FINAL
OPERATIONS AND MAINTENANCE (2ND THROUGH 4TH QUARTERS 2021 AND 1ST QUARTER 2022) AND JANUARY 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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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	Contaminant 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
Ft	feet
ft^2	square feet
GAC	granular activated carbon
HI	hazard index
HQ	Hazard Quotient
IC	Institutional Control
IRA	Interim Remedial Action
J	Laboratory flag indicating an estimated concentration
LUC	Land Use Control
µg/L	microgram(s) per liter
$µg/m^3$	microgram(s) per cubic meter
mL/min	milliliter(s) 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
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 January 14, 2022, along with O&M activities performed during the 2nd, 3rd, and 4th quarters of 2021 and in the 1st quarter of 2022 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 and are shown on **Figure 1**:

- 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 as a result of 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 the screening level it was not a COC (FPM, April 2008).

Sampling locations and site features at Buildings 785/786 and Buildings 774/776 are shown on **Figure 2** and **Figure 3**, respectively. Groundwater contaminant plumes associated with Buildings 785/786 depicted on **Figure 2** are based upon the November 2021 biennial groundwater sampling presented in the *Final 2021 Annual Performance Monitoring Report, On-Base Groundwater Remediation, Former Griffiss AFB, Rome, New York* (Bhate, December 2022). The groundwater contaminant plume associated with Buildings 774/776 presented on **Figure 3** is based on the November 2021 annual groundwater sampling presented in the *Final 2021 Annual Performance Monitoring Report, On-Base Groundwater Remediation, Former Griffiss AFB, Rome, New York* (Bhate, December 2022).

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 3, 4, and 5**) 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 NYSDOH Soil Vapor/Indoor Air Matrix A (May 2017 update) (**Table 5**) 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.

The USEPA risk screening criteria (**Tables 3 and 4**) 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 2017); 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 2020). 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.

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 (ft^2) (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 ft^2 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 ft^2 (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 January 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 aquifer is located at 9 to 25 feet (ft) below ground surface (bgs) with the shallow depth occurring in the vicinity of Six Mile Creek. The aquifer is composed of several well-defined layers including a silty-sand layer in the upper 5 ft; a 5 to 15-ft thick coarse sand and gravel layer in the middle of the aquifer; and a 15 to 20-ft thick layer of till composed of fine sand, silt, and gravel resting on the shale bedrock. The total aquifer thickness ranges from 45 ft in the source areas to less than 20 ft 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 ft 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. The area is 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 aquifer is comprised of silty sands from ground surface to depths of 60 ft to 120 ft bgs. Average groundwater velocities have been estimated at approximately 10 ft 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 ft 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 (December 2021), TCE was only detected at the source (near Building 785) and did not exceed the NYSDEC Class GA Groundwater Standard (Bhate, October 2019). Target VOC concentration trends remain stable or decreasing at Apron 2. TCE is almost completely degraded to cis-1,2-DCE, and VC downgradient of the source, and it appears 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) November 2021 groundwater data and trends is provided in the *Final 2021 Annual Performance Monitoring Report On-Base Groundwater Remediation Former Griffiss Air Force Base Rome, New York* (Bhate, December 2022).

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 thought 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) has been implemented in accordance with the On-Base Groundwater AOC ROD which was 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. Since 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.

Annual performance monitoring of monitored natural attenuation is ongoing at SD052-02. A detailed discussion of the SD052-02 Building 775 Site (Buildings 774 and 776) November 2021 groundwater data and trends is provided in the *Final 2021 Annual Performance Monitoring Report On-Base Groundwater Remediation Former Griffiss Air Force Base Rome, New York* (Bhate, December 2022).

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 2020). 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 hand-held µg/m^3-RAE meter 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 2020). 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 2020).

After the initial SVI survey, a meeting was held between the USAF, USAF Institute for Operational Health, NYSDEC, NYSDOH, and the USEPA on December 13, 2007, to discuss the SVI survey findings. During this meeting, an agreement was reached that these buildings required additional investigation to confirm the 2006 survey results. It should be noted that in the meeting it was decided that chloroform had been determined not to be a COC (FPM, April 2008). A subsequent SVI investigation was performed in April/May 2008.

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 2020) 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 4**.

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 ft screen at a depth of 10 ft bgs. The horizontal well for Building 785 (785SSVM-1) was constructed of a 140 ft screen at a depth of 8 ft 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 ft, 30 ft, and 45 ft off the 786SSVM-1 well axis. At Building 785, 785VMP-2, -4, and -5 are respectively 15 ft, 30 ft, and 60 ft off the well axis. The VMPs for both horizontal wells contain three intervals of depth, a shallow (2 to 2.5 ft bgs), a medium (5 to 5.5 ft bgs), and a deep (10 to 10.5 ft 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 5**.

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 horizontal wells are illustrated on **Figure 5**. The depths of the horizontal wells range from 6 ft to 8 ft bgs with screen lengths ranging from 20 ft to 180 ft 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 ft to 45 ft off axis of the horizontal wells. All VMPs are illustrated on **Figure 5**.

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/Institutional 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) and Institutional Controls (ICs) 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. **Table 1** 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

Summa canisters were deployed, and samples collected from January 13-14, 2022. A total of 11 sub-slab VMPs within Buildings 785 (785VMP-2, -4, and -5), 786 (786VMP-2, and -3), 774 (774VMP-1, -2, and -3), and 776 (776VMP-1, -2, and -3) were sampled during the 1st quarter of 2022. 786VMP-1 was not sampled due to inability to remove the well-box lid. Sub-slab VMP sampling locations are shown on **Figures 2** and **3**. Prior to sub-slab soil gas sample collection, the VMP was purged at a rate not exceeding 200 milliliters per minute (mL/min). The total volume purged prior to initiating sample collection was equal to three volumes of air present in the tubing and the VMP. During the January 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 Dielectric Technologies® Model MGD-2002 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 1**, two field duplicate samples used to validate laboratory analytical data were collected during each event. 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

Buildings 785, 786, 774, and 776 each had one indoor air sample (785IA-1, 786IA-1, 774IA-1, and 776IA-1) collected from January 13 and 14, 2022 (**Figures 2** and **3**). The January 2022 result from Building 776 location 776IA-1 had an anomalous exceedance and was resampled on March 25, 2022, to verify the result. The summa canisters were deployed in areas not subject to disturbances and which would not interfere with the occupants' normal activities. Additionally, canisters were placed at location within each building to mimic previous indoor air sampling events. Indoor air summa canisters were labeled with a unique sample designation number. Summa canister vacuum was measured using an integrated vacuum gauge immediately prior to deployment and recorded on the applicable field form. The 8-hour flow controllers were installed by the laboratory on each summa canister. Summa canisters were opened fully at the beginning of the sample collection period, and the start time, outdoor temperature, barometric pressure, and ventilation conditions were recorded. The summa canister valve was closed fully 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 January 13-14, 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 January 2022 Sampling Event

Sub-slab vapor, indoor, and outdoor air sampling occurred at Buildings 785 and 786 from January 13 through January 14, 2022. Sampling results are presented in **Table 2**. The highest sub-slab TCE concentration in Building 785 was 7.5 µg/m^3 at location 785VMP-2 and the highest sub-slab TCE concentration in Building 786 was 2.1 µg/m^3 at location 786VMP-2. 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 January 2022 sampling event.

TCE was detected in the indoor air sample collected from Building 785 (0.041 µg/m^3), below the current USEPA industrial/commercial indoor air screening level of 3 µg/m^3, during the January 2022 event. Other detected indoor air VOCs were also below their applicable screening criteria (**Table 2**). TCE concentration in the indoor air sample collected from Building 786 was not detected (0.0081 U µg/m^3) at the limit of detection during the January event. Other analyzed indoor air VOCs were also not detected (**Table 2**).

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.

Table 3 compares the indoor air and sub-slab January 2022 sampling results to the USEPA industrial/commercial TCE cancer risk scenario. The comparison indicates that the samples from Buildings 785 and 786 fall under the "*no action*" (**Table 3**) category.

Table 4 compares the calculated HI using the USEPA Vapor Intrusion Screening Level calculator for the indoor air and sub-slab January 2022 sampling results to the USEPA industrial/commercial TCE non-cancer hazard scenario. The comparison indicates that each of the TCE concentrations were 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*" (**Table 4**) criteria under the TCE non-cancer hazard scenario.

Table 5 compares the indoor air and sub-slab January 2022 sampling results to the NYSDOH Soil Vapor/Indoor Air Matrix A (May 2017 update) scenario. The comparison indicates achievement of the "*no further action*" (**Table 5**) criteria for the indoor air and sub-slab samples.

Figure 6 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 due to the close proximity of the two buildings. TCE was not detected in the outdoor air sample collected during the January 2022 sampling event. The indoor and outdoor vapor trend chart in both Buildings 785 and 786 is illustrated on **Figure 7**. 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 January 2022 Sampling Event

Sub-slab vapor, indoor, and outdoor air sampling occurred at Buildings 774 and 776 on January 14, 2022. Sampling results are presented in **Table 6**. The highest sub-slab TCE concentration in Building 774 was 40 µg/m^3 at location 774VMP-2 and the highest sub-slab TCE concentration in Building 776 was 0.64 J µg/m^3 at location 776VMP-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. Detected VOC results in each of the six sub-slab samples in Buildings 774/776 were below their respective sub-slab screening levels during the January 2022 sampling event.

TCE was detected in the indoor air samples at Building 774 (0.075 µg/m^3) and Building 776 (2.4 µg/m^3) below the Indoor Screening Value of 3.0 µg/m^3 (USEPA, November 2020). The January 2022 Building 776 analytical result for TCE of 2.4 µg/m^3 exceeded the concentration limit for "*no further action*" (**Table 5**) based on the indoor air and sub-slab NYSDOH Soil Vapor/Indoor Air Matrix A (May 2017 update). The Building 776 indoor air result was anomalous as it exceeded the concentration reported in the Building 776 sub-slab samples. Therefore, a confirmatory indoor air sample was collected on March 25, 2022. TCE was detected in the March 2022 indoor air sample at Building 776 (0.039 µg/m^3) below the Indoor Screening Value of 3.0 µg/m^3 (USEPA, November 2020). The indoor air concentration of 0.039 µg/m^3 met the NYSDOH "*no further action*" category. Other analyzed indoor air VOCs in Building 774 and Building 776 were below their applicable screening criteria (**Table 6**).

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. Based on the January 2022 sampling results, sub-slab and outdoor air sample concentrations for TCE were within an acceptable range and did not pose any unacceptable risk to building occupants.

Table 3 compares the indoor air and sub-slab January 2022 sampling results at Buildings 774 and 776 to the USEPA industrial/commercial TCE cancer risk scenario. The comparison indicates achievement of "*no action"* (**Table 3**) criteria under the TCE cancer risk scenario.

Table 4 compares the calculated HI using USEPA Vapor Intrusion Screening Level calculator for the indoor air and sub-slab January 2022 sampling results at Buildings 774 and 776 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"* (**Table 4**) criteria under the TCE non-cancer hazard scenario.

Table 5 compares the indoor air and sub-slab January 2022 sampling results to the NYSDOH Soil Vapor/Indoor Air Matrix A (May 2017 update) scenario. The comparison indicates achievement of "*no further action"* (**Table 5**) criteria for the indoor air and sub-slab samples at Building 774 The March 2022 indoor air and January 2022 sub-slab 2022 sampling results were compared to the NYSDOH Soil Vapor/Indoor Air Matrix A (May 2017 update) scenario. The comparison indicates achievement of "*no further action"* (**Table 5**) criteria for the indoor air and sub-slab samples at Building 776.

Figure 8 shows the sub-slab TCE vapor trend chart in both Buildings 774 and 776. TCE concentrations have remained below the USEPA industrial/commercial sub-slab vapor screening level of 99 µg/m^3 since system start-up in June 2011. When compared to the NYSDOH TCE sub-slab regulatory action level for "*no further action"* (**Table 5**) of 60 µg/m^3, no exceedances have occurred since system start-up.

Only one outdoor air sample (776OA-1) was collected between Buildings 774 and 776 due to the close proximity of the buildings. TCE was not detected in the outdoor air sample. The indoor and outdoor vapor trend chart in both Buildings 774 and 776 is illustrated on **Figure 7**.

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. SSVM system O&M forms from site visits completed in the 2nd through 4th quarters of 2021 and the 1st quarter of 2022 are included in **Appendix D**. Specific details on system operations are discussed in the subsections below. Details were obtained from the O&M forms (**Appendix D**) and monthly Contractors Progress, Status, and Management Reports previously submitted to the Air Force for this reporting period.

2.3.1 SD052-01 (Building 785 and 786) SSVM System

The Building 785/786 SSVM system operated in passive mode throughout the reporting period (2nd, 3rd, and 4th quarters of 2021 and the 1st quarter of 2022). The passive wind turbine operation does not require scheduled maintenance. Based on periodic observations, the Building 785/786 SSVM wind powered passive system operated as intended throughout this reporting period. The active system remains in stand-by mode with the electric blower turned off at the control panel. Electricity is connected to the control panel and all active equipment remains in place. The active system can be re-started if needed. The system was checked and operated normally in hand mode on the control panel (blower energized while bypassing interlocks) for 10 seconds on December 3, 2021.

2.3.2 SD052-02 (Building 774 and 776) SSVM System

The Building 774/776 SSVM system operated in passive mode throughout the reporting period (2nd, 3rd, and 4th quarters of 2021 and the 1st quarter of 2022). The passive wind turbine operation does not require scheduled maintenance. Based on periodic observations, the Building 774/776 SSVM wind powered passive system operated as intended throughout this reporting period. The active system remains in stand-by mode with the electric blower turned off at the control panel.

Electricity is connected to the control panel and all active equipment remains in place. The active system can be re-started if needed. The system was checked and operated normally in hand mode on the control panel (blower energized while bypassing interlocks) for 10 seconds on December 3, 2021.

3 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Results shown for Buildings 785/786 and 774/776 in the USEPA Soil Vapor/Indoor Air TCE matrices **Table 3** (cancer) and **Table 4** (non-cancer) indicate "*no action"* for each sample pair, soil vapor/indoor air. Results shown for Buildings 785/786 and 774/776 in the NYSDOH **Table 5** indicate "*no further action"* for each sample pair, soil vapor/indoor air.

The passive systems are operating effectively based upon the laboratory analytical results. It is recommended that passive operation at both Buildings 785/786 and 774/776 continue into the 2022/2023 heating season to confirm that the passive SSVM systems continue to operate effectively. Performance air monitoring (sub-slab, indoor air, and outdoor air) will be conducted again early in the 2022/2023 heating season at Buildings 785/786 and 774/776. If TCE exceeds its applicable screening levels during the early sampling event, an additional sampling event will be conducted during the 2022/2023 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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FIGURES

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Former Griffiss Air Force Base Location Map

Figure 1

Operations and Maintenance (2nd through 4th Quarters 2021 and 1st Quarter 2022) and January 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)
Former Griffiss AFB, Rome New York

SCALE:	DATE:	DRAWN BY:
As Shown	8/17/2022	MRM

PROJECT NO: MSC2021.0012

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Figures



Buildings 785 and 786
Site Features/Sampling Locations

Figure 2

Operations and Maintenance (2nd through 4th Quarters 2021 and 1st Quarter 2022) and January 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

PROJECT NO:	DATE:	DRAWN BY:
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Figures

Buildings 774 and 776
Site Features/Sampling Locations

Figure 3

Operations and Maintenance (2nd through 4th Quarters 2021 and 1st Quarter 2022) and January 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

PROJECT NO: MSC2021.0012

SCALE: As Shown

DATE: 8/17/2022

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Approximate Direction of Groundwater Flow

SD052-SVI
Buildings 774 & 776

LF009
(Landfill 6 AOC)

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.

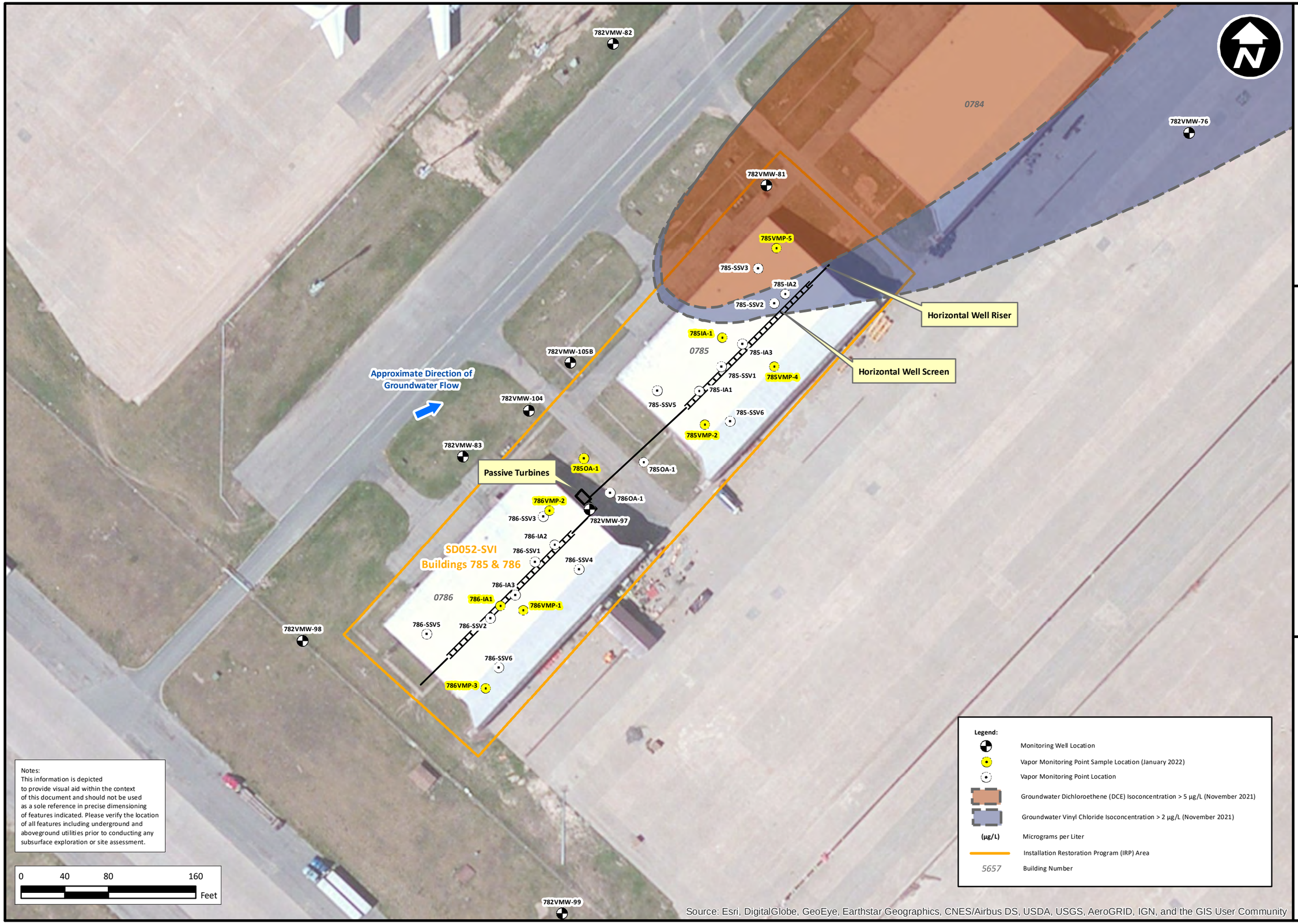
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Legend:
- Monitoring Well Location
- Extraction Well Location
- Vapor Monitoring Point Sample Location (January 2022)
- Vapor Monitoring Point Location
- Groundwater Trichloroethene (TCE) Isoconcentration > 5 µg/L (September 2020)
- (µg/L) Micrograms per Liter
- Installation Restoration Program (IRP) Area
- 5657 Building Number

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Figures



Buildings 785 and 786 SSVM System

Figure 4

Operations and Maintenance (2nd through 4th Quarters 2021 and 1st Quarter 2022) and January 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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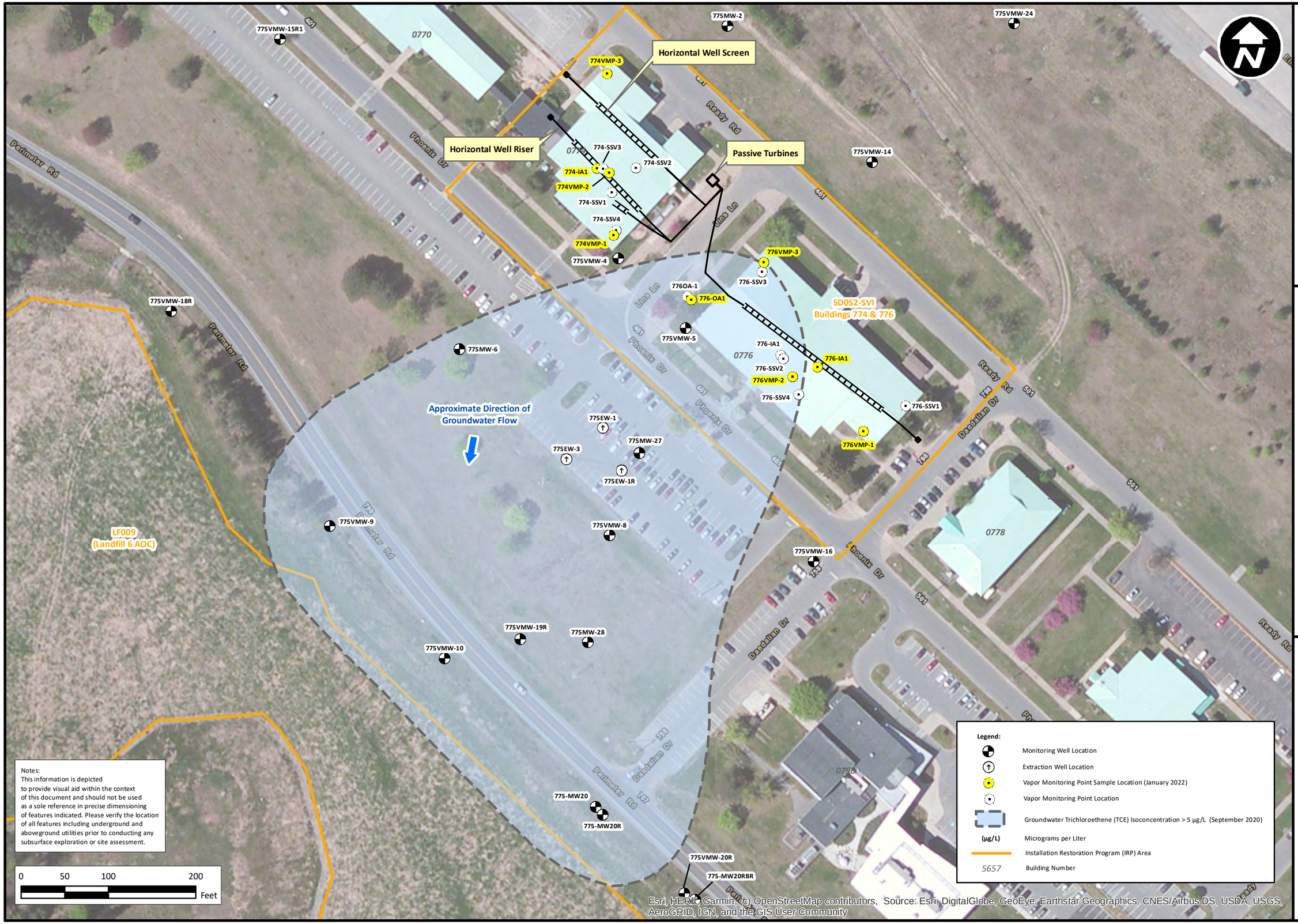
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Figures



