?		•		
Were there discrepancies between the COC and the sample labels?		•		
Were samples relinquished properly on the COC?		•		The CoC was not relinquished to the laboratory
Were all samples properly preserved?	•			
Were sampling dates/times, date and time of laboratory receipt of samples, and sample conditions upon receipt at the laboratory (including preservation, pH, and temperature) documented?	•			
Were sample results reported with percent moisture correction if required?			•	
Were analytical methods performed and analysis dates present?	•			
Were all requested target analytes reported?	•			
Were QAPP specified Project Quantitation Limit Goals achieved? (The laboratory LOQ is compared to the QAPP Project Quantitation Goal)	•			
Were holding times met?	•			
Were trip blanks analyzed at the proper frequency and in control?			•	
Were field blanks analyzed at the proper frequency and in control?			•	
Were equipment blanks analyzed at the proper frequency and in control?			•	
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than DL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	
Were MS/MSD recoveries within project acceptance limits?			•	
Was the MS/MSD RPD within project acceptance limits?			•	
If ISM ws used for sample collection, were laboratory triplicates analyzed and within project acceptance limits?			•	
Were surrogate recoveries within project acceptance limits?	•			
Were field replicates (duplicates, triplicates, etc.) analyzed at the proper frequency and in control?	•			See QC outliers
Were reported sample concentrations within calibration range?	•			
Was the GC/MS system properly tuned based on method criteria?	•			
Was instrument tuning completed every 24 hours during sample analysis?	•			
Was the Calibration within project acceptance criteria?	•			

Review Questions

Method: TO15 (Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by GC/MS)				
Review Questions	Yes	No	NA	Comment
Was a ICV performed after each ICAL prior to sample analysis and within project acceptance criteria?	•			
Were CCVs run at the required frequency and within project acceptance criteria?	•			
Were internal standard retention times and area criteria within project acceptance criteria?	•			
Were internal standards spiked for every sample, standard, and QC sample?	•			
Were instrument run logs present and filled out appropriately?	•			
Were sample preparation sheets present and filled out appropriately?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were DoD QSM corrective actions followed if deviations were noted?			•	no deviations noted
Were any data recommended for exclusion in the data validation process?		•		

Review Questions

Method: TO15SIM (Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by GC/MS)				
Review Questions	Yes	No	NA	Comment
Were there discrepancies between the COC and the samples received?		•		
Were there discrepancies between the COC and the sample labels?		•		
Were samples relinquished properly on the COC?		•		The CoC was not relinquished to the laboratory
Were all samples properly preserved?	•			
Were sampling dates/times, date and time of laboratory receipt of samples, and sample conditions upon receipt at the laboratory (including preservation, pH, and temperature) documented?	•			
Were sample results reported with percent moisture correction if required?			•	
Were analytical methods performed and analysis dates present?	•			
Were all requested target analytes reported?	•			
Were QAPP specified Project Quantitation Limit Goals achieved? (The laboratory LOQ is compared to the QAPP Project Quantitation Goal)	•			
Were holding times met?	•			
Were trip blanks analyzed at the proper frequency and in control?			•	
Were field blanks analyzed at the proper frequency and in control?			•	
Were equipment blanks analyzed at the proper frequency and in control?			•	
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than DL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	
Were MS/MSD recoveries within project acceptance limits?			•	
Was the MS/MSD RPD within project acceptance limits?			•	
If ISM ws used for sample collection, were laboratory triplicates analyzed and within project acceptance limits?			•	
Were surrogate recoveries within project acceptance limits?	•			
Were field replicates (duplicates, triplicates, etc.) analyzed at the proper frequency and in control?			•	
Were reported sample concentrations within calibration range?	•			
Was the GC/MS system properly tuned based on method criteria?	•			
Was instrument tuning completed every 24 hours during sample analysis?	•			
Was the Calibration within project acceptance criteria?	•			

Review Questions

Method: TO15SIM (Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by GC/MS)				
Review Questions	Yes	No	NA	Comment
Was a ICV performed after each ICAL prior to sample analysis and within project acceptance criteria?	•			
Were CCVs run at the required frequency and within project acceptance criteria?	•			
Were internal standard retention times and area criteria within project acceptance criteria?	•			
Were internal standards spiked for every sample, standard, and QC sample?	•			
Were instrument run logs present and filled out appropriately?	•			
Were sample preparation sheets present and filled out appropriately?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were DoD QSM corrective actions followed if deviations were noted?			•	no deviations noted
Were any data recommended for exclusion in the data validation process?		•		

APPENDIX D
REMEDIATION SYSTEM O&M FORMS

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Griffiss Monthly System O&M				
Date:	4/18/2022			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
13:00	55 F	Moderate (18 mph)	Yes, all spinning	
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
13:05	55 F	Moderate (18 mph)	Yes, all spinning	
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
NA	NA	NA	NA	NA
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
NA		NA	NA	NA
Wind Speed - light, moderate, heavy, intermittent Turbines Spinning - Yes, no, do any appear to be stuck				
*Wind speed data gathered from Weather Underground for the Griffiss International Aiport Station				

Griffiss Monthly System O&M				
Date:	5/23/2022			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
11:30	65 F	Light (5 mph)	Yes, all spinning	
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
11:35	65 F	Light (5 mph)	No	
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
NA	NA	NA	NA	NA
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
NA		NA	NA	NA
Wind Speed - light, moderate, heavy, intermittent Turbines Spinning - Yes, no, do any appear to be stuck				
*Wind speed data gathered from Weather Underground for the Griffiss International Aiport Station				

Griffiss Monthly System O&M				
Date:	6/22/2022			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
17:10	80 F	Moderate (16 mph)	Yes, all spinning	
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
17:00	80 F	Moderate (16 mph)	Yes, all spinning	
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
NA	NA	NA	NA	NA
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
NA		NA	NA	NA
Wind Speed - light, moderate, heavy, intermittent Turbines Spinning - Yes, no, do any appear to be stuck				
*Wind speed data gathered from Weather Underground for the Griffiss International Aiport Station				

Griffiss Monthly System O&M				
Date:	7/22/2022			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
12:00	82 F	Light (5 mph)	Yes, all spinning	
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
11:55	82 F	Light (5 mph)	Yes, all spinning	
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
NA	NA	NA	NA	NA
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
NA		NA	NA	NA
Wind Speed - light, moderate, heavy, intermittent Turbines Spinning - Yes, no, do any appear to be stuck				
*Wind speed data gathered from Weather Underground for the Griffiss International Aiport Station				

Griffiss Monthly System O&M				
Date:	8/30/2022			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
16:00	75 F	Light (8 mph)	Yes, all spinning	
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
16:10	75 F	Light (8 mph)	Yes, all spinning	
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
NA	NA	NA	NA	NA
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
NA		NA	NA	NA
Wind Speed - light, moderate, heavy, intermittent Turbines Spinning - Yes, no, do any appear to be stuck				
*Wind speed data gathered from Weather Underground for the Griffiss International Aiport Station				

Griffiss Monthly System O&M				
Date:	9/28/2022			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
12:10	61 F	Moderate (9 mph)	Yes, all spinning	
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
12:20	61 F	Moderate (9 mph)	Yes, all spinning	
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
NA	NA	NA	NA	NA
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
NA		NA	NA	NA
Wind Speed - light, moderate, heavy, intermittent Turbines Spinning - Yes, no, do any appear to be stuck				
*Wind speed data gathered from Weather Underground for the Griffiss International Aiport Station				

Griffiss Monthly System O&M				
Date:	10/24/2022			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
13:10	62 F	Moderate (10 mph)	Yes, all spinning	
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
13:05	62 F	Moderate (10 mph)	Yes, all spinning	
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
NA	NA	NA	NA	NA
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
NA		NA	NA	NA
Wind Speed - light, moderate, heavy, intermittent Turbines Spinning - Yes, no, do any appear to be stuck				
*Wind speed data gathered from Weather Underground for the Griffiss International Aiport Station				

Griffiss Monthly System O&M				
Date:	11/18/2022			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
12:50	34 F	Heavy (15 mph)	Yes, all spinning	
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time:	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
13:00	34 F	Heavy (15 mph)	1 of 3; ice buildup on 2	
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
NA	NA	NA	NA	NA
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
NA		NA	NA	NA
Wind Speed - light, moderate, heavy, intermittent Turbines Spinning - Yes, no, do any appear to be stuck				
*Wind speed data gathered from Weather Underground for the Griffiss International Aiport Station				

Griffiss Monthly System O&M				
Date:	12/8/2022			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
13:40	43 F	Light (6 mph)	1 of 2 spinning	
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time:	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
13:50	43 F	Light (6 mph)	None	
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
NA	NA	NA	NA	NA
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
NA		NA	NA	NA
Wind Speed - light, moderate, heavy, intermittent Turbines Spinning - Yes, no, do any appear to be stuck				
*Wind speed data gathered from Weather Underground for the Griffiss International Aiport Station				

Griffiss Monthly System O&M				
Date:	1/27/2023			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
14:30	34 F	Light (6 mph)	Yes, all spinning	
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time:	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
14:50	34 F	Light (6 mph)	Yes, all spinning	
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
NA	NA	NA	NA	NA
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
NA		NA	NA	NA
Wind Speed - light, moderate, heavy, intermittent Turbines Spinning - Yes, no, do any appear to be stuck				
*Wind speed data gathered from Weather Underground for the Griffiss International Aiport Station				

Griffiss Monthly System O&M				
Date:	2/24/2023			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
13:45	18 F	Moderate (17 mph)	None (ice)	
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time:	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
13:50	18 F	Moderate (17 mph)	None (ice)	
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
NA	NA	NA	NA	NA
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
NA		NA	NA	NA
Wind Speed - light, moderate, heavy, intermittent Turbines Spinning - Yes, no, do any appear to be stuck				
*Wind speed data gathered from Weather Underground for the Griffiss International Aiport Station				

Griffiss Monthly System O&M				
Date:	3/28/2023			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed*	Turbines Spinning	Valves in Passive Mode
10:10	34 F	Light (6 mph)	1 of 2 spinning	
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
10:15	34 F	Light (6 mph)	Yes, all spinning	
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
NA	NA	NA	NA	NA
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
NA		NA	NA	NA
Wind Speed - light, moderate, heavy, intermittent Turbines Spinning - Yes, no, do any appear to be stuck				
*Wind speed data gathered from Weather Underground for the Griffiss International Aiport Station				

ATTACHMENTS

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ATTACHMENT 1
TABLES 1-4 FROM FINAL RECORD OF DECISION (AFCEC, SEPTEMBER 2016)

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FINAL
RECORD OF DECISION

SOIL VAPOR INTRUSION AT SD-052-02 BUILDING 775 SITE (BUILDINGS 774 AND 776) AND SD-052-01 APRON 2 CHLORINATED PLUME SITE (BUILDINGS 785 AND 786) FORMER GRIFFISS AIR FORCE BASE ROME, NEW YORK



Air Force Civil Engineer Center
Building 171
2261 Hughes Avenue, Suite 155,
Joint Base San Antonio Lackland, TX

September 2016

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Table 1
Building 774 Detected Indoor, Outdoor Air, and Sub-slab Vapor Analytical Results (2006 and 2008)

Sample Location	774IA-1			774IA-2			774IA-3		774IA-4		774IA-5	774OA-1			774SSV-1		774SSV-2		774SSV-3	774SSV-4
Sample ID	774-IA1	774IA1BB	774IA1CA	774-IA2	774IA2BB	774IA2CA	774IA3BB	774IA3CA	774IA4BB	774IA4CA	774IA5CA	774-OA1	774OA1BB	774OA1CA	774-SSV1	774SSV1BB	774-SSV2	774SSV2BB	774SSV3BB	774SSV4BB
Sample Type	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Outdoor	Outdoor	Outdoor	SSV	SSV	SSV	SSV	SSV	SSV
Sample Date	12/20/2006	4/15/2008	5/29/2008	12/20/2006	4/15/2008	5/29/2008	4/15/2008	5/29/2008	4/15/2008	5/29/2008	5/29/2008	12/20/2006	4/15/2008	5/29/2008	10/24/2006	4/15/2008	10/24/2006	4/15/2008	4/15/2008	4/15/2008
Sample Depth (ft above ground - Indoor and Outdoor and ft bgs for SSV)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	1	1	1	1	1	1
Sample Collection Duration (hr)	8	12	12	8	12	12	12	12	12	12	12	8	8	8	8	12	8	12	12	12
Volatiles (TO-15) in µg/m³																				
cis-1,2-dichloroethene	U	1.57 J	0.685	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.64	0.60
trichloroethylene (tce)	2.4	**347***	3.99*	3.4*	**559***	4.21*	**389***	4.7*	**236***	2.13	6.61*	U	0.492	U	**1700***	**490***	**810***	**590***	66*	69*
vinyl chloride	U	0.13 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes

J - The analyte was positively identified, but the quantitation is an approximation

U - Not detected

µg/m³ microgram per cubic meter

Exceedance of the Air Force Industrial/Commercial SVI Screening Level

*- TCE above EPA Industrial Regional Screening Level (3 µg/m3)

Table 2

Building 776 Detected Indoor, Outdoor Air, and Sub-slab Vapor Analytical Results (2006 and 2008)

Sample Location	776IA-1		776IA-2		776IA-3	776IA-4	776SSV-1		776SSV-2		776SSV-3	776SSV-4
Sample ID	776-IA1	776IA1BB	776-IA2	776IA2BB	776IA3BB	776IA4BB	776-SSV1	776SSV1BB	776-SSV2	776SSV2BB	776SSV3BB	776SSV4BB
Sample Type	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	SSV	SSV	SSV	SSV	SSV	SSV
Sample Date	12/20/2006	4/15/2008	12/20/2006	4/15/2008	4/15/2008	12/20/2006	10/24/2006	4/15/2008	10/24/2006	4/15/2008	4/15/2008	4/15/2008
Sample Depth (ft above ground - Indoor and Outdoor and ft bgs for SSV)	5	5	5	5	5	5	1	1	1	1	1	1
Sample Collection Duration (hr)	8	12	8	12	12	12	8	12	8	12	12	12
Volatiles (TO-15) in µg/m³												
cis-1.2-dichloroethene	U	U	U	U	U	U	U	U	U	U	0.64	U
trichloroethylene (tce)	4.4*	3.28 M*	2.9	2.35	2.51	2.62	**3000***	6.9	**700***	110*	120*	230*
vinyl chloride	U	U	U	U	U	U	U	U	U	U	U	U

Notes:

M - A matrix effect was reported in the sample

U - Not detected

µg/m³: microgram per cubic meter

Exceedance of the Air Force Industrial/Commercial SVI Screening Levels

*- TCE above EPA Industrial Regional Screening Level (3 µg/m3)

Table 3

Building 785 Detected Indoor, Outdoor Air, and Sub-slab Vapor Analytical Results (2006 and 2008)

Sample Location	785IA-1	7851A-2	785IA-3	786OA-1		785SSV-1		785SSV-2		785SSV-3	785SSV-4	785SSV-5	785SSV-6
Sample ID	785-IA1	785-IA2	785IA3BB	786-OA1	786OA1BB	B785-SSV1	785SSV1BB	B785-SSV2	785SSV2BB	785SSV3BB	785SSV4BB	785SSV5BB	785SSV6BB
Sample Type	Indoor	Indoor	Indoor	Outdoor	Outdoor	SSV	SSV	SSV	SSV	SSV	SSV	SSV	SSV
Sample Date	12/20/2006	12/20/2006	4/17/2008	12/20/2006	4/18/2008	10/24/2006	4/17/2008	10/24/2006	4/17/2008	4/17/2008	4/17/2008	4/17/2008	4/17/2008
Sample Depth (ft above ground - Indoor and Outdoor and ft bgs for SSV)	5	5	5	5	5	1	1	1	1	1	1	1	1
Sample Collection Duration (hr)	12	12	12	12	12	8	12	8	12	12	12	12	12
Volatiles (TO-15) in µg/m^3													
1.2.4-trimethylbenzene	NA	NA	1.30	U	0.949	NA	1.9 M	NA	2.3 M	2.9 M	4 M	3.4 M	9 M
1.3.5-trimethylbenzene	NA	NA	0.650 F	U	U	U	0.70 F	U	0.9 M	1.1 M	1.6 M	1.6 M	3.5 M
benzene	1.1	1.1	0.617	0.96	0.617	U	10	15	3.5 J	17	19 M	14	20
cis-1,2-dichloroethene	U	U	U	U	U	75	13	U	0.69 J	0.48 F	14 M	0.52 F	56
ethylbenzene	NA	NA	0.441 F	NA	U	U	1 M	U	1.9 M	1.8 M	2.4 M	3 M	4 M
m,p-xylene (sum of isomers)	NA	NA	1.28 F	NA	0.883 F	U	2.7 M	U	4.4 M	6.3 M	8.8 M	10 F	12 F
Naphthalene	NA	NA	1.33	NA	U	NA	1.2 M	NA	1.9 M	1.2 M	1.4 M	1.8 M	1.6 M
o-xylene	NA	NA	0.485 F	NA	0.441 F	U	1.1 M	U	1.6 M	1.9 M	2.8 M	4.9 M	3.3 M
tetrachloroethylene (pce)	U	U	U	U	U	U	U	U	U	U	U	U	U
toluene	NA	NA	2.72	NA	1.49	60	5.5 M	13	5.1 M	12 M	18 M	64	28 M
trichloroethylene (tce)	U	U	0.655	U	U	**11000***	110*	**2300***	**430 J***	220*	11 M	180*	**2200***
vinyl chloride	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:

U - Not detected

F - The analyte was detected above the method detection limit (MDL), but below the reporting limit (RL).

J- The analyte was positvely identified, but the quantitation is an approximation.