Buildings 774 and 776 SSVM System

Figure 5

Operations and Maintenance (2nd through 4th Quarters 2021 and 1st Quarter 2022) and January 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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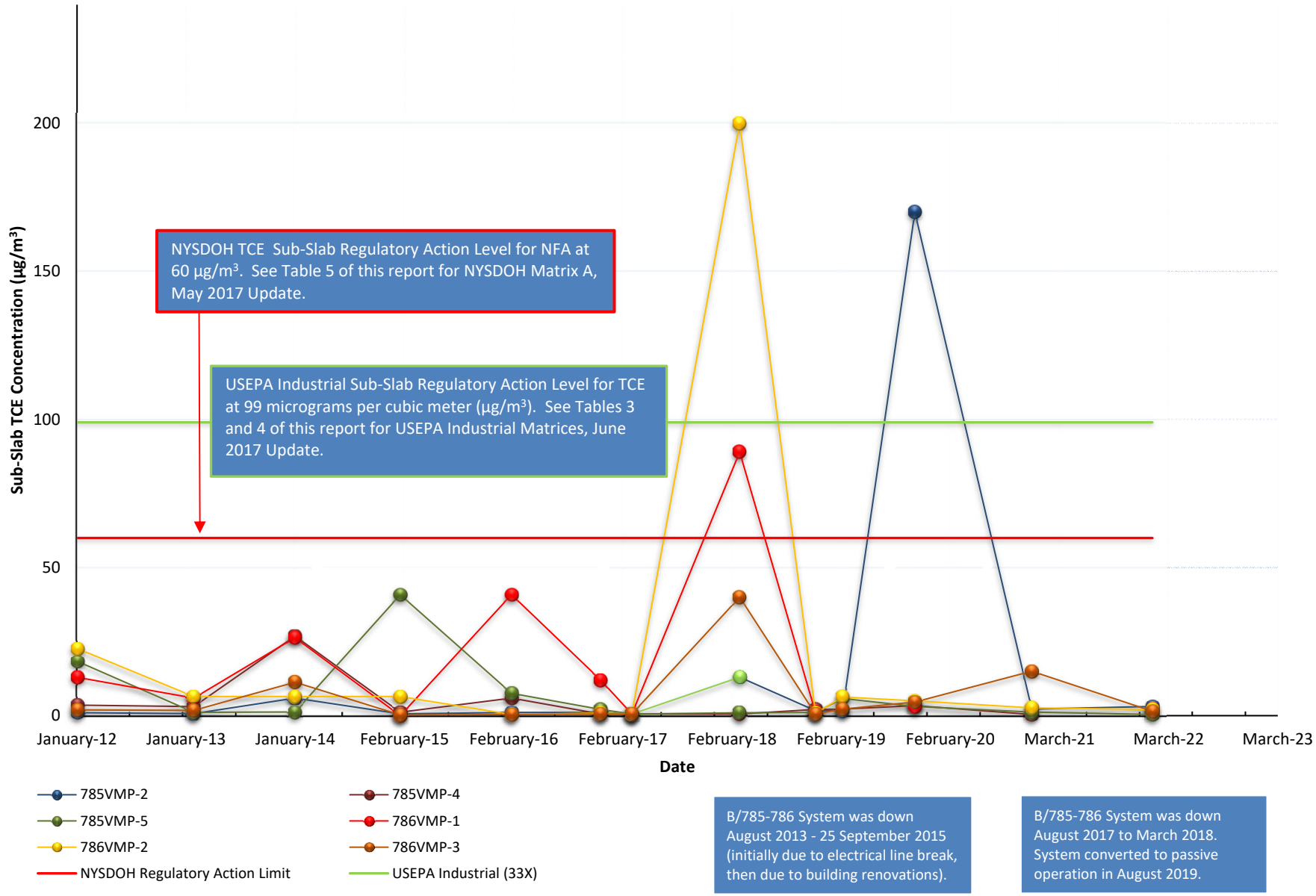
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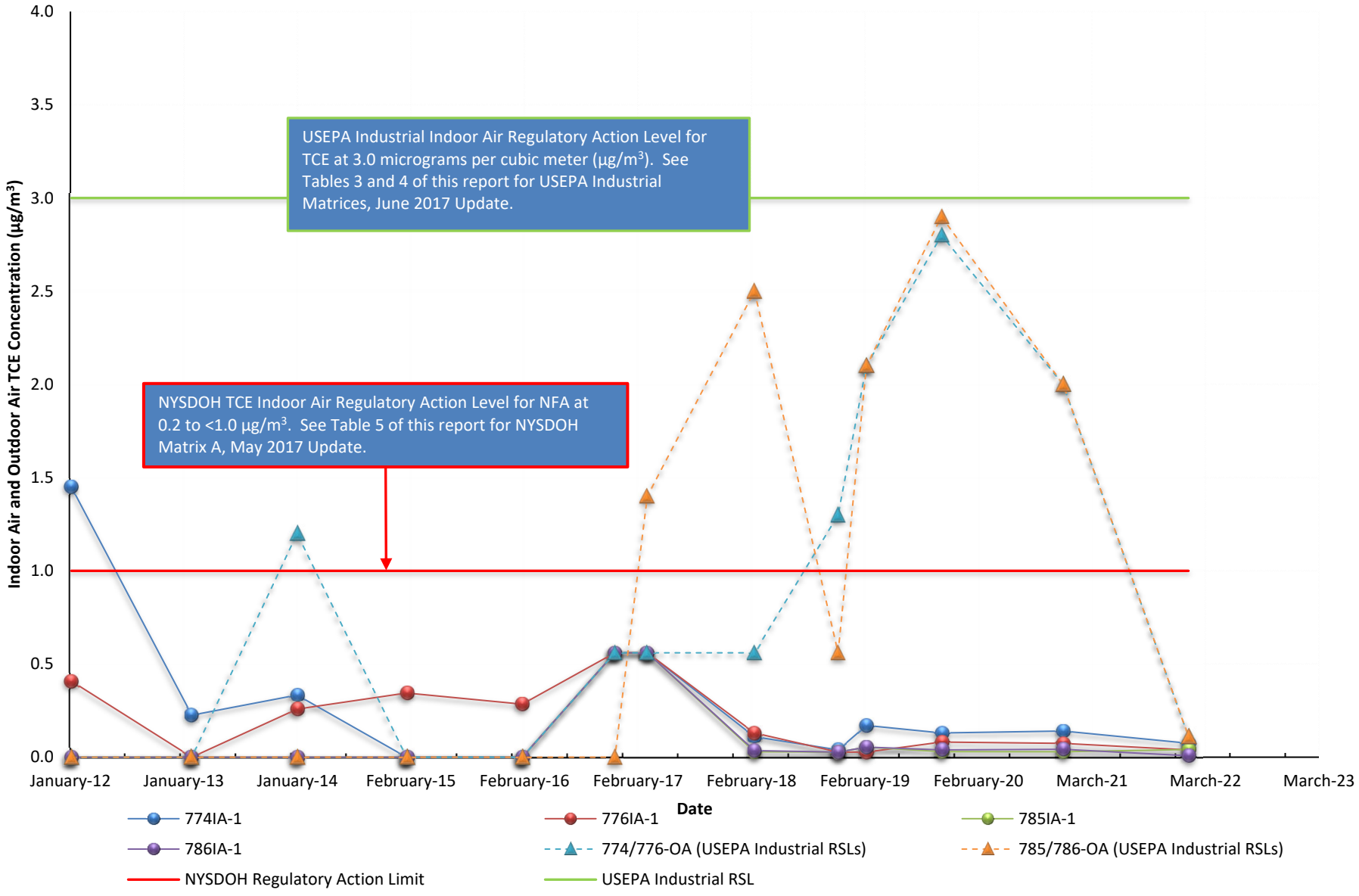
Figures

Figure 6. SD052-SVI Sub-Slab TCE Vapor Concentrations for Buildings 785 and 786
Heating Season Data Only, November 15th to March 31st (January 2012 to January 2022)



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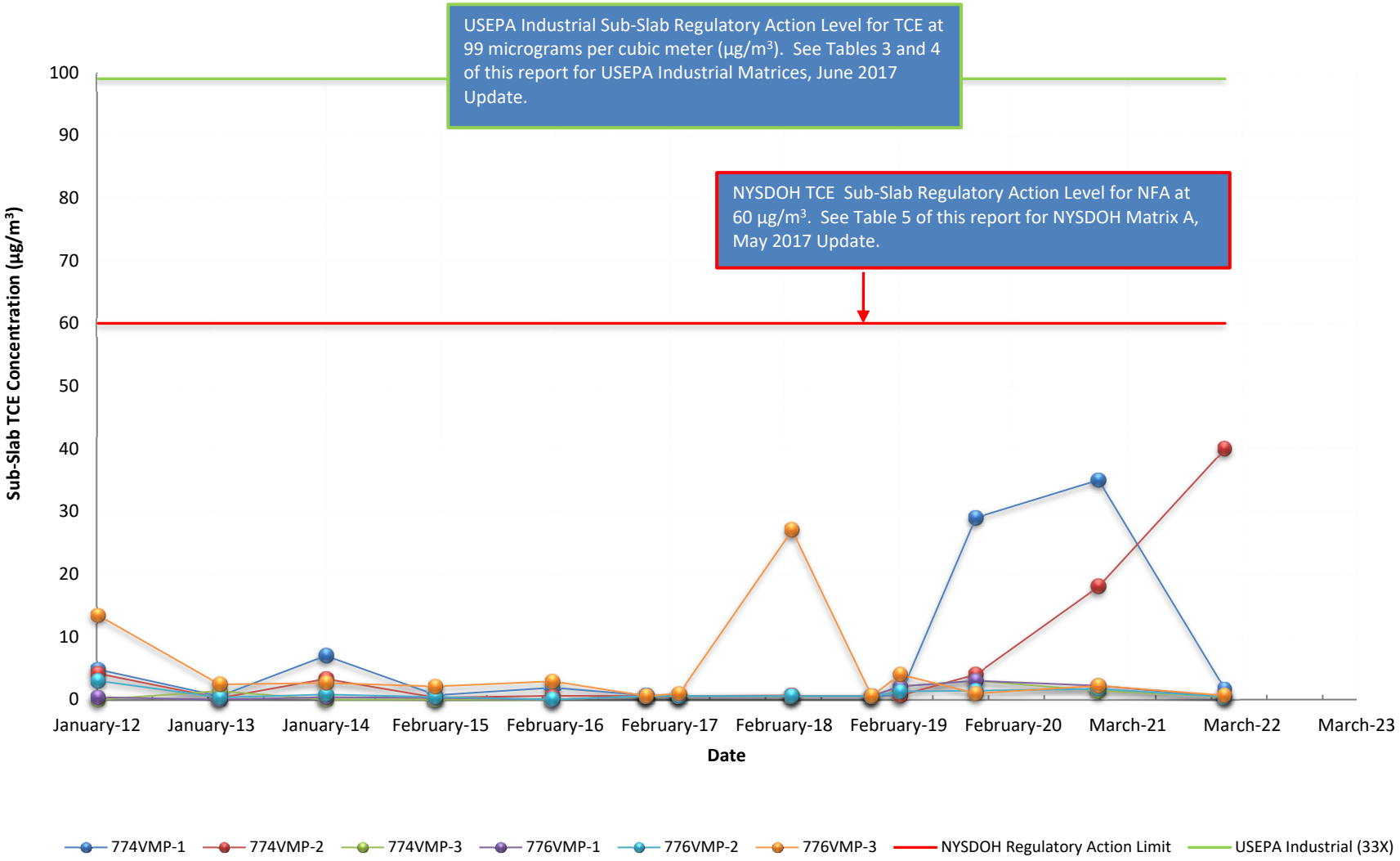
Figure 7. SD052-SVI Indoor and Outdoor Concentrations for Buildings 774 and 776 and Buildings 785 and 786, Heating Season Data Only, November 15th to March 31st (January 2012 to January 2022)



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

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Figure 8. SD052-SVI Sub-Slab Vapor Concentrations for Buildings 774 and 776
Heating Season Data Only, November 15th to March 31st (January 2012 to January 2022)



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TABLES

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Table 1. List of Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Samples for SSVM Performance Monitoring 1st Quarter, January 2022 (Heating Season)
SD052-SVI Sites, Former Griffiss AFB, Rome NY

SD052-SVI Site	Sample Location	Sample ID	Sample Type	Sample Date	Notes
Buildings 785/786	785VMP-2	785-VMP-2_011422	Sub-Slab	1/14/2022	8-hour sample duration, Collected 785-VMP-2_011422-A as a duplicate
	785VMP-4	785-VMP-4_011422	Sub-Slab	1/14/2022	8-hour sample duration
	785VMP-5	785-VMP-5_011422	Sub-Slab	1/14/2022	8-hour sample duration
	785IA-1	785-IA-1_011422	Indoor Air	1/14/2022	8-hour sample duration
	785OA-1	785-OA-1_011422	Outdoor Air	1/14/2022	8-hour sample duration
	786VMP-1	Not Applicable	Sub-Slab	Not Collected	Inaccessible on 1/13/2022; monitoring point lid was wedged and unable to be removed*
	786VMP-2	786-VMP-2_011422	Sub-Slab	1/14/2022	8-hour sample duration
	786VMP-3	786-VMP-3_011422	Sub-Slab	1/14/2022	8-hour sample duration
	786IA-1	786-IA-1_011422	Indoor Air	1/14/2022	8-hour sample duration
Buildings 774/776	774VMP-1	774-VMP-1_011422	Sub-Slab	1/14/2022	8-hour sample duration
	774-VMP-2	774-VMP-2_011422	Sub-Slab	1/14/2022	8-hour sample duration
	774-VMP-3	774-VMP-3_011422	Sub-Slab	1/14/2022	8-hour sample duration
	774IA-1	774-IA-1_011422	Indoor Air	1/14/2022	8-hour sample duration
	776VMP-1	776-VMP-1_011422	Sub-Slab	1/14/2022	8-hour sample duration
	776VMP-2	776-VMP-2_011422	Sub-Slab	1/14/2022	8-hour sample duration, Collected 776-VMP-2_011422_A as a duplicate
	776VMP-3	776-VMP-3_011422	Sub-Slab	1/14/2022	8-hour sample duration
	776IA-1	776-IA-1_011422	Indoor Air	1/14/2022	8-hour sample duration
		776-IA-1_0322	Indoor Air	3/25/2022	8-hour sample duration, resampled 3/25/2022 due to anomalous exceedance in 1/14/2022 sampling to confirm result
	776OA-1	776-OA-1_011422	Outdoor Air	1/14/2022	8-hour sample duration

Notes:
SVI = Soil Vapor Intrusion
ID = Identification
SSVM = Sub-Slab Vapor Mitigation
* Issue has been resolved

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Table 2. Buildings 785/786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through January 2022)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-2		785VMP-4		785VMP-4		785VMP-4		785VMP-4		785VMP-4		785VMP-4		785VMP-4		785VMP-4		785VMP-4	
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		785VMP-4_1216		785VMP-4_0317		785VMP-4_0318		785VMP-4_1118		785VMP-4_0319		785-VMP-4_1119		785-VMP-4_1220	
Lab Sample Identification			320-23968-13		320-23968-14		320-26740-1		320-26740-2		320-37345-11		320-37345-12		320-45741-13		320-45741-12		320-48763-13		320-48763-14		1911650B		1911650B		2012188B-13A		2012188B-14A		JD38291-6R		JD38291-9R		320-23968-15		320-26740-3		320-37345-13		320-45741-14		320-48763-15		1911650B		Not Analyzed	
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		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		Normal		Normal		Normal		Normal		Normal		Normal	
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		12/1/2016		3/17/2017		3/21/2018		11/29/2018		3/25/2019		11/19/2019		12/2/2020	
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		1		1		1		1		1		1		1	
Sample Collection Duration (hours)			8		8		8		8		8		8		8		8		8		8		8		8		8		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	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	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.4	U	NA	
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*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*4.3*	*U*	NA	
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	3.1	U	3.1	U	1.2	J	3.1	U	3.1	U	4.8	U	NA	
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*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*3.4*	*U*	NA	
1,1-Dichloroethane	7.7	254.1	0.8	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	1.6	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.6	U	NA	
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	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.5	U	NA	
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	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	*18*	*U*	NA	
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**	2.0	U	2.0	U	**13**		**4.5**		**4.5**		**4**		**5.8**		**7.6**	**J**	NA	
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*	*4.1*	*U*	*4.8*	*U*	*3.1*	*U*	*3.3*	*U*	*4.6*	*U*	*4.6*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*4.8*	*U*	NA	
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	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.8	U	NA	
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*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*2.6*	*U*	NA	
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	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	2.9	U	NA	
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**	2.0	U	2.0	U	**3.5**	**J**	**1.5**	J	**1.7**	J	**1.9**	**J**	**2.2**	**J**	NA	
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**	**J**	2.4	U	2.4	U	2.4	U	3.8	U	NA	
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*	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	*3.8*	*U*	NA	
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**		**1**	**J**	**4.9**		1.2	U	**9.9**		**7.9**		**20**		NA	
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	0.82	U	**0.38**	**J**	0.82	U	**0.42**	J	0.82	U	9.7	U	NA	
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	**4.2**		**1.9**	**J**	2	U	**1.2**	J	**1.4**	**J**	**6.2**		NA	
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	1.60	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	1.6	U	**1.9**	**J**	1.6	U	**1.2**	J	**1.4**	**J**	2.6	U	NA	
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**		**55**		**32**		**25**		**37**		**32**		**52**		NA	
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	**1.3**		**2.8**		**0.56**	J	**0.67**	J	**2**		**1.9**	**J**	NA	
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*	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	*3.3*	*U*	NA	
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*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*4.2*	*U*	NA	
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	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	6.5	U	NA	
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	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	9.2	U	NA	
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*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*1.4*	*U*	NA	
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	**0.63**	**J**	1.2	U	1.2	U	**10**		1.2	U	7.4	U	NA	
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*	1.3	U	1.3	U	*2.5*	*U*	*2.5*	*U*	*4*	*U*	NA	
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	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	2.9	U	NA	
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	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	6.2	U	NA	
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*	*0.98*	*U*	*0.98*	*U*	*0.98*	*U*	*0.98*	*U*	*0.98*	*U*	*3.1*	*U*	NA	
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**	**0.49**	**J**	**1.3**	**J**	**1.1**	J	**17**		**0.76**	**J**	**22**		NA	
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	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.5	U	NA	
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	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2.9	U	NA	
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	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	5.4	U	NA	
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**	**2.1**	**J**	**3**	**J**	**2**	J	**1.6**	J	**2.5**	**J**	**2.4**	**J**	NA	
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	**1.7**		**2.8**		**0.53**	J	**1.4**	J	**2.3**		**1.6**	**J**	NA	
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*	*13*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*25*	*U*	NA	
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	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	8.5	U	NA	
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	**0.35**	**J**	**0.49**	**J**	**0.47**	J	**0.27**	J	**0.38**	**J**	8.2	U	NA	
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	**5.6**		**9.8**		**1.5**	J	**5.4**		**8.5**		**5.8**		NA	
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*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*1.2*	*U*	NA	
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	**3.5**		**4.4**		**0.94**	J	**2.3**		**2.7**		**2.6**	**J**	NA	
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	**1.2**	**J**	0.85	U	0.85	U	0.85	U	0.85	U	2.7	U	NA	
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	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	4.3	U	NA	
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**	**2.2**		**11**		**0.97**	J	**2.4**		**16**		**11**		NA	
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	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	**31**		NA	
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	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.9	U	NA	
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	2.1	U	2.1	U	2.1	U	**2.1**	J	**2.2**	**J**	3.4	U	NA	
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	**1.2**	**J**	**1.7**	**J**	**1.6**	J	**1.4**	J	**1.5**	**J**	**1.4**	**J**	NA	
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	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	8.3	U	NA	
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	1	U	1	U	1	U	1	U	1	U	1	U	1.6	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 limit of detection
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds at least one 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 2. Buildings 785/786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through January 2022)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	785VMP-4		785VMP-5		785VMP-5		785VMP-5		785VMP-5		785VMP-5		785VMP-5		785VMP-5		785IA-1		785IA-1		785IA-1		785IA-1		785IA-1		785IA-1		785IA-1		785OA-1		785OA-1		785OA-1	
Field Sample Identification			785-VMP-4_011422		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		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		785OA-1_1216		785OA-1_0317		785OA-1_0318	
Lab Sample Identification			JD38291-7R		320-23968-16		320-26740-4		320-37345-14		320-45741-15		320-48763-16		1911650B		20121888-16A		JD38291-8R		320-23968-17		320-26740-5		320-37345-15		320-45741-16		320-48763-17		1911650A		20121888A-17A		JD38291-5		320-23968-18		320-26740-6		320-37345-20	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Outdoor		Outdoor		Outdoor	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal	
Date of Collection			1/14/2022		12/1/2016		3/17/2017		3/21/2018		11/29/2018		3/25/2019		11/19/2019		12/2/2020		1/14/2022		12/1/2016		3/17/2017		3/21/2018		11/29/2018		3/25/2019		11/19/2019		12/2/2020		1/14/2022		12/1/2016		3/17/2017		3/21/2018	
Sample Depth (feet bgs / ags)			1		1		1		1		1		1		1		1		1		5		5		5		5		5		5		5		5		2		2		2	
Sample Collection Duration (hours)			8		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	2.2	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.1	U	2.2	U	2.2	U	1.1	U	1.1	U	0.055	U	0.055	U	0.055	U	0.044	U	**0.016**	J	0.0082	U	1.1	U	1.1	U	1.1	U
1,1,2,2-Tetrachloroethane	0.21	6.93	*2.7*	*U*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	**2.3**	J	*4*	*U*	*2.8*	U	*2.7*	*U*	*1.4*	*U*	*1.4*	*U*	NA		NA		NA		NA		NA		NA		*1.4*	*U*	*1.4*	*U*	*1.4*	*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	4.4	U	3.1	U	3.1	U	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA		3.1	U	3.1	U	3.1	U
1,1,2-Trichloroethane	0.77	25.4	*2.2*	*U*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*3.1*	*U*	*2.2*	*U*	*2.2*	*U*	*1.1*	*U*	*1.1*	*U*	NA		NA		NA		NA		NA		NA		*1.1*	*U*	*1.1*	*U*	*1.1*	*U*
1,1-Dichloroethane	7.7	254.1	1.6	U	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.3	U	1.6	U	1.6	U	0.81	U	0.81	U	NA		NA		NA		NA		NA		NA		0.81	U	0.81	U	0.81	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	2.3	U	1.6	U	1.6	U	1.6	U	1.6	U	0.040	U	0.040	U	0.040	U	0.032	U	0.043	U	0.004	U	1.6	U	1.6	U	1.6	U
1,2,4-Trichlorobenzene	8.8	290	4.5	U	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	**7.6**	J	*16*	*U*	*12*	*U*	4.5	U	*8.9*	*U*	*8.9*	*U*	NA		NA		NA		NA		NA		NA		*8.9*	*U*	*8.9*	*U*	*8.9*	*U*
1,2,4-Trimethylbenzene	260	8,580	2.0	U	2	U	**11**		2	U	2	U	**4.9**		**0.43**	J	**1.1**	J	2.0	U	2	U	2	U	NA		NA		NA		NA		NA		NA		2	U	2	U	2	U
1,2-Dibromoethane (EDB)	0.02	0.66	*4.6*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	**0.6**	J	*4.4*	*U*	*3.1*	*U*	*4.6*	*U*	*1.5*	*U*	*1.5*	*U*	NA		NA		NA		NA		NA		NA		*1.5*	*U*	*1.5*	*U*	*1.5*	*U*
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	2.4	U		U	2.4	U	**3.9**	J	3.5	U	2.4	U	2.4	U	2.4	U	2.4	U	NA		NA		NA		NA		NA		NA		2.4	U	2.4	U	2.4	U
1,2-Dichloroethane	0.47	15.5	*1.6*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*2.3*	*U*	*1.6*	*U*	*1.6*	*U*	*0.81*	*U*	*0.81*	*U*	NA		NA		NA		NA		NA		NA		*0.81*	*U*	*0.81*	*U*	*0.81*	*U*
1,2-Dichloropropane	3.3	108.9	1.8	U	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	2.7	U	1.9	U	1.8	U	*3.7*	*U*	*3.7*	*U*	NA		NA		NA		NA		NA		NA		*3.7*	*U*	*3.7*	*U*	*3.7*	*U*
1,3,5-Trimethylbenzene	260	8,580	2.0	U	2	U	**3.4**	J	2	U	2	U	**3**	J	2.8	U	**0.36**	J	2.0	U	2	U	2	U	NA		NA		NA		NA		NA		NA		2	U	2	U	2	U
1,3-Dichlorobenzene	NA	NA	4.2	U	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	2.4	U	NA		NA		NA		NA		NA		NA		**0.81**	J	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*	**3.7**	J	*3.5*	*U*	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	NA		NA		NA		NA		NA		NA		*2.4*	*U*	*2.4*	*U*	*2.4*	*U*
2-Butanone (MEK)	22,000	726,000	**2**	J	**1.5**	J	**5.7**		1.2	U	1.2	U	1.2	U	**8.9**		5	U	**1.9**	J	**0.83**	J	**0.88**	J	NA		NA		NA		NA		NA		NA		**2**	J	1.2	U	**0.67**	J
2-Hexanone	130	4,290	2.5	U	0.82	U	0.82	U	0.82	U	0.82	U	**1**	J	8.8	U	6.9	U	2.5	U	0.82	U	0.82	U	NA		NA		NA		NA		NA		NA		0.82	U	0.82	U	0.82	U
4-Ethyltoluene	NA	NA	2.9	U	2	U	**2.4**	J	2	U	2	U	**3.3**	J	2.8	U	**0.87**	J	2.9	U	2	U	2	U	NA		NA		NA		NA		NA		NA		2	U	2	U	2	U
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	**3.4**		1.6	U	1.6	U	**0.62**	J	2.4	U	1.6	U	1.6	U	1.6	U	1.6	U	NA		NA		NA		NA		NA		NA		1.6	U	1.6	U	1.6	U
Acetone	NA	NA	**7.6**		**45**		**30**		**8**	J	**150**		**7.3**	J	**39**		**5.2**	J	**16**		**6.8**	J	**9.2**	J	NA		NA		NA		NA		NA		NA		**18**		**3.6**	J	**5.7**	J
Benzene	1.6	52.8	**1.8**	J	**3.7**		**1.9**		**0.47**	J	**0.4**	J	**0.67**	J	**0.78**	J	**0.49**	J	1.3	U	**0.39**	J	**2.6**		**0.52**		**0.50**		**0.87**		**1.40**		**0.91**		**0.83**		**1.1**	J	**0.58**	J	**0.25**	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**	J	*3*	*U*	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	NA		NA		NA		NA		NA		NA		*2.1*	*U*	*2.1*	*U*	*2.1*	*U*
Bromodichloromethane	0.33	10.89	*2.7*	*U*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*3.8*	*U*	*2.7*	*U*	*2.7*	*U*	*1.3*	*U*	*1.3*	*U*	NA		NA		NA		NA		NA		NA		*1.3*	*U*	*1.3*	*U*	*1.3*	*U*
Bromoform	11	363	4.1	U	2.1	U	2.1	U	2.1	U	2.1	U	**1.8**	J	6	U	4.2	U	4.1	U	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA		2.1	U	2.1	U	2.1	U
Bromomethane	22	726	1.6	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	8.4	U	6.6	U	1.6	U	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA		3.1	U	3.1	U	3.1	U
Butadiene	0.41	NA	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*1.3*	*U*	*0.9*	*U*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	NA		NA		NA		NA		NA		NA		*0.88*	*U*	*0.88*	*U*	*0.88*	*U*
Carbon disulfide	3,100	102,300	1.2	U	**0.54**	J	1.2	U	1.2	U	1.2	U	1.2	U	6.7	U	**6.2**	J	1.2	U	1.2	U	**0.51**	J	NA		NA		NA		NA		NA		NA		1.2	U	1.2	U	1.2	U
Carbon tetrachloride	2	66	*2.5*	*U*	1.3	U	1.3	U	*2.5*	*U*	*2.5*	*U*	*2.5*	*U*	*3.6*	*U*	*2.5*	*U*	*2.5*	*U*	1.3	U	1.3	U	**0.34**		**0.59**		**0.34**		**0.47**		**0.47**		**0.31**		1.3	U	1.3	U	*2.5*	*U*
Chlorobenzene	220	7,260	1.8	U	0.92	U	0.92	U	0.92	U	0.92	U	**1.4**		2.6	U	1.9	U	1.8	U	0.92	U	0.92	U	NA		NA		NA		NA		NA		NA		0.92	U	0.92	U	**0.32**	J
Chloroethane	18,000	594,000	1.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.7	U	4.4	U	1.1	U	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA		2.1	U	2.1	U	2.1	U
Chloroform	0.53	17.49	*2*	*U*	*0.98*	*U*	*0.98*	*U*	*0.98*	*U*	*0.98*	*U*	*0.98*	*U*	*2.8*	*U*	*2*	*U*	*2*	*U*	*0.98*	*U*	*0.98*	*U*	NA		NA		NA		NA		NA		NA		*0.98*	*U*	*0.98*	*U*	*0.98*	*U*
Chloromethane	390	12,870	**1.8**		**0.48**	J	**1**	J	**0.89**	J	**0.72**	J	**0.72**	J	4.5	U	3.5	U	**0.89**	J	**0.87**	J	**1.6**	J	NA		NA		NA		NA		NA		NA		**0.95**	J	**1.5**	J	**1.6**	J
cis-1,2-Dichloroethene	180	5,940	1.6	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.3	U	1.6	U	1.6	U	0.79	U	0.79	U	0.040	U	0.040	U	0.040	U	**0.037**	J	0.043	U	0.0079	U	0.79	U	0.79	U	0.79	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	2,6	U	1.8	U	1.8	U	1.8	U	1.8	U	NA		NA		NA		NA		NA		NA		1.8	U	1.8	U	1.8	U
Dibromochloromethane	NA	NA	3.4	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	4.9	U	3.4	U	3.4	U	1.7	U	1.7	U	NA		NA		NA		NA		NA		NA		1.7	U	1.7	U	1.7	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.1**	J	**2.1**	J	**2.8**	J	**1.6**	J	**1.7**	J	**2.2**	J	**2.4**	J	**2.3**	J	**2.3**	J	**2.1**	J	**2.4**	J	NA		NA		NA		NA		NA		NA		**2.2**	J	**2.9**	J	**1.6**	J
Ethylbenzene	4.9	161.7	1.7	U	**0.47**	J	**5.8**		**0.27**	J	0.87	U	**1.6**	J	2.5	U	**0.57**	J	1.7	U	0.87	U	**1.3**	J	NA		NA		NA		NA		NA		NA		**0.98**	J	0.87	U	**2.1**	
Hexachlorobutadiene	0.56	18.48	*4.3*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	**8.7**	J	*23*	*U*	*18*	*U*	*4.3*	*U*	*13*	*U*	*13*	*U*	NA		NA		NA		NA		NA		NA		*13*	*U*	*13*	*U*	*13*	*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	7.8	U	6.1	U	1.4	U	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA		1.4	U	1.4	U	1.4	U
Methylene Chloride	1,200	39,600	**3.0**		**0.32**	J	**0.5**	J	**1.2**	J	0.69	U	**0.39**	J	7.5	U	5.9	U	1.4	U	**0.38**	J	**0.61**	J	**0.52**	J	**0.5**	J	0.35	U	0.7	U	0.54	UB	NA		**0.36**	J	**0.39**	J	**0.48**	J
m-Xylene & p-Xylene	880***	NA	2.6	U	**0.87**	J	**21**		**0.46**	J	0.87	U	**4.4**		**0.85**	J	**2.2**	J	2.6	U	0.87	U	**4.7**		NA		NA		NA		NA		NA		NA		**3.8**		**0.58**	J	**0.97**	J
Naphthalene	0.36	11.88	*3.1*	*U*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	**5.1**	J	*1.1*	*U*	**0.25**	J	*3.1*	*U*	*6.3*	*U*	*6.3*	*U*	NA		NA		NA		NA		NA		NA		*6.3*	*U*	*6.3*	*U*	*6.3*	*U*
o-Xylene	440	14,520	1.7	U	**0.34**	J	**9.9**		0.87	U	0.87	U	**2.2**		2.5	U	**0.69**	J	1.7	U	0.87	U	**1.7**		NA		NA		NA		NA		NA		NA		**1.3**	J	0.87	U	**0.30**	J
Styrene	4,400	145,200	2.6	U	**1.9**		0.85	U	**0.59**	J	0.85	U	**2.4**		2.4	U	**0.51**	J	2.6	U	0.85	U	0.85	U	NA		NA		NA		NA		NA		NA		**0.31**	J	0.85	U	**1.1**	J
Tetrachloroethene	47	1,551	0.68	U	1.4	U	1.4	U	**0.35**	J	1.4	U	**0.88**	J	3.9	U	2.7	U	0.68	U	1.4	U	1.4	U	0.14	U	0.14	U	0.14	U	**0.054**	J	**0.15**	J	**0.075**		1.4	U	**0.4**	J	**18**	
Toluene	22,000	726,000	**4.9**		**1.1**	J	**12**		**0.72**	J	**0.22**	J	**2.4**		**3.6**		**7.6**		2.3	U	**0.63**	J	**10**		NA		NA		NA		NA		NA		NA		**6.1**		**0.54**	J	**0.44**	J
trans-1,2-Dichloroethene	180	5,940	1.6	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	**4.6**		**1.1**	J	1.6	U	0.79	U	0.79	U	NA		NA		NA		NA		NA		NA		0.79	U	0.79	U	0.79	U
trans-1,3-Dichloropropene	NA	NA	2.7	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.6	U	1.8	U	2.7	U	0.91	U	0.91	U	NA		NA		NA		NA		NA		NA		0.91	U	0.91	U	0.91	U
Trichloroethene	3	99	0.43	U	**2.1**	J	2.1	U	**0.97**	J	**1.1**	J	**5.8**		3.1	U	**1.2**	J	0.43	U	2.1	U	2.1	U	**0.029**	J	0.054	U	0.054	U	**0.03**	J	**0.029**	J	**0.041**		2.1	U	**1.4**	J	**2.5**	J
Trichlorofluoromethane (Freon 11)	NA	NA	2.2	U	**1.3**	J	**1.5**	J	**1.6**	J	**1.3**	J	**1.5**	J	**1.3**	J	**0.97**	J	2.2	U	**1.2**	J	**1.4**	J	NA		NA		NA		NA		NA		NA		**1.3**	J	**1.4**	J	**1.4**	J
Vinyl acetate	880	29,040	2.1	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.6	U	5.9	U	2.1	U	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA		1.4	U	1.4	U	1.4	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1	U	1.5	U	1	U	1	U	1	U	1	U	0.026	U	0.026	U	0.026	U	0.02	U	0.028	U	0.0038	U	1	U	1	U	1	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 at least one 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 2. Buildings 785/786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through January 2022)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	785OA-1		785OA-1		785OA-1		785OA-1		785OA-1		785786-INF		785786-INF		785786-INF		785786-INF		785786-INF		785786-INF		785786-INF		786VMP-1		786VMP-1		786VMP-1		786VMP-1		786VMP-1		786VMP-1		786VMP-1		786VMP-1		786VMP-1	
Field Sample Identification			785OA-1_1118		785OA-1_0319		785-OA-1_1119		785-OA-1_1220		785-OA-1_011422		785786-INF_1116		785786-INF-0317		Not sampled; System non-operational		785786-INF-1118		785786-INF-0319		785786-INF-1119		785786-INF-1220		786VMP-1_1216		786VMP-1_0317		786VMP-1_0318		786VMP-1_1118		Not sampled; clogged vapor monitoring point		786-VMP-1_1119		786-VMP-1_1220		Not sampled; location inaccessible	
Lab Sample Identification			320-45741-21		320-48763-22		1911650B		20121888-22A		JD38291-4R		320-23968-2		320-26536-1				320-45741-11		320-48763-12		1911650B		20121888-12A		320-23968-19		320-26844-1		320-37345-16		320-45741-17				1911650B		20121888-18A			
Sample Location			Outdoor		Outdoor		Outdoor		Outdoor		Outdoor		Influent		Influent				Influent		Influent		Influent		Influent		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab				Sub-Slab		Sub-Slab			
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal				Normal		Normal		Normal		Normal		Normal		Normal		Normal		Normal				Normal		Normal			
Date of Collection			11/29/2018		3/25/2019		11/19/2019		12/2/2020		1/14/2022		11/28/2016		3/10/2017		3/21/2018		11/29/2018		3/26/2019		11/20/2019		12/2/2020		12/1/2016		3/21/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/2/2020		1/14/2022	
Sample Depth (feet bgs / ags)			2		2		2		2		2		NA		NA		NA		NA		NA		NA		NA		2.5		2.5		2.5		2.5		NA		2.5		2.5		NA	
Sample Collection Duration (hours)			8		8		8		8		8		Quick Grab		Quick Grab		NA		Quick Grab		Quick Grab		Quick Grab		Quick Grab		8		8		8		8		NA		8		8		NA	
VOCs (µg/m³)																																												
1,1,1-Trichloroethane	22,000	726,000	1.1	U	1.1	U	2.9	U	2	U	0.55	U	1.1	U	1.1	U	NA		**0.53**	J	**0.37**	**J**	3	U	2.1	U	2.8	U	1.1	U	**2.1**		1.1	U	NA		3.7	U	2.2	U	NA	
1,1,2,2-Tetrachloroethane	0.21	6.93	*1.4*	*U*	*1.4*	*U*	*3.7*	*U*	*2.6*	*U*	*0.69*	*U*	*1.4*	*U*	*1.4*	*U*	NA		*1.4*	*U*	*1.4*	*U*	*3.7*	*U*	*2.6*	*U*	*3.5*	*U*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	NA		*4.6*	*U*	*2.8*	*U*	NA	
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)	22,000	726,000	3.1	U	3.1	U	4.1	U	2.9	U	0.77	U	3.1	U	3.1	U	NA		3.1	U	3.1	U	4.2	U	2.9	U	7.8	U	3.1	U	3.1	U	3.1	U	NA		5.2	U	3.1	U	NA	
1,1,2-Trichloroethane	0.77	25.4	*1.1*	*U*	*1.1*	*U*	*2.9*	*U*	*2*	*U*	0.55	*U*	*1.1*	*U*	*1.1*	*U*	NA		*1.1*	*U*	*1.1*	*U*	*3*	*U*	*2.1*	*U*	*2.8*	*U*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	NA		*3.7*	*U*	*2.2*	*U*	NA	
1,1-Dichloroethane	7.7	254.1	0.81	U	0.81	U	2.2	U	1.5	U	0.40	U	0.81	U	0.81	U	NA		0.81	U	0.81	U	2.2	U	1.5	U	2.1	U	0.81	U	0.81	U	0.81	U	NA		2.7	U	1.7	U	NA	