NA- Not Available

Exceedance of the Air Force Industrial/Commercial SVI Screening Levels

*- TCE above EPA Industrial Regional Screening Level (3 µg/m3)

Table 4
Building 786 Detected Indoor, Outdoor Air, and Sub-slab Vapor Analytical Results (2006 and 2008)

Sample Location	786IA-1	786IA-2	786IA-3	786OA-1		786SSV-1		786SSV-2		786SSV-3	786SSV-4	786SSV-5	786SSV-6
Sample ID	**786-IA1**	**786-IA2**	**786IA3BB**	**786-OA1**	**786OA1BB**	**B786-SSV1**	**786SSV1BB**	**B786-SSV2**	**786SSV2BB**	**786SSV3BB**	**786SSV4BB**	**786SSV5BB**	**786SSV6BB**
Sample Type	**Indoor**	**Indoor**	**Indoor**	**Outdoor**	**Outdoor**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**
Sample Date	**12/20/2006**	**12/20/2006**	**4/18/2008**	**12/20/2006**	**4/18/2008**	**10/24/2006**	**4/18/2008**	**10/24/2006**	**4/18/2008**	**4/18/2008**	**4/18/2008**	**4/18/2008**	**4/18/2008**
Sample Depth (ft above ground - Indoor and Outdoor and ft bgs for SSV)	**5**	**5**	**5**	**5**	**5**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)	**8**	**8**	**12**	**12**	**12**	**8**	**12**	**8**	**12**	**12**	**12**	**12**	**12**
Volatiles (TO-15) in µg/m³													
1,2,4-trimethylbenzene	NA	U	0.749	U	0.949	NA	3.9 M	NA	4.8 M	4.5 M	4.2 M	170	4.8 M
1,3,5-trimethylbenzene	NA	U	U	U	U	U	1.6	U	1.8 M	1.7 M	1.5 M	58	2 M
benzene	1.2	1.2	0.747	0.96	0.617	U	29	24 J	21	21	35	36 M	16
cis-1,2-dichloroethene	U	U	U	U	U	480	230	U	12	1.2 M	U	3.1 M	5.4
ethylbenzene	NA	NA	U	NA	U	U	2.3 M	U	3.1 M	2.3 M	2.9 M	29 M	2.3 M
m,p-xylene (sum of isomers)	NA	NA	0.750 F	NA	0.883 F	U	9 M	U	8.4 F	8.9 M	8.4 F	91 M	9.2 M
Naphthalene	NA	NA	1.01 J	NA	U	NA	1.3 M	NA	2.1 M	2.6 M	1.2 M	27 M	1.5 M
o-xylene	NA	NA	U	NA	0.441 F	U	3 M	U	3.9 M	2.8 M	3.8 M	57 M	3 M
tetrachloroethylene (pce)	U	0.896 F	U	U	U	**2200**	70	U	0.97 F	U	U	57 M	23
toluene	NA	NA	1.92	NA	1.49	U	21	U	14	12	20	75 M	15
trichloroethylene (tce)	0.43 J	U	U	U	U	**81000***	**19,000 J***	**4,700 J***	**1500***	69*	320*	**3600***	**6,500 M***
vinyl chloride	U	U	U	U	U	U	M	U	U	U	U	U	U

Notes:
U - Not detected.
F - The analyte was detected above the method detection limit (MDL), but below the reporting limit (RL)
J- The analyte was positvely identified, but the quantitation is an approximation
NA- Not Available
µg/m³: microgram per cubic meter.
Exceedance of the Air Force Industrial/Commercial SVI Screening Levels
*- TCE above EPA Industrial Regional Screening Level (3 µg/m3)

ATTACHMENT 2
TABLES 3-2 THROUGH 3-5 FROM FINAL QUARTERLY OPERATIONS AND MAINTENANCE REPORT (2ND QUARTER/CALENDAR YEAR 2016/APRIL - JUNE) (CAPE/FPM, JULY 2016)

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FINAL

QUARTERLY OPERATIONS AND MAINTENANCE REPORT
SD-052-02 BUILDING 775 SITE (BUILDINGS 774 AND 776) AND
SD-052-01 APRON 2 CHLORINATED PLUME SITE (BUILDINGS 785 AND 786)
SUB-SLAB VAPOR MITIGATION SYSTEMS
(2ND QUARTER / CALENDAR YEAR 2016 / APRIL - JUNE)

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In association with:

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Overland Park, Kansas 66210

Contract Number FA8903-10-D-8595/Delivery Order 0014

July 2016

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Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location			774VMP-1											
Sample ID	Sub-slab Vapor Screening Level* ($\mu g/m^3$)	Indoor Air Screening Level* ($\mu g/m^3$)	774VMP0101AA	774VMP0101AB	774VMP0101AC	774VMP0101AD	774VMP0101AG	774VMP0101HA	774VMP0101IA	774VMP0101JA	774VMP0101KA	774VMP0101MA	774VMP0101NA	774VMP0101PA
Sample Type			sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab
Sample Date			4-May-2011	24-Aug-2011	21-Oct-2011	25-Jan-2012	6-Aug-2012	21-Feb-2013	8-Aug-2013	30-Jan-2014	17-Jul-2014	22-Jan-2015	31-Aug-2015	3-Feb-2016
Sample Depth (ft bgs / ags)			1	1	1	1	1	1	1	1	1	1	1	1
Sample Collection Duration (hr)			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	U	U	1.1	U	U	22,000	U	0.84 J	U	0.2 J	U	0.29 J
1,1-dichloroethane	77	7.7	0.53 J	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	U	U	0.27 J	U	U
1,2,4-trimethylbenzene	310	31	6.7	3.2	U	12	1.8	1.3 J	U	U	U	0.35 J	1.8	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	0.37 J	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	2.5	0.9	U	3.2 J	0.47 J	0.52 J	U	U	U	U	0.49 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	1.4 J	0.40 J	U	U	U	U	U	0.65 J	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	0.31 J	U	U	0.17 J	1 J	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	1.9	U	2.6 J	2.2	15	1.1	U	U	U	0.18 J	U
4-ethyltoluene	NA	NA	4.6	1.2	U	3.2 J	0.56 J	0.26 J	U	U	U	0.14 J	0.52 J	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	0.28 J	U	U	U	U	U	0.81 J	U
acetone	1,400,000	140,000	54	31	18	64	30 B	86	28	43 J	U	64	20	22
benzene	16	1.6	1.6	4.3	U	U	0.44 J	1.3	0.64	0.49 J	U	0.89	0.43 J	0.45 J
carbon disulfide	31,000	3,100	U	0.66	U	U	U	0.42 J	1.3 J	U	U	0.89 J	9	0.71 J
carbon tetrachloride	20	2	1	0.70 J	U	U	0.50 J	0.76 J	0.71 J	0.55 J	U	0.57 J	0.52 J	0.39 J
chlorobenzene	2,200	220	U	0.51 J	U	U	U	U	0.15 J	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	18	9.1	U	U	0.38 J	U	0.42 J	0.82 J	U	U	0.49 J	U
chloromethane	3,900	390	3.5	U	U	U	1.1	2.1	1.2	1.5	U	1.3	1.1	0.95 J
cis-1,2-dichloroethene	NA	NA	0.89	0.77	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	1.1 J	U	U	0.42 J	U	U	U	0.49 J	U
cyclohexane	260,000	26,000	4.8	7.8	2.4	U	2.3	18	0.91	1.1	U	1.1	0.59 J	1.3
ethyl acetate	3,100	310	U	U	0.77 J	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	1.4	2.8	U	4.1 J	0.95	1.8	0.97	U	U	0.25 J	6.2	0.22 J
freon 11 (trichlorofluoromethane)	31,000	3,100	31	19	2.0	1.9 J	2.3	2 J	3.7	2.4	15 J	1.6	2.1	5.3
freon 113 (freon TF)	1,300,000	130,000	U	0.78 J	U	U	0.63 J	0.65 J	0.50 J	0.62 J	U	0.97 J	0.54 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.1	2.8	2.5	2.4 J	2.8	3.4 J	2.3 J	3.1	2.8 J	2.5	2.3 J	1.7 J
freon 22	2,200,000	220,000	NA	NA	NA	300	83	7.3 J	17	8.2	1100	5.1	U	3.5
heptane	NA	NA	U	3.7	U	U	0.68 J	18	0.57 J	0.51 J	U	0.44 J	U	0.51 J
hexane	31,000	3,100	U	7.9	U	5.1	1.2	27	0.67 J	0.71	U	0.51 J	0.21 J	0.5 J
isopropyl alcohol	NA	NA	U	U	2.8	17 J	22	65	15	4.0 J	9.0 J	13	7.4 J	4.5 J
m,p-xylene (sum of isomers)	4,400	440	5.3	9	U	12	3.1	6.4	2.5	U	U	0.56 J	6.3	0.62 J
methyl butyl ketone	NA	NA	U	U	U	U	0.43 J	U	0.58 J	U	U	1.2 J	U	0.56 J
methyl ethyl ketone	220,000	22,000	1.7	4.9	1.7	1.9 J	3.2 B	6.1	3.2	2.5	U	7.2	2.6	3.4
methyl isobutyl ketone	130,000	13,000	U	U	U	U	1.1 J	U	0.61 J	0.40 J	U	1.2 J	0.8 J	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	0.99	0.46 J	U	0.72 J	0.77 J	0.50 J	0.69 J	U	1.3 J	0.53 J	2.3
Naphthalene	3.6	0.36	U	U	U	U	0.60 J	1.1 J	U	U	U	U	0.54 J	U
n-Butane	NA	NA	NA	NA	NA	U	1.4	3.7	1.0 J	12	U	1.9	1.1 J	1.9
n-Propylbenzene	44,000	4,400	NA	NA	NA	2.2 J	0.36 J	U	U	U	U	U	0.45 J	U
o-xylene	4,400	440	2.4	2.4	U	7.9	1.2	2	0.63 J	U	U	0.27 J	2.3	0.26 J
styrene	44,000	4,400	U	U	U	U	0.48 J	0.41 J	U	U	U	0.12 J	0.54 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	U	1.4 J	1.4 J	U	U	0.96 J	0.77 J	U
tetrachloroethylene (pce)	470	47	0.97 J	1	U	U	U	U	U	U	U	U	U	0.2 J
tetrahydrofuran	NA	NA	3.1	U	U	U	2.2 J	U	U	U	U	0.75 J	U	U
toluene	220,000	22,000	1.6	17	2.1	5.2	4.2	7.4	3.3	0.69 J	1.4 J	1	3.4	1.5
trichloroethylene (tce)	30	3	580	410	3.7	4.8 J	1.0 J	0.24 J	0.18 J	6.8	U	0.71 J	0.5 J	1.9
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* ($\mu g/m^3$)	Indoor Air Screening Level* ($\mu g/m^3$)	774VMP-2											
Sample ID			**774VMP0201AA**	**774VMP0201AB**	**774VMP0201AC**	**774VMP0201AD**	**774VMP0201AG**	**774VMP0201HA**	**774VMP0201IA**	**774VMP0201JA**	**774VMP0201KA**	**774VMP0201MA**	**774VMP0201NA**	**774VMP0201PA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**4-May-2011**	**24-Aug-2011**	**21-Oct-2011**	**25-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**8-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**31-Aug-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	85	2.4	U	U	2.6	U	U	U	U	U	0.66 JM	U
1,1-dichloroethane	77	7.7	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	12	4	0.65 J	6.0 J	1.7	0.45 J	0.34 J	0.31 J	U	0.28 J	1.8	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	3.9	2	U	U	0.43 J	U	U	U	U	0.11 J	0.5 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	0.37 J	U	U	U	U	U	0.71 J	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	2.2	U	2.1 J	U	12	U	0.26 J	U	U	0.21 J	U
4-ethyltoluene	NA	NA	8.5	1.5	U	U	0.52 J	U	U	U	U	U	0.64 J	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	0.34 J	U	U	0.47 J	U	U	0.28 J	U
acetone	1,400,000	140,000	53	U	11	110 J	43	82	22	47 J	U	17	29	8.1 J
benzene	16	1.6	6	4.4	U	U	0.53 J	1.2	0.34 J	0.79	U	0.74	0.41 J	0.48 J
carbon disulfide	31,000	3,100	0.95	0.6	U	U	1.2 J	U	U	U	U	U	0.19 JM	U
carbon tetrachloride	20	2	1.4	0.70 J	U	U	0.59 J	U	1.0 J	0.78 J	U	0.54 J	0.67 J	0.69 J
chlorobenzene	2,200	220	U	0.56 J	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	45	1.8	0.69 J	U	0.69 J	U	0.76 J	1.1	U	0.23 J	0.58 J	U
chloromethane	3,900	390	U	U	U	U	0.77 J	1.9	1.3	1.0 J	U	1.1	0.82 J	U
cis-1,2-dichloroethene	NA	NA	0.73	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	0.43 J	U
cyclohexane	260,000	26,000	5.9	10	3.5	U	1.8	12	1.3	1.6 J	U	0.98	0.19 JM	U
ethyl acetate	3,100	310	U	0.62 J	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	1.6	3.2	U	1.9 J	0.94	1.5	0.31 J	0.25 J	U	0.22 J	5.2	U
freon 11 (trichlorofluoromethane)	31,000	3,100	400	22	2.2	U	3.8	1.8	7.3	3.5	14 J	1.9	3	4.3
freon 113 (freon TF)	1,300,000	130,000	0.86 J	0.78 J	U	U	0.61 J	U	0.51 J	0.82 J	U	0.82 J	0.66 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.8	2.8	2.1	3.1 J	2.5	2.9	2.4 J	3.4	U	2.6	2.9	1.9 J
freon 22	2,200,000	220,000	NA	NA	NA	750	130	6.7 J	27	U	1300 J	U	U	3
heptane	NA	NA	U	4.2	6.2	U	0.88	18	0.32 J	0.75 J	U	0.38 J	0.29 J	U
hexane	31,000	3,100	U	8.2	U	U	0.77	23	0.49 J	0.83	U	0.55 J	0.37 J	0.36 J
isopropyl alcohol	NA	NA	4.4	15	2.4	20 J	30	39	44	7.2 J	12 J	9.3 J	7.1 J	2.7 J
m,p-xylene (sum of isomers)	4,400	440	5.1	12	0.53 J	5.5 J	3.1	4.7	0.89 J	0.63 J	U	0.57 J	5.7	U
methyl butyl ketone	NA	NA	U	U	U	U	U	U	0.19 J	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	4.3	3	U	U	3.4 B	5.4	1.2 J	2.0	U	U	1.9	U
methyl isobutyl ketone	130,000	13,000	U	U	U	U	1.3 J	U	0.44 J	0.45 J	U	U	U	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	U	U	U	0.59 J	U	0.48 J	1.1 J	U	0.72 J	0.45 J	1.3 J
Naphthalene	3.6	0.36	U	U	U	U	1.9 J	U	U	U	U	U	0.82 J	U
n-Butane	NA	NA	NA	NA	NA	U	1.2 J	3.6	4.7	18 J	U	3.4	1.9	1.6
n-Propylbenzene	44,000	4,400	NA	NA	NA	U	0.31 J	U	U	U	U	U	0.46 J	U
o-xylene	4,400	440	2.2	2.8	U	3.6 J	1.1	1.2	0.34 J	0.23 J	U	0.2 J	2.2	U
styrene	44,000	4,400	U	U	U	U	0.44 J	U	0.18 J	U	U	0.078 J	0.55 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	0.63 J	U
tetrachloroethylene (pce)	470	47	2.8	U	U	U	U	U	U	0.25 J	U	U	U	U
tetrahydrofuran	NA	NA	6.7	U	U	U	1.4 J	U	U	U	U	U	U	U
toluene	220,000	22,000	3.2	17	1.4	4.8 J	3.9	4.7	1.4	1.2 J	U	0.91	4.1	0.64 J
trichloroethylene (tce)	30	3	2,900	84	11	4.2 J	20	U	0.21 J	3.3 J	U	0.29 J	1.9	0.61 J
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location			774VMP-3											
Sample ID	**Sub-slab Vapor Screening Level* ($\mu g/m^3$)**	**Indoor Air Screening Level* ($\mu g/m^3$)**	**774VMP0301AA**	**774VMP0301AB**	**774VMP0301AC**	**774VMW0301AD**	**774VMP0301AG**	**774VMP0301HA**	**774VMP0301IA**	**774VMP0301JA**	**774VMP0301KA**	**774VMP0301MA**	**774VMP0301NA**	**774VMP0301PA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**4-May-2011**	**24-Aug-2011**	**21-Oct-2011**	**26-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**8-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**31-Aug-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	12	0.67 J	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethane	77	7.7	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	6.3	4.1	0.95	U	0.35 J	1.4 J	U	U	U	U	U	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	2.2	1.8	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	2.3	U	U	U	13	0.22 J	U	U	U	U	U
4-ethyltoluene	NA	NA	4.2	1.6	U	U	U	U	U	U	U	U	U	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	0.27 J	1.8 J	U	U	U	U	U	U
acetone	1,400,000	140,000	17	19	12	30 J	25 B	94	11 J	U	170 J	8 J	U	U
benzene	16	1.6	2.5	3.8	0.39 J	U	0.38 J	2.9 J	0.34 J	U	5.8 J	1.4 J	U	U
carbon disulfide	31,000	3,100	0.95	1.4	U	U	0.32 J	9	0.25 J	U	U	U	U	U
carbon tetrachloride	20	2	0.45	U	U	U	U	U	U	U	U	U	380	U
chlorobenzene	2,200	220	U	0.84	U	U	U	U	0.10 J	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	9.1	U	U	U	0.22 J	U	0.16 J	U	U	U	U	U
chloromethane	3,900	390	U	U	U	U	0.43 J	1.3 J	0.79 J	U	U	1.3 J	U	U
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	6.2	11	4.8	U	0.83	12	0.94	U	12 J	0.44 J	U	U
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	1.5	3.6	U	U	0.45 J	4 J	0.26 J	U	2.5 J	U	U	U
freon 11 (trichlorofluoromethane)	31,000	3,100	630	120	9.5	21	15	5.4 J	40	15 J	370	8.5	13 J	32 D
freon 113 (freon TF)	1,300,000	130,000	0.86 J	0.78 J	U	U	0.51 J	U	0.45 J	U	U	U	U	U
freon 12 (dichlorodifluoromethane)	4,400	440	U	2.6	2.4	3.5 J	2.4 J	3.5 J	2.1 J	U	24 J	3 J	U	U
freon 22	2,200,000	220,000	NA	NA	NA	880	26	11 J	11	U	4000	3.1 J	U	9.1 J
heptane	NA	NA	U	3.5	U	U	0.72 J	17	0.23 J	U	U	U	U	U
hexane	31,000	3,100	U	7.5	U	U	1.6	20	0.37 J	U	U	U	U	U
isopropyl alcohol	NA	NA	U	U	U	25 J	4.2 J	65	7.4 J	U	110 J	3 J	8.9 J	U
m,p-xylene (sum of isomers)	4,400	440	4.5	12	1.2 J	U	1.2 J	15	0.66 J	U	5.6 J	U	U	U
methyl butyl ketone	NA	NA	U	U	U	U	0.81 J	U	U	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	U	U	U	7.6 J	3.8 B	13	U	U	U	U	U	U
methyl isobutyl ketone	130,000	13,000	U	U	U	U	0.37 J	1.1 J	0.37 J	U	U	U	U	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	U	U	U	2.1	2.3 J	0.51 J	U	U	U	U	U
Naphthalene	3.6	0.36	U	U	U	U	0.68 J	U	U	U	U	U	U	U
n-Butane	NA	NA	NA	NA	NA	U	2.7	3.2 J	0.96 J	U	U	2.1 J	U	U
n-Propylbenzene	44,000	4,400	NA	NA	NA	U	U	U	U	U	U	U	U	U
o-xylene	4,400	440	2.2	3.2	U	U	0.38 J	3.7 J	0.26 J	U	U	U	U	U
styrene	44,000	4,400	U	1.4	U	U	0.31 J	U	0.23 J	U	5.0 J	U	U	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.3 J	U	0.50 J	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	U	U	U	U	U	0.24 J	U	U	U	U	U
tetrahydrofuran	NA	NA	U	U	U	12 J	1.3 J	U	U	U	U	U	U	U
toluene	220,000	22,000	2.3	16	2.2	1.3 J	4.0	12.0	1.1	U	8.6 J	0.68 J	U	U
trichloroethylene (tce)	30	3	300	11	3.0	U	1.0 J	1.3 J	0.33 J	U	9.2 J	U	U	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location			774-IA											
Sample ID	Sub-slab Vapor Screening Level* ($\mu g/m^3$)	Indoor Air Screening Level* ($\mu g/m^3$)	774IA1AD	774IA1AE	774IA1AF	774IA1AG	774IA1AH	774IA1IA	774IA1JA	774IA1KA	774IA1LA	774IA1MA	774IA1NA	774IA1PA
Sample Type			Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor
Sample Date			5-May-2011	6-Sep-2011	21-Oct-2011	25-Jan-2012	6-Aug-12	21-Feb-13	8-Aug-13	30-Jan-14	17-Jul-14	22-Jan-15	31-Aug-15	3-Feb-16
Sample Depth (ft bgs / ags)			5	5	5	5	5	5	5	5	5	5	5	5
Sample Collection Duration (hr)			12	12	12	12	12	12	12	12	12	12	12	12
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethane	77	7.7	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	2.7	1.6	0.65 J	U	U	U	0.28 J	0.32 J	0.20 J	U	0.13 J	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	0.27 J	U	U	U	U	U	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	0.46 J	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	1.6 J	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	U	U	U	U	0.55 J	0.24 J	U	U	U	U	U
4-ethyltoluene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
acetone	1,400,000	140,000	52	34	19	28 J	32 B	44	18	47	18 J	11 J	12	17
benzene	16	1.6	1.3	U	U	U	U	0.69	0.31 J	0.80	0.24 J	0.68	0.32 J	0.49 J
carbon disulfide	31,000	3,100	0.66	U	U	U	U	U	U	U	U	U	U	U
carbon tetrachloride	20	2	0.51	0.90 J	U	U	0.45 J	0.46 J	0.44 J	0.53 J	0.49 J	0.45 J	0.43 J	0.39 J
chlorobenzene	2,200	220	0.7	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	0.2 J	U	U	U	U	U	U
chloroform	5.3	0.53	0.55 J	U	U	U	0.28 J	0.32 J	0.18 J	0.57 J	U	U	0.18 J	U
chloromethane	3,900	390	U	1.2	U	1.7 J	1.2	2.7	1.0 J	1.7	1.2 J	1.1	1	1.4
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	0.21 J	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	1.3	U	U	U	U	0.57 J	0.14 J	U	U	U	U	U
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	0.84	0.57 J	U	U	U	0.19 J	0.24 J	0.26 J	0.23 J	0.15 J	0.19 J	0.15 J
freon 11 (trichlorofluoromethane)	31,000	3,100	33	77	4.2	8.9	5.0	3.2	40	16	18	2.2	2.5	38
freon 113 (freon TF)	1,300,000	130,000	U	0.86 J	U	U	0.56 J	0.72 J	0.55 J	0.65 J	U	0.67 J	0.49 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	U	2.8	2.4	U	2.4 J	3	2.2 J	3.0	2.9 J	2.6	2.4 J	2.2 J
freon 22	2,200,000	220,000	NA	NA	NA	350	40	10 J	11	13	330	2	U	6.8
heptane	NA	NA	1.7	U	U	U	U	0.66 J	0.21 J	0.51 J	U	U	U	U
hexane	31,000	3,100	33	U	U	U	U	1.9	0.42 J	0.74	0.34 J	U	0.28 J	0.56 J
isopropyl alcohol	NA	NA	11	32	9.9	29 J	8.3 J	26	14	26	11 J	1.6 J	U	3 J
m,p-xylene (sum of isomers)	4,400	440	2.4	1.2 J	0.57 J	U	U	0.44 J	0.65 J	0.61 J	0.45 J	U	0.5 J	U
methyl butyl ketone	NA	NA	U	U	U	U	0.62 J	U	0.61 J	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	U	2.8	U	2.5 J	2.2 B	15	2.6	1.6	3.5 J	2.1	0.93 J	1.9
methyl isobutyl ketone	130,000	13,000	U	U	U	U	0.37 J	1 J	0.35 J	0.30 J	U	U	U	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	0.93 J	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	1.1	U	U	0.45 J	1 J	0.59 J	0.76 J	U	0.88 J	0.84 J	2.7
Naphthalene	3.6	0.36	U	U	U	U	U	U	U	U	U	U	0.48 J	U
n-Butane	NA	NA	NA	NA	NA	U	0.32 J	2.5	1.0 J	18	U	2.1	1.1 J	1.4
n-Propylbenzene	44,000	4,400	NA	NA	NA	U	U	U	U	U	U	U	U	U
o-xylene	4,400	440	0.71	0.49 J	U	U	U	0.18 J	0.27 J	0.23 J	U	U	0.18 J	U
styrene	44,000	4,400	0.78	0.56 J	U	U	U	0.18 J	0.24 J	0.16 J	0.43 J	U	0.13 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	U	1.7 J	0.69 J	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	U	U	U	U	U	U	U	U	U	U	U
tetrahydrofuran	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
toluene	220,000	22,000	5.1	2.5	1.3	0.76 J	0.47 J	0.71 J	1	1.2	0.65 J	0.58 J	0.85	1.2
trichloroethylene (tce)	30	3	4.4	2.3	0.87	1.5 J	0.35 J	0.22 J	U	0.34 J	U	U	U	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level ($\mu g/m^3$)	Indoor Air Screening Level ($\mu g/m^3$)	776VMP-1											
Sample ID			**776VMP0101AA**	**776VMP0101AB**	**776VMP0101AC**	**776VMP0101AD**	**776VMP0101AG**	**776VMP0101HA**	**776VMP0101IA**	**776VMP0101JA**	**776VMP0101KA**	**776VMP0101MA**	**776VMP0101NA**	**776VMP0101PA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**	**25-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**9-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**31-Aug-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	4.5	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-tetrachloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	9.0	3.5	U	U	0.46 J	0.66 J	0.27 J	U	U	1.3	2.3	U
1,2-dichloroethane	4.7	0.47	U	0.45 J	U	U	0.32 J	U	U	U	U	U	0.22 J	U
1,3,5-trimethylbenzene	NA	NA	3.8	1.6	U	U	U	U	U	U	U	0.4 J	0.66 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	1 J	U
1,4-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	0.38 J	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	0.99 J	12 J	U
2,2,4-trimethylpentane	NA	NA	U	U	0.47 J	U	U	6.5	0.18 J	U	U	U	U	U
4-ethyltoluene	NA	NA	7.2	0.9	U	U	U	U	U	U	U	0.55 J	0.79 J	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	0.33 J	U	U	U	U	1.7	0.34 J	U
acetone	1,400,000	140,000	25	39	39	23	57	37	26	11 J	24	21	38	21 J
benzene	16	1.6	1.0	0.55	1.3	0.52 J	0.43 J	0.87	0.30 J	0.68	0.26 J	0.82	0.46 J	0.87 J
bromomethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	1.2	0.57	0.44 J	U	9.5	U	0.22 J	U	2.3 J	4.8	2.2	U
carbon tetrachloride	20	2	0.77	0.77 J	U	0.53 J	0.83 J	0.51 J	1.1 J	0.52 J	0.47 J	0.52 J♦	0.6 J	U
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	0.27 J	U
chloroform	5.3	0.53	11	0.79	U	0.27 J	U	U	0.66 J	0.17 J	0.25 J	U	0.54 J	U
chloromethane	3,900	390	U	1.1	U	0.67 J	1.3	1.4	1.2	1.1	0.85 J	0.76 J	0.98 J	U
cis-1,2-dichloroethene	NA	NA	U	9.70	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	0.17 J	0.67 J	U
cyclohexane	260,000	26,000	6.8	1.6	3.0	1.2	2.9	6.6	1.1	0.9	1.1 J	0.47 J	0.34 J	0.61 J
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	1.6	0.79	1.6	U	0.92	0.76 J	0.40 J	0.30 J	U	1.40	7.6	U
freon 11 (trichlorofluoromethane)	31,000	3,100	1.7	2.5	1.3	1.4	1.3	1.5	1.2	1.4	1.2 J	1.3 ♦	1.4	0.99 J
freon 113 (freon TF)	1,300,000	130,000	8.6	0.86 J	U	0.70 J	0.65 J	0.73 J	0.54 J	0.69 J	0.63 J	0.43 J	0.83 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	6.6	2.9	2.2	2.9	2.5	2.9	U	3.0	2.7 J	2.7	2.6	2 J
freon 22	2,200,000	220,000	NA	NA	NA	12	13	52 J	3	17	130	4.9	4.2	200
heptane	NA	NA	U	U	1.0	U	0.38 J	8.3	0.20 J	U	U	0.72 J	U	U
hexane	31,000	3,100	U	U	1.9	0.38 J	U	9.8	0.29 J	0.35 J	0.33 J	0.72	1.2	U
isopropyl alcohol	NA	NA	U	21	21	49	46	46	19	24	15 J	18 ♦	40	38 J
m,p-xylene (sum of isomers)	4,400	440	5.4	1.9	4.0	0.23 J	1.8 J	2.4	0.87 J	0.60 J	U	4.9	7.8	U
methyl butyl ketone	NA	NA	U	U	U	U	1.4 J	U	0.63 J	U	U	U	0.7 J	U
methyl ethyl ketone	220,000	22,000	2.9	2.7	1.9	5.9	4.3	3.9	2.8	0.86 J	4	U	4.4	2.6 J
methyl isobutyl ketone	130,000	13,000	2.2	U	U	U	3.1	U	1.1 J	0.22 J	0.28 J	0.91 J	0.92 J	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	13	0.46 J	0.49 J	0.52 J	1 J	0.47 J	0.67 J	U	0.71 J	0.43 J	U
naphthalene	3.6	0.36	U	U	U	U	3.2 J	U	0.61 J	U	U	U	0.75 J	U
n-Butane	NA	NA	NA	NA	NA	2.4	2.8	2.4	1.1 J	3.3	U	21	5.1	1.1 J
n-Propylbenzene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	0.64 J	U
o-xylene	4,400	440	2.5	0.97	1.1	U	0.65 J	0.78 J	0.31 J	0.23 J	U	1.5	3.1	U
styrene	44,000	4,400	1.1	1.1	0.56 J	U	1.0	0.2 J	0.31 J	0.20 J	U	0.3 J♦	0.88	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	1.3 J	2.0 J	1 J	0.89 J	U	U	0.95 J	2.7 J	U
tetrachloroethylene (pce)	470	47	U	2.7	U	U	U	U	U	U	U	U	U	U
tetrahydrofuran	NA	NA	4.8	1.1	U	9.9 J	0.72 J	U	U	U	U	3 J	0.82 J	U
toluene	220,000	22,000	5.6	4.1	6.1	0.40 J	1.5	3.1	1.1	0.85	0.38 J	5.2	5	U
trichloroethylene (tce)	30	3	21	38	U	0.36 J	U	U	U	0.36 J	0.71 J	U	0.81 J	U
vinyl chloride	28	2.8	U	0.81	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level ($\mu g/m^3$)	Indoor Air Screening Level ($\mu g/m^3$)	776VMP-2											
Sample ID			**776VMP0201AA**	**776VMP0201AB**	**776VMP0201AC**	**776VMP0201AD**	**776VMP0201AG**	**776VMP0201HA**	**776VMP0201IA**	**776VMP0201JA**	**776VMP0201KA**	**776VMP0201MA**	**776VMP0201NA**	**776VMP0201PA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**	**25-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**9-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**31-Aug-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	8.7	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-tetrachloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	9.1	3.3	0.65 J	U	0.45 J	0.73 J	2	5.6	2.7	0.3 J	2.6	U
1,2-dichloroethane	4.7	0.47	U	0.49 J	U	U	U	U	U	0.27 J	U	0.22 J	U	U
1,3,5-trimethylbenzene	NA	NA	2.8	1.2	U	U	U	U	0.55 J	1.6	0.74 J	U	0.73 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	44	7.8	U	1.2	U
1,4-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	U	U	0.24 J	0.56 J	6.5 J	2.1	0.92 ♦	0.80 J	U	0.21 J	U
4-ethyltoluene	NA	NA	5.1	1.0	U	U	U	0.27 J	0.58 JM	1.7	0.81 J	0.15 J	0.82 J	U
4-isopropyltoluene	NA	NA	NA	NA	NA	0.49 J	0.41 J	U	U	1.8 ♦	U	U	0.34 J	U
acetone	1,400,000	140,000	17	39	45	20	43	36	38	58	38 ♦	8.8 J	35	U
benzene	16	1.6	1.1	0.45 J	1.5	0.65	0.43 J	0.92	0.7	1.7 ♦	0.60 J♦	0.75	0.41 JM	U
bromomethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	0.98	0.79	0.38 J	0.64 J	0.41 J	0.33 J	3.4	0.44 J♦	U	U	0.7 J♦	U
carbon tetrachloride	20	2	0.77	0.77 J	0.70 J	0.53 J	0.70 J	0.56 J	0.42 J	0.62 J♦	U	0.59 J	0.69 J♦	U
chlorobenzene	2,200	220	U	U	U	0.13 J	U	U	U	0.31 J♦	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	8.3	U	U	0.30 J	0.22 J	U	0.24 J♦	0.22 J	0.33 J♦	U	0.62 J	U
chloromethane	3,900	390	U	1.2	U	0.85 J	1.4	1.7	1.4♦	1.8	1.3 J	1.2	0.87 J	U
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	0.36 J	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	0.34 J♦	U	0.82 J	U
cyclohexane	260,000	26,000	4.5	7.3	8.5	1.4	2.1	5.5	0.79	6.9 J♦	1.3 J♦	0.72	0.57 J♦	U
ethyl acetate	3,100	310	U	1.9	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	0.66	0.88	1.4	0.75 J	1.1	0.98	1.4	4.1 J♦	2.1	0.4 J	10	U
freon 11 (trichlorofluoromethane)	31,000	3,100	2.5	1.8	1.6	1.6	1.4	1.5	1.2	1.6 ♦	1.5 J	1.2	1.5	U
freon 113 (freon TF)	1,300,000	130,000	6.8	1.0 J	U	1.2 J	0.67 J	0.68 J	0.53 J	0.73 J♦	0.74 J	0.54 J	0.98 J♦	U
freon 12 (dichlorodifluoromethane)	4,400	440	11.0	3.0	2.6	3.1	2.5	2.5 ♦	0.47 J	3.3 ♦	3.0 J	2.6	2.8	U
freon 22	2,200,000	220,000	NA	NA	NA	16	14	68 J	3.3	99 J♦	170	10	4.6	900
heptane	NA	NA	0.67	1.3	U	0.38 J	0.43 J	7.1 J	0.72 J	2.3 ♦	0.69 J♦	U	0.35 J	U
hexane	31,000	3,100	U	U	U	0.53 J	0.43 J	8.5 J	0.68 J	2.3 ♦	0.79 J♦	0.32 J	1.2	U
isopropyl alcohol	NA	NA	U	68	31	41	40	44	30	95	48	16	42	U
m,p-xylene (sum of isomers)	4,400	440	2.1	2.4	3.4	1.9 J	2.4	3.2	4.7	11	5.8	1.1 J	9.6	U
methyl butyl ketone	NA	NA	U	U	U	U	1.0 J	U	1.0 J	0.94 J	U	U	U	U
methyl ethyl ketone	220,000	22,000	1.7	U	3.9	1.2 J	4.3 B	3.6	5.9	9.4	7.0 ♦	U	4 ♦	U
methyl isobutyl ketone	130,000	13,000	U	U	U	0.44 J	1.9 J	0.39 J	0.89 J	1.0 J	1.2 J♦	U	0.99 J♦	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	0.74 J	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	0.33 J	U	U	U
methylene chloride	12,000	1,200	U	0.53	U	0.55 J	0.92 J	0.98 J	0.83 J♦	0.89 J	U	U	0.56 J♦	U
naphthalene	3.6	0.36	U	U	U	U	1.9 J	0.5 J	0.61 J	U	U	0.68 J	0.85 J	5.8 J♦
n-Butane	NA	NA	NA	NA	NA	3.2	3.3	2.7 ♦	1.4	5.8 J♦	1.6 J	2.5	5.2	U
n-Propylbenzene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	0.65 J	U
o-xylene	4,400	440	1.1	0.93	0.97	0.79 J	0.82 J	1	1.8	4.5 J♦	2.1	0.37 J	3.6	U
styrene	44,000	4,400	0.78	1.0	0.65	0.44 J	1.8	U	0.44 J	4.8	1.6 J	0.67 J	0.91	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.3 J	1.7 J	1.7 J	17	5.0 J♦	U	2.4 J	U
tetrachloroethylene (pce)	470	47	1.4	U	7.4	U	U	U	0.17 J♦	0.52 J♦	U	U	U	U
tetrahydrofuran	NA	NA	1.6	4.3	U	U	1.1 J	3.3 J♦	U	1.4 J	U	U	0.58 J	U
toluene	220,000	22,000	3.2	4.5	6.9	1.4	1.7	3.6 J	4.5	19 J♦	4.8	0.85	4.9	U
trichloroethylene (tce)	30	3	360	3.8	3.7	3.0	1.4	0.33 J	0.20 J♦	0.81 J	1.1 J	0.42 J	0.76 J	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level ($\mu g/m^3$)	Indoor Air Screening Level ($\mu g/m^3$)	776VMP-3											
Sample ID			**776VMP0301AA**	**776VMP0301AB**	**776VMP0301AC**	**776VMP0301AD**	**776VMP0301AG**	**776VMP0301HA**	**776VMP0301IA**	**776VMP0301JA**	**776VMP0301KA**	**776VMP0301MA**	**776VMP0301NA**	**776VMP0301PA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**	**25-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**9-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**31-Aug-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	18	U	U	U	U	U	U	U	U	U	0.18 J	U
1,1,2,2-tetrachloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	11	2.1	0.50 J	0.61 J	0.52 J	U	0.67 J	U	0.36 J	0.25 J	0.23 J	U
1,2-dichloroethane	4.7	0.47	U	0.62	U	0.27 J	U	0.29 J	U	U	0.27 J	U	U	U
1,3,5-trimethylbenzene	NA	NA	2.7	0.70 J	U	U	U	U	U	U	0.11 J	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	0.79 J	U	U	U
2,2,4-trimethylpentane	NA	NA	U	U	U	U	U	5.7	0.65 J	0.21 J	0.16 J	U	U	U
4-ethyltoluene	NA	NA	5.2	0.65 J	U	U	U	U	U	U	0.12 J	U	U	U
4-isopropyltoluene	NA	NA	NA	NA	NA	0.29 J	0.40 J	U	U	U	0.12 J	U	0.22 J	U
acetone	1,400,000	140,000	20	30	58	34	50	37	19	37	26	21	27	18 JD
benzene	16	1.6	2	0.39 J	1.0	0.40 J	0.32 J	0.99	0.37 J	0.81	0.31 J	0.54 J	0.28 J	0.68 J
bromomethane	NA	NA	U	U	U	U	U	U	U	U	0.11 J	U	U	U
carbon disulfide	31,000	3,100	0.95	0.95	0.63	6.0	0.44 J	U	0.21 J	U	2.0	U	0.93 J	U
carbon tetrachloride	20	2	0.38	0.83 J	0.70 J	0.51 J	0.60 J	0.53 J	0.41 J	0.49 J	U	0.49 J	0.61 J	U
chlorobenzene	2,200	220	U	U	U	U	0.22 J	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	0.093 J	U	U	U
chloroform	5.3	0.53	16	U	0.74	0.68 J	0.87 J	1.2	0.18 J	0.29 J	0.44 J	U	0.47 JM	U
chloromethane	3,900	390	U	0.97	U	U	1.3	U	1.2	0.73 J	1.3	U	0.67 J	U
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	0.30 J	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	5.4	3.5	4.8	1.2	2.8	5	0.71	3.4	1.2	0.8	0.81 M	0.91 J
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	1.1	0.66	1.2	0.64 J	0.72 J	0.98	0.56 J	0.47 J	0.40 J	0.3 J	0.29 J	U
freon 11 (trichlorofluoromethane)	31,000	3,100	4.6	1.7	1.5	1.4	1.4	1.5	1.1	1.3	1.3	1.3	1.4	1.1 J
freon 113 (freon TF)	1,300,000	130,000	1.6	0.93 J	U	0.60 J	0.61 J	0.63 J	0.52 J	0.57 J	0.57 J	0.53 J	0.55 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	21	2.9	2.6	2.9	2.5	2.7	2.3 J	2.9	2.8	2.7	2.6	2.1 J
freon 22	2,200,000	220,000	NA	NA	NA	6.3	15	50 J	9.9	15	50	9.2	6	140
heptane	NA	NA	U	U	U	0.36 J	0.45 J	5.4	0.36 J	0.74 J	0.34 J	U	U	U
hexane	31,000	3,100	U	U	U	0.72	0.91	7.2	0.40 J	0.89	0.24 J	U	0.37 J	U
isopropyl alcohol	NA	NA	U	12	21	28	28	34	24	63	19	20	29	28 J
m,p-xylene (sum of isomers)	4,400	440	3.8	1.7	2.7	1.7 J	1.7 J	2.6	1.6 J	0.65 J	0.99 J	0.72 J	0.71 J	U
methyl butyl ketone	NA	NA	U	U	U	U	0.78 J	U	0.25 J	U	U	0.86 J	U	U
methyl ethyl ketone	220,000	22,000	2.8	2.0	2.2	2.6	7.0 B	4.6	1.5	6.6	4.0	5.9	3.6	1.9 J
methyl isobutyl ketone	130,000	13,000	U	U	U	0.83 J	3.1	U	0.43 J	0.44 J	1.1 J	U	1.1 J	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	0.95	U	0.50 J	0.99 J	0.79 J	0.43 J	0.66 J	U	U	0.57 J	U
naphthalene	3.6	0.36	U	U	U	0.51 J	1.6 J	U	0.62 J	U	1.2 J	U	0.31 J	U
n-Butane	NA	NA	NA	NA	NA	1.7	16	1.8	1.2 J	3.3	0.69 J	1.6	1.2 J	0.75 J
n-Propylbenzene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
o-xylene	4,400	440	1.6	0.66	0.71	0.70 J	0.58 J	U	0.62 J	0.16 J	0.34 J	0.35 J	0.26 J	U
styrene	44,000	4,400	0.78	0.69	0.56 J	0.26 J	0.79 J	0.14 J	0.31 J	U	0.43 J	0.31 J	0.35 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.4 J	1 J	0.60 J	9.0 J	U	U	0.69 J	U
tetrachloroethylene (pce)	470	47	0.83 J	U	U	U	U	U	0.19 J	U	U	U	U	U
tetrahydrofuran	NA	NA	11	1.8	U	0.81 J	2.5 J	U	U	U	U	U	U	U
toluene	220,000	22,000	4.4	3.1	2.5	1.2	1.8	3.8	1.7	5.2	0.88	0.82	1	1.6 J
trichloroethylene (tce)	30	3	830	10	7.3	13	12	2.4	U	2.6	3.5	2.1	5.1	2.9 J
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level ($\mu g/m^3$)	Indoor Air Screening Level ($\mu g/m^3$)	776-IA											
Sample ID			**776IA1CA**	**776IA1DA**	**776IA1EA**	**776IA1FA**	**776IA1GA**	**776IA1HA**	**776IA1IA**	**776IA1JA**	**776IA1LA**	**776IA1MA**	**776IA1NA**	**776IA1PA**
Sample Type			**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**
Sample Date			**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**	**25-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**8-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**31-Aug-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**
Sample Collection Duration (hr)			**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-tetrachloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	1.2	1.7	0.85	U	0.55 J	U	U	U	0.32 J	U	0.29 J	U
1,2-dichloroethane	4.7	0.47	U	0.53 J	U	U	U	U	U	U	0.27 J	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	0.097 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	34
2,2,4-trimethylpentane	NA	NA	U	U	U	0.30 J	U	U	0.20 J	U	U	U	0.26 J	0.22 J
4-ethyltoluene	NA	NA	U	U	U	U	U	U	U	U	0.090 J	U	U	U
4-isopropyltoluene	NA	NA	NA	U	U	U	0.33 J	U	U	U	U	U	0.13 J	2.1
acetone	1,400,000	140,000	54	47	30	18	68	28	22	U	20	22	32	25
benzene	16	1.6	0.49	0.36 J	1.4	0.67 J	0.40 J	1.4	0.29 J	2.4	0.18 J	0.67	0.37 J	0.55 J
bromomethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	0.41 J	0.82	U	U	0.64 J	U	0.21 J	0.26 J	0.82 J	U	0.69 J	U
carbon tetrachloride	20	2	0.51	0.77 J	U	0.57 J	0.46 J	0.44 J	0.41 J	0.55 J	0.51 J	0.57 J	0.51 J	0.27 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	0.33 J	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	U	U	0.55 J	0.32 J	0.25 J	U	U	U	0.29 J	U	0.22 J	U
chloromethane	3,900	390	1.8	1.5	U	1.4 J	1.5	1.8	1.1	5.3	1.3	1.3	1.1	1.6
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	U	U	U	U	1.2	0.23 J	U	U	U	U	U	0.31 J
ethyl acetate	3,100	310	5.8	3.3	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	0.71	0.93	1.3	0.47 J	1.1	0.29 J	0.37 J	0.50 J	0.45 J	0.25 J	0.37 J	0.25 J
freon 11 (trichlorofluoromethane)	31,000	3,100	1.4	1.7	1.3	1.4 J	1.4	1.4	1.3	1.6	1.5	1.3	1.3	1 J
freon 113 (freon TF)	1,300,000	130,000	U	0.93 J	U	U	0.57 J	0.63 J	0.51 J	0.75 J	U	0.46 J	0.42 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	3.6	3.1	2.2	3.2 J	2.4 J	2.2 J	2.3 J	3.5	3.1	2.8	2.4 J	2 J
freon 22	2,200,000	220,000	NA	NA	NA	15	14	69	2.4	17	30	10	4.4	15
heptane	NA	NA	3.2	1.3	U	0.43 J	1.5	0.14 J	0.19 J	1.8	U	U	U	0.36 J
hexane	31,000	3,100	2.3	U	U	U	2.0	0.54 J	0.25 J	2.8	U	U	0.33 J	0.51 J
isopropyl alcohol	NA	NA	50	50	35	100	57	43	23	1.9 J	15	18	28	61
m,p-xylene (sum of isomers)	4,400	440	1.2 J	2.1	2.9	1.0 J	2.5	0.23 J	1.2 J	1.6 J	1.1 J	0.54 J	0.89 J	0.54 J
methyl butyl ketone	NA	NA	U	U	U	U	1.2 J	U	0.53 J	U	U	U	U	0.36 J
methyl ethyl ketone	220,000	22,000	3.3	4.1	U	0.84 J	6.5 B	2.1	2.6	U	2.0	2.1	3.9	2
methyl isobutyl ketone	130,000	13,000	U	U	U	0.83 J	2.7	1.1 J	1.5 J	U	1.5 J	U	U	0.68 J
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	1.3	U	U	1.7 J	1.2 J	1.8	1.0 J	0.64 J	U	0.95 J	2.1
naphthalene	3.6	0.36	U	U	U	0.71 J	2.2 J	U	U	U	U	U	1.1 J	0.38 J
n-Butane	NA	NA	NA	NA	NA	2.4	8.9	2.2	3.5	8.5	0.77 J	2.5	1.5	1.5
n-Propylbenzene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
o-xylene	4,400	440	0.44 J	0.75	0.88	0.46 J	0.81 J	U	0.66 J	0.47 J	0.36 J	U	0.32 J	0.22 J
styrene	44,000	4,400	1.1	1.0	0.82	0.33 J	1.9	U	0.16 J	U	0.35 J	0.23 J	0.33 J	0.29 J
tert-Butyl alcohol	NA	NA	NA	NA	NA	0.56 J	5.4 J	U	0.69 J	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	U	U	U	U	0.38 J	U	U	U	U	U	U
tetrahydrofuran	NA	NA	U	U	U	U	0.90 J	U	U	U	U	U	U	U
toluene	220,000	22,000	4.4	3.2	3.9	1.3	5.3	4.3	0.97	8.7	1.1	0.8	1.4	1.7
trichloroethylene (tce)	30	3	3.6	1.9	0.98	0.41 J	U	U	U	0.26 J	0.95 J	0.35 J	0.52 J	0.28 J
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-2
Building 774/776 SSVM Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level ($\mu g/m^3$)	Indoor Air Screening Level ($\mu g/m^3$)	774/776-OA											
Sample ID			**776OA1DA**	**776OA1EA**	**774776OA1FA**	**774776OA1GA**	**774776OA1HA**	**774776OA1IA**	**774776OA1JA**	**774776OA1KA**	**774776OA1LA**	**774776OA1MA**	**774776OA1NA**	**774776OA1PA**
Sample Type			**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**
Sample Date			**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**	**25-Jan-2012**	**6-Aug-2012**	**21-Feb-2013**	**8-Aug-2013**	**30-Jan-2014**	**17-Jul-2014**	**22-Jan-2015**	**1-Sep-2015**	**3-Feb-2016**
Sample Depth (ft bgs / ags)			**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**
Sample Collection Duration (hr)			**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-tetrachloroethane	NA	NA	U	U	U	U	U	U	U	U	5.5	U	U	U
1,2,4-trimethylbenzene	310	31	U	1.7	0.60 J	U	1.8	U	0.48 J	U	0.11 J	U	0.64 J	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	0.49 J	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	U	U	U	0.51 J	U	U	U	U	U	0.15 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	0.69 J	U
2,2,4-trimethylpentane	NA	NA	U	U	U	U	0.94 J	U	0.80 J	4.2	U	U	U	U
4-ethyltoluene	NA	NA	U	U	U	U	0.53 J	U	U	U	U	U	0.17 J	U
4-isopropyltoluene	NA	NA	U	U	U	U	0.8 J	U	U	U	U	U	U	U
acetone	1,400,000	140,000	18	53	6.8	1.9 J	97	15	13	7.0 J	9.1 J	U	13	U
benzene	16	1.6	U	0.39 J	U	0.63	0.92 J	0.61 J	0.47 J	0.91	0.16 J	0.63	0.33 JM	0.43 J
bromomethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	0.6	0.35 J	U	U	2.3 J	U	2	U	0.50 J	U	U	U
carbon tetrachloride	20	2	0.51	0.90 J	U	0.51 J	0.5 J	0.47 J	0.42 J	0.55 J	0.48 J	0.45 J	0.43 J	0.46 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	U	U	U	U	U	U	U	U	U	U	U	U
chloromethane	3,900	390	U	1.1	0.76	1.2	1.4 J	1.5	1.1	1.6	1.0	1.1	1.7	1.2
cis-1,2-dichloroethene	NA	NA	U	0.48 J	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	U	U	U	U	5.1	U	1.1	U	U	U	U	U
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U
ethylbenzene	49	4.9	U	U	1.1	U	2.1	U	0.37 J	0.24 J	U	U	0.21 J	0.15 J
freon 11 (trichlorofluoromethane)	31,000	3,100	1.3	1.7	1.3	1.4	1.4 J	1.4	1.1	1.5	1.3	1.4	1.3	1.7
freon 113 (freon TF)	1,300,000	130,000	U	0.86 J	U	0.56 J	0.61 J	0.64 J	0.57 J	0.68 J	U	0.53 J	0.43 J	1.2 J
freon 12 (dichlorodifluoromethane)	4,400	440	U	2.9	2.5	2.8	3.4 J	2.7	2.2 J	3.2	2.8	2.7	2.3 J	2.2 J
freon 22	2,200,000	220,000	NA	NA	NA	U	2.1 J	1.1 J	1.2 J	1.2 J	0.94 J	0.86 J	0.96 J	0.95 J
heptane	NA	NA	1.2	U	U	U	3.6	U	0.37 J	1.2	U	U	U	U
hexane	31,000	3,100	0.9	U	U	0.42 J	8.2	0.48 J	0.73	0.96	U	U	U	U
isopropyl alcohol	NA	NA	U	U	1.2	U	14 J	U	5.6 J	U	0.98 J	U	U	U
m,p-xylene (sum of isomers)	4,400	440	U	1.1 J	2.7	0.33 J	6.2	U	0.98 J	0.68 J	0.20 J	U	0.72 J	0.49 J
methyl butyl ketone	NA	NA	U	U	U	U	0.56 J	1.5	0.33 J	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	U	8.7 J	U	0.42 J	6.7 B	U	15	1.2 J	2.2	U	2	U
methyl isobutyl ketone	130,000	13,000	U	U	U	U	U	U	0.25 J	U	0.11 J	U	0.95 J	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	U	0.92	0.56	0.50 J	2.0 J	0.98 J	1.3 J	0.92 J	U	0.82 J	0.75 J	1.2 J
naphthalene	3.6	0.36	U	U	U	U	3.1 J	U	U	U	U	U	0.37 J	U
n-Butane	NA	NA	NA	NA	NA	1.8	24	1.4	1.3	4.7	U	1.4	0.88 J	1.6
n-Propylbenzene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	0.14 J	U
o-xylene	4,400	440	U	0.44 J	0.97	0.12 J	2.2	U	0.43 J	0.21 J	U	U	0.28 J	U
styrene	44,000	4,400	U	U	U	U	1.2 J	U	0.25 J	U	U	U	U	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.2 J	U	0.73 J	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	U	U	U	U	U	0.91 J	U	U	U	U	U
tetrahydrofuran	NA	NA	U	1.3	U	U	8.2 J	U	U	U	U	U	U	U
toluene	220,000	22,000	1	5.8	3.5	0.73 J	20	0.39 J	5.6	1.9	0.37 J	0.49 J	0.73 J	1
trichloroethylene (tce)	30	3	0.98	2.6	0.60 J	U	U	U	U	1.2	0.53 J	U	U	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
▭ Exceedance of the indoor or outdoor initial benchmark.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-3
Buildings 774/776
SSVM System Performance Monitoring Influent Air Results