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	2.1	U	1.5	U	0.40	U	1.6	U	1.6	U	NA		1.6	U	1.6	U	2.2	U	1.5	U	4.1	U	1.6	U	1.6	U	1.6	U	NA		2.7	U	1.6	U	NA	
1,2,4-Trichlorobenzene	8.8	290	*8.9*	*U*	*8.9*	*U*	*15*	*U*	*12*	*U*	1.1	*U*	*8.9*	*U*	*8.9*	*U*	NA		*8.9*	*U*	*8.9*	*U*	*15*	*U*	*12*	*U*	*23*	*U*	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	NA		*19*	*U*	*13*	*U*	NA	
1,2,4-Trimethylbenzene	260	8,580	2	U	2	U	**0.73**	**J**	1.8	U	0.49	U	2	U	**1.9**	**J**	NA		2	U	2	U	2.7	U	1.8	U	**48**	**D**	**10**		**49**		2	U	NA		**2.9**	**J**	**2.8**	**J**	NA	
1,2-Dibromoethane (EDB)	0.02	0.66	*1.5*	*U*	*1.5*	*U*	*4.1*	*U*	*2.9*	*U*	*1.2*	*U*	*1.5*	*U*	*1.5*	*U*	NA		*1.5*	*U*	*1.5*	*U*	*4.2*	*U*	*2.9*	*U*	*3.9*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	NA		*5.2*	*U*	*3.2*	*U*	NA	
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	3.2	U	2.2	U	0.60	U	2.4	U	2.4	U	NA		2.4	U	2.4	U	3.3	U	2.3	U	6.2	U	2.4	U	2.4	U	2.4	U	NA		4	U	2.5	U	NA	
1,2-Dichloroethane	0.47	15.5	*0.81*	*U*	*0.81*	*U*	*2.2*	*U*	*1.5*	*U*	0.40	U	*0.81*	*U*	*0.81*	*U*	NA		*0.81*	*U*	*0.81*	*U*	*2.2*	*U*	*1.5*	*U*	*2.1*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	NA		*2.7*	*U*	*1.7*	*U*	NA	
1,2-Dichloropropane	3.3	108.9	*3.7*	*U*	*3.7*	*U*	2.5	U	1.7	U	0.46	U	*3.7*	*U*	**1.1**	**J**	NA		*3.7*	*U*	*3.7*	*U*	2.5	U	1.7	*U*	**17**	**D**	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	NA		3.1	U	1.9	U	NA	
1,3,5-Trimethylbenzene	260	8,580	2	U	2	U	2.6	U	1.8	U	0.49	U	2	U	**2.2**	**J**	NA		2	U	2	U	2.7	U	1.8	U	**22**	**D**	**3.7**	**J**	**29**		2	U	NA		**1.2**	**J**	**0.94**	**J**	NA	
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	3.2	U	2.2	U	1.1	U	2.4	U	2.4	U	NA		2.4	U	2.4	U	3.3	U	2.3	U	6.2	U	**3.7**	**J**	2.4	U	2.4	U	NA		4	U	2.5	U	NA	
1,4-Dichlorobenzene	1.1	36.3	*2.4*	*U*	*2.4*	*U*	*3.2*	*U*	*2.2*	*U*	0.60	U	*2.4*	*U*	*2.4*	*U*	NA		*2.4*	*U*	*2.4*	*U*	*3.3*	*U*	*2.3*	*U*	*6.2*	*U*	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	NA		*4*	*U*	*2.5*	*U*	NA	
2-Butanone (MEK)	22,000	726,000	**2.6**		**1.7**	**J**	5.9	U	**2.6**	**J**	**0.74**		**2.6**		**7.1**		NA		**2.4**		**2.5**		**7.8**	**J**	4.6	U	3	U	**8.1**		**3.3**		**5.5**		NA		**2.4**	**J**	**47**		NA	
2-Hexanone	130	4,290	0.82	U	0.82	U	8.2	U	6.4	U	0.61	U	**0.4**	**J**	0.82	U	NA		0.82	U	0.82	U	8.4	U	6.4	U	2.1	U	**0.37**	**J**	0.82	U	0.82	U	NA		10	U	7	U	NA	
4-Ethyltoluene	NA	NA	2	U	2	U	2.6	U	1.8	U	0.74	U	2	U	2	U	NA		2	U	2	U	2.7	U	1.8	U	**25**	**D**	**3.8**	**J**	**19**		2	U	NA		**3.1**	**J**	**3**	**J**	NA	
4-Methyl-2-pentanone (MIBK)	13,000	429,000	1.6	U	1.6	U	2.2	U	1.5	U	0.41	U	1.6	U	1.6	U	NA		1.6	U	1.6	U	2.2	U	4.6	U	4.2	U	**4.4**		**4.5**		1.6	U	NA		2.8	U	**4.7**		NA	
Acetone	NA	NA	**12**		**10**	**J**	**11**	**J**	**16**		**5.9**		**13**		**25**		NA		**14**		**8**	**J**	**21**		**7.6**	**J**	**6**	**J D**	**31**		**41**		**36**		NA		**7.5**	**J**	**120**		NA	
Benzene	1.6	52.8	**0.32**	J	**0.68**	**J**	**1**	**J**	**0.4**	**J**	**1.2**		**0.3**	**J**	**3.6**		NA		**0.49**	J	0.64	U	**0.75**	**J**	1.2	U	**0.81**	**J D**	**1**	**J**	**3.8**		**0.41**	J	NA		**0.7**	**J**	**0.54**	**J**	NA	
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	*2.1*	*U*	*2.1*	*U*	*2.8*	*U*	*1.9*	*U*	*0.52*	*U*	*2.1*	*U*	*2.1*	*U*	NA		*2.1*	*U*	*2.1*	*U*	*2.8*	*U*	*2*	*U*	*5.3*	*U*	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	NA		*3.5*	*U*	*2.1*	*U*	NA	
Bromodichloromethane	0.33	10.89	*1.3*	*U*	*1.3*	*U*	*3.6*	*U*	*2.5*	*U*	*0.67*	*U*	*1.3*	*U*	*1.3*	*U*	NA		*1.3*	*U*	*1.3*	*U*	*3.6*	*U*	*2.5*	*U*	*3.4*	*U*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	NA		*4.5*	*U*	*2.8*	*U*	NA	
Bromoform	11	363	2.1	U	2.1	U	5.5	U	3.9	U	1.0	U	2.1	U	2.1	U	NA		2.1	U	2.1	U	5.6	U	3.9	U	5.3	U	2.1	U	2.1	U	2.1	U	NA		6.9	U	4.2	U	NA	
Bromomethane	22	726	3.1	U	3.1	U	7.8	U	6.1	U	0.39	U	3.1	U	3.1	U	NA		3.1	U	3.1	U	7.9	U	6.1	U	8	U	3.1	U	3.1	U	3.1	U	NA		9.8	U	6.6	U	NA	
Butadiene	0.41	NA	*0.88*	*U*	*0.88*	*U*	*1.2*	*U*	*0.83*	*U*	0.22	U	*0.88*	*U*	*0.88*	*U*	NA		*0.88*	*U*	*0.88*	*U*	*1.2*	*U*	*0.84*	*U*	*2.3*	*U*	*0.88*	*U*	**4.7**		*0.88*	*U*	NA		*1.5*	*U*	*0.91*	*U*	NA	
Carbon disulfide	3,100	102,300	1.2	U	1.2	U	6.2	U	**3.7**	**J**	0.31	U	**0.56**	**J**	**27**		NA		**8.5**		**1.2**	**J**	6.4	U	4.9	U	**1.3**	**J D**	**0.73**	**J**	**4.1**		**0.7**	J	NA		7.8	U	**13**		NA	
Carbon tetrachloride	2	66	*2.5*	*U*	*2.5*	*U*	*3.4*	*U*	*2.4*	*U*	0.63	U	1.3	U	1.3	U	NA		*2.5*	*U*	*2.5*	*U*	*3.4*	*U*	*2.4*	*U*	*3.2*	*U*	*2.5*	*U*	*2.5*	*U*	*2.5*	*U*	NA		*4.2*	*U*	*2.6*	*U*	NA	
Chlorobenzene	220	7,260	0.92	U	0.92	U	2.5	U	1.7	U	0.46	U	0.92	U	0.92	U	NA		0.92	U	0.92	U	2.5	U	1.7	U	2.4	U	0.92	U	0.92	U	0.92	U	NA		3.1	U	1.9	U	NA	
Chloroethane	18,000	594,000	2.1	U	2.1	U	5.3	U	4.1	U	0.26	U	2.1	U	2.1	U	NA		2.1	U	2.1	U	5.4	U	4.2	U	5.4	U	2.1	U	2.1	U	2.1	U	NA		6.6	U	4.5	U	NA	
Chloroform	0.53	17.49	*0.98*	*U*	*0.98*	*U*	*2.6*	*U*	*1.8*	*U*	0.49	U	**1.4**	**J**	**0.82**	**J**	NA		**1.3**	J	**1.1**	**J**	*2.6*	*U*	*1.8*	*U*	*2.5*	*U*	*0.98*	*U*	**0.85**	J	*0.98*	*U*	NA		*3.3*	*U*	*2*	*U*	NA	
Chloromethane	390	12,870	**1.1**	J	**1.6**	**J**	**1.3**	**J**	**1.3**	**J**	**1.4**		**0.41**	**J**	0.83	U	NA		0.83	U	0.83	U	**1.2**	**J**	3.2	U	2.1	U	**1.4**	**J**	**2.2**		**3.6**		NA		5.2	U	3.5	U	NA	
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	2.1	U	1.5	U	0.40	U	**0.81**	**J**	**0.61**	**J**	NA		**0.62**	J	**0.56**	**J**	2.2	U	1.5	U	2	U	0.79	U	0.79	U	0.79	U	NA		2.7	U	1.6	U	NA	
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	2.4	U	1.7	U	0.45	U	1.8	U	1.8	U	NA		1.8	U	1.8	U	2.5	U	1.7	U	4.6	U	1.8	U	1.8	U	1.8	U	NA		3	U	1.9	U	NA	
Dibromochloromethane	NA	NA	1.7	U	1.7	U	4.6	U	3.2	U	0.85	U	1.7	U	1.7	U	NA		1.7	U	1.7	U	4.6	U	3.2	U	4.4	U	1.7	U	1.7	U	1.7	U	NA		5.7	U	3.5	U	NA	
Dichlorodifluoromethane (Freon 12)	440	14,520	**1.8**	J	**2.4**	**J**	**2.4**	**J**	**2.4**	**J**	**2.5**		**2.6**	**J**	**2.6**	**J**	NA		**1.7**	J	**2.3**	**J**	**2.2**	**J**	**1.9**	**J**	**2.5**	**J D**	**2.6**	**J**	**1.7**	J	**1.7**	J	NA		**2.6**	**J**	**2.2**	**J**	NA	
Ethylbenzene	4.9	161.7	0.87	U	**0.49**	**J**	2.3	U	1.6	U	0.43	U	0.87	U	**4.1**		NA		0.87	U	0.87	U	2.4	U	1.6	U	**150**	**D**	**4.4**		**32**		0.87	U	NA		2.9	U	**15**		NA	
Hexachlorobutadiene	0.56	18.48	*13*	*U*	*13*	*U*	*21*	*U*	*17*	*U*	*1.1*	*U*	*13*	*U*	*13*	*U*	NA		*13*	*U*	*13*	*U*	*22*	*U*	*17*	*U*	*33*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	NA		*27*	*U*	*18*	*U*	NA	
Methyl tert-butyl ether	47	1,551	1.4	U	1.4	U	7.2	U	5.6	U	0.36	U	1.4	U	1.4	U	NA		1.4	U	1.4	U	7.4	U	5.7	U	3.7	U	1.4	U	1.4	U	1.4	U	NA		9.1	U	6.2	U	NA	
Methylene Chloride	1,200	39,600	0.69	U	0.69	U	7	U	5.4	U	**0.76**		**0.34**	**J**	0.69	U	NA		0.69	U	0.69	U	7.1	U	5.5	U	1.8	U	**1.2**	**J**	**0.56**	J	0.69	U	NA		8.8	U	5.9	U	NA	
m-Xylene & p-Xylene	880***	NA	0.87	U	**1.8**	**J**	**1.4**	**J**	**0.46**	**J**	**0.83**		**0.85**	**J**	**10**		NA		0.87	U	0.87	U	**0.46**	**J**	1.6	U	**650**	**D**	**15**		**160**		**0.58**	J	NA		**2.3**	**J**	**66**		NA	
Naphthalene	0.36	11.88	*6.3*	*U*	*6.3*	*U*	*1*	*U*	*0.82*	*U*	*0.79*	*U*	*6.3*	*U*	*6.3*	*U*	NA		*6.3*	*U*	*6.3*	*U*	*1.1*	*U*	*0.82*	*U*	*16*	*U*	*6.3*	*U*	**9.1**	**J**	*6.3*	*U*	NA		**2.8**	**J**	**0.37**	**J**	NA	
o-Xylene	440	14,520	0.87	U	**0.68**	**J**	2.3	U	1.6	U	0.43	U	**0.28**	**J**	**2.9**		NA		0.87	U	0.87	U	2.4	U	1.6	U	**260**	**D**	**7.9**		**89**		**0.27**	J	NA		**1.6**	**J**	**20**		NA	
Styrene	4,400	145,200	0.85	U	0.85	U	2.3	U	1.6	U	0.64	U	0.85	U	0.85	U	NA		0.85	U	0.85	U	2.3	U	1.6	U	2.2	U	**1.3**	**J**	0.85	U	0.85	U	NA		2.9	U	**3.9**		NA	
Tetrachloroethene	47	1,551	**0.44**	J	1.4	U	3.6	U	2.5	U	**0.34**		1.4	U	**0.6**	**J**	NA		**10**		**13**		3.7	U	2.6	U	**1.3**	**J D**	1.4	U	**5.3**		1.4	U	NA		**2**	**J**	**1.6**	**J**	NA	
Toluene	22,000	726,000	**0.38**	J	**3.8**		**3.3**		**0.49**	**J**	**1.9**		**1.4**	**J**	**43**		NA		0.75	U	0.75	U	**1**	**J**	**0.21**	**J**	**240**	**D**	**14**		**8.2**		**0.79**	J	NA		**1**	**J**	**13**		NA	
trans-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	**1.3**	**J**	1.5	U	0.40	U	0.79	U	0.79	U	NA		0.79	U	0.79	U	2.2	U	1.5	U	2	U	0.79	U	0.79	U	0.79	U	NA		2.7	U	1.6	U	NA	
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	2.4	U	1.7	U	0.68	U	0.91	U	0.91	U	NA		0.91	U	0.91	U	2.5	U	1.7	U	2.3	U	0.91	U	0.91	U	0.91	U	NA		3	U	1.9	U	NA	
Trichloroethene	3	99	2.1	U	2.1	U	2.9	U	2	U	0.11	U	**0.97**	**J**	**11**		NA		**130**		**160**		2.9	U	2	U	**12**	**D**	2.1	U	**89**		**1.1**	J	NA		**3.2**	**J**	2.2	U	NA	
Trichlorofluoromethane (Freon 11)	NA	NA	**1.5**	J	**1.1**	**J**	**1.5**	**J**	**1.2**	**J**	**1.3**		**1.5**	**J**	2.2	U	NA		**1.3**	J	**1.3**	**J**	**1.7**	**J**	**1.2**	**J**	5.8	U	**1.4**	**J**	**2.1**	J	**1.3**	J	NA		**1.5**	**J**	**1.2**	**J**	NA	
Vinyl acetate	880	29,040	1.4	U	1.4	U	7.1	U	5.5	U	**0.56**		1.4	U	**1.1**	**J**	NA		1.4	U	1.4	U	7.2	U	5.5	U	3.6	U	1.4	U	1.4	U	1.4	U	NA		8.9	U	6	U	NA	
Vinyl chloride	2.8	92.4	1	U	1	U	1.4	U	0.96	U	0.26	U	1	U	1	U	NA		1	U	1	U	1.4	U	0.97	U	2.6	U	**0.35**	**J**	1	U	1	U	NA		1.7	U	1	U	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 limit of detection
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds at least one 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 2. Buildings 785/786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through January 2022)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	786VMP-2		786VMP-2		786VMP-2		786VMP-2		786VMP-2		786VMP-2		786VMP-2		786VMP-3		786VMP-3		786VMP-3		786VMP-3		786VMP-3		786VMP-3		786VMP-3		786VMP-3		786VMP-3	
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		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	
Lab Sample Identification			320-23968-20		320-26740-7		320-37345-17		320-45741-18		320-48763-19		1911650B		20121888-19A		JD38291-2R		320-23968-21		320-26740-8		320-37345-18		320-45741-19		320-48763-20		1911650B		20121888B-20A		JD38291-3R	
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	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		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		12/1/2016		3/17/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/2/2020		1/14/2022	
Sample Depth (feet bgs / ags)			2.5		2.5		2.5		2.5		2.5		2.5		2.5		1		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	
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	1.1	U	1.1	U	**0.66**	J	1.1	U	1.1	U	3.5	U	2.2	U	2.2	U
1,1,2,2-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*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	*4.4*	*U*	*2.8*	*U*	*2.7*	*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	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	4.9	U	3.1	U	3.1	U
1,1,2-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*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	*3.5*	*U*	*2.2*	*U*	*2.2*	*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	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.6	U	1.6	U	1.6	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	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.6	U	1.6	U	1.6	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	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	*18*	*U*	*12*	*U*	4.5	*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**	2.0	U	**2.2**	**J**	**4.8**		2	U	2	U	2	U	**0.8**	**J**	2	U	2.0	U
1,2-Dibromoethane (EDB)	0.02	0.66	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	5	*U*	*3.1*	*U*	*4.6*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	*4.9*	*U*	*3.1*	*U*	*4.6*	*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	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.9	U	2.4	U	2.4	U
1,2-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*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*2.6*	*U*	*1.6*	*U*	*1.6*	*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	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	3	U	1.8	U	1.8	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**	2.0	U	**0.75**	**J**	**1.7**	**J**	2	U	2	U	2	U	3.2	U	2	U	2.0	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	**2.3**	**J**	2.4	U	2.4	U	2.4	U	3.9	U	2.4	U	4.2	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*	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	*3.9*	*U*	*2.4*	*U*	*2.4*	*U*	*2.4*	*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	**2.9**		**6.1**		**7**		**0.72**	J	**3.6**		**12**		**3.4**	**J**	**1.5**	
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	0.82	U	0.82	U	**1.6**		0.82	U	**0.6**	**J**	9.9	U	6.9	U	2.5	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	2	U	**1.9**	**J**	2	U	2	U	**0.71**	**J**	2	U	2.9	U		
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	1.6	U	**3.1**	**J**	1.6	U	1.6	U	**0.73**	**J**	2.6	U	1.6	U	1.6	U
Acetone	NA	NA	**17**		**45**		**11**	J	**5.7**	J	**28**		**11**	**J**	**3.3**	**J**	**4.0**		**30**		**37**		**21**		**16**		**18**		**42**		**12**	**J**	**14**	
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	**1.9**		**2.2**		**0.49**	J	0.64	U	**0.38**	**J**	**0.96**	**J**	**0.42**	**J**	1.3	U
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*	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	*3.3*	*U*	*2.1*	*U*	*2.1*	*U*	*2.1*	*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*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	*4.3*	*U*	*2.7*	*U*	*2.7*	*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	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	6.6	U	4.2	U	4.1	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	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	9.4	U	6.5	U	1.6	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*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	*1.4*	*U*	*0.89*	*U*	*0.88*	*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	1.2	U	**0.78**	**J**	**24**		1.2	U	1.2	U	7.5	U	**15**		1.2	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*	1.3	U	1.3	U	*2.5*	*U*	*2.5*	*U*	*4*	*U*	*2.5*	*U*	*2.5*	*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	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	3	U	1.8	U	1.8	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	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	6.4	U	4.4	U	1.1	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*	*0.98*	*U*	*0.98*	*U*	**0.49**	J	*0.98*	*U*	*3.1*	*U*	*2*	*U*	*2*	*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**		**0.57**	**J**	**1**	**J**	**0.84**	J	**0.54**	J	0.83	U	5	U	3.4	U	**1.5**	
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	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.6	U	1.6	U	1.6	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	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2.9	U	1.8	U	1.8	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	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	5.5	U	3.4	U	3.4	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**		**2.3**	**J**	**2.9**	**J**	**1.5**	J	**1.8**	J	**2.2**	**J**	**2.7**	**J**	**2.3**	**J**	**2.1**	
Ethylbenzene	4.9	161.7	**14**		**2.5**		**5.5**		**0.73**	J	**4.8**		**11**		**4.3**		**3.4**		**2**		**2.9**		**0.29**	J	0.87	U	0.87	U	2.8	U	**0.25**	**J**	1.7	U
Hexachlorobutadiene	0.56	18.48	*13*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*26*	*U*	*18*	*U*	*4.3*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*26*	*U*	*18*	*U*	*4.3*	*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	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	8.7	U	6	U	1.4	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	**0.41**	**J**	**0.57**	**J**	**0.42**	J	0.69	U	**0.26**	**J**	8.4	U	5.8	U	1.4	U
m-Xylene & p-Xylene	880***	NA	**72**		**8.2**		**33**		**3.4**	J	**25**		**63**		**20**		**16**		**7.9**		**10**		**1.1**	J	0.87	U	**0.7**	**J**	**1.6**	**J**	**1.1**	**J**	2.6	U
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*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	**0.51**	**J**	*0.88*	*U*	*3.1*	*U*
o-Xylene	440	14,520	**24**		**4**		**11**		**1.1**	J	**7.1**		**19**		**7.8**		**6.5**		**2.7**		**4.6**		**0.52**	J	0.87	U	**0.36**	**J**	2.8	U	**0.52**	**J**	1.7	U
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	**0.68**	**J**	0.85	U	0.85	U	0.85	U	0.85	U	2.7	U	**0.84**	**J**	2.6	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	**2.7**		1.4	U	**3.9**		1.4	U	1.4	U	**3.4**	**J**	**2.7**	**J**	0.68	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**		**11**		**11**		**0.55**	J	0.75	U	**0.31**	**J**	**1.4**	**J**	**0.66**	**J**	2.3	U
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	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.6	U	1.6	U	1.6	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	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.9	U	1.8	U	2.7	U
Trichloroethene	3	99	**0.88**	**J**	2.1	U	**200**		**0.81**	J	**6.3**		**5**		**2.6**	**J**	**2.1**		2.1	U	2.1	U	**40**		2.1	U	**2.2**	**J**	**4.6**		**15**		**1.5**	
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	**1.3**	**J**	**1.6**	**J**	**1.6**	J	**1.2**	J	**1.2**	**J**	**1.2**	**J**	**1.1**	**J**	2.2	U
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	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	8.5	U	5.9	U	2.1	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	1	U	1	U	1	U	1	U	1	U	1.6	U	1	U	1	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 at least one 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 2. Buildings 785/786 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through January 2022)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	786IA-1		786IA-1		786IA-1		786IA-1		786IA-1		786IA-1		786IA-1		786IA-1		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**			
Lab Sample Identification			**320-23968-22**		**320-26740-9**		**320-37345-19**		**320-45741-20**		**320-48763-21**		**1911650A**		**2012188A-21B**		**JD38291-1**			
Sample Location			**Indoor**		**Indoor**		**Indoor**		**Indoor**		**Indoor**		**Indoor**		**Indoor**		**Indoor**			
Sample Type			**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**			
Sample Depth (feet bgs / ags)			**5**		**5**		**5**		**5**		**5**		**5**		**5**		**5**			
Sample Collection Duration (hours)			**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		
1,1,2,2-Tetrachloroethane	0.21	6.93	*1.4*	*U*	*1.4*	*U*	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			
1,1,2-Trichloroethane	0.77	25.4	*1.1*	*U*	*1.1*	*U*	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			
1,1-Dichloroethene	880	29,040	1.6	U	1.6	U	0.040	U	0.040	U	0.040	U	0.042	U	0.044	U	0.0040	U		
1,2,4-Trichlorobenzene	8.8	290	*8.9*	*U*	*8.9*	*U*	NA		NA		NA		NA		NA		NA			
1,2,4-Trimethylbenzene	260	8,580	**2**	**J**	**1.8**	**J**	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			
1,2-Dichlorobenzene	880	29,040	2.4	U	2.4	U	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			
1,2-Dichloropropane	3.3	108.9	*3.7*	*U*	*3.7*	*U*	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			
1,3-Dichlorobenzene	NA	NA	2.4	U	2.4	U	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			
2-Butanone (MEK)	22,000	726,000	1.2	U	**0.76**	**J**	NA		NA		NA		NA		NA		NA			
2-Hexanone	130	4,290	0.82	U	0.82	U	NA		NA		NA		NA		NA		NA			
4-Ethyltoluene	NA	NA	**0.99**	**J**	**1.1**	**J**	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			
Acetone	NA	NA	**2.3**	**J**	**6.3**	**J**	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**			
Benzyl chloride (alpha - chlorotoluene)	0.25	8.25	*2.1*	*U*	*2.1*	*U*	NA		NA		NA		NA		NA		NA			
Bromodichloromethane	0.33	10.89	*1.3*	*U*	*1.3*	*U*	NA		NA		NA		NA		NA		NA			
Bromoform	11	363	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA			
Bromomethane	22	726	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA			
Butadiene	0.41	NA	*0.88*	*U*	*0.88*	*U*	NA		NA		NA		NA		NA		NA			
Carbon disulfide	3,100	102,300	1.2	U	1.2	U	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**			
Chlorobenzene	220	7,260	0.92	U	0.92	U	NA		NA		NA		NA		NA		NA			
Chloroethane	18,000	594,000	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA			
Chloroform	0.53	17.49	*0.98*	*U*	*0.98*	*U*	NA		NA		NA		NA		NA		NA			
Chloromethane	390	12,870	**1.2**	**J**	**1.4**	**J**	NA		NA		NA		NA		NA		NA			
cis-1,2-Dichloroethene	180	5,940	0.79	U	0.79	U	0.040	U	0.040	U	0.040	U	0.042	U	0.044	U	0.0079	U		
cis-1,3-Dichloropropene	NA	NA	1.8	U	1.8	U	NA		NA		NA		NA		NA		NA			
Dibromochloromethane	NA	NA	1.7	U	1.7	U	NA		NA		NA		NA		NA		NA			
Dichlorodifluoromethane (Freon 12)	440	14,520	**2**	**J**	**2.6**	**J**	NA		NA		NA		NA		NA		NA			
Ethylbenzene	4.9	161.7	**0.57**	**J**	**0.29**	**J**	NA		NA		NA		NA		NA		NA			
Hexachlorobutadiene	0.56	18.48	*13*	*U*	*13*	*U*	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			
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			
m-Xylene & p-Xylene	880***	NA	**2.6**	**J**	**1.3**	**J**	NA		NA		NA		NA		NA		NA			
Naphthalene	0.36	11.88	*6.3*	*U*	*6.3*	*U*	NA		NA		NA		NA		NA		NA			
o-Xylene	440	14,520	**1**	**J**	**0.71**	**J**	NA		NA		NA		NA		NA		NA			
Styrene	4,400	145,200	**0.38**	**J**	0.85	U	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	0.010	U		
Toluene	22,000	726,000	**2**		**1.1**	**J**	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			
trans-1,3-Dichloropropene	NA	NA	0.91	U	0.91	U	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		
Trichlorofluoromethane (Freon 11)	NA	NA	**1.3**	**J**	**1.3**	**J**	NA		NA		NA		NA		NA		NA			
Vinyl acetate	880	29,040	1.4	U	1.4	U	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		