Sample Location	774776- Influent													
Sample ID	**774776CA01AA**	**774776CA01AB**	**774776CA01AC**	**774776CA01AD**	**774776CA01AE**	**774776CA01AF**	**774776CA01AG**	**774776CA01AH**	**774776CA01IA**	**774776CA01JA**	**774776CA01KA**	**774776CA01LA**	**774776CA01MA**	**774776CA01NA**
Sample Type	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**
Sample Date	**6-Jun-2011**	**23-Aug-2011**	**14-Oct-2011**	**14-Oct-2011**	**25-Oct-2011**	**24-Jan-2012**	**3-Aug-2012**	**15-Feb-2013**	**7-Aug-2013**	**28-Jan-2014**	**16-Jul-2014**	**20-Jan-2015**	**28-Aug-2015**	**1-Feb-2016**
Sample Depth (ft bgs / ags)	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Sample Collection Duration (hr)	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**
Volatiles (TO-15) in µg/m^3														
1,1,1-trichloroethane	6.6	4.0	6.9	6.1	6.5	5.0 J	2.9	0.91 J	1.8	U	U	1.8	1.6 M	U
1,2,4-trimethylbenzene	9.5	3.1	U	U	1.7	U	0.69 J	U	0.56 J	U	U	U	1.4	U
1,3,5-trimethylbenzene	4.7	2.2	U	U	0.55 J	U	U	U	U	U	U	U	0.42 J	U
1,3-dichlorobenzene	U	U	U	U	U	U	0.81 J	U	U	U	U	U	U	U
2,2,4-trimethylpentane	U	U	U	U	U	U	U	U	0.23 J	U	U	U	1.1	U
4-ethyltoluene	6.9	1.0	U	U	U	U	U	U	U	U	U	U	0.55 J	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	0.34 J	U	0.35 J	U	U	U	0.49 J	U
acetone	50	30	300	440	27	16 J	23 B	28	35	19 J	63	7.6 J	36	10 J
benzene	0.45 J	4.1	0.42 J	0.7	0.97	1.8 J	0.30 J	0.25 J	0.33 J	3.9	0.65 J	0.53 J	0.37 J	0.84 J
carbon disulfide	0.73	U	U	U	U	U	0.46 J	0.21 J	U	U	U	0.44 J	1.5 J	U
carbon tetrachloride	U	U	U	U	0.96	U	0.54 J	1.8	0.51 J	U	1.5 J	U	1.5	U
chloroform	15	4.3	3.6	5.0	4.6	3.6 J	4.9	2.2	5.7	0.93 J	4.4 J	1.8	2.4	U
chloromethane	U	U	U	U	U	U	0.71 J	1.5	0.61 J	2.0 J	1.7 J	0.96 J	0.58 J	1 J
cis-1,2-dichloroethene	1.80	U	U	U	U	U	U	U	U	U	U	U	U	U
cumene	NA	NA	NA	NA	NA	U	U	U	U	U	0.98 J	0.26 J	0.14 J	U
cyclohexane	U	U	U	U	U	U	0.36 J	0.38 J	0.14 J	U	U	U	0.14 J	U
ethylbenzene	0.62 J	0.93	U	U	0.79	U	0.38 J	U	0.47 J	U	0.32 J	U	1.2	U
freon 11 (trichlorofluoromethane)	50	130	83	59	49	40	61	29	35	14	24	28	42	20
freon 113 (freon TF)	U	1.9	1.1 J	1.0 J	U	U	0.82 J	0.5 J	0.65 J	U	U	U	U	U
freon 12 (dichlorodifluoromethane)	3.7	16	6.1	6.1	6.4	11 J	7.1	4.7	6.5	4.4 J	6.9 J	4.5	6.8	3.4 J
freon 22	NA	NA	NA	NA	NA	320	94	33	45	42	510	U	3.3	280
heptane	0.83	12	U	U	0.87	1.9 J	0.37 J	U	0.30 J	2.5 J	U	U	U	U
hexane	U	U	U	U	U	U	0.66 J	0.27 J	0.27 J	U	U	0.17 J	0.3 J	U
isopropyl alcohol	U	U	U	U	U	U	7.9 J	2.1 J	13	U	10 J	2.4 J	11 J	U
m,p-xylene (sum of isomers)	1.3 J	3.3	U	U	2.4	U	0.99 J	U	1.4 J	U	0.50 J	0.13 J	4	2.6 J
methyl ethyl ketone	14	4.4	300	400	15	4.8 J	2.5 B	0.45 J	5	U	4.7 J	U	4	U
methyl isobutyl ketone	U	U	U	U	U	U	0.28 J	U	0.46 J	U	U	U	U	U
methylene chloride	2.2	U	U	U	U	U	0.64 J	1 J	0.41 J	3.8 J	U	0.5 J	U	U
naphthalene	U	U	U	U	U	U	1.9 J	U	U	U	U	U	U	U
n-Butane	NA	NA	NA	NA	NA	2.9 J	1.7	3.4	1.1 J	7.3	U	1.7	1.7	1.7 J
n-Propylbenzene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	0.3 J	U
o-xylene	0.84	1.8	U	U	1.0	U	0.42 J	U	0.53 J	U	U	U	1.4	U
styrene	U	U	U	U	U	U	0.15 J	U	0.14 J	U	U	U	0.15 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	U	U	1.9 J	U	U	U	0.65 JM	U
tetrachloroethylene (pce)	3.4	2.4	2.3	12	3.5	U	1.5	U	1.1 J	U	1.6 J	0.84 J	0.69 J	U
tetrahydrofuran	120	6.0	600	770	5.2	U	1.4 J	1.8 J	0.24 U	U	U	U	0.91 J	U
toluene	1.8	2.2	0.96	1.4	2.2	0.83 J	1.2	0.17 J	1.1	0.67 J	0.72 J	0.22 J	1.1	2.3 J
trichloroethylene (tce)	510	240	670	1,200	650	300	190	20	120	32	97	100	82	60
vinyl chloride	U	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m^3: microgram per cubic meter.
B - Analytes detected in the trip blank.