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 at least one 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

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Tables

Table 3. January 2022 TCE Sampling Results
USEPA - Soil Vapor/Indoor Air Matrix - June 2017 Update - TCE Cancer (Commercial/Industrial)
Former Griffiss Air Force Base, Rome, NY

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-1 -1.6/0.075/January 2022 774VMP-2 - 40/0.075/January 2022 774VMP-3 - 0.43 U/0.075/January 2022 776VMP-1 - 0.43 U/0.039/January/March 2022 776VMP-2 - 0.43 U/0.039/January/March 2022 *776VMP-2 - 0.43 U (FD)/0.039/January/March 2022* 776VMP-3 - 0.64 J/0.039/January/March 2022 785VMP-2 - 3.1 J/0.041/January 2022 *785VMP-2 - 7.5 J (FD)/0.041/January 2022* 785VMP-4 - 0.43 U/0.041/January 2022 785VMP-5 - 0.43 U/0.041/January 2022 786VMP-2 - 2.1/0.0081 U/January 2022 786VMP-3 - 1.5/0.0081 U/January 2022	(2) Investigate	(3) Investigate
1,000	(4) Monitor	(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*)
786VMP-1 - Is not shown in the table. The VMP vault lid was wedged closed and would not open.
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 4. January 2022 TCE Sampling Results
USEPA - Soil Vapor/Indoor Air Matrix - June 2017 Update - TCE Non-Cancer (Commercial/Industrial)
Former Griffiss Air Force Base, Rome, NY

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 - 5.5E-03/8.5E-03/January 2022 774VMP-2 - 1.4E-01/8.5E-03/January 2022 774VMP-3 - 1.5E-03/8.5E-03/January 2022 776VMP-1 - 1.5E-03/4.4E-03/January 2022 776VMP-2 - 1.5E-03/4.4E-03/January 2022 *776VMP-2 - 1.5E-03 (FD)/4.4E-03/January 2022* 776VMP-3 - 2.2E-03/4.4E-03/January 2022 785VMP-2 - 1.1E-02/4.7E-03/January 2022 *785VMP-2 - 2.6E-02(FD)/4.7E-03/January 2022* 785VMP-4 - 1.5E-03/4.7E-03/January 2022 785VMP-5 - 1.5E-03/4.7E-03/January 2022 786VMP-2 - 7.2E-03/9.2E-04/January 2022 786VMP-3 - 5.1E-03/9.2E-04/January 2022	(2) Investigate or Pursue Remediation
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*)
785VMP-4 - Is not shown in the table due to sample container malfunction.
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 5. January 2022 TCE Sampling Results
NYSDOH - Soil Vapor/Indoor Air Matrix A - May 2017 Update
Former Griffiss Air Force Base, Rome, NY

Analytes Assigned:
Trichloroethene (TCE), cis-1,2-Dichloroethene (c12-DCE), 1,1-Dichloroethene (11-DCE), Carbon Tetrachloride

	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 774VMP-1 -1.6/0.075/January 2022 774VMP-3 - 0.43 U/0.075/January 2022 776VMP-1 - 0.43 U/0.039/January/March 2022 776VMP-2 - 0.43 U/0.039/January/March 2022 776VMP-2 - 0.43 U (FD)/0.039/January/March 2022 776VMP-3 - 0.64 J/0.039/January/March 2022 785VMP-2 - 3.1 J/0.041/January 2022 785VMP-4 - 0.43 U/0.041/January 2022 785VMP-5 - 0.43 U/0.041/January 2022 786VMP-3 - 1.5/0.0081 U/January 2022	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	4. No Further action 774VMP-2 - 40/0.075/January 2022 *785VMP-2 - 7.5 J (FD)/0.041/January 2022*	5. MONITOR	6. MITIGATE
60 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

Notes
µg/m^3 = micrograms per cubic meter
FD - Field Duplicate (results are shown in *italics*)
785VMP-4 - Is not shown in the table due to sample container malfunction.
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 6. Buildings 774/776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through January 2022)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	774VMP-1		774VMP-1		774VMP-1		774VMP-1		774VMP-1		774VMP-1		774VMP-1		774VMP-2		774VMP-2		774VMP-2		774VMP-2		774VMP-2		774VMP-2		774VMP-2		774VMP-2	
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		774VMP-2-1216		774VMP-2_0317		774VMP-2_0318		774VMP-2_1118		774VMP-2_0319		774VMP-2_1119		774VMP-2_1220		774-VMP-2_011422	
Lab Sample Identification			320-23968-3		320-26686-1		320-37345-1		320-45741-2		320-48763-2		19116508		20121888-02A		JD38291-10R		320-23968-4		320-26686-2		320-37345-2		Not sampled; failed helium test		320-48763-3		19116508		20121888-03A		JD38291-11R	
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	
Sample Type			Normal		Normal		Normal		Normal		Normal		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		12/1/2016		3/16/2017		3/21/2018				3/25/2019		11/20/2019		12/1/2020		1/14/2022	
Sample Depth (feet bgs / ags)			1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1	
Sample Collection Duration (hours)			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	**0.4**	**J**	1.1	U	1.1	U	**2.1**		**5.3**		**28**		**6.3**		2.2	U	1.1	U	1.1	U	1.1	U	NA		1.1	U	4.1	U	**1.7**	**J**	**7.1**	
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*	*1.4*	*U*	*1.4*	*U*	*1.4*	*U*	NA		*1.4*	*U*	*5.1*	*U*	*2.8*	*U*	*2.7*	*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	3.1	U	3.1	U	3.1	U	NA		3.1	U	5.7	U	3.2	U	3.1	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*	*1.1*	*U*	*1.1*	*U*	*1.1*	*U*	NA		*1.1*	*U*	*4.1*	*U*	*2.2*	*U*	*2.2*	*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	0.81	U	0.81	U	0.81	U	NA		0.81	U	3	U	1.7	U	1.6	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	1.6	U	1.6	U	1.6	U	NA		1.6	U	3	U	1.6	U	1.6	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	*8.9*	*U*	*8.9*	*U*	*8.9*	*U*	NA		*8.9*	*U*	*21*	*U*	*13*	*U*	4.5	*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	2	U	**15**		2	U	NA		2	U	**1.6**	**J**	2	U	2.0	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*	*1.5*	*U*	*1.5*	*U*	*1.5*	*U*	NA		*1.5*	*U*	*5.7*	*U*	*3.2*	*U*	*4.6*	*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	2.4	U	2.4	U	2.4	U	NA		2.4	U	4.5	U	2.5	U	2.4	U
1,2-Dichloroethane	0.47	15.5	*0.8*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	*2.3*	*U*	*1.7*	*U*	*1.6*	*U*	*0.81*	*U*	*0.81*	*U*	*0.81*	*U*	NA		*0.81*	*U*	*3*	*U*	*1.7*	*U*	*1.6*	*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	*3.7*	*U*	*3.7*	*U*	*3.7*	*U*	NA		*3.7*	*U*	*3.4*	U	1.9	U	1.8	U
1,3,5-Trimethylbenzene	260	8,580	2	U	2	U	2.0	U	2.0	U	2	U	2.8	U	2	U	2.0	U	2	U	**5**		2	U	NA		2	U	**0.63**	**J**	2	U	2.0	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	**6.2**		2.4	U	NA		2.4	U	4.5	U	2.5	U	4.2	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*	*2.4*	*U*	*2.4*	*U*	*2.4*	*U*	NA		*2.4*	*U*	*4.5*	*U*	*2.5*	*U*	*2.4*	*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	**1.5**	**J**	**6.5**		**1.2**	J	NA		**2.1**	**J**	**2.6**	**J**	**2**	**J**	**3.5**	
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	0.82	U	0.82	U	0.82	U	NA		0.82	U	11	U	7.1	U	2.5	U
4-Ethyltoluene	NA	NA	2	U	2	U	2	U	2	U	2	U	2.8	U	2	U	2.9	U	2	U	**5**		2	U	NA		2	U	**1.6**	**J**	2	U	2.9	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	1.6	U	**6.4**		1.6	U	NA		1.6	U	**3.2**	**J**	1.7	U	1.6	U
Acetone	NA	NA	**12**		**32**		**21**		**20**		**40**		**17**		**27**		**13**		**13**		**23**		**21**		NA		**39**		**32**		**33**		**77.9**	
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	**0.51**	**J**	**2.7**		**0.55**	J	NA		**0.4**	**J**	**1.1**	**J**	1.3	U	1.3	U
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*	*2.1*	*U*	*2.1*	*U*	*2.1*	*U*	NA		*2.1*	*U*	*3.9*	*U*	*2.1*	*U*	*2.1*	*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*	*1.3*	*U*	*1.3*	*U*	*1.3*	*U*	NA		*1.3*	*U*	*5*	*U*	*2.8*	*U*	*2.7*	*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	2.1	U	2.1	U	2.1	U	NA		2.1	U	7.7	U	4.3	U	4.1	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	3.1	U	3.1	U	3.1	U	NA		3.1	U	11	U	6.7	U	1.6	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*	*0.88*	*U*	*0.88*	*U*	*0.88*	*U*	NA		*0.88*	*U*	*1.6*	*U*	*0.92*	*U*	*0.88*	*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	**1.4**	**J**	1.2	U	1.2	U	NA		**2.7**		8.7	U	5.4	U	1.2	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*	1.3	U	1.3	U	*2.5*	*U*	NA		*2.5*	*U*	*4.7*	*U*	*2.6*	*U*	*2.5*	*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	0.92	U	0.92	U	0.92	U	NA		0.92	U	3.4	U	1.9	U	1.8	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	2.1	U	2.1	U	2.1	U	NA		2.1	U	7.4	U	4.6	U	1.1	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*	*0.98*	*U*	*0.98*	*U*	*0.98*	*U*	NA		**0.86**	**J**	*3.6*	*U*	*2*	*U*	**2.7**	J
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	**1.3**	**J**	**0.99**	**J**	**1**	J	NA		**1.4**	**J**	5.8	U	3.6	U	0.83	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	0.79	U	0.79	U	0.79	U	NA		0.79	U	3	U	1.6	U	1.6	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	1.8	U	1.8	U	1.8	U	NA		1.8	U	3.4	U	1.9	U	1.8	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	1.7	U	1.7	U	1.7	U	NA		1.7	U	6.4	U	3.5	U	3.4	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**	**2.4**	**J**	**2.7**	**J**	**1.8**	J	NA		**2.4**	**J**	**3.4**	**J**	**2.3**	**J**	**2.2**	**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	0.87	U	**11**		**0.4**	J	NA		**0.29**	**J**	3.2	U	1.8	U	1.7	U
Hexachlorobutadiene	0.56	18.48	*13*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	*22*	*U*	*18*	*U*	*4.3*	*U*	*13*	*U*	*13*	*U*	*13*	*U*	NA		*13*	*U*	*30*	*U*	*18*	*U*	*4.3*	*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	1.4	U	1.4	U	1.4	U	NA		1.4	U	10	U	6.2	U	1.4	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	**0.38**	**J**	**0.56**	**J**	**0.58**	J	NA		**0.48**	**J**	9.7	U	6	U	1.4	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	**0.46**	**J**	**37**		**0.48**	J	NA		**0.67**	**J**	**1.9**	**J**	**0.88**	**J**	2.6	U
Naphthalene	0.36	11.88	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	*1.1*	*U*	**0.52**	**J**	*3.1*	*U*	*6.3*	*U*	*6.3*	*U*	*6.3*	*U*	NA		*6.3*	*U*	**0.6**	**J**	**0.81**	**J**	*3.1*	*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	0.87	U	**16**		0.87	U	NA		**0.32**	**J**	**1.4**	**J**	1.8	U	1.7	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	0.85	U	0.85	U	0.85	U	NA		**0.33**	**J**	3.2	U	1.8	U	2.6	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	1.4	U	1.4	U	1.4	U	NA		1.4	U	5.1	U	2.8	U	0.68	U
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	**0.81**	**J**	**35**		**1.1**	J	NA		**0.73**	**J**	**7.4**		**1.4**	**J**	**1.7**	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	0.79	U	0.79	U	0.79	U	NA		0.79	U	3	U	1.6	U	1.6	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	0.91	U	0.91	U	0.91	U	NA		0.91	U	3.4	U	1.9	U	2.7	U
Trichloroethene	3	99	**0.68**	**J**	2.1	U	2.1	U	2.1	U	**0.67**	**J**	**29**		**35**		**1.6**		2.1	U	2.1	U	**0.66**	J	NA		**0.64**	**J**	4	U	**18**		**40**	
Trichlorofluoromethane (Freon 11)	NA	NA	**8.9**		**5.4**		**8.4**		**7.8**		3.8	J	**7**		**3.3**	**J**	**7.9**		**8.6**		**5.1**		**9.1**		NA		**13**		**7.9**		**3.4**	**J**	**55**	
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	1.4	U	1.4	U	1.4	U	NA		1.4	U	9.9	U	6.1	U	2.1	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1.4	U	1	U	1	U	1	U	1	U	1	U	NA		1	U	1.9	U	1	U	1	U
1,4-Dioxane	2.5	82.5	NA		NA		NA		NA		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 at least one 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. Buildings 774/776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through January 2022)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * ($\mu g/m^3$)	Sub-slab Vapor Screening Level ** ($\mu g/m^3$)	774VMP-3		774VMP-3		774VMP-3		774VMP-3		774VMP-3		774VMP-3		774VMP-3		774IA-1		774IA-1		774IA-1		774IA-1		774IA-1		774IA-1		774IA-1		774IA-1		774IA-1	
Field Sample Identification			**774VMP-3-1216**		**774VMP-3-0317**		**774VMP-3-0318**		**774VMP-3-1118**		**774VMP-3-0319**		**774VMP-3-1119**		**774VMP-3-1220**		**774VMP-3_011422**		**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**	
Lab Sample Identification			**320-23968-5**		**320-26686-3**		**320-37345-3**		**320-45741-3**		**320-48763-4**		**19116508**		**20121888-04A**		**JD38291-12R**		**320-23968-6**		**320-26686-4**		**320-37345-4**		**320-45741-4**		**320-48763-5**		**1911650A**		**2012188A-05A**		**JD38291-13**	
Sample Location			**Sub-Slab**		**Sub-Slab**		**Sub-Slab**		**Sub-Slab**		**Sub-Slab**		**Sub-Slab**		**Sub-Slab**		**Sub-Slab**		**Indoor**		**Indoor**		**Indoor**		**Indoor**		**Indoor**		**Indoor**		**Indoor**		**Indoor**	
Sample Type			**Normal**		**Normal**		**Normal**		**Normal**		**Normal**		**Normal**		**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**		**12/1/2016**		**3/16/2017**		**3/21/2018**		**11/29/2018**		**3/25/2019**		**11/20/2019**		**12/1/2020**		**1/14/2022**	
Sample Depth (feet bgs / ags)			**1**		**1**		**1**		**1**		**1**		**1**		**1**		**1**		**5**		**5**		**5**		**5**		**5**		**5**		**5**		**5**	
Sample Collection Duration (hours)			**8**		**8**		**8**		**8**		**8**		**8**		**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	1.1	U	1.1	U	1.1	U	**1.2**	J	2.2	U	2.2	U	1.1	U	1.1	U	0.055	U	0.055	U	**0.049**	J	**0.021**	J	**0.024**	J	0.0082	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	*1.4*	U	*1.4*	U	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	3.1	U	3.1	U	3.1	U	4.3	U	3.1	U	3.1	U	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA	
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	*1.1*	U	*1.1*	U	NA		NA		NA		NA		NA		NA	
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	0.81	U	0.81	U	NA		NA		NA		NA		NA		NA	
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	1.6	U	1.6	U	0.040	U	0.040	U	0.040	U	0.034	U	0.044	U	0.0040	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	*8.9*	U	*8.9*	U	NA		NA		NA		NA		NA		NA	
1,2,4-Trimethylbenzene	260	8,580	2	U	**8.4**		2	U	**2.2**	J	2	U	**2.4**	J	2	U	2.0	U	2	U	2	U	NA		NA		NA		NA		NA		NA	
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	*1.5*	U	*1.5*	U	NA		NA		NA		NA		NA		NA	
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	2.4	U	2.4	U	NA		NA		NA		NA		NA		NA	
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	*0.81*	U	*0.81*	U	NA		NA		NA		NA		NA		NA	
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	*3.7*	U	*3.7*	U	NA		NA		NA		NA		NA		NA	
1,3,5-Trimethylbenzene	260	8,580	2	U	**4**		2	U	**1**	J	2	U	**0.55**	J	2	U	2.0	U	2	U	2	U	NA		NA		NA		NA		NA		NA	
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	2.4	U	NA		NA		NA		NA		NA		NA	
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	*2.4*	U	*2.4*	U	NA		NA		NA		NA		NA		NA	
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**	J	**1.9**	J	NA		NA		NA		NA		NA		NA	
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	0.82	U	0.82	U	NA		NA		NA		NA		NA		NA	
4-Ethyltoluene	NA	NA	2	U	**3.4**	J	2	U	2	U	2	U	**2.1**	J	2	U	2.9	U	2	U	2	U	NA		NA		NA		NA		NA		NA	
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	1.6	U	1.6	U	NA		NA		NA		NA		NA		NA	
Acetone	NA	NA	**20**		**22**		**7.9**	J	**22**		**38**		**37**		**15**	J	**19**		**14**		**8.7**	J	NA		NA		NA		NA		NA		NA	
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	**0.51**	J	**1.7**		**0.44**		**0.35**		**0.32**		**0.43**		**0.45**		**0.38**	
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	*2.1*	U	*2.1*	U	NA		NA		NA		NA		NA		NA	
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	*1.3*	U	*1.3*	U	NA		NA		NA		NA		NA		NA	
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	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA	
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	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA	
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	*0.88*	U	*0.88*	U	NA		NA		NA		NA		NA		NA	
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	1.2	U	**3.1**		NA		NA		NA		NA		NA		NA	
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	1.3	U	1.3	U	**0.41**		**0.61**		**0.43**		**0.49**		**0.47**		**0.31**	
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	0.92	U	0.92	U	NA		NA		NA		NA		NA		NA	
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	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA	
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	*0.98*	U	*0.98*	U	NA		NA		NA		NA		NA		NA	
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	**1.4**	J	**1.4**	J	NA		NA		NA		NA		NA		NA	
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	0.79	U	0.79	U	**0.071**	J	0.040	U	0.040	U	0.034	U	0.044	U	0.0079	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	1.8	U	1.8	U	NA		NA		NA		NA		NA		NA	
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	1.7	U	1.7	U	NA		NA		NA		NA		NA		NA	
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	**2.5**	J	**2.7**	J	NA		NA		NA		NA		NA		NA	
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	0.87	U	**0.38**	J	NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	0.56	18.48	*13*	U	*13*	U	*13*	U	*13*	U	*13*	U	*22*	U	*18*	U	*4.3*	U	*13*	U	*13*	U	NA		NA		NA		NA		NA		NA	
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	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA	
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	**0.48**	J	**0.47**	J	**0.37**	J	0.35	U	0.35	U	0.75	U	0.53	UB	NA	
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	**0.52**	J	**1.1**	J	NA		NA		NA		NA		NA		NA	
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	*6.3*	U	*6.3*	U	NA		NA		NA		NA		NA		NA	
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	0.87	U	**0.43**	J	NA		NA		NA		NA		NA		NA	
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	**0.26**	J	0.85	U	NA		NA		NA		NA		NA		NA	
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	1.4	U	1.4	U	**0.080**	J	0.14	U	0.14	U	**0.049**	J	**0.093**	J	**0.054**	
Toluene	22,000	726,000	**2.2**		**31**		**0.42**	J	**1.6**		**0.86**	J	**2.8**		**0.71**	J	2.3	U	**0.97**	J	**2**		NA		NA		NA		NA		NA		NA	
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	0.79	U	0.79	U	NA		NA		NA		NA		NA		NA	
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	0.91	U	0.91	U	NA		NA		NA		NA		NA		NA	
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	2.1	U	2.1	U	**0.11**		**0.039**	J	**0.17**		**0.13**	J	**0.14**	J	**0.075**	
Trichlorofluoromethane (Freon 11)	NA	NA	**67**		**65**		**46**		**260**		**100**		**490**		**190**		**23**		**47**		**35**		NA		NA		NA		NA		NA		NA	
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	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA	
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1.4	U	1	U	1	U	1	U	1	U	0.026	U	0.026	U	0.026	U	0.022	U	0.028	U	0.0038	U
1,4-Dioxane	2.5	82.5	NA		NA		NA		NA		NA		NA		NA		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 at least one 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. Buildings 774/776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through January 2022)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	774776-INF		774776-INF		774776-INF		774776-INF		774776-INF		774776-INF		774776-INF		776VMP-1		776VMP-1		776VMP-1		776VMP-1		776VMP-1		776VMP-1		776VMP-1		776VMP-1	
Field Sample Identification			774776-INF_1116		774776-INF_0317		774776-INF_0318		774776-INLET_1118		774776-INLET_0319		774776-INF_1119		774776-INF_1220		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	
Lab Sample Identification			320-23968-1		320-26740-10		320-37345-21		320-45741-1		320-48763-1		19116508		20121888-01A		320-23968-7		320-26686-5		320-37345-5		320-45741-5		320-48763-6		19116508		20121888-06A		JD38291-14R	
Sample Location			Influent		Influent		Influent		Influent		Influent		Influent		Influent		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		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		12/1/2016		3/16/2017		3/21/2018		11/29/2018		3/25/2019		11/20/2019		12/1/2020		1/14/2022	
Sample Depth (feet bgs / ags)			NA		NA		NA		NA		NA		NA		NA		1		1		1		1		1		1		1		1	
Sample Collection Duration (hours)			Quick Grab		Quick Grab		Quick Grab		Quick Grab		Quick Grab		Quick Grab		Quick Grab		8		8		8		8		8		8		8		8	
VOCs (µg/m³)																																
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	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	3.1	U	2.2	U	2.2	U
1,1,2,2-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	*1.4*	U	*1.4*	U	*1.4*	U	*1.4*	U	*1.4*	U	*3.9*	U	*2.8*	U	*2.7*	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	3.1	U	3.1	U	3.1	U	3.1	U	**1.2**	J	4.3	U	3.2	U	3.1	U
1,1,2-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	*1.1*	U	*1.1*	U	*1.1*	U	*1.1*	U	*1.1*	U	*3.1*	U	*2.2*	U	*2.2*	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	0.81	U	0.81	U	0.81	U	0.81	U	0.81	U	2.3	U	1.7	U	1.6	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	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	2.2	U	1.6	U	1.6	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	*8.9*	U	*8.9*	U	*8.9*	U	*8.9*	U	*8.9*	U	*16*	U	*13*	U	4.5	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	**2.8**	J	2	U	2	U	2	U	2	U	2.8	U	2	U	2.0	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	*1.5*	U	*1.5*	U	*1.5*	U	*1.5*	U	*1.5*	U	*4.3*	U	*3.2*	U	*4.6*	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	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	3.4	U	2.5	U	2.4	U
1,2-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	*0.81*	U	*0.81*	U	*0.81*	U	*0.81*	U	*0.81*	U	*2.3*	U	*1.7*	U	*1.6*	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	*3.7*	U	*3.7*	U	*3.7*	U	*3.7*	U	*3.7*	U	2.6	U	1.9	U	1.8	U
1,3,5-Trimethylbenzene	260	8,580	2	U	**1.0**	J	2	U	2	U	2	U	2.8	U	1.9	U	**0.89**	J	2	U	2	U	2	U	2	U	2.8	U	2	U	2.0	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	2.4	U	2.4	U	2.4	U	2.4	U	3.4	U	2.5	U	4.2	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	*2.4*	U	*2.4*	U	*2.4*	U	*2.4*	U	*2.4*	U	*3.4*	U	*2.5*	U	*2.4*	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	**6**		**2**	J	**2.3**	J	**2.8**		**2.6**		**7.3**	J	**4**	J	**1.8**	J
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	**0.4**	J	0.82	U	0.82	U	0.82	U	0.82	U	**2.2**	J	7.1	U	2.5	U
4-Ethyltoluene	NA	NA	2	U	**1**	J	2	U	2	U	2	U	2.8	U	1.9	U	2	U	2	U	2	U	2	U	2	U	2.8	U	2	U	2.9	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	1.6	U	**0.99**	J	**1.3**	J	**0.84**	J	**0.72**	J	**2.2**	J	1.7	U	1.6	U
Acetone	NA	NA	**28**		**17**		**19**		**12**		**3.4**	J	**23**		**17**		**51**		**26**		**51**		**41**		**35**		**58**		**42**		**17**	
Benzene	1.6	52.8	**0.76**	J	**1.5**		**0.99**	J	**0.37**	J	**0.37**	J	**6.2**		**4.5**		**2.5**		**0.55**	J	**0.64**	J	**0.44**	J	**0.38**	J	**0.62**	J	**0.41**	J	1.3	U
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	*2.1*	U	*2.1*	U	*2.1*	U	*2.1*	U	*2.1*	U	*2.9*	U	*2.1*	U	*2.1*	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	*1.3*	U	*1.3*	U	*1.3*	U	*1.3*	U	*1.3*	U	*3.8*	U	*2.8*	U	*2.7*	U
Bromoform	11	363	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.8	U	4	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.8	U	4.3	U	4.1	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	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	8.2	U	6.7	U	1.6	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	*0.88*	U	*0.88*	U	*0.88*	U	*0.88*	U	*0.88*	U	*1.2*	U	*0.92*	U	*0.88*	U
Carbon disulfide	3,100	102,300	**0.53**	J	1.2	U	**11**		**10**		1.2	U	6.6	U	**6.4**	J	1.2	U	**0.58**	J	1.2	U	**12**		**0.61**	J	6.6	U	**15**		1.2	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	1.3	U	1.3	U	*2.5*	U	*2.5*	U	*2.5*	U	*3.5*	U	*2.6*	U	*2.5*	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	0.92	U	0.92	U	0.92	U	0.92	U	0.92	U	2.6	U	1.9	U	1.8	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	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	5.6	U	4.6	U	1.1	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	*0.98*	U	*0.98*	U	**0.52**	J	*0.98*	U	*0.98*	U	**0.56**	J	*2*	U	*2*	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**	J	**1.1**	J	**1.2**	J	**1.1**	J	**1**	J	4.4	U	3.6	U	**1.2**	J
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	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.2	U	1.6	U	1.6	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	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	2.6	U	1.9	U	1.8	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	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	4.8	U	3.5	U	3.4	U
Dichlorodifluoromethane (Freon 12)	440	14,520	**5**		**5.4**		**3.0**	J	**2.3**	J	**2.3**	J	**2.8**	J	**2**	J	**2.5**	J	**2.9**	J	**1.9**	J	**2.5**	J	**2.7**	J	**3.6**		**2.5**	J	**2.4**	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	**2.6**		0.87	U	**0.33**	J	**0.28**	J	0.87	U	2.4	U	1.8	U	1.7	U
Hexachlorobutadiene	0.56	18.48	*13*	U	*13*	U	*13*	U	*13*	U	*13*	U	*22*	U	*17*	U	*13*	U	*13*	U	*13*	U	*13*	U	*13*	U	*22*	U	*18*	U	*4.3*	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	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.6	U	6.2	U	1.4	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	**0.45**	J	**0.4**	J	**0.52**	J	0.69	U	**0.34**	J	7.3	U	6	U	1.4	U
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	**10**		**0.6**	J	**0.78**	J	**0.77**	J	**0.66**	J	**1**	J	**0.78**	J	2.6	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	*6.3*	U	*6.3*	U	*6.3*	U	*6.3*	U	*6.3*	U	**2.3**	J	**1.5**	J	*3.1*	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	**3.2**		**0.26**	J	**0.30**	J	**0.28**	J	**0.3**	J	2.4	U	1.8	U	1.7	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	**1.2**	J	0.85	U	**0.29**	J	0.85	U	**0.33**	J	**0.72**	J	1.8	U	2.6	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	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	3.8	U	2.8	U	0.68	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	**15**		**0.91**	J	**1.2**	J	**1.1**	J	**0.85**	J	**1.5**	J	**0.98**	J	**3.4**	
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	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	2.2	U	1.6	U	1.6	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	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	2.6	U	1.9	U	2.7	U
Trichloroethene	3	99	**37**		**36**		**57**		2.1	U	2.1	U	**73**		2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	3	U	2.2	U	0.43	U
Trichlorofluoromethane (Freon 11)	NA	NA	**22**		**56**		**35**		**1.5**	J	**1.4**	J	**1.1**	J	**1.1**	J	2.2	U	**1.3**	J	**1.7**	J	**1.6**	J	**1.7**	J	**1.4**	J	**1.1**	J	2.2	U
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	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	7.4	U	6.1	U	2.1	U
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1.4	U	0.98	U	1	U	1	U	1	U	1	U	1	U	1.4	U	1	U	1	U
1,4-Dioxane	2.5	82.5	NA		NA		**0.54**	J	NA		NA		NA		NA		NA		NA		1.4	U	NA		NA		NA		NA		NA	