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* (µg/m³)	Indoor Air Screening Level* (µg/m³)	785VMP-2												
Sample ID			**785VMP0202AD**	**785VMP0202AE**	**785VMP0202AF**	**785VMP0202AG**	**785VMP0202AH**	**785VMP0202IA**	**785VMP0202JA**	**785VMP0202KA**	**785VMP0202LA**	**785VMP0202MA**	**785VMP0202NA**	**785VMP0202PA**	**785VMP0202QA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**18-Mar-2011**	**24-Aug-2011**	**24-Oct-2011**	**31-Jan-2012**	**8-Aug-2012**	**6-Mar-2013**	**9-Aug-2013**	**3-Oct-2013**	**29-Jan-2014**	**18-Jul-2014**	**26-Jan-2015**	**1-Sep-2015**	**2-Feb-2016**
Sample Depth (ft bgs / ags)			**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in µg/m³															
1,1,1-trichloroethane	220,000	22,000	U	U	U	0.57 J	U	U	U	0.43 J	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	1.5	1.4	U	U	3.7	1.6	U	U	U	1.4 J	0.72 J	3.9	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	U	U	U	1.0	0.46 J	U	U	U	0.38 J	U	1.1	U
1,3-butadiene	4.1	0.41	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	3.0	37	U	U	U	3.1	U	2.2	U
1,4-dichlorobenzene	23,360	2,336	U	1.5	U	U	U	U	U	U	U		U	0.21 J	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	0.36 J	U	6.6 J♦	U	U	U
2,2,4-trimethylpentane	NA	NA	U	U	1.2	U	1.5	5.8	0.17 J	U	U	U	U	U	0.2 J
4-ethyltoluene	NA	NA	0.65 J	U	U	U	1.2	0.65 J	U	U	U	0.30 J	U	0.98	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	0.33 J	U	U	U	U	U	U	0.45 J	U
acetone	1,400,000	140,000	10	17	3.2	0.76 J	12 JB	4.5 J	15	8.7 J	3.2 J	28	7.7 J	14	8.6 J♦
benzene	16	1.6	2.9	0.65	2.2	U	U	U	0.64	0.16 J	0.72	0.68 J	0.37 J	0.25 J	0.5 J
bromodichloromethane	3.3	0.33	U	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	0.82	0.63	U	U	0.86 J	U	0.70 J	0.41 J	0.43 J	4.7	0.65 J	4.8	0.6 J
carbon tetrachloride	20	2	U	U	0.70 J	0.49 J	0.46 J	0.44 J	0.46 J	U	0.33 J	0.86 J	0.42 J	0.57 J	0.4 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	1.5	U	U	U	U	U	0.16 J	0.55 J	0.24 J	26 J	U	0.28 J	U
chloromethane	3,900	390	1.4	1.1	U	3.5	37	0.21 J	8.8	3.7	5.1	12 J	2.2	4.2	0.6 J♦
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	0.5 J	0.24 J	2.0	U	0.16 J	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	0.19 J	U	0.61 J	U
cyclohexane	260,000	26,000	1.3	0.94	1.9	U	U	6.8	U	U	U	U	U	U	U
dibromochloromethane	10	NA	U	U	U	U	U	U	U	U	U	U	U	U	U
ethylbenzene	49	4.9	1.5	U	0.75	U	1.2	1.8	0.49 J	0.14 J	0.27 J	0.76 J	0.42 J	5.8	U
freon 11 (trichlorofluoromethane)	31,000	3,100	1	1.8	1.5	1.4	1.3	1.3	1.2	1.1	1.1 J	2.7	1.2	1.4	1.1
freon 113 (freon TF)	1,300,000	130,000	U	0.78 J	U	0.58 J	0.59 J	0.61 J	0.59 J	0.79 J	0.88 J	2.6 J	0.42 J	0.68 J	U
freon 114 (1,2-dichlorotetrafluoroethane)	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.8	3.1	2.6	2.9	2.4 J	2.3 J	2.5	2.3 J	3.1	4.6 J	2.4 J	2.7	1.8 J
freon 22	2,200,000	220,000	NA	NA	NA	U	U	0.81 J	0.90 J	0.83 J	U	2.0 J	0.75 J	0.95 J	0.8 J
heptane	NA	NA	2.1	U	1.8	U	3.8	3.4	0.22 J	U	U	U	U	U	0.3 J♦
hexane	31,000	3,100	6.9	U	6.1	U	1.3	9.8	0.18 J	0.2 J	U	7.5	0.74	0.23 J	0.3 J
isopropyl alcohol	NA	NA	U	U	U	U	13	470	2.4 J	U	U	29	U	4.2 J	U
m,p-xylene (sum of isomers)	4,400	440	4.7	0.93 J	2.3	0.21 J	4.5	6.8	0.93 J	0.35 J	0.63 J	1.6 J	1.1 J	6.5	0.4 J
methyl butyl ketone	NA	NA	U	U	U	U	0.47 J	U	1.0 J	0.25 J	U	1.2 J♦	U	0.77 J	0.4 J♦
methyl ethyl ketone	220,000	22,000	3	4.1	U	U	3.3 B	6.3	7.1	U	U	10	2.2	3.6	2.1 ♦
methyl isobutyl ketone	130,000	13,000	U	U	U	U	1.0 J	U	1.2 J	1.5	U	1.2 J	U	0.96 J	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	0.38 J	U	U	U
methylene chloride	12,000	1,200	1.4	U	U	U	2.4	U	0.40 J	0.41 J	U	0.45 J♦	U	U	0.7 J♦
naphthalene	3.6	0.36	U	U	U	U	2.2 J	U	U	U	U	U	U	0.54 J	U
n-Butane	NA	NA	NA	NA	NA	0.64 J	6.3	0.52 J	1.3	1 J	1.6	2.9	U	1 J	0.7 J
n-Propylbenzene	NA	NA	NA	NA	NA	U	0.68 J	U	U	U	U	U	U	0.78 J	U
o-xylene	4,400	440	1.3	U	0.71	U	1.6	2.4	0.27 J	0.14 J	0.23 J	0.68 J	0.53 J	2.9	0.2 J♦
styrene	44,000	4,400	U	U	U	U	0.46 J	0.37 J	U	U	U	0.29 J	U	0.52 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.8 J	U	2.7 J	1.6 J	U	8.9 J	U	3.3 J	U
tetrachloroethylene (pce)	470	47	U	U	U	U	0.73 J	0.58 J	0.51 J	U	U	U	U	U	U
tetrahydrofuran	NA	NA	8.2	11	U	4.6 J	87	U	68	46	13 J	95 J	8.2 J	21	U
toluene	220,000	22,000	15	3.3	6.2	0.36 JB	3.8	7.5	2.3	0.47 J	1.1	1.9	1.3 J	2.1	0.6 J
trichloroethylene (tce)	30	3	U	19	8.9	1.0 J	9.1	0.68 J	7.2	37	6.1	400	0.6 J	15	1.1
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m³: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
* EPA Commercial Regional Screening Levels (http://www.epa.gov/reg3hscd/risk/human/rb-concentration_table/Generic_Tables/index.htm)

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* (µg/m³)	Indoor Air Screening Level* (µg/m³)	785VMP-4													
Sample ID			**785VMP0401AA**	**785VMP0401AB**	**785VMP0401AC**	**785VMP0401AD**	**785VMP0401AG**	**785VMP0401HA**	**785VMP0401IA**	**785VMP0401JA**	**785VMP0401KA**	**785VMP0401LA**	**785VMP0401NA**	**785VMP0401PA**	**785VMP0401QA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**18-Mar-2011**	**24-Aug-2011**	**24-Oct-2011**	**31-Jan-2012**	**8-Aug-2012**	**6-Mar-2013**	**9-Aug-2013**	**3-Oct-2013**	**28-Feb-2014**	**18-Jul-2014**	**26-Jan-2015**	**1-Sep-2015**	**2-Feb-2016**
Sample Depth (ft bgs / ags)			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in µg/m³															
1,1,1-trichloroethane	220,000	22,000	1.7	0.72 J	U	U	0.40 J	U	0.28 J	0.93 J	0.56 J	U	U	U	U
1,2,4-trimethylbenzene	310	31	0.95	6.7	1.8	0.45 J	15	1.4	1.4	1.1 J	0.20 J	U	0.51 J	11 D	29
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	2.1	0.50 J	U	3.9	0.49 J	0.39 J	U	0.072 J	U	U	3.1 JD	9
1,3-butadiene	4.1	0.41	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	30	1.8	U	U	U	U	U	U
1,4-dichlorobenzene	23,360	2,336	U	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U	2.7 J
2,2,4-trimethylpentane	NA	NA	U	1.5	3.9	0.58 J	U	5.5	0.71 J	U	U	U	U	U	0.5 J
4-ethyltoluene	NA	NA	U	2.7	0.85	U	3.6	0.49 J	0.31 J	U	U	U	U	4.2 JD	12
4-isopropyltoluene	NA	NA	NA	NA	NA	U	1.6	U	U	1.1 J	U	U	U	U	0.23 J
acetone	1,400,000	140,000	15	16	U	4.9 J	44	8.1 J	73	120	7.2 J	7900	22	120 D	51
benzene	16	1.6	4.9	4.2	8.4	0.64	0.57 J	0.61 J	0.58 J	0.89 J	0.58 J	U	0.63 J	0.75 JDM	2.8
bromodichloromethane	3.3	0.33	2.6	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	4.8	13	9.2	1.1 J	12	0.48 J	2.7	8.3	2.0	U	1.6	21 D	2.6
carbon tetrachloride	20	2	U	U	U	0.51 J	0.47 J	0.43 J	0.39 J	U	U	U	0.46 J	0.53 JD	0.38 J
chlorobenzene	2,200	220	U	0.66 J	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	91	0.79	U	U	0.47 J	U	0.33 J	0.74 J	2.5	U	U	1.7 JDM	U
chloromethane	3,900	390	U	U	U	U	0.30 J	0.15 J	0.29 J	0.43 J	U	U	U	U	0.42 J
cis-1,2-dichloroethene	NA	NA	2.3	U	U	U	U	U	U	0.75 J	U	U	U	5.1 D	1.8
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	1.5 J	U	U	U	0.57 JD	2.1
cyclohexane	260,000	26,000	6.2	9.4	8.0	0.34 JB	2.1	6.8	1.5	U	U	U	U	U	U
dibromochloromethane	10	NA	U	U	U	0.34 JB	2.1	6.8	1.5	U	U	U	U	U	U
ethylbenzene	49	4.9	1.1	6.1	4.9	0.58 J	3.9	3.1	1.9	1.8	0.39 J	U	0.41 J	4.5	12
freon 11 (trichlorofluoromethane)	31,000	3,100	0.86	1.7	1.3	1.4	1.4	1.3	1.1	1.3 J	0.83 J	U	1.1	1.5 J	1 J
freon 113 (freon TF)	1,300,000	130,000	1.1 J	0.86 J	U	0.58 J	0.69 J	0.64 J	0.60 J	0.91 J	0.97 J	U	0.55 J	U	U
freon 114 (1,2-dichlorotetrafluoroethane)	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.9	2.8	2.5	2.9	2.6	2.6	2.3 J	U	2.5	U	2.4 J	3.1 J	1.7 J
freon 22	2,200,000	220,000	NA	NA	NA	U	U	0.77 J	0.88 J	U	0.75 J	U	0.82 J	U	0.74 J
heptane	NA	NA	3.6	5.3	8.2	0.45 JB	1.1	3.6	0.69 J	U	U	U	U	U	2.5
hexane	31,000	3,100	8.2	7.9	13	0.91 B	1.4	9.3	0.57 J	6	0.69	U	1	U	1.2
isopropyl alcohol	NA	NA	U	U	0.62	2.3 J	15	190	5.5 J	10 J	1.3 J	U	U	U	U
m,p-xylene (sum of isomers)	4,400	440	2.7	14	14	1.1 J	3.4	8.7	2.8	1.9 J	0.73 J	U	1.2 J	16	38
methyl butyl ketone	NA	NA	U	U	U	U	0.94 J	U	0.61 J	1.2 J	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	2.3	2.7	U	0.82 J	10 B	4.4	14	19	U	2300	7.6	55	14
methyl isobutyl ketone	130,000	13,000	U	U	U	U	1.3 J	U	1.7 J	U	2.9	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	0.95	U	U	0.43 J	0.82 J	0.52 J	0.95 J	1.7 J	U	U	0.76 J	U	0.68 J
naphthalene	3.6	0.36	U	U	U	U	0.68 J	U	0.72 J	U	U	U	U	U	U
n-Butane	NA	NA	NA	NA	NA	4.6	3.8	0.44 J	0.91 J	1.6 J	U	U	1.2	U	0.41 J
n-Propylbenzene	NA	NA	NA	NA	NA	U	1.5	U	0.31 J	U	U	U	U	2.6 J	7.9
o-xylene	4,400	440	0.84	5.1	2.8	0.46 J	1.7	3.4	1.1	0.8 J	0.41 J	U	0.48 J	5.3	17
styrene	44,000	4,400	U	U	U	U	0.30 J	0.35 J	0.34 J	0.33 J	U	U	U	1.4 J	5.5
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.8 J	U	1.2 J	2.2 J	U	U	U	U	3.4 J
tetrachloroethylene (pce)	470	47	U	U	1.0	U	1.2 J	0.62 J	0.34 J	0.4 J	U	U	U	U	0.24 J
tetrahydrofuran	NA	NA	U	U	U	U	3.4 J	U	U	0.95 J	U	20,000	19	360	52
toluene	220,000	22,000	26	23	42	2.2 B	5.9	8.1	3.3	4.2	1.2	U	1.9	6.7	15
trichloroethylene (tce)	30	3	720	88	33	3.5	39	3	17	54	27	170 J	1.2	33	6
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m³: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
* EPA Commercial Regional Screening Levels (http://www.epa.gov/reg3hscd/risk/human/rb-concent