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*** = 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. Buildings 774/776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through January 2022)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	776VMP-2		776VMP-2		776VMP-2		776VMP-2		776VMP-2		776VMP-2		776VMP-2		776VMP-2		776VMP-2		776VMP-2		776VMP-2		776VMP-2		776VMP-2		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	
Lab Sample Identification			320-23968-8		320-23968-9		320-26686-6		320-26686-7		320-37345-6		320-37345-7		320-45741-6		320-45741-7		320-48763-7		320-48763-8		1911650B		1911650B		2012188B-07A		2012188B-08A		JD38291-15R		JD38291-19	
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	
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	
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	
Sample Depth (feet bgs / ags)			1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1	
Sample Collection Duration (hours)			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
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*
1,1,2-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
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*
1,1-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
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
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
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	2.0	U	2.0	U
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*
1,2-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
1,2-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*
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
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	2.0	U	2.0	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
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*
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
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
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
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
Acetone	NA	NA	**42**		**37**		**32**		**27**		**55**		**53**		**71**		**73**		**90**		**110**		**140**		**130**		**80**	**J**	**52**	**J**	**30.4**	**J**	**14**	**J**
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
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*
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*
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
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
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*
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
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*
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
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
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*
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**
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
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
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
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.8**	**J**	**2.9**	**J**	**3.2**	**J**	**3.2**	**J**	**2.0**	J	**2.0**	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**
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
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*
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
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
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
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*
o-Xylene	440	14,520	**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
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
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
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
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
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
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
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
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
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
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	

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 at least one 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. Buildings 774/776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through January 2022)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	776VMP-3		776VMP-3		776VMP-3		776VMP-3		776VMP-3		776VMP-3		776VMP-3		776IA-1		776IA-1		776IA-1		776IA-1		776IA-1		776IA-1		776IA-1		776IA-1		776IA-1		776IA-1	
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		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	
Lab Sample Identification			320-23968-10		320-26686-8		320-37345-8		320-45741-8		320-48763-9		1911650B		20121888-09A		JD38291-16R		320-23968-12		320-26686-9		320-37345-9		320-45741-9		320-48763-10		1911650A		2012188A-10A		JD38291-17		JD42062-1	
Sample Location			Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Sub-Slab		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor		Indoor	
Sample Type			Normal		Normal		Normal		Normal		Normal		Normal		Normal		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		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	
Sample Depth (feet bgs / ags)			1		1		1		1		1		1		1		1		5		5		5		5		5		5		5		5		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	**0.35**	J	3	U	2.2	U	2.2	U	1.1	U	1.1	U	0.055	U	0.055	U	0.055	U	0.045	U	**0.018**	J	NA		**0.031**	
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	*1.4*	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	3.1	U	3.1	U	3.1	U	4.3	U	3.1	U	3.1	U	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	*1.1*	U	*1.1*	U	*1.1*	U	*3*	U	*2.2*	U	*2.2*	U	*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	0.81	U	0.81	U	0.81	U	2.2	U	1.6	U	1.6	U	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	1.6	U	1.6	U	1.6	U	2.2	U	1.6	U	1.6	U	1.6	U	1.6	U	0.040	U	0.040	U	0.040	U	0.033	U	0.045	U	0.0040	U	**0.013**	
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	*8.9*	U	*8.9*	U	NA		NA		NA		NA		NA		NA		NA	
1,2,4-Trimethylbenzene	260	8,580	**1.3**	J	2	U	2	U	**2.2**	J	2	U	2.7	U	2	U	2.0	U	2	U	**1.6**	J	NA		NA		NA		NA		NA		NA		NA	
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	*1.5*	U	*1.5*	U	NA		NA		NA		NA		NA		NA		NA	
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	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	*0.81*	U	*0.81*	U	*0.81*	U	*2.2*	U	*1.6*	U	*1.6*	U	*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	*3.7*	U	*3.7*	U	*3.7*	U	2.6	U	1.9	U	1.8	U	*3.7*	U	*3.7*	U	NA		NA		NA		NA		NA		NA		NA	
1,3,5-Trimethylbenzene	260	8,580	2	U	2	U	2	U	**0.80**	J	2	U	2.7	U	2	U	2.0	U	2	U	2	U	NA		NA		NA		NA		NA		NA		NA	
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	2.4	U	NA		NA		NA		NA		NA		NA		NA	
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	*2.4*	U	*2.4*	U	NA		NA		NA		NA		NA		NA		NA	
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	**1.7**	J	**1.7**	J	NA		NA		NA		NA		NA		NA		NA	
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	0.82	U	0.82	U	NA		NA		NA		NA		NA		NA		NA	
4-Ethyltoluene	NA	NA	2	U	2	U	2	U	2	U	2	U	2.7	U	2	U	2.9	U	2	U	2	U	NA		NA		NA		NA		NA		NA		NA	
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	**2**	J	1.6	U	NA		NA		NA		NA		NA		NA		NA	
Acetone	NA	NA	**64**		**39**		**76**		**41**		**19**		**43**		**25**		**13**		**28**		**25**		NA		NA		NA		NA		NA		NA		NA	
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	**0.46**	J	**0.53**	J	**0.48**		**0.37**		**0.35**		**0.49**		**0.44**		**0.45**		**0.35**	
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	*2.1*	U	*2.1*	U	NA		NA		NA		NA		NA		NA		NA	
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	*1.3*	U	*1.3*	U	NA		NA		NA		NA		NA		NA		NA	
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	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA		NA	
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	3.1	U	3.1	U	NA		NA		NA		NA		NA		NA		NA	
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	*0.88*	U	*0.88*	U	NA		NA		NA		NA		NA		NA		NA	
Carbon disulfide	3,100	102,300	**5.7**		1.2	U	1.2	U	**2.0**	J	**4.5**		6.5	U	5.2	U	1.2	U	1.2	U	1.2	U	NA		NA		NA		NA		NA		NA		NA	
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	1.3	U	1.3	U	**0.42**		**0.65**		**0.42**		**0.59**		**0.54**		**0.33**		**0.47**	
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	0.92	U	0.92	U	NA		NA		NA		NA		NA		NA		NA	
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	2.1	U	2.1	U	NA		NA		NA		NA		NA		NA		NA	
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	**0.5**	J	**0.47**	J	NA		NA		NA		NA		NA		NA		NA	
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	**1.3**	J	**1.7**		NA		NA		NA		NA		NA		NA		NA	
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	0.79	U	0.79	U	**1.2**		0.04	U	0.04	U	0.033	U	0.045	U	**0.59**		0.79	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	1.8	U	1.8	U	NA		NA		NA		NA		NA		NA		NA	
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	1.7	U	1.7	U	NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane (Freon 12)	440	14,520	**2.8**	J	**3**	J	**2.0**	J	**2.7**	J	**3.7**	J	**5.6**		**4.1**		**2.9**	J	**2.7**	J	**3.2**	J	NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	4.9	161.7	**2.1**		0.87	U	**3.0**		**2.0**		0.87	U	2.4	U	**0.67**	J	1.7	U	**0.31**	J	**0.29**	J	NA		NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	0.56	18.48	*13*	U	*13*	U	*13*	U	*13*	U	*13*	U	*22*	U	*18*	U	*4.3*	U	*13*	U	*13*	U	NA		NA		NA		NA		NA		NA		NA	
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	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA		NA	
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	**0.35**	J	**0.41**	J	**0.38**	J	0.35	U	**0.56**	J	0.72	U	0.61	UB	NA		NA	
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	**0.72**	J	**1.1**	J	NA		NA		NA		NA		NA		NA		NA	
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	*6.3*	U	*6.3*	U	NA		NA		NA		NA		NA		NA		NA	
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	**0.3**	J	**0.57**	J	NA		NA		NA		NA		NA		NA		NA	
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	**0.54**	J	**0.27**	J	NA		NA		NA		NA		NA		NA		NA	
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	1.4	U	1.4	U	**0.17**		0.14	U	0.14	U	**0.088**	J	**0.045**	J	**6.6**		**0.068**	
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	**1.2**	J	**0.93**	J	NA		NA		NA		NA		NA		NA		NA	
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	0.79	U	0.79	U	NA		NA		NA		NA		NA		NA		NA	
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	0.91	U	0.91	U	NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	3	99	2.1	U	**0.94**	J	**27**		2.1	U	**4**	J	**0.96**	J	2.2	U	**0.64**	J	2.1	U	2.1	U	**0.13**		0.054	U	**0.027**	J	**0.081**	J	**0.074**	J	**2.4**		**0.21**	
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	**1.3**	J	**1.3**	J	NA		NA		NA		NA		NA		NA		NA	
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	1.4	U	1.4	U	NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	2.8	92.4	1	U	1	U	1	U	1	U	1	U	1.4	U	1	U	1	U	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
1,4-Dioxane	2.5	82.5	NA		NA		1.4	U	NA		NA		NA		NA		NA		NA		NA		**0.062**	J	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 at least one 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. Buildings 774/776 SSVM Performance Monitoring Sub-Slab Vapor, Indoor, Outdoor, and Influent Air Results (December 2016 through January 2022)
SD052-SVI Sites, Former Griffiss AFB, Rome, New York

Sample Location	Indoor Air Screening Level * (µg/m³)	Sub-slab Vapor Screening Level ** (µg/m³)	776OA-1		776OA-1		776OA-1		776OA-1		776OA-1		776OA-1		776OA-1		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**	
Lab Sample Identification			**320-23968-11**		**320-26686-10**		**320-37345-10**		**320-45741-10**		**320-48763-11**		**1911650B**		**2012188B-11A**		**JD38291-18**	
Sample Location			**Outdoor**		**Outdoor**		**Outdoor**		**Outdoor**		**Outdoor**		**Outdoor**		**Outdoor**		**Outdoor**	
Sample Type			**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**	
Sample Depth (feet bgs / ags)			**2**		**2**		**2**		**2**		**2**		**2**		**2**		**2**	
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	2.6	U	1.1	U	2.8	U	2	U	0.55	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*	*0.7*	*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
1,1,2-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
1,1-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	0.40	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	0.40	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
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
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*
1,2-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	0.60	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*	0.40	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
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
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
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*	0.60	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	**0.50**	J
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
4-Ethyltoluene	NA	NA	2	U	2	U	2	U	4.7	U	2	U	2.6	U	1.8	U	0.74	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
Acetone	NA	NA	**14**		**7**	**J**	**8.3**	J	**34**	D	**14**		**23**		**24**		**4.3**	
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**	
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*
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*
Bromoform	11	363	2.1	U	2.1	U	2.1	U	4.9	U	2.1	U	5.4	U	3.9	U	1.0	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
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
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
Carbon tetrachloride	2	66	1.3	U	1.3	U	*2.5*	*U*	*6.0*	*U*	*2.5*	*U*	*3.3*	*U*	*2.4*	*U*	0.6	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
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
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
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**	
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	0.40	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
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
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**	
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
Hexachlorobutadiene	0.56	18.48	*13*	*U*	*13*	*U*	*13*	*U*	*31*	*U*	*13*	*U*	*21*	*U*	*17*	*U*	*1.1*	*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
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**	
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
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*
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
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
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
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**
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	0.40	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
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
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**	
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
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
1,4-Dioxane	2.5	82.5	NA		NA		1.4	U	NA		NA		NA		NA		0.54	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 method detection limit
Results highlighted yellow, exceed the applicable screening criteria
Italicized values are non-detect results where the limit of detection exceeds at least one 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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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 774VMP-1_011422	DATE: Start: 01/14/2022	TIME: Start: 0706
SAMPLE DEPTH: shallow	End: 01/14/2022	End: 1519
FIELD PERSONNEL: B. Pollard, G. Carmichael		

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

TRACER GAS VERIFIED (Y/N):	
TRACER GAS CONC (%):	
SAMPLE PURGE VOLUME:	6 liter
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):	None
VOCs USED DURING NORMAL OPERATIONS:	None

WEATHER CONDITIONS:	Mostly Cloudy	VENTILATION CONDITIONS:	Good
OUTDOOR TEMPERATURE:	20- 31 F	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.45 - 29.54 in	INDOOR AIR TEMPERATURE:	70
WIND SPEED & DIRECTION:	8-17 mph NW	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	None		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 774VMP-2_011422	DATE: Start:01/14/2022	TIME: Start: 0715
SAMPLE DEPTH: shallow	End: 01/14/2022	End: 1515
FIELD PERSONNEL: B. Pollard, G. Carmichael		

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

TRACER GAS VERIFIED (Y/N):	
TRACER GAS CONC (%):	
SAMPLE PURGE VOLUME:	6 liter
VOLUME OF SOIL VAPOR EXTRACTED:	
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	-30" Hg
AFTER SAMPLING:	-3" Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Dry
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):	None
VOCs USED DURING NORMAL OPERATIONS:	None

WEATHER CONDITIONS:	Mostly Cloudy	VENTILATION CONDITIONS:	Good
OUTDOOR TEMPERATURE:	20 - 31 F	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.45 - 20.54 in	INDOOR AIR TEMPERATURE:	70
WIND SPEED & DIRECTION:	8-17mph NW	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	None		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 774VMP-3_011422	DATE: Start: 01/14/2022	TIME: Start: 0712
SAMPLE DEPTH: shallow	End: 01/14/2022	End: 1517
FIELD PERSONNEL: B. Pollard, G. Carmichael		

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

TRACER GAS VERIFIED (Y/N):	
TRACER GAS CONC (%):	
SAMPLE PURGE VOLUME:	6 liter
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):	None
VOCs USED DURING NORMAL OPERATIONS:	None

WEATHER CONDITIONS:	Mostly Cloudy	VENTILATION CONDITIONS:	Good
OUTDOOR TEMPERATURE:	20-31 F	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.45-29.54 in	INDOOR AIR TEMPERATURE:	70
WIND SPEED & DIRECTION:	8-17mph NW	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	None		

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INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 774IA_011422	DATE: 01/14/2022	TIME: 0717 - 1518
SAMPLE DEPTH: None - indoor air sample set on office table		
FIELD PERSONNEL: G. Carmichael, B. Pollard		
INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	-
CGI	-	-
TYPE OF SAMPLE (indoor/outdoor): Indoor		
DURATION OF AIR SAMPLING: 8 hours		
VOLUME OF AIR SAMPLED: 6 liter		
SUMMA CANISTER VACUUM:		
BEFORE SAMPLING: -28" Hg		
AFTER SAMPLING: -3" Hg		
APPARENT MOISTURE CONTENT (dry/moist/saturated):		
Dry		
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):		
None		
VOCs USED DURING NORMAL OPERATIONS: None		
WEATHER CONDITIONS: Mostly Cloudy	VENTILATION CONDITIONS: Good	
OUTDOOR TEMPERATURE: 20 - 31 F	HEATING SYSYTEM ACTIVE (Y/N): Yes	
BAROMETRIC PRESSURE: 29.45 - 29.54 in	INDOOR AIR TEMPERATURE: 70 F	
WIND SPEED & DIRECTION: 8 - 17 mph - NW	WINDOWS CLOSED (Y/N): Yes	
PRECIPITATION: None		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 776VMP-1_011422	DATE: Start: 01/14/2022	TIME: Start: 0752
SAMPLE DEPTH: shallow	End: 01/14/2022	End: 1552
FIELD PERSONNEL: B. Pollard, G. Carmichael		

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

TRACER GAS VERIFIED (Y/N):	
TRACER GAS CONC (%):	
SAMPLE PURGE VOLUME:	6 liter
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):	None
VOCs USED DURING NORMAL OPERATIONS:	None

WEATHER CONDITIONS:	Mostly Cloudy	VENTILATION CONDITIONS:	Good
OUTDOOR TEMPERATURE:	17- 28 F	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.49 - 29.57 in	INDOOR AIR TEMPERATURE:	70 F
WIND SPEED & DIRECTION:	8-17mph NW	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	None		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 776VMP-2_011422	DATE: Start: 01/14/2022	TIME: Start: 0743
SAMPLE DEPTH: shallow	End: 01/14/2022	End: 1543
FIELD PERSONNEL: B. Pollard, G. Carmichael		

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

TRACER GAS VERIFIED (Y/N):	
TRACER GAS CONC (%):	
SAMPLE PURGE VOLUME:	6 liter
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):

Duplicate collected at this location and labeled as 776VMP-2_011422-a

Duplicate Canister Vacuum: -30" Hg/ 0" Hg; sample times are same as above

VOCs USED DURING NORMAL OPERATIONS: None

WEATHER CONDITIONS:	Mostly Cloudy	VENTILATION CONDITIONS:	Good
OUTDOOR TEMPERATURE:	17 - 28 F	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.49 - 29.54 in	INDOOR AIR TEMPERATURE:	70
WIND SPEED & DIRECTION:	8-17mph NW	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	None		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 776VMP-3_011422	DATE: Start: 01/14/2022	TIME: Start:0758
SAMPLE DEPTH: shallow	End: 01/14/2022	End: 1558
FIELD PERSONNEL: B. Pollard, G. Carmichael		

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

TRACER GAS VERIFIED (Y/N):	
TRACER GAS CONC (%):	
SAMPLE PURGE VOLUME:	6 liter
VOLUME OF SOIL VAPOR EXTRACTED:	
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	-27" Hg
AFTER SAMPLING:	0" Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Dry
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):	None
VOCs USED DURING NORMAL OPERATIONS:	None

WEATHER CONDITIONS:	Mostly Cloudy	VENTILATION CONDITIONS:	Good
OUTDOOR TEMPERATURE:	17-28 F	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.49-29.57 in	INDOOR AIR TEMPERATURE:	70
WIND SPEED & DIRECTION:	8-17mph NW	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	None		

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INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 776IA_011422	DATE: 01/14/2022	TIME: 0747 - 1547
SAMPLE DEPTH: None - indoor air sample set on office table		
FIELD PERSONNEL: G. Carmichael, B. Pollard		
INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	-
CGI	-	-
TYPE OF SAMPLE (indoor/outdoor): Indoor		
DURATION OF AIR SAMPLING: 8 hours		
VOLUME OF AIR SAMPLED: 6 liter		
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):		
None		
VOCs USED DURING NORMAL OPERATIONS: None		
WEATHER CONDITIONS: Mostly Cloudy	VENTILATION CONDITIONS: Good	
OUTDOOR TEMPERATURE: 17 - 28 F	HEATING SYSYTEM ACTIVE (Y/N): Yes	
BAROMETRIC PRESSURE: 29.49 - 29.57 in	INDOOR AIR TEMPERATURE: 70 F	
WIND SPEED & DIRECTION: 8 - 17 mph - NW	WINDOWS CLOSED (Y/N): Yes	
PRECIPITATION: None		

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INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 776-IA-1_0322	DATE: 03/25/22	TIME: 0810-1611
SAMPLE DEPTH: None - indoor air sample set on office table		
FIELD PERSONNEL: B. Pollard		

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

TYPE OF SAMPLE (indoor/outdoor):	Indoor
DURATION OF AIR SAMPLING:	8 hours
VOLUME OF AIR SAMPLED:	6 L
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	0 "Hg
AFTER SAMPLING:	0 "Hg

APPARENT MOISTURE CONTENT (dry/moist/saturated):

Dry

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

Regulator gauge did not work.

(Air could be heard flowing through once opened but gauge was always 0 "Hg.)

VOCs USED DURING NORMAL OPERATIONS: Look to photos sent by Vic Choo (Paraton) on 3/25/22

Routine cleaning supplies, whiteboard cleaners, shredder oil, and misc

WEATHER CONDITIONS:	Mostly Cloudy	VENTILATION CONDITIONS:	Good
OUTDOOR TEMPERATURE:	50 F	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	28.98 - 29.11 in	INDOOR AIR TEMPERATURE:	70 F
WIND SPEED & DIRECTION:	-	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	None		

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INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 774/776OA_011422	DATE: 01/14/2022	TIME: 0726 - 1526
SAMPLE DEPTH: None - outdoor air sample set outside in between buildings 774 and 776		
FIELD PERSONNEL: G. Carmichael, B. Pollard		

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

TYPE OF SAMPLE (indoor/outdoor):	outdoor
DURATION OF AIR SAMPLING:	8 hours
VOLUME OF AIR SAMPLED:	6 liter
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):	
None	
VOCs USED DURING NORMAL OPERATIONS:	None

WEATHER CONDITIONS: Mostly Cloudy	VENTILATION CONDITIONS: Good
OUTDOOR TEMPERATURE: 17 - 28 F	HEATING SYSYTEM ACTIVE (Y/N): N/A
BAROMETRIC PRESSURE: 20.49 - 29.57 in	INDOOR AIR TEMPERATURE: N/A
WIND SPEED & DIRECTION: 8 - 17 mph NW	WINDOWS CLOSED (Y/N): N/A
PRECIPITATION: None	

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 785VMP-2_011322	DATE: Start: 01/13/2022	TIME: Start: 1644
SAMPLE DEPTH: shallow	End: 01/14/2022	End: 0834
FIELD PERSONNEL: B. Pollard, G. Carmichael		

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

TRACER GAS VERIFIED (Y/N):	
TRACER GAS CONC (%):	
SAMPLE PURGE VOLUME:	6 liter
VOLUME OF SOIL VAPOR EXTRACTED:	
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	-27" Hg
AFTER SAMPLING:	0" Hg

APPARENT MOISTURE CONTENT (dry/moist/saturated):

Dry

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

Duplicate collected at this location and labeled as 785VMP-2_011422-a

Duplicate Canister Vacuum: -27" Hg/ 0" Hg; sample times same as above.

VOCs USED DURING NORMAL OPERATIONS:

None

WEATHER CONDITIONS:	Cloudy	VENTILATION CONDITIONS:	Good
OUTDOOR TEMPERATURE:	26 - 36 F	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.34 - 29.50 in	INDOOR AIR TEMPERATURE:	68 F
WIND SPEED & DIRECTION:	0-12mph, SE to NW	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	None		

bhate

SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 785VMP-4_011322	DATE: Start: 01/13/2022	TIME: Start: 1704
SAMPLE DEPTH: shallow	End: 01/14/2022	End: 0837
FIELD PERSONNEL: B. Pollard, G. Carmichael		

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

TRACER GAS VERIFIED (Y/N):	
TRACER GAS CONC (%):	
SAMPLE PURGE VOLUME:	6 liter
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):	None
VOCs USED DURING NORMAL OPERATIONS:	None

WEATHER CONDITIONS:	Cloudy	VENTILATION CONDITIONS:	Good
OUTDOOR TEMPERATURE:	25 - 36 F	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.34 -29.50 in	INDOOR AIR TEMPERATURE:	68 F
WIND SPEED & DIRECTION:	0-12 mph, SE to NW	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	None		

bhate

SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 785VMP-5_011322	DATE: Start: 01/13/2022	TIME: Start:1712
SAMPLE DEPTH: shallow	End: 01/14/2022	End: 0842
FIELD PERSONNEL: B. Pollard, G. Carmichael		

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

TRACER GAS VERIFIED (Y/N):	
TRACER GAS CONC (%):	
SAMPLE PURGE VOLUME:	6 liter
VOLUME OF SOIL VAPOR EXTRACTED:	
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	-26" Hg
AFTER SAMPLING:	0" Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Dry
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):	None
VOCs USED DURING NORMAL OPERATIONS:	None

WEATHER CONDITIONS:	Cloudy	VENTILATION CONDITIONS:	Good
OUTDOOR TEMPERATURE:	25 - 36 F	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.34 - 29.50 in	INDOOR AIR TEMPERATURE:	68 F
WIND SPEED & DIRECTION:	0 - 12 mph, SE to NW	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	None		

bhate

INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 785IA_011322	DATE: 01/13-01/14/2022	TIME: 1658 - 0839
SAMPLE DEPTH: None - indoor air sample set on table in hangar		
FIELD PERSONNEL: G. Carmichael, B. Pollard		

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

TYPE OF SAMPLE (indoor/outdoor):	indoor
DURATION OF AIR SAMPLING:	8 hours
VOLUME OF AIR SAMPLED:	6 liter
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	-28" Hg
AFTER SAMPLING:	0" Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	
Dry	
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):	
None	
VOCs USED DURING NORMAL OPERATIONS:	solvents

WEATHER CONDITIONS: Cloudy	VENTILATION CONDITIONS: Good
OUTDOOR TEMPERATURE: 25 - 36 F	HEATING SYSYTEM ACTIVE (Y/N): Yes
BAROMETRIC PRESSURE: 29.34 - 29.50 in	INDOOR AIR TEMPERATURE: 68 F
WIND SPEED & DIRECTION: 0 - 12 mph - SE to NW	WINDOWS CLOSED (Y/N): Yes
PRECIPITATION: None	

bhate

SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 786VMP-1_	DATE: Start: 01/13/2022	TIME:
SAMPLE DEPTH: shallow		
FIELD PERSONNEL: B. Pollard, G. Carmichael		
INSTRUMENTS:	MODEL #	SERIAL #
PUMP	-	-
CGI	-	-
TRACER GAS VERIFIED (Y/N):		
TRACER GAS CONC (%):		
SAMPLE PURGE VOLUME: 0		
VOLUME OF SOIL VAPOR EXTRACTED:		
SUMMA CANISTER VACUUM:		
BEFORE SAMPLING: X		
AFTER SAMPLING: X		
APPARENT MOISTURE CONTENT (dry/moist/saturated): Dry		
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings): Unable to sample VMP-1		
Well lid is wedged at an angle and stuck in place.		
VOCs USED DURING NORMAL OPERATIONS: None		
WEATHER CONDITIONS: Cloudy	VENTILATION CONDITIONS: Good	
OUTDOOR TEMPERATURE: 26 - 35 F	HEATING SYSYTEM ACTIVE (Y/N): Yes	
BAROMETRIC PRESSURE: 29.35 - 29.50 in	INDOOR AIR TEMPERATURE: 68	
WIND SPEED & DIRECTION: 0-12mph, SE to NW	WINDOWS CLOSED (Y/N): Yes	
PRECIPITATION: None		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 786VMP-2_011322	DATE: Start: 01/13/2022	TIME: Start:1750
SAMPLE DEPTH: shallow	End: 01/14/2022	End: 0818
FIELD PERSONNEL: B. Pollard, G. Carmichael		

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

TRACER GAS VERIFIED (Y/N):	
TRACER GAS CONC (%):	
SAMPLE PURGE VOLUME:	6 liter
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):	None
VOCs USED DURING NORMAL OPERATIONS:	None

WEATHER CONDITIONS:	Cloudy	VENTILATION CONDITIONS:	Good
OUTDOOR TEMPERATURE:	26 - 35 F	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.35 - 29.50 in	INDOOR AIR TEMPERATURE:	68
WIND SPEED & DIRECTION:	0-12mph, SE to NW	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	None		

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SUB-SLAB VAPOR PROBE MONITORING FORM

SAMPLE ID: 786VMP-3_011322	DATE: Start: 01/13/2022	TIME: Start:1735
SAMPLE DEPTH: shallow	End: 01/14/2022	End: 0813
FIELD PERSONNEL: B. Pollard, G. Carmichael		

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

TRACER GAS VERIFIED (Y/N):	
TRACER GAS CONC (%):	
SAMPLE PURGE VOLUME:	6 liter
VOLUME OF SOIL VAPOR EXTRACTED:	
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	-28" Hg
AFTER SAMPLING:	0" Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	Dry
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):	None
VOCs USED DURING NORMAL OPERATIONS:	None

WEATHER CONDITIONS:	Cloudy	VENTILATION CONDITIONS:	Good
OUTDOOR TEMPERATURE:	26 - 35 F	HEATING SYSYTEM ACTIVE (Y/N):	Yes
BAROMETRIC PRESSURE:	29.35 - 29.50 in	INDOOR AIR TEMPERATURE:	68
WIND SPEED & DIRECTION:	0-12mph, SE to NW	WINDOWS CLOSED (Y/N):	Yes
PRECIPITATION:	None		

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INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 786IA_011322	DATE: 1/13 - 1/14/2022	TIME: 1745 - 0817
SAMPLE DEPTH: None - indoor air sample set on table in hangar		
FIELD PERSONNEL: G. Carmichael, B. Pollard		

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

TYPE OF SAMPLE (indoor/outdoor):	indoor
DURATION OF AIR SAMPLING:	8 hours
VOLUME OF AIR SAMPLED:	6 liter
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	-27" Hg
AFTER SAMPLING:	0" Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	
Dry	
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):	
None	
VOCs USED DURING NORMAL OPERATIONS:	None

WEATHER CONDITIONS: Cloudy	VENTILATION CONDITIONS: Good
OUTDOOR TEMPERATURE: 26 - 35 F	HEATING SYSYTEM ACTIVE (Y/N): Yes
BAROMETRIC PRESSURE: 29.35 - 29.50 in	INDOOR AIR TEMPERATURE: 68
WIND SPEED & DIRECTION: 0 - 12 mph - SE to NW	WINDOWS CLOSED (Y/N): Yes
PRECIPITATION: None	

bhate

INDOOR/OUTDOOR AIR MONITORING FORM

SAMPLE ID: 785/786OA_011322	DATE: 01/13 - 01/14/2022	TIME: 1800-0827
SAMPLE DEPTH: None - outdoor air sample set outside in between buildings 785 and 786		
FIELD PERSONNEL: G. Carmichael, B. Pollard		

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

TYPE OF SAMPLE (indoor/outdoor):	outdoor
DURATION OF AIR SAMPLING:	8 hours
VOLUME OF AIR SAMPLED:	6 liter
SUMMA CANISTER VACUUM:	
BEFORE SAMPLING:	-28" Hg
AFTER SAMPLING:	0" Hg
APPARENT MOISTURE CONTENT (dry/moist/saturated):	
Dry	
COMMENTS/OBSERVATIONS (odor, spills, floor stains, other instrument readings):	
None	
VOCs USED DURING NORMAL OPERATIONS:	None

WEATHER CONDITIONS: Cloudy	VENTILATION CONDITIONS: Good
OUTDOOR TEMPERATURE: 26 - 35 F	HEATING SYSYTEM ACTIVE (Y/N): N/A
BAROMETRIC PRESSURE: 29.36 - 29.50 in	INDOOR AIR TEMPERATURE: N/A
WIND SPEED & DIRECTION: 0-12 mph SE to NW	WINDOWS CLOSED (Y/N): N/A
PRECIPITATION: None	

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 Grace Carmichael Date/Time Prepared 1/14/22

Preparer's Affiliation ECC Phone No._____

Purpose of Investigation Sub slab vapor sampling - Jan 2022

1. OCCUPANT:

Interviewed: Y ☐ **N** ☑

Last Name: Wall First Name: Linda

Address: BAE Systems - Bldg 774

County: _____

Home Phone: _____ Office Phone: _____

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

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: office building

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) office building - BAE systems

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

N/A

Airflow near source

N/A

Outdoor air infiltration

N/A

Infiltration into air ducts

N/A

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Check all that apply) No basement - not applicable

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: _____(feet)

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

_____

_____

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
☐ Electric ☐ Propane ☐ Solar
☐ Wood ☐ Coal

Domestic hot water tank fueled by: _____

Boiler/furnace located in: ☐ Basement ☐ Outdoors ☐ Main Floor ☐ Other_____

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.

HVAC system present

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	N/A
1st Floor	Offices
2nd Floor	None
3rd Floor	None
4th Floor	None

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? _____ Daily, cleaning products stored near women's bathroom

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? unknown

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

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

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: _____

Do any of the building occupants use solvents at work? Y☐ N☐ unknown
(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☐ unknown

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:

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.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
	supply cabinet with cleaning products			sprays, clorox wipes, draino, hand sanitizer		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.

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 Grace Carmichael Date/Time Prepared 1/14/22

Preparer's Affiliation ECC Phone No._____

Purpose of Investigation Sub slab vapor sampling - Jan 2022

1. OCCUPANT:

Interviewed: Y ☐ **N** ☑

Last Name: Choo First Name: Vic

Address: Peraton - Bldg 776

County: _____

Home Phone: _____ Office Phone: 315-838-7095

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

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: office building

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: office building

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) office building - Peraton

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

N/A

Airflow near source

N/A

Outdoor air infiltration

N/A

Infiltration into air ducts

N/A

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Check all that apply) No basement - not applicable

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: _____(feet)

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

_____

_____

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
☐ Electric ☐ Propane ☐ Solar
☐ Wood ☐ Coal

Domestic hot water tank fueled by: _____

Boiler/furnace located in: ☐ Basement ☐ Outdoors ☐ Main Floor ☐ Other_____

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.

HVAC system present

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	N/A
1st Floor	Offices
2nd Floor	None
3rd Floor	None
4th Floor	None

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? _____ Daily, general cleaning supplies

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? unknown

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

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

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: _____

Do any of the building occupants use solvents at work? Y☐ N☐ unknown
(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☐ unknown

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:

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.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
	Janitorial closet			general cleaning products		N
	Not located near sample points					
	Dry erase markers					N
	Printers					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.

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 Grace Carmichael Date/Time Prepared 1/13/22-1/14/22

Preparer's Affiliation ECC Phone No._____

Purpose of Investigation Sub slab vapor sampling - semi annual

1. OCCUPANT:

Interviewed: Y ☐ **N** ☑

Last Name: Keck First Name: David

Address: Northern Safety Air - Bldg 785

County: _____

Home Phone: _____ Office Phone: 607-423-7737

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

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) Northern Safety Air (airplane hangar)

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

N/A

Airflow near source

N/A

Outdoor air infiltration

N/A

Infiltration into air ducts

N/A

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Check all that apply) No basement - not applicable

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: _____(feet)

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

_____

_____

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
☐ Electric ☐ Propane ☐ Solar
☐ Wood ☐ Coal

Domestic hot water tank fueled by: _____

Boiler/furnace located in: ☐ Basement ☐ Outdoors ☐ Main Floor ☐ Other_____

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.

HVAC system present

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	None
1st Floor	Private plane storage and maintenance
2nd Floor	None
3rd Floor	None
4th Floor	None

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 Small airplane/jet

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 _____ small maintenance area present at front of building

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? unknown

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

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☐ unknown

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? fuel

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

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:

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.

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.

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 Grace Carmichael Date/Time Prepared 1/13/22-1/14/22

Preparer's Affiliation ECC Phone No._____

Purpose of Investigation Sub slab vapor sampling - Jan 2022

1. OCCUPANT: Owner not on site, flight paramedics occupy the building

Interviewed: Y ☐ **N** ☑

Last Name: _____ First Name: _____

Address: Bldg 786

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location unkown Age of Occupants unknown

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: Flight paramedics

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) Flight Paramedics

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

N/A

Airflow near source

N/A

Outdoor air infiltration

N/A

Infiltration into air ducts

N/A

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Check all that apply) No basement - not applicable

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: _____(feet)

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

_____

_____

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
☐ Electric ☐ Propane ☐ Solar
☐ Wood ☐ Coal

Domestic hot water tank fueled by: _____

Boiler/furnace located in: ☐ Basement ☐ Outdoors ☐ Main Floor ☐ Other_____

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.

HVAC System present

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	None
1st Floor	Paramedics/Pilots
2nd Floor	None
3rd Floor	None
4th Floor	None

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 Helicopter

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

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 General tools

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? unknown

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

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☐ unknown

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:

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.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
Main office/Living	Cleaning supplies					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.

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APPENDIX B
LABORATORY DATA PACKAGES

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The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Bhate Environmental Associates, Inc.

BECOS Former Griffiss AFB, Rome, NY

SGS Job Number: JD38291R

Sampling Date: 01/14/22

Report to:

Bhate Environmental Associates, Inc.
445 Union Blvd Suite 129
Lakewood, CO 80228
molive@bhate.com

ATTN: Marcia Olive

Total number of pages in report: **613**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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Please share your ideas about how we can serve you better at:
EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

Bhate Environmental Associates, Inc.

Job No: JD38291R

BECOS Former Griffiss AFB, Rome, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD38291-2R	01/14/22	08:18	GC	01/17/22	AIR	Soil Vapor Comp.	786-VMP-2_011422
JD38291-3R	01/14/22	08:13	GC	01/17/22	AIR	Soil Vapor Comp.	786-VMP-3_011422
JD38291-4R	01/14/22	08:27	GC	01/17/22	AIR	Ambient Air Comp.	785-OA-1_011422
JD38291-6R	01/14/22	08:34	GC	01/17/22	AIR	Soil Vapor Comp.	785-VMP-2_011422
JD38291-7R	01/14/22	08:37	GC	01/17/22	AIR	Soil Vapor Comp.	785-VMP-4_011422
JD38291-8R	01/14/22	08:42	GC	01/17/22	AIR	Soil Vapor Comp.	785-VMP-5_011422
JD38291-9R	01/14/22	08:34	GC	01/17/22	AIR	Soil Vapor Comp.	785-VMP-2_011422-A
JD38291-10R	01/14/22	15:19	GC	01/17/22	AIR	Soil Vapor Comp.	774-VMP-1_011422
JD38291-11R	01/14/22	15:15	GC	01/17/22	AIR	Soil Vapor Comp.	774-VMP-2_011422
JD38291-12R	01/14/22	15:17	GC	01/17/22	AIR	Soil Vapor Comp.	774-VMP-3_011422
JD38291-14R	01/14/22	15:52	GC	01/17/22	AIR	Soil Vapor Comp.	776-VMP-1_011422
JD38291-15R	01/14/22	15:43	GC	01/17/22	AIR	Soil Vapor Comp.	776-VMP-2_011422
JD38291-16R	01/14/22	15:58	GC	01/17/22	AIR	Soil Vapor Comp.	776-VMP-3_011422

Sample Summary
(continued)

Bhate Environmental Associates, Inc.