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* (µg/m³)	Indoor Air Screening Level* (µg/m³)	785VMP-5											
Sample ID			785VMP0501AA	785VMP0501AB	785VMP0501AC	785VMP0501AD	785VMP0501FA	785VMP0501GA	785VMP0501HA	785VMP0501IA	785VMP0501JA	785VMP0501NA	785VMP0501PA	785VMP0501PA
Sample Type			sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab
Sample Date			25-Aug-2011	24-Oct-2011	31-Jan-2012	8-Aug-2012	6-Mar-2013	9-Aug-2013	3-Oct-2013	29-Jan-2014	18-Jul-2014	26-Jan-2015	1-Sep-2015	2-Feb-2016
Sample Depth (ft bgs / ags)			1	1	1	1	1	1	1	1	1	1	1	1
Sample Collection Duration (hr)			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Volatiles (TO-15) in µg/m³														
1,1,1-trichloroethane	220,000	22,000	4.8	1.8	0.53 J	0.74 J	U	0.54 J	1.4	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	2.2	1.4	U	0.69 J	0.71 J	U	U	0.55 J	U	1.1 J	9.3 D	0.35 JD
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	0.28 J	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	0.85	U	U	U	0.31 J	U	U	U	U	U	2.4 JD	U
1,3-butadiene	4.1	0.41	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	17	U	U	U	U	U	U	U
1,4-dichlorobenzene	23,360	2,336	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	0.48 J	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	1.4	1.3	0.92	6.5	0.96	U	U	U	U	U	U
4-ethyltoluene	NA	NA	0.50 J	U	U	U	0.34 J	U	U	U	U	U	2.6 JD	U
4-isopropyltoluene	NA	NA	NA	NA	U	0.64 J	U	U	U	U	U	U	U	U
acetone	1,400,000	140,000	21	4.3	2.3 J	20 B	6.8 J	8.2 J	2.8 J	10 J	2600	54	77 D	23 D
benzene	16	1.6	0.39 J	2.6	0.64	0.50 J	0.69	0.38 J	0.27 J	0.62	U	3.3	8.6 D	3.5 D
bromodichloromethane	3.3	0.33	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	0.38 J	U	U	2.7	U	U	U	U	U	U	6.8 JD	11 D
carbon tetrachloride	20	2	U	U	0.48 J	0.45 J	0.48 J	0.31 J	0.38 J	0.39 J	U	U	0.92 JD	0.42 JDM
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	2.8	0.74	U	U	U	0.19 J	0.21 J	U	46 J	U	U	U
chloromethane	3,900	390	U	U	U	0.97 J	0.85 J	0.48 J	0.42 J	1.4	U	U	U	0.36 JD
cis-1,2-dichloroethene	NA	NA	2.1	U	U	U	U	0.41 J	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	0.41 J	U	U	U	U	U	U	U	1.2 JD	U
cyclohexane	260,000	26,000	U	2.9	1.1 B	U	U	U	U	U	U	U	U	U
dibromochloromethane	10	NA	U	U	U	U	U	U	U	U	U	U	U	U
ethylbenzene	49	4.9	2.3	1.6	1.8	3.8	2.1	U	0.7 J	0.55 J	U	2.2 J	6.7	0.57 J
freon 11 (trichlorofluoromethane)	31,000	3,100	2.2	2.3	1.4	1.5	1.4	1.5	1.4	1.4	U	U	1.5 J	1 J
freon 113 (freon TF)	1,300,000	130,000	0.86 J	U	U	0.58 J	0.62 J	0.50 J	0.58 J	0.60 J	U	U	U	U
freon 114 (1,2-dichlorotetrafluoroethane)	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.9	2.5	2.8	2.4 J	2.6	2.2 J	2.4 J	3.2	U	2.2 J	2.9 J	1.9 J
freon 22	2,200,000	220,000	NA	NA	U	U	0.95 J	0.90 J	U	1.2 J	U	U	U	0.73 J
heptane	NA	NA	U	1.9	0.70 JB	1.4	3.4	0.92	U	0.56 J	U	U	U	U
hexane	31,000	3,100	U	U	3.5 B	1.3	9.9	1.4	0.18 J	0.83	U	U	U	U
isopropyl alcohol	NA	NA	8.2	U	U	2.1 J	290	15	U	22	U	8.1 J	U	U
m,p-xylene (sum of isomers)	4,400	440	8.2	5.8	3.6	14	7.5	U	2 J	1.5 J	U	6 J	21	1.3 J
methyl butyl ketone	NA	NA	U	U	U	0.86 J	U	U	U	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	2	U	0.37 J	4.3 B	3.9	0.49 J	U	1.5	1200	13	U	4.9
methyl isobutyl ketone	130,000	13,000	U	U	U	0.49 J	U	U	0.48 J	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	3.7	U	U	0.59 J	0.6 J	0.43 J	1.7 J	0.72 J	U	U	U	U
naphthalene	3.6	0.36	U	U	U	0.46 J	U	U	U	U	U	U	U	U
n-Butane	NA	NA	NA	NA	4.8	4.4	1.5	0.57 J	0.64 J	3.0	U	U	U	U
n-Propylbenzene	NA	NA	NA	NA	U	U	U	U	U	U	U	U	1.5 J	U
o-xylene	4,400	440	3	1.5	1.7	4.7	2.4	U	0.63 J	0.58 J	U	2.1 J	8.1	0.46 J
styrene	44,000	4,400	U	U	U	0.64 J	U	U	U	0.58 J	U	3.9	22	1.1 J
tert-Butyl alcohol	NA	NA	NA	NA	U	0.96 J	U	0.55 J	U	2.5 J	U	U	U	U
tetrachloroethylene (pce)	470	47	2.2	U	U	U	U	U	0.3 J	U	U	U	U	U
tetrahydrofuran	NA	NA	U	U	0.21 J	0.41 J	U	U	U	U	6900	230	540	67
toluene	220,000	22,000	2.1	7.4	1.6 B	3.7	4.9	1.2	0.69 J	3.2	U	U	2.6 J	0.77 J
trichloroethylene (tce)	30	3	610	140	18	20	1.1	7	73	1.2	510	41	150	7.3
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m³: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
* EPA Commercial Regional Screening Levels (http://www.epa.gov/reg3hscd/risk/human/rb-concent

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* (µg/m³)	Indoor Air Screening Level* (µg/m³)	785-1A											
Sample ID			**785IA05**	**785IA06**	**785IA07**	**785IA08**	**785IA09**	**785IA10**	**785IA11**	**785IA12**	**785IA13**	**785IA14**	**785IA15**	**785IA1QA**
Sample Type			**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**
Sample Date			**24-Aug-2011**	**24-Oct-2011**	**27-Jan-2012**	**8-Aug-2012**	**6-Mar-2013**	**9-Aug-2013**	**3-Oct-2013**	**28-Jan-2014**	**17-Jul-2014**	**26-Jan-2015**	**1-Sep-2015**	**1-Feb-2016**
Sample Depth (ft bgs / ags)			**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**
Sample Collection Duration (hr)			**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**8**
Volatiles (TO-15) in µg/m³														
1,1,1-trichloroethane	220,000	22,000	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	1.7	1.4	U	0.37 J	U	0.49 J	U	U	0.42 J	0.21 J	2.4	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	U	U	U	U	U	U	U	0.15 J	U	0.54 J	U
1,3-butadiene	4.1	0.41	U	U	U	U	0.32 J	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	23,360	2,336	U	U	U	U	U	U	U	U	0.11 J		U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	11 J	U	U	U
2,2,4-trimethylpentane	NA	NA	U	0.52 J	0.29 J	U	U	U	U	U	U	U	0.24 J	0.25 J
4-ethyltoluene	NA	NA	U	U	U	U	U	U	U	U	0.12 J	U	0.61 J	U
4-isopropyltoluene	NA	NA	NA	NA	U	U	U	U	U	U	0.56 J	U	U	U
acetone	1,400,000	140,000	35	11	2.6 J	16 B	9.3 J	9.7 J	6.6 J	U	19	U	9.3 J	4.3 J
benzene	16	1.6	U	1.3	0.58 J	0.36 J	U	U	0.31 J	0.48 J	0.30 J	0.64	0.37 JM	0.48 J
bromodichloromethane	3.3	0.33	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	U	U	U	U	U	U	U	0.76 J	6.8	U	0.92 J	0.29 J
carbon tetrachloride	20	2	U	U	0.53 J	0.44 J	U	0.48 J	0.43 J	0.49 J	0.51 J	0.47 J	0.45 J	0.37 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U		U	U	0.3 J	U	U	U	U	U
chloroform	5.3	0.53	U	4.7	U	U	U	U	0.39 J	U	U	U	U	U
chloromethane	3,900	390	U	U	1.2	1.1	1.2	1	1.9	1.6	1.5	1.1	0.97 J	1
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	U	0.84	U	U	U
cumene	18,000	1,800	NA	NA	U	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	U	U	0.34 JB	U	U	U	U	U	U	U	0.41 JM	U
dibromochloromethane	10	NA	U	U	U	U	U	U	U	U	U	U	U	U
ethylbenzene	49	4.9	U	0.75	0.13 J	0.22 J	U	0.19 J	0.13 J	U	0.69 J	0.21 J	0.52 J	U
freon 11 (trichlorofluoromethane)	31,000	3,100	1.7	1.3	1.4	1.3	1.4	1.3	1.2	1.4	1.5	1.2	1.2	0.99 J
freon 113 (freon TF)	1,300,000	130,000	U	U	0.54 J	0.58 J	0.65 J	0.59 J	0.56 J	0.63 J	0.69 J	0.45 J	0.47 J	U
freon 114 (1,2-dichlorotetrafluoroethane)	NA	NA	U	U	U	U	U	U	U	U	U	U	5.7	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.8	2.3	2.8	2.3 J	2.6	2.3 J	2..5	3.0	2.6	2.6	3.4	1.7 J
freon 22	2,200,000	220,000	NA	NA	U	U	1 J	1.0 J	U	1.1 J	1.1 J	0.84 J	1.4 J	0.74 J
heptane	NA	NA	U	0.71	0.37 JB	0.70 J	U	U	U	U	U	U	0.43 JM	0.24 JM
hexane	31,000	3,100	U	2.3	2.0 B	0.75	U	U	0.28 J	U	0.29 J	2.2	0.99	0.47 J
isopropyl alcohol	NA	NA	24	U	U	0.84 J	U	U	U	U	2.1 J	U	U	U
m,p-xylene (sum of isomers)	4,400	440	1.0 J	2.4	0.29 J	0.65 J	U	0.66 J	0.33 J	U	2.1 J	0.53 J	2.2	U
methyl butyl ketone	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	3.2	U	0.30 J	2.3 B	1.1 J	1.7	1.1 J	1.0 J	3.9	U	1.2 J	0.95 J
methyl isobutyl ketone	130,000	13,000	U	U	U	0.38 J	U	0.37 J	U	U	0.37 J	U	2.3	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	0.85	U	U	0.51 J	U	U	0.63 J	0.69 J	U	0.88 J	1.4 J	0.73 J
naphthalene	3.6	0.36	U	U	U	U	U	U	U	U	U	U	0.22 J	U
n-Butane	NA	NA	NA	NA	2.0	2.5	1.3	0.70 J	1.1 J	1.4	U	5.9	7.4	1.1 J
n-Propylbenzene	NA	NA	NA	NA	U	U	U	U	U	U	U	U	0.37 J	U
o-xylene	4,400	440	U	0.75	0.11 J	0.22 J	U	0.25 JM	0.14 J	U	0.40 J	0.2 J	1.2	U
styrene	44,000	4,400	U	U	U	U	U	U	U	U	U	U	0.069 J	U
tert-Butyl alcohol	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	21	U	U	U	U	U	U	U	U	U	U
tetrahydrofuran	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
toluene	220,000	22,000	4.2	4.0	1.4 B	1.3	U	0.84	0.75	0.33 J	1.3	0.97	0.89	3
trichloroethylene (tce)	30	3	1.1	U	U	U	U	U	U	U	0.88 J	U	U	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m³: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
* EPA Commercial Regional Screening Levels (http://www.epa.gov/reg3hscd/risk/human/rb-concent

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* (µg/m³)	Indoor Air Screening Level* (µg/m³)	785/786-OA											
Sample ID			**785OA01**	**785786OA02**	**785786OA03**	**785786OA04**	**785786OA05**	**785786OA06**	**785786OA07**	**785786OA08**	**785786OA09**	**785786OA10**	**785786OA11**	**785786OA1QA**
Sample Type			**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**	**Outdoor**
Sample Date			**24-Aug-2011**	**24-Oct-2011**	**27-Jan-2012**	**8-Aug-2012**	**6-Mar-2013**	**9-Aug-2013**	**3-Oct-2013**	**28-Jan-2014**	**17-Jul-2014**	**26-Jan-2015**	**1-Sep-2015**	**1-Feb-2016**
Sample Depth (ft bgs / ags)			**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**
Sample Collection Duration (hr)			**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**8**
Volatiles (TO-15) in µg/m³														
1,1,1-trichloroethane	220,000	22,000	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	1.3	2.6	U	0.73 J	U	U	U	U	0.073 J	U	0.091 J	U
1,2-dichloroethane	4.7	0.47	U	U	U	2.6	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,3-butadiene	4.1	0.41	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	23,360	2,336	U	U	U	U	U	U	U	U	U		U	U
1,4-dioxane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	U	0.76	0.34 J	0.56 J	U	0.23 J	U	U	U	U	U	U
4-ethyltoluene	NA	NA	U	0.65 J	U	U	U	U	U	U	U	U	U	U
4-isopropyltoluene	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
acetone	1,400,000	140,000	39	12	19	150	4 J	22	8.5 J	3.3 J	6.2 J	U	12 J	4 J
benzene	16	1.6	0.39 J	1.8	0.56 J	0.80 J	0.78	0.32 J	U	0.53 J	0.14 J	0.5 J	0.3 J	0.37 JM
bromodichloromethane	3.3	0.33	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	U	U	U	0.78 J	U	0.57 J	U	U	0.59 J	U	0.8 J	2.8
carbon tetrachloride	20	2	U	U	0.52 J	U	0.54 J	0.47 J	0.4 J	0.56 J	0.30 J	0.5 J	0.45 J	0.41 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	U	U	U	U	U	U	U	U	U	U	U	U
chloromethane	3,900	390	U	U	1.2	1.2 J	1.4	1.0 J	1.1 J	1.7	1.2	1.3	0.93 J	1.1
cis-1,2-dichloroethene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	U	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	0.77	U	U	U	U	U	U	U	U	U	U	U
dibromochloromethane	10	NA	U	U	U	U	U	U	U	U	U	2.8	U	U
ethylbenzene	49	4.9	U	1.3	U	1.4 J	U	0.13 J	U	U	U	U	0.099 J	U
freon 11 (trichlorofluoromethane)	31,000	3,100	1.7	1.4	1.4	1.4 J	1.4	1.2	1.2	1.5	1.2	1.3	1.2	1.1 J
freon 113 (freon TF)	1,300,000	130,000	U	U	0.59 J	0.70 J	U	0.55 J	0.54 J	0.70 J	0.54 J	0.49 J	0.49 J	U
freon 114 (1,2-dichlorotetrafluoroethane)	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.9	2.2	2.8	3.2 J	2.7	2.1 J	2.3 J	3.3	2.5	U	2.3 J	1.6 J
freon 22	2,200,000	220,000	NA	NA	U	U	0.92 J	0.99 J	U	1.3 J	0.84 J	0.93 J	0.96 J	0.72 J
heptane	NA	NA	U	1.2	0.55 JB	2.7	U	0.14 J	0.89 J	U	U	U	U	0.23 J
hexane	31,000	3,100	U	3.8	2.2 B	4.4	U	0.25 J	0.19 J	0.22 J	U	U	U	0.2 J
isopropyl alcohol	NA	NA	15	2.2	1.3 J	11 J	U	1.6 J	U	U	1.1 J	U	U	U
m,p-xylene (sum of isomers)	4,400	440	0.75 J	4.3	0.30 J	3.8 J	U	0.37 J	U	U	0.14 J	U	0.33 J	U
methyl butyl ketone	NA	NA	U	U	U	1.1 J	U	0.37 J	2.2	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	3.4	U	0.92 J	8.6 B	U	3.3	U	U	1.3 J	U	1.7	0.69 J
methyl isobutyl ketone	130,000	13,000	U	U	U	U	U	0.17 J	0.28 J	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	1.1	1.3	0.53 J	2.4 J	U	6.5	0.58 J	1.0 J	0.68 J	U	1.4 J	0.65 J
naphthalene	3.6	0.36	U	U	U	1.1 J	U	U	U	U	U	U	U	U
n-Butane	NA	NA	NA	NA	1.9	30	1.4	0.54 J	0.95 J	1.5	U	1.3	0.75 J	0.94 J
n-Propylbenzene	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
o-xylene	4,400	440	U	1.3	U	1.3 J	U	0.12 J	U	U	U	U	0.16 JM	U
styrene	44,000	4,400	U	U	U	0.74 J	U	U	U	U	U	U	U	U
tert-Butyl alcohol	NA	NA	NA	NA	U	1.8 J	U	0.93 J	U	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	U	U	1.7 J	U	U	U	U	U	U	U	U
tetrahydrofuran	NA	NA	U	U	U	5.9 J	U	U	U	U	U	U	U	U
toluene	220,000	22,000	2.3	7.2	0.57 JB	17	0.55 J	0.74	0.57 J	0.34 J	0.58 J	0.28 J	0.62 J	1.5
trichloroethylene (tce)	30	3	0.82	0.82	U	U	U	U	U	U	U	U	U	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m³: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
* EPA Commercial Regional Screening Levels (http://www.epa.gov/reg3hscd/risk/human/rb-concent

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location	Sub-slab Vapor Screening Level* ($\mu g/m^3$)	Indoor Air Screening Level* ($\mu g/m^3$)	786VMP-1												
Sample ID			786VMP0102AA	786VMP0102AB	786VMP0102AC	786VMP0102AD	786VMP0102AG	786VMP0102HA	786VMP0102IA	786VMP0102JA	786VMP0102KA	786VMP0102LA	786VMP0102NA	786VMP0102PA	786VMP0102QA
Sample Type			sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab	sub-slab
Sample Date			18-Jan-2011	24-Aug-2011	24-Oct-2011	27-Jan-2012	8-Aug-2012	6-Mar-2013	9-Aug-2013	3-Oct-2013	26-Feb-2014	18-Jul-2014	26-Jan-2015	1-Sep-2015	2-Feb-2016
Sample Depth (ft bgs / ags)			2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Sample Collection Duration (hr)			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Volatiles (TO-15) in $\mu g/m^3$															
1,1,1-trichloroethane	220,000	22,000	12	U	U	U	U	U	U	0.53 J	U	U	U	U	U
1,1-dichloroethane	77	7.7	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	U	U	0.59 J	U	U	0.65 J
1,2,4-trimethylbenzene	310	31	7.5	6.9	1.2	U	0.38 J	1.0	1.7	1.3	0.31 J	4.2	0.48 J	1.7	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	5.2	1.9	U	U	U	0.33 J	0.46 J	0.38 J	U	1.3 J	U	0.5 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	17 J	2.3	U	1.8 J	16	U	1.8	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	U	U	U	U	U	0.16 J	U
2-chlorotoluene	NA	NA	NA	NA	NA	U	U	U	U	U	U	0.30 J	U	U	U
2,2,4-trimethylpentane	NA	NA	19	0.95	3.8	1.9	U	7 J	1.3	U	U	1.2 J	U	U	U
4-ethyltoluene	NA	NA	3.2	2.7	0.65 J	U	U	0.29 J	0.54 J	0.23 J	U	1.4 J	U	0.59 J	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	0.27 J	U
acetone	1,400,000	140,000	31	20	U	3.3 J	7.8 JB	12 J	7.8 J	9.2 J	U	26	3.7 J	15	3.6 J
benzene	16	1.6	19	3.1	9.1	U	U	U	0.66	0.47 J	0.71 J	1.4	0.43 J	0.31 J	0.3 J
bromodichloromethane	3.3	0.33	4.0	U	U	U	U	U	U	U	U	U	U	U	U
bromomethane	220	22	U	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	15	0.63	U	U	0.65 J	U	0.56 J	2.6	U	8.2	U	0.69 JM	1 J
carbon tetrachloride	20	2	U	U	0.70 J	0.43 J	0.52 J	0.41 J♦	0.35 JM	0.37 J♦	U	0.53 J	U	0.78 J	0.2 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	0.90 J	U	U	U
chloroform	5.3	0.53	30	0.84	U	U	0.43 J	U	U	1.1	U	2.6	U	1.1	U
chloromethane	3,900	390	U	U	U	U	0.24 J	0.2 J	0.18 J	0.27 J	U	U	U	0.31 J	0.22 J
cis-1,2-dichloroethene	NA	NA	9.7	U	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	0.67 J	U	0.45 J	U
cyclohexane	260,000	26,000	U	2.5	5.7	2.8	U	8.7 J	U	0.25 J	U	2.7	U	U	0.14 J
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U	U
ethylbenzene	49	4.9	6.6	4.6	3.1	U	0.34 J	0.89	1	2	0.40 J	4.6	0.24 J	4.5	U
freon 11 (trichlorofluoromethane)	31,000	3,100	3.0	1.8	2.6	1.3	1.3	1.3	1.1	1.3	U	1.6 J	U	2.1	0.89 J
freon 113 (freon TF)	1,300,000	130,000	U	0.86 J	0.78 J	0.64 J	0.62 J	0.64 J	0.52 J	0.61 J	U	0.84 J	0.38 J	0.99 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	3.8	2.9	U	2.7	2.4 J	2.6 ♦	2.2 J♦	2.3 J	2.0 J	2.9 J	2.4 J	4	1.5 J
freon 22	2,200,000	220,000	NA	NA	NA	U	0.86 J	0.89 J♦	0.79 J♦	0.79 J	U	0.92 J	0.68 J	1.4 J	1 J
heptane	NA	NA	25	3.4	8.1	4.1	U	3.9 J	0.39 J♦	0.37 J	U	1.0 J	U	U	U
hexane	31,000	3,100	52	4.9	16	10	U	13 J	0.22 J♦	2.5	0.81 J	1.5	U	U	1.7
isopropyl alcohol	NA	NA	U	14	U	1.1 J	0.87 J	98 J	6.6 J	14	120	68	2.2 J	4.5 J	U
m,p-xylene (sum of isomers)	4,400	440	17	19	11	0.32 J	1.0 J	3.4	3.6	5.6	1.2 J	13	0.69 J	5	0.36 J
methyl butyl ketone	NA	NA	U	U	U	U	U	U	0.31 J♦	0.34 J	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	U	2.3	U	0.55 J	1.3 JB	4.1 J	1.4 J♦	3.6	U	11	U	2.3	1.1 J
methyl isobutyl ketone	130,000	13,000	U	U	U	3.5	U	U	U	1.2 J	U	1.4 J	U	0.88 J	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	2.8 J	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	1.3 J	U	U	U
methylene chloride	12,000	1,200	3.8	U	U	U	0.44 J	0.55 J	0.40 J♦	0.84 J	U	U	U	0.97 JM	0.66 J
naphthalene	3.6	0.36	U	U	U	U	U	U	0.98 J	0.85 J	U	U	U	0.99 J	0.58 J
n-Butane	NA	NA	NA	NA	NA	U	0.43 J	1.2 J♦	U	0.44 J	5.0	2.9	U	4.3	12
n-Propylbenzene	44,000	4,400	NA	NA	NA	U	U	U	U	U	U	1.0 J	U	0.46 J	U
o-xylene	4,400	440	7.5	4.9	2.0	0.11 J	0.39 J	1.3	1.4	1.6	1.7 J	4.3	0.14 J	2.0	0.38 J
styrene	44,000	4,400	U	U	U	U	0.20 J	0.2 J	0.37 J♦	0.43 J	U	2.5	U	0.45 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	U	U	0.69 J♦	1.8 J	U	16 J	U	4.1 J	U
tetrachloroethylene (pce)	470	47	140	3.7	2.0	2.4	1.5	0.5 J	0.71 J♦	3.3	U	8.3	U	6.4	0.83 J
tetrahydrofuran	NA	NA	U	U	U	U	0.43 J	U	U	2.5 J	U	7.5 J	U	U	U
toluene	220,000	22,000	35	15	29	0.61 J	1.5	3.7 J	3	4.2	3.0	14	0.85	2.5	U
trichloroethylene (tce)	30	3	4,900	84	49	13	24	9.1 J♦	16♦	140♦	26	270	U	160	41
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$ microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location			786VMP-2												
Sample ID	**Sub-slab Vapor Screening Level* ($\mu g/m^3$)**	**Indoor Air Screening Level* ($\mu g/m^3$)**	**786VMP0202AA**	**786VMP0202AB**	**786VMP0202AC**	**786VMP0202AE**	**786VMP0202AG**	**786VMP0202HA**	**786VMP0202IA**	**786VMP0202JA**	**786VMP0202KA**	**786VMP0202LA**	**786VMP0202NA**	**786VMP0202PA**	**786VMP0202QA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**18-Jan-2011**	**24-Aug-2011**	**24-Oct-2011**	**7-Feb-2012**	**8-Aug-2012**	**6-Mar-2013**	**9-Aug-2013**	**3-Oct-2013**	**29-Jan-2014**	**18-Jul-2014**	**26-Jan-2015**	**1-Sep-2015**	**2-Feb-2016**
Sample Depth (ft bgs / ags)			**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$															
1,1,1-trichloroethane	220,000	22,000	15	4.2	3.7	0.78 J	2.1	U	3.7	6.8	1.5	14	0.55 J	4.7	U
1,1-dichloroethane	77	7.7	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	0.75 J	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	4.5	7.5	1.6	0.62 J	1.2	1.4	1.5	U	0.49 J	U	0.16 J♦	2.4 ♦	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	1.7	3.1	0.55 J	0.26 J	0.33 J	0.44 J	0.41 J	0.25 J	U	U	U	0.63 J♦	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	28	1.9	0.28 J	4.9	U	U	1.3 ♦	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	U	U	U	U	U	0.12 J♦	U
2-chlorotoluene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	1.8	U	1.3	U	U	6.8	0.61 J	U	U	U	U	0.14 J	U
4-ethyltoluene	NA	NA	0.95	2	0.55 J	0.29 J	0.36 J	0.37 J	0.46 J	U	U	U	U	0.72 J♦	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	0.82 J♦	U
acetone	1,400,000	140,000	49	25	U	1.9 J	26 B	25	4.8 J	15	31 J♦	U	5.5 J	12 ♦	3.4 J
benzene	16	1.6	4.6	0.32 J	2.2	U	0.19 J	0.66	0.44 J	0.42 J	0.66 ♦	0.49 J	0.63	0.27 J	U
bromodichloromethane	3.3	0.33	7.4	3.2	1.7	0.32 J	1.3 J	U	0.70 J	0.96 J	U	2.1 J	U	0.86 J	U
bromomethane	220	22	U	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	5.3	1.4	0.41 J	U	0.64 J	U	0.62 J	0.45 J	U	1.1 J	U	26 ♦	0.14 J
carbon tetrachloride	20	2	U	U	U	0.44 J	0.53 J	0.41 J	0.47 J	0.34 J	U	U	0.32 J	0.57 J	U
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	620	100	72	12	31	2.4	55	58	11	160	3.8	31	3.1
chloromethane	3,900	390	U	U	U	U	0.27 J	U	0.28 J	0.19 J	U	U	U	2.9 ♦	0.37 J
cis-1,2-dichloroethene	NA	NA	1.4	U	U	U	U	U	0.34 J	0.32 J	U	0.90 J	U	0.35 J	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	U	U	0.5 J♦	U
cyclohexane	260,000	26,000	U	U	U	U	0.38 J	9.1	U	U	3.4 J♦	U	U	U	U
ethyl acetate	3,100	310	U	1.1	U	U	U	U	NA	U	U	U	U	U	U
ethylbenzene	49	4.9	1.5	8.8	2.7	1.4	1.9	1.6	0.77 J	0.64 J	0.56 J	U	0.16 J♦	4.2 ♦	U
freon 11 (trichlorofluoromethane)	31,000	3,100	2.7	1.7	1.4	1.3	1.4	1.4	1.2	1.3	0.91 J♦	1.9 J	U	1.6	0.65 J
freon 113 (freon TF)	1,300,000	130,000	3.7	1.1 J	1.1 J	0.55 J	0.78 J	0.75 J	0.78 J	1.5	1.2 J♦	2.3 J	0.68 J	1.2 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	3.5	2.8	2.3	2.5	2.4 J	2.7	1.9 J	2.4 J	3.0 ♦	3.0 J	3.1	2.5	1.7 J
freon 22	2,200,000	220,000	NA	NA	NA	U	1.2 J	0.98 J	0.73 J	0.82 J	U	1.0 J	1 J	0.84 J♦	0.73 J
heptane	NA	NA	5.8	U	1.7	U	0.38 J	3.7	U	U	0.85 ♦	U	0.23 J	0.26 J♦	U
hexane	31,000	3,100	U	U	U	0.22 J	0.76	15	0.19 JM	2.5	1.1 J♦	U	U	0.31 J♦	U
isopropyl alcohol	NA	NA	U	U	U	1.4 J	1.5 J	170	3.1 J	1 J	24	U	1.4 J	3.7 J♦	U
m,p-xylene (sum of isomers)	4,400	440	4.8	32	9.9	4.6	7.2	6.3	2.8	1.5 J	1.5 J	U	0.39 J♦	4.9 ♦	U
methyl butyl ketone	NA	NA	9.2	8.7 J	U	U	0.84 J	U	U	0.58 J	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	15	U	U	U	4.8 B	7	1.4 J	3.2	3.1 ♦	U	1.4 J	3.1 ♦	U
methyl isobutyl ketone	130,000	13,000	6.7	U	U	1.0 J	0.74 J	U	U	0.78 J	U	U	U	0.72 J♦	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	1.4	23	2.5	15	2.8	0.83 J	2.3	1.3 J	1.0 J♦	U	0.65 J♦	0.41 J♦	U
naphthalene	3.6	0.36	U	U	U	U	0.53 J	U	0.77 J	0.52 J	U	U	U	0.87 J♦	U
n-Butane	NA	NA	NA	NA	NA	0.67 J	2.1	1.3	0.37 J	0.26 J	0.85 J♦	U	1.1 J	0.86 J♦	U
n-Propylbenzene	44,000	4,400	NA	NA	NA	U	U	U	U	U	U	U	U	0.53 J♦	U
o-xylene	4,400	440	2.2	6.6	2.1	1.1	1.6	2.2	1	0.53 J	0.61 J	U	0.18 J♦	2.1 ♦	U
styrene	44,000	4,400	U	2.2	U	U	0.25 J	U	U	0.22 J	0.29 J	U	U	0.39 J♦	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	U	1.1 J	U	U	3.3 J	4.2 J♦	U	U	2.1 J♦	U
tetrachloroethylene (pce)	470	47	11	0.83 J	2.9	U	0.82 J	U	0.93 J	0.54 J	U	1.6 J	U	3	U
tetrahydrofuran	NA	NA	16	U	U	U	0.67 J	U	U	0.42 J	U	1.3 J	1.3 J	18 ♦	U
toluene	220,000	22,000	6.7	16	11	2.2 B	4.4	5.2	2.1	2	4.3 ♦	0.59 J	0.9	1.9 ♦	U
trichloroethylene (tce)	30	3	740	260	140	22	110	6.3	150	120	6.3	410	6.3	130	0.41 J
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location			786VMP-3												
Sample ID	**Sub-slab Vapor Screening Level* ($\mu g/m^3$)**	**Indoor Air Screening Level* ($\mu g/m^3$)**	**786VMP0302AA**	**786VMP0302AB**	**786VMP0302AC**	**786VMP0302AD**	**786VMP0302AG**	**786VMP0302HA**	**786VMP03021A**	**786VMP0302JA**	**786VMP0302KA**	**786VMP0302LA**	**786VMP0302NA**	**786VMP0302PA**	**786VMP0302QA**
Sample Type			**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**	**sub-slab**
Sample Date			**18-Jan-2011**	**24-Aug-2011**	**24-Oct-2011**	**27-Jan-2012**	**8-Aug-2012**	**6-Mar-2013**	**9-Aug-2013**	**3-Oct-2013**	**29-Jan-2014**	**18-Jul-2014**	**26-Jan-2015**	**1-Sep-2015**	**2-Feb-2016**
Sample Depth (ft bgs / ags)			**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**
Sample Collection Duration (hr)			**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Volatiles (TO-15) in $\mu g/m^3$															
1,1,1-trichloroethane	220,000	22,000	16	U	U	U	U	U	U	0.6 J	U	1.9	U	U	U
1,1-dichloroethane	77	7.7	1.4	U	U	U	U	U	U	U	U	0.57 J	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	0.62 J	U	U	0.39 J	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	13	2.4	0.8	0.33 J	U	U	U	0.96	0.30 J	6.2	0.38 J	U	U
1,2-dichloroethane	4.7	0.47	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	9.9	0.65 J	U	U	U	U	U	0.3 J	U	1.6	U	U	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	0.41 J	U	18	U	U	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	U	U	U	1.4	U	U	U
2-chlorotoluene	NA	NA	NA	NA	NA	U	U	U	U	U	U	0.42 J	U	U	U
2,2,4-trimethylpentane	NA	NA	U	U	1.4	0.24 J	U	U	1.9	U	U	2.3	U	U	0.32 J
4-ethyltoluene	NA	NA	8.1	0.60 J	U	U	U	U	U	0.28 J	U	2.1	U	U	U
4-isopropyltoluene	NA	NA	NA	NA	NA	U	U	U	U	2.2	U	0.76 J	U	U	U
acetone	1,400,000	140,000	50	24	4.3	1.2 J	94	17	5.5 J	9.3 J	31 J	44	7.8 J	50	13
benzene	16	1.6	4.7	0.32 J	4.2	0.25 J	1.0	0.7	U	0.46 J	0.82	3.5	0.7	2.8	0.77
bromodichloromethane	3.3	0.33	2.9	U	U	U	U	U	U	U	U	U	U	U	U
bromomethane	220	22	U	U	U	U	U	U	U	U	U	U	U	U	U
carbon disulfide	31,000	3,100	3.1	0.95	U	U	0.91 J	U	0.38 J	3.3	0.64 J	15	U	2.1	U
carbon tetrachloride	20	2	U	U	0.64 J	0.48 J	0.55 J	U	0.44 J	0.31 JM	0.28 J	0.45 J	0.49 J	0.56 J	0.39 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	3.0	U	U	U
chloroform	5.3	0.53	47	U	U	U	0.33 J	U	U	0.41 J	0.21 J	1.4	U	U	U
chloromethane	3,900	390	U	U	U	U	U	0.2 J	0.14 J	0.32 J	U	0.47 J	U	U	U
cis-1,2-dichloroethene	NA	NA	1.1	U	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	NA	U	U	U	U	U	U	1.1	U	U	U
cyclohexane	260,000	26,000	U	U	U	U	U	3.6	U	U	U	3.7	U	U	0.28 J
ethyl acetate	3,100	310	U	U	U	U	U	U	NA	U	U	U	U	U	U
ethylbenzene	49	4.9	9.8	1.6	1.1	0.40 J	0.34 J	U	U	0.8 J	0.31 J	6.4	U	0.71 J	0.15 J
freon 11 (trichlorofluoromethane)	31,000	3,100	3.2	1.7	1.5	1.4	1.4 J	1.4	1.2	1.2	1.1	2	1.4	1.4	1 J
freon 113 (freon TF)	1,300,000	130,000	3.4	0.78 J	U	0.54 J	0.67 J	0.6 J	0.59 J	U	0.69 J	0.67 J	0.65 J	0.63 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	U	2.8	2.6	2.7	2.7 J	2.6	2.1 J	0.56 J	3.1	3.5	3	2.6	1.9 J
freon 22	2,200,000	220,000	NA	NA	NA	0.97 J	1.0 J	0.98 J	U	0.84 J	0.86 J	1.3 J	1 J	0.94 J	0.81 J
heptane	NA	NA	4.7	1.2	1.9	0.40 J	0.83 J	U	0.51 J	U	7.5	2.2	0.67 J	22	1.3
hexane	31,000	3,100	U	U	6.8	1.5	U	2.9	U	0.48 JM	4.9	1.9	0.96	24	1.8
isopropyl alcohol	NA	NA	U	11	U	U	2.8 J	34	2.3 J	5.5 J	U	73	3.4 J	1.2 J	U
m,p-xylene (sum of isomers)	4,400	440	16	5.3	3.4	1.4 J	0.75 J	U	U	1.7 J	0.37 J	17	0.42 J	0.77 J	0.36 J
methyl butyl ketone	NA	NA	7.6	U	U	U	7.6	U	U	U	U	U	U	1.9 J	0.42 J
methyl ethyl ketone	220,000	22,000	19	6.3 J	U	U	35	3.5	0.95 J	3.6	7.4	11	2.1	25	4.3
methyl isobutyl ketone	130,000	13,000	U	U	U	4.0	1.3 J	U	U	0.75 J	1.4 J	2.2	U	1.9 J	U
methyl methacrylate	NA	NA	NA	NA	NA	U	U	U	U	U	U	3.3	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	1.7	U	U	U
methylene chloride	12,000	1,200	U	U	U	0.50 J	U	U	U	1.4 J	0.53 J	1.3 J	0.63 J	U	U
naphthalene	3.6	0.36	U	U	U	U	0.87 J	U	U	18.0	U	U	U	0.23 J	U
n-Butane	NA	NA	NA	NA	NA	U	U	U	U	0.33 J	2.4	0.97 J	0.76 J	33	3.2
n-Propylbenzene	44,000	4,400	NA	NA	NA	U	U	U	U	U	U	2.3	U	U	U
o-xylene	4,400	440	6.2 J	1.5	0.84	0.38 J	0.24 J	U	U	0.62 J	0.19 J	5.2	0.11 J	0.34 J	U
styrene	44,000	4,400	4.8	0.95	U	U	U	U	U	0.27 J	U	3.0	U	0.16 J	U
tert-Butyl alcohol	NA	NA	NA	NA	NA	0.47 J	150	U	U	2.2 J	U	17	U	0.65 J	U
tetrachloroethylene (pce)	470	47	85	2.6	1.5	U	4.6	U	4.2	U	0.77 J	8.5	U	1.1 J	U
tetrahydrofuran	NA	NA	36	U	U	U	U	11 J	U	2 J	U	12 J	1.3 J	U	U
toluene	220,000	22,000	16	5.2	7.7	0.62 J	2.7	0.2 J	0.70 J	3.2	1.0	19	0.44 J	2.6	0.86
trichloroethylene (tce)	30	3	2,200	51	23	1.9	36	1.8	6.5	58	11	200	0.24 J	18	0.4 J
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-4
Buildings 785/786 SSVM System Performance Monitoring
Sub-Slab Vapor, Indoor and Outdoor Air Results

Sample Location			786-1A											
Sample ID	Sub-slab Vapor Screening Level* ($\mu g/m^3$)	Indoor Air Screening Level* ($\mu g/m^3$)	786IA04	786IA05	786IA06	786IA07	786IA08	786IA09	786IA10	786IA11	786IA12	786IA13	786IA14	786IA1QA
Sample Type			Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor
Sample Date			24-Aug-2011	24-Oct-2011	27-Jan-2012	8-Aug-2012	6-Mar-13	9-Aug-13	3-Oct-13	28-Jan-14	17-Jul-14	26-Jan-15	1-Sep-15	2-Feb-16
Sample Depth (ft bgs / ags)			5	5	5	5	5	5	5	5	5	5	5	5
Sample Collection Duration (hr)			12	12	12	12	12	12	12	12	12	12	12	8
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	220,000	22,000	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethane	77	7.7	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	88	9	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	310	31	5.1	1.9	U	0.59 J	U	U	2.8	U	0.15 J	U	0.63 J	U
1,2-dichloroethane	4.7	0.47	U	U	U	0.44 J	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	NA	NA	2.6	U	U	U	U	U	0.78 J	U	U	U	0.19 J	U
1,3-dichlorobenzene	NA	NA	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	11	1.1	U	U	U	U	U	U	U	U	U	U	U	U
2-chlorotoluene	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	NA	0.81	U	0.41 J	0.80 J	2.4	0.38 J	U	0.76 J	U	U	0.44 JM	0.96
4-ethyltoluene	NA	NA	1.2	0.60 J	U	U	U	U	0.74 J	U	U	U	0.16 J	U
4-isopropyltoluene	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
acetone	1,400,000	140,000	49	12	3.3 J	46	21	15	18	U	9.2 J	6.8 J	13	5.3 J
benzene	16	1.6	0.91	1.3	0.75	0.47 J	0.77	0.41 J	0.68	0.52 J	0.22 J	0.52 J	1.2 M	U
bromodichloromethane	3.3	0.33	U	U	U	U	U	U	U	U	U	U	U	U
bromomethane	220	22	U	U	U	U	U	U	U	U	0.12 J	U	U	U
carbon disulfide	31,000	3,100	U	U	U	1.8	U	0.38 J	U	1.2 J	U	0.66 J	0.4 J	U
carbon tetrachloride	20	2	U	U	0.53 J	0.43 J	0.5 J	0.44 J	0.4 J	0.53 J	0.45 J	0.55 J	0.49 J	0.31 J
chlorobenzene	2,200	220	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5.3	0.53	U	U	U	0.19 J	U	U	U	U	U	U	U	U
chloromethane	3,900	390	U	U	1.2	1.3	U	0.86 J	1	1.6	1.2	1.5	1.1	0.97 J
cis-1,2-dichloroethene	NA	NA	0.64	U	U	U	U	U	U	U	U	U	U	U
cumene	18,000	1,800	NA	NA	U	U	U	U	U	U	U	U	U	U
cyclohexane	260,000	26,000	U	1.7	0.28 JB	0.35 J	U	0.18 J	U	U	U	U	0.21 JM	U
ethyl acetate	3,100	310	U	U	U	U	U	NA	U	U	U	U	U	U
ethylbenzene	49	4.9	3	1.8	0.67 J	1.3	U	1.1	14	U	0.11 J	0.21 J	0.3 J	U
freon 11 (trichlorofluoromethane)	31,000	3,100	1.7	1.1	1.4	1.4	1.6	1.1 J	1.2	1.4	1.3	1.4	1.2	0.96 J
freon 113 (freon TF)	1,300,000	130,000	0.78 J	U	0.56 J	0.61 J	0.68 J	0.53 J	0.49 J	0.63 J	0.59 J	0.66 J	0.45 J	U
freon 12 (dichlorodifluoromethane)	4,400	440	2.8	2.0	2.8	2.5	3	2.0 J	2.3 J	3.1	2.5	3	2.4 J	1.6 J
freon 22	2,200,000	220,000	NA	NA	U	1.3 J	1.1 J	0.78 J	0.86 J	1.1 J	1.1 J	1 J	0.94 J	0.75 J
heptane	NA	NA	1.7	0.96	0.48 JB	0.92	1.2	0.36 J	U	0.82	U	0.26 J	0.38 JM	U
hexane	31,000	3,100	U	2.6	1.3 B	1.5	8.2	0.56 J	0.38 J	0.77	U	0.37 J	0.8	U
isopropyl alcohol	NA	NA	8.2	3.0	U	3.0 J	1.1 J	2.6 J	1.8 J	U	1.8 J	U	U	U
m,p-xylene (sum of isomers)	4,400	440	11	6.2	1.8 J	3.9	U	3.3	47	U	0.30 J	0.37 J	1.1 J	U
methyl butyl ketone	NA	NA	U	U	U	0.40 J	U	0.42 J	U	U	U	U	U	U
methyl ethyl ketone	220,000	22,000	5.9	U	0.76 J	4.5 B	3.8	3.1	7.6	U	1.2 J	1.1 J	1.6	0.87 J
methyl isobutyl ketone	130,000	13,000	U	U	2.6	0.71 J	U	0.98 J	2.7	U	U	U	0.75 J	U
methyl methacrylate	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	31,000	3,100	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	12,000	1,200	2.7	U	0.67 J	1.0 J	0.69 J	0.47 J	0.75 J	0.68 J	U	0.7 J	0.79 J	0.63 J
naphthalene	3.6	0.36	U	U	U	U	U	0.86 J	U	U	U	U	0.21 J	U
n-Butane	NA	NA	NA	NA	2.3	7.8	3.2	1.3	1.4	2.2	U	2.1	1.9	1.2 J
n-Propylbenzene	44,000	4,400	NA	NA	U	U	U	U	0.48 J	U	U	U	U	U
o-xylene	4,400	440	2.7	1.7	0.51 J	1.0	U	0.80 J	14	U	0.11 J	0.14 J	0.45 J	U
styrene	44,000	4,400	1.8	U	U	0.62 J	U	0.33 J	0.58 J	U	U	U	U	U
tert-Butyl alcohol	NA	NA	NA	NA	U	U	U	0.56 J	U	U	U	U	U	U
tetrachloroethylene (pce)	470	47	U	U	U	0.34 J	U	U	U	U	1.2 J	U	U	U
tetrahydrofuran	NA	NA	U	U	U	1.5 J	U	U	U	U	U	U	U	U
toluene	220,000	22,000	8.8	9.4	2.4 B	7.3	0.98	4.5	9.3	0.33 J	0.52 J	0.51 J	1.6	U
trichloroethylene (tce)	30	3	2.5	U	U	U	U	U	U	U	U	U	U	U
vinyl chloride	28	2.8	U	U	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
M - Lab qualifier for manual integrated compound
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of EPA Commercial Regional Screening Levels.
B - Analytes detected in the trip blank.
♦-Denotes higher nominal value of duplicate sample result.
*EPA Commercial Regional Screening Levels

Table 3-5
Buildings 785/786
SSVM Performance Monitoring Influent Results

Sample Location	785786-Influent									
Sample ID	**785786CA01AA**	**785786CA01AB**	**785786CA01AC**	**785786CA01AD**	**785786CA01AG**	**785786CA01AH**	**785786CA01IA**	**785786CA01LA**	**785786CA01MA**	**785786CA01NA**
Sample Type	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**
Sample Date	**19-May-2011**	**23-Aug-2011**	**25-Oct-2011**	**24-Jan-2012**	**3-Aug-2012**	**14-Feb-2013**	**7-Aug-2013**	**20-Jan-2015**	**28-Aug-2015**	**1-Feb-2016**
Sample Depth (ft bgs)	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Sample Collection Duration (hr)	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**
Volatiles (TO-15) in µg/m^3										
1,1,1-trichloroethane	4.8	1.4	1.6	0.32 J	U	U	0.36 J	U	0.5 JM	U
1,2,4-trimethylbenzene	6.9	1.7	2.8	0.26 J	1.4 J	0.73 J	0.74 J	0.23 J	0.16 J	U
1,2-dichloroethene	U	U	U	U	U	U	U	0.36 J	1.1 J	U
1,3,5-trimethylbenzene	6.3	1.5	U	U	0.65 J	U	U	U	U	U
1,3-butadiene	U	U	U	U	U	0.23 J	U	U	U	U
1,3-dichlorobenzene	U	U	U	U	0.49 J	U	U	U	U	U
1,4-dioxane	U	U	U	U	U	U	U	U	U	13 JD
2,2,4-trimethylpentane	300	31	33	7.9	9.5	10	2.8	3.9	0.17 J	U
4-ethyltoluene	U	0.75	U	U	0.36 J	U	U	0.1 J	U	U
4-isopropyltoluene	NA	NA	NA	U	U	U	U	U	U	2.7 D
acetone	180	5.1	U	1.2 J	56	110	4.3 J	14	17	58 D
benzene	1.9	0.81	U	U	0.51 J	0.72 J	0.47 J	0.42 J	0.61 J	0.38 JD
carbon disulfide	6.9	0.79	U	U	0.70 J	U	U	1.7	4.4	U
carbon tetrachloride	U	U	U	0.48 J	0.44 J	0.45 J	0.37 J	1.45 J	1 J	U
chloroethane	U	U	U	U	U	U	U	U	0.19 J	U
chloroform	59	8.1	7.8	1.6	2.8	U	1.2	0.67 J	2.5	U
chloromethane	U	U	U	U	0.45 J	0.59 J	0.24 J	U	1.5	0.48 J
cis-1,2-dichloroethene	17	4.5	3.0	0.56 J	1.6	U	1	0.36 J	1.2 M	0.63 J
cumene	NA	NA	NA	U	U	U	U	0.25 J	U	U
cyclohexane	180	28	U	U	4.4	7.6	U	0.24 J	U	U
ethylbenzene	5.9	2.9	1.7	0.30 J	1.1 J	U	0.41 J	0.19 J	0.29 J	U
freon 11 (trichlorofluoromethane)	1.4	1.8	1.5	1.4	1.4 J	1.5 J	1.1	1.5	2.6	1 J
freon 113 (freon TF)	0.78 J	0.78 J	U	0.52 J	0.62 J	0.73 J	0.52 J	0.66 J	1.1 J	U
freon 12 (dichlorodifluoromethane)	2.4	2.7	U	2.5	2.3 J	3.3 J	2.3 J	3	5	2 J
freon 22	NA	NA	NA	U	U	1.3 J	U	1 J	2.3	0.84 J
heptane	130	30	26	3.1	2.5	10	0.15 J	U	U	U
hexane	150	13	U	1.5	5.4	22	0.20 J	U	0.24 J	U
isopropyl alcohol	U	U	U	U	9.6 J	6.8 J	3.9 J	1.5 J	1.1 J	U
m,p-xylene (sum of isomers)	16	6.3	6.0	0.98 J	3.3	1 J	1.5 J	0.41 J	0.87 J	U
methyl ethyl ketone	20	U	U	0.27 J	5.3 B	2.3 J	0.66 J	3.7	3.3	4.4
methylene chloride	1.4	U	U	0.54 J	2.0 J	U	0.55 J	U	0.73 JM	U
naphthalene	U	U	U	U	2.3 J	U	0.56 J	U	0.18 J	U
n-butane	NA	NA	NA	2.8	13	2.8	U	3.6	1.1 JM	0.62 J
n-Propylbenzene	NA	NA	NA	U	U	U	U	0.65 J	U	U
o-xylene	6.5	3.4	1.9	0.30 J	1.3 J	0.4 J	0.47 J	0.13 J	0.28 J	U
styrene	U	U	U	U	0.48 J	U	0.14 J	U	U	U
tert-butyl alcohol	NA	NA	NA	U	1.0 J	U	U	U	0.46 J	U
tetrachloroethylene (pce)	250	52	72	11	22	6.6	11	5	6.1	1.2 J
tetrahydrofuran	510	U	U	U	2.6 J	U	U	0.62 J	U	U
toluene	5.6	3.4	3.8	0.44 J	9.5	0.97 J	1.6	0.27 J	0.89	U
trichloroethylene (tce)	3500	520	740	140	250	93	130	72	140	80
vinyl chloride	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
J- The analyte was positively identified; the quantitation is an estimation.
D - The reported value is from a dilution
M - Lab qualifier for manual integrated compound
NA- Not Available
µg/m^3: microgram per cubic meter.
B - Analytes detected in the trip blank.