Job No: JD38291R

BECOS Former Griffiss AFB, Rome, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JD38291-18R	01/14/22	15:26	GC	01/17/22	AIR	Ambient Air Comp.	776-OA-1_011422
JD38291-19R	01/14/22	15:43	GC	01/17/22	AIR	Soil Vapor Comp.	776-VMP-2_011422_A

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Bhate Environmental Associates, Inc.	**Job No**	JD38291R
Site:	BECOS Former Griffiss AFB, Rome, NY	**Report Date**	2/18/2022 11:23:53 A

On 01/17/2022, 15 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. A SGS North America Inc. Job Number of JD38291R was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V2W2558

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD38683-5DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for Duplicate for Methylene chloride are outside control limits for sample JD38683-5DUP. High RPD due to low concentration of hit

Matrix: AIR **Batch ID:** V5W1967

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD38291-2DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
JD38291-2R	**786-VMP-2_011422**					
Acetone (2-Propanone)		1.7	0.80	0.60	ppbv	TO-15
Chloromethane		0.38 J	0.80	0.40	ppbv	TO-15
Dichlorodifluoromethane		0.44 J	0.80	0.40	ppbv	TO-15
Ethylbenzene		0.79 J	0.80	0.40	ppbv	TO-15
Toluene		0.50 J	0.80	0.60	ppbv	TO-15
Trichloroethylene		0.40	0.16	0.080	ppbv	TO-15
m,p-Xylene		3.6	0.80	0.60	ppbv	TO-15
o-Xylene		1.5	0.80	0.40	ppbv	TO-15
Acetone (2-Propanone)		4.0	1.9	1.4	ug/m3	TO-15
Chloromethane		0.78 J	1.7	0.83	ug/m3	TO-15
Dichlorodifluoromethane		2.2 J	4.0	2.0	ug/m3	TO-15
Ethylbenzene		3.4 J	3.5	1.7	ug/m3	TO-15
Toluene		1.9 J	3.0	2.3	ug/m3	TO-15
Trichloroethylene		2.1	0.86	0.43	ug/m3	TO-15
m,p-Xylene		16	3.5	2.6	ug/m3	TO-15
o-Xylene		6.5	3.5	1.7	ug/m3	TO-15
JD38291-3R	**786-VMP-3_011422**					
Acetone (2-Propanone)		5.9	0.80	0.60	ppbv	TO-15
Chloromethane		0.73 J	0.80	0.40	ppbv	TO-15
Dichlorodifluoromethane		0.42 J	0.80	0.40	ppbv	TO-15
Methyl ethyl ketone		0.51 J	0.80	0.60	ppbv	TO-15
Trichloroethylene		0.27	0.16	0.080	ppbv	TO-15
Acetone (2-Propanone)		14	1.9	1.4	ug/m3	TO-15
Chloromethane		1.5 J	1.7	0.83	ug/m3	TO-15
Dichlorodifluoromethane		2.1 J	4.0	2.0	ug/m3	TO-15
Methyl ethyl ketone		1.5 J	2.4	1.8	ug/m3	TO-15
Trichloroethylene		1.5	0.86	0.43	ug/m3	TO-15
JD38291-4R	**785-OA-1_011422**					
Acetone (2-Propanone)		2.5	0.20	0.15	ppbv	TO-15
Benzene		0.38	0.20	0.10	ppbv	TO-15
Chloromethane		0.67	0.20	0.10	ppbv	TO-15
Dichlorodifluoromethane		0.51	0.20	0.10	ppbv	TO-15
Methylene chloride		0.22	0.20	0.10	ppbv	TO-15
Methyl ethyl ketone		0.25	0.20	0.15	ppbv	TO-15
Tetrachloroethylene		0.050	0.040	0.025	ppbv	TO-15
Toluene		0.50	0.20	0.15	ppbv	TO-15
Trichlorofluoromethane		0.24	0.10	0.10	ppbv	TO-15
Vinyl Acetate		0.16 J	0.20	0.15	ppbv	TO-15
m,p-Xylene		0.19 J	0.20	0.15	ppbv	TO-15

Summary of Hits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
Acetone (2-Propanone)		5.9	0.48	0.36	ug/m3	TO-15
Benzene		1.2	0.64	0.32	ug/m3	TO-15
Chloromethane		1.4	0.41	0.21	ug/m3	TO-15
Dichlorodifluoromethane		2.5	0.99	0.49	ug/m3	TO-15
Methylene chloride		0.76	0.69	0.35	ug/m3	TO-15
Methyl ethyl ketone		0.74	0.59	0.44	ug/m3	TO-15
Tetrachloroethylene		0.34	0.27	0.17	ug/m3	TO-15
Toluene		1.9	0.75	0.57	ug/m3	TO-15
Trichlorofluoromethane		1.3	0.56	0.56	ug/m3	TO-15
Vinyl Acetate		0.56 J	0.70	0.53	ug/m3	TO-15
m,p-Xylene		0.83 J	0.87	0.65	ug/m3	TO-15
JD38291-6R	**785-VMP-2_011422**					
Acetone (2-Propanone)		2.6	0.80	0.60	ppbv	TO-15
Benzene		0.43 J	0.80	0.40	ppbv	TO-15
Chloromethane		0.90	0.80	0.40	ppbv	TO-15
Dichlorodifluoromethane		0.42 J	0.80	0.40	ppbv	TO-15
Methyl ethyl ketone		0.74 J	0.80	0.60	ppbv	TO-15
Toluene		0.78 J	0.80	0.60	ppbv	TO-15
Trichloroethylene		0.57	0.16	0.080	ppbv	TO-15
Acetone (2-Propanone)		6.2	1.9	1.4	ug/m3	TO-15
Benzene		1.4 J	2.6	1.3	ug/m3	TO-15
Chloromethane		1.9	1.7	0.83	ug/m3	TO-15
Dichlorodifluoromethane		2.1 J	4.0	2.0	ug/m3	TO-15
Methyl ethyl ketone		2.2 J	2.4	1.8	ug/m3	TO-15
Toluene		2.9 J	3.0	2.3	ug/m3	TO-15
Trichloroethylene		3.1	0.86	0.43	ug/m3	TO-15
JD38291-7R	**785-VMP-4_011422**					
Acetone (2-Propanone)		3.2	0.80	0.60	ppbv	TO-15
Benzene		0.56 J	0.80	0.40	ppbv	TO-15
Chloromethane		0.87	0.80	0.40	ppbv	TO-15
Dichlorodifluoromethane		0.43 J	0.80	0.40	ppbv	TO-15
Methylene chloride		0.85	0.80	0.40	ppbv	TO-15
Methyl ethyl ketone		0.69 J	0.80	0.60	ppbv	TO-15
Toluene		1.3	0.80	0.60	ppbv	TO-15
Acetone (2-Propanone)		7.6	1.9	1.4	ug/m3	TO-15
Benzene		1.8 J	2.6	1.3	ug/m3	TO-15
Chloromethane		1.8	1.7	0.83	ug/m3	TO-15
Dichlorodifluoromethane		2.1 J	4.0	2.0	ug/m3	TO-15
Methylene chloride		3.0	2.8	1.4	ug/m3	TO-15
Methyl ethyl ketone		2.0 J	2.4	1.8	ug/m3	TO-15
Toluene		4.9	3.0	2.3	ug/m3	TO-15

Summary of Hits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
JD38291-8R	**785-VMP-5_011422**					
Acetone (2-Propanone)		6.9	0.80	0.60	ppbv	TO-15
Chloromethane		0.43 J	0.80	0.40	ppbv	TO-15
Dichlorodifluoromethane		0.47 J	0.80	0.40	ppbv	TO-15
Methyl ethyl ketone		0.63 J	0.80	0.60	ppbv	TO-15
Acetone (2-Propanone)		16	1.9	1.4	ug/m3	TO-15
Chloromethane		0.89 J	1.7	0.83	ug/m3	TO-15
Dichlorodifluoromethane		2.3 J	4.0	2.0	ug/m3	TO-15
Methyl ethyl ketone		1.9 J	2.4	1.8	ug/m3	TO-15
JD38291-9R	**785-VMP-2_011422-A**					
Acetone (2-Propanone)		3.3	0.80	0.60	ppbv	TO-15
Benzene		0.45 J	0.80	0.40	ppbv	TO-15
Chloromethane		1.4	0.80	0.40	ppbv	TO-15
Dichlorodifluoromethane		0.44 J	0.80	0.40	ppbv	TO-15
Methyl ethyl ketone		0.94	0.80	0.60	ppbv	TO-15
Toluene		0.77 J	0.80	0.60	ppbv	TO-15
Trichloroethylene		1.4	0.16	0.080	ppbv	TO-15
Acetone (2-Propanone)		7.8	1.9	1.4	ug/m3	TO-15
Benzene		1.4 J	2.6	1.3	ug/m3	TO-15
Chloromethane		2.9	1.7	0.83	ug/m3	TO-15
Dichlorodifluoromethane		2.2 J	4.0	2.0	ug/m3	TO-15
Methyl ethyl ketone		2.8	2.4	1.8	ug/m3	TO-15
Toluene		2.9 J	3.0	2.3	ug/m3	TO-15
Trichloroethylene		7.5	0.86	0.43	ug/m3	TO-15
JD38291-10R	**774-VMP-1_011422**					
Acetone (2-Propanone)		5.5	0.80	0.60	ppbv	TO-15
Chloromethane		0.68 J	0.80	0.40	ppbv	TO-15
Dichlorodifluoromethane		0.44 J	0.80	0.40	ppbv	TO-15
Toluene		0.41 J	0.80	0.60	ppbv	TO-15
Trichloroethylene		0.29	0.16	0.080	ppbv	TO-15
Trichlorofluoromethane		1.4	0.40	0.40	ppbv	TO-15
Acetone (2-Propanone)		13	1.9	1.4	ug/m3	TO-15
Chloromethane		1.4 J	1.7	0.83	ug/m3	TO-15
Dichlorodifluoromethane		2.2 J	4.0	2.0	ug/m3	TO-15
Toluene		1.5 J	3.0	2.3	ug/m3	TO-15
Trichloroethylene		1.6	0.86	0.43	ug/m3	TO-15
Trichlorofluoromethane		7.9	2.2	2.2	ug/m3	TO-15

Summary of Hits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
JD38291-11R	**774-VMP-2_011422**					
Acetone (2-Propanone)		32.8	0.80	0.60	ppbv	TO-15
Chloroform		0.55 J	0.80	0.40	ppbv	TO-15
Dichlorodifluoromethane		0.45 J	0.80	0.40	ppbv	TO-15
Methyl ethyl ketone		1.2	0.80	0.60	ppbv	TO-15
1,1,1-Trichloroethane		1.3	0.40	0.40	ppbv	TO-15
Toluene		0.46 J	0.80	0.60	ppbv	TO-15
Trichloroethylene		7.4	0.16	0.080	ppbv	TO-15
Trichlorofluoromethane		9.8	0.40	0.40	ppbv	TO-15
Acetone (2-Propanone)		77.9	1.9	1.4	ug/m3	TO-15
Chloroform		2.7 J	3.9	2.0	ug/m3	TO-15
Dichlorodifluoromethane		2.2 J	4.0	2.0	ug/m3	TO-15
Methyl ethyl ketone		3.5	2.4	1.8	ug/m3	TO-15
1,1,1-Trichloroethane		7.1	2.2	2.2	ug/m3	TO-15
Toluene		1.7 J	3.0	2.3	ug/m3	TO-15
Trichloroethylene		40	0.86	0.43	ug/m3	TO-15
Trichlorofluoromethane		55	2.2	2.2	ug/m3	TO-15
JD38291-12R	**774-VMP-3_011422**					
Acetone (2-Propanone)		7.8	0.80	0.60	ppbv	TO-15
Chloromethane		0.74 J	0.80	0.40	ppbv	TO-15
Dichlorodifluoromethane		0.44 J	0.80	0.40	ppbv	TO-15
Methyl ethyl ketone		4.4	0.80	0.60	ppbv	TO-15
Trichlorofluoromethane		4.1	0.40	0.40	ppbv	TO-15
Acetone (2-Propanone)		19	1.9	1.4	ug/m3	TO-15
Chloromethane		1.5 J	1.7	0.83	ug/m3	TO-15
Dichlorodifluoromethane		2.2 J	4.0	2.0	ug/m3	TO-15
Methyl ethyl ketone		13	2.4	1.8	ug/m3	TO-15
Trichlorofluoromethane		23	2.2	2.2	ug/m3	TO-15
JD38291-14R	**776-VMP-1_011422**					
Acetone (2-Propanone)		7.3	0.80	0.60	ppbv	TO-15
Chloromethane		0.59 J	0.80	0.40	ppbv	TO-15
Dichlorodifluoromethane		0.48 J	0.80	0.40	ppbv	TO-15
Methyl ethyl ketone		0.62 J	0.80	0.60	ppbv	TO-15
Toluene		0.91	0.80	0.60	ppbv	TO-15
Acetone (2-Propanone)		17	1.9	1.4	ug/m3	TO-15
Chloromethane		1.2 J	1.7	0.83	ug/m3	TO-15
Dichlorodifluoromethane		2.4 J	4.0	2.0	ug/m3	TO-15
Methyl ethyl ketone		1.8 J	2.4	1.8	ug/m3	TO-15
Toluene		3.4	3.0	2.3	ug/m3	TO-15

Summary of Hits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
JD38291-15R	**776-VMP-2_011422**					
Acetone (2-Propanone)		12.8	0.80	0.60	ppbv	TO-15
Benzene		0.73 J	0.80	0.40	ppbv	TO-15
Chloromethane		0.69 J	0.80	0.40	ppbv	TO-15
Dichlorodifluoromethane		0.51 J	0.80	0.40	ppbv	TO-15
Methyl ethyl ketone		0.52 J	0.80	0.60	ppbv	TO-15
Toluene		0.79 J	0.80	0.60	ppbv	TO-15
Acetone (2-Propanone)		30.4	1.9	1.4	ug/m3	TO-15
Benzene		2.3 J	2.6	1.3	ug/m3	TO-15
Chloromethane		1.4 J	1.7	0.83	ug/m3	TO-15
Dichlorodifluoromethane		2.5 J	4.0	2.0	ug/m3	TO-15
Methyl ethyl ketone		1.5 J	2.4	1.8	ug/m3	TO-15
Toluene		3.0 J	3.0	2.3	ug/m3	TO-15
JD38291-16R	**776-VMP-3_011422**					
Acetone (2-Propanone)		5.4	0.80	0.60	ppbv	TO-15
Chloromethane		0.76 J	0.80	0.40	ppbv	TO-15
Dichlorodifluoromethane		0.58 J	0.80	0.40	ppbv	TO-15
Trichloroethylene		0.12 J	0.16	0.080	ppbv	TO-15
Acetone (2-Propanone)		13	1.9	1.4	ug/m3	TO-15
Chloromethane		1.6 J	1.7	0.83	ug/m3	TO-15
Dichlorodifluoromethane		2.9 J	4.0	2.0	ug/m3	TO-15
Trichloroethylene		0.64 J	0.86	0.43	ug/m3	TO-15
JD38291-18R	**776-OA-1_011422**					
Acetone (2-Propanone)		1.8	0.20	0.15	ppbv	TO-15
Benzene		0.22	0.20	0.10	ppbv	TO-15
Chloromethane		0.64	0.20	0.10	ppbv	TO-15
Dichlorodifluoromethane		0.51	0.20	0.10	ppbv	TO-15
Methylene chloride		0.21	0.20	0.10	ppbv	TO-15
Methyl ethyl ketone		0.17 J	0.20	0.15	ppbv	TO-15
Toluene		0.18 J	0.20	0.15	ppbv	TO-15
Trichlorofluoromethane		0.24	0.10	0.10	ppbv	TO-15
Acetone (2-Propanone)		4.3	0.48	0.36	ug/m3	TO-15
Benzene		0.70	0.64	0.32	ug/m3	TO-15
Chloromethane		1.3	0.41	0.21	ug/m3	TO-15
Dichlorodifluoromethane		2.5	0.99	0.49	ug/m3	TO-15
Methylene chloride		0.73	0.69	0.35	ug/m3	TO-15
Methyl ethyl ketone		0.50 J	0.59	0.44	ug/m3	TO-15
Toluene		0.68 J	0.75	0.57	ug/m3	TO-15
Trichlorofluoromethane		1.3	0.56	0.56	ug/m3	TO-15

Summary of Hits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
JD38291-19R	**776-VMP-2_011422_A**					
Acetone (2-Propanone)		5.8	0.80	0.60	ppbv	TO-15
Chloromethane		0.75 J	0.80	0.40	ppbv	TO-15
Dichlorodifluoromethane		0.56 J	0.80	0.40	ppbv	TO-15
Acetone (2-Propanone)		14	1.9	1.4	ug/m3	TO-15
Chloromethane		1.5 J	1.7	0.83	ug/m3	TO-15
Dichlorodifluoromethane		2.8 J	4.0	2.0	ug/m3	TO-15

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID: 786-VMP-2_011422
Lab Sample ID: JD38291-2R
Matrix: AIR - Soil Vapor Comp. Summa ID: A667
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W47615R.D	1	01/27/22 19:09	TCH	n/a	n/a	V5W1967
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	1.7	0.80	0.60	0.58	ppbv		4.0	1.9	1.4	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	0.40 U	0.80	0.40	0.34	ppbv		0.88 U	1.8	0.88	0.75	ug/m3
71-43-2	78.11	Benzene	0.40 U	0.80	0.40	0.25	ppbv		1.3 U	2.6	1.3	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	0.40 U	0.40	0.40	0.12	ppbv		2.7 U	2.7	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	0.40 U	0.16	0.40	0.28	ppbv		4.1 U	1.7	4.1	2.9	ug/m3
74-83-9	94.94	Bromomethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.1	1.6	1.1	ug/m3
100-44-7	126	Benzyl Chloride	0.40 U	0.80	0.40	0.15	ppbv		2.1 U	4.1	2.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	0.40 U	0.80	0.40	0.18	ppbv		1.2 U	2.5	1.2	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	0.40 U	0.80	0.40	0.30	ppbv		1.8 U	3.7	1.8	1.4	ug/m3
75-00-3	64.52	Chloroethane	0.40 U	0.80	0.40	0.27	ppbv		1.1 U	2.1	1.1	0.71	ug/m3
67-66-3	119.4	Chloroform	0.40 U	0.80	0.40	0.15	ppbv		2.0 U	3.9	2.0	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.38	0.80	0.40	0.36	ppbv	J	0.78	1.7	0.83	0.74	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.40 U	0.16	0.40	0.16	ppbv		2.5 U	1.0	2.5	1.0	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40 U	0.80	0.40	0.23	ppbv		1.6 U	3.2	1.6	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.40 U	0.16	0.40	0.24	ppbv		1.6 U	0.63	1.6	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.60 U	0.40	0.60	0.39	ppbv		4.6 U	3.1	4.6	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.7	1.8	1.2	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.44	0.80	0.40	0.13	ppbv	J	2.2	4.0	2.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	0.40 U	0.40	0.40	0.21	ppbv		3.4 U	3.4	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.40 U	0.16	0.40	0.31	ppbv		1.6 U	0.63	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.6	1.8	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40 U	0.40	0.40	0.16	ppbv		2.4 U	2.4	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	0.70 U	0.16	0.70	0.62	ppbv		4.2 U	0.96	4.2	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	0.40 U	0.40	0.40	0.15	ppbv		2.4 U	2.4	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.60 U	0.80	0.60	0.40	ppbv		2.7 U	3.6	2.7	1.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.79	0.80	0.40	0.24	ppbv	J	3.4	3.5	1.7	1.0	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.60 U	0.80	0.60	0.38	ppbv		2.9 U	3.9	2.9	1.9	ug/m3
76-13-1	187.4	Freon 113	0.40 U	0.40	0.40	0.12	ppbv		3.1 U	3.1	3.1	0.92	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.40 U	0.36	0.40	0.25	ppbv		4.3 U	3.8	4.3	2.7	ug/m3
591-78-6	100	2-Hexanone	0.60 U	0.80	0.60	0.58	ppbv		2.5 U	3.3	2.5	2.4	ug/m3

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	786-VMP-2_011422		
Lab Sample ID:	JD38291-2R	**Date Sampled:**	01/14/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A667	**Date Received:**	01/17/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.40 U	0.80	0.40	0.22	ppbv		1.4 U	2.8	1.4	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.60 U	0.80	0.60	0.44	ppbv		1.8 U	2.4	1.8	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40 U	0.80	0.40	0.29	ppbv		1.6 U	3.3	1.6	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.40 U	0.80	0.40	0.32	ppbv		1.4 U	2.9	1.4	1.2	ug/m3
91-20-3	128.17	Naphthalene	0.60 U	0.80	0.60	0.51	ppbv		3.1 U	4.2	3.1	2.7	ug/m3
100-42-5	104.1	Styrene	0.60 U	0.80	0.60	0.47	ppbv		2.6 U	3.4	2.6	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.40 U	0.40	0.40	0.19	ppbv		2.7 U	2.7	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.60 U	0.40	0.60	0.48	ppbv		4.5 U	3.0	4.5	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.40 U	0.80	0.40	0.35	ppbv		2.0 U	3.9	2.0	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.40 U	0.80	0.40	0.32	ppbv		2.0 U	3.9	2.0	1.6	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.10 U	0.16	0.10	0.056	ppbv		0.68 U	1.1	0.68	0.38	ug/m3
108-88-3	92.14	Toluene	0.50	0.80	0.60	0.23	ppbv	J	1.9	3.0	2.3	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.40	0.16	0.080	0.076	ppbv		2.1	0.86	0.43	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40 U	0.40	0.40	0.14	ppbv		2.2 U	2.2	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	0.40 U	0.16	0.40	0.28	ppbv		1.0 U	0.41	1.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	0.60 U	0.80	0.60	0.45	ppbv		2.1 U	2.8	2.1	1.6	ug/m3
	106.2	m,p-Xylene	3.6	0.80	0.60	0.56	ppbv		16	3.5	2.6	2.4	ug/m3
95-47-6	106.2	o-Xylene	1.5	0.80	0.40	0.31	ppbv		6.5	3.5	1.7	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: 786-VMP-3_011422
Lab Sample ID: JD38291-3R
Matrix: AIR - Soil Vapor Comp. Summa ID: M253
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W47617R.D	1	01/27/22 20:46	TCH	n/a	n/a	V5W1967
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	5.9	0.80	0.60	0.58	ppbv		14	1.9	1.4	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	0.40 U	0.80	0.40	0.34	ppbv		0.88 U	1.8	0.88	0.75	ug/m3
71-43-2	78.11	Benzene	0.40 U	0.80	0.40	0.25	ppbv		1.3 U	2.6	1.3	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	0.40 U	0.40	0.40	0.12	ppbv		2.7 U	2.7	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	0.40 U	0.16	0.40	0.28	ppbv		4.1 U	1.7	4.1	2.9	ug/m3
74-83-9	94.94	Bromomethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.1	1.6	1.1	ug/m3
100-44-7	126	Benzyl Chloride	0.40 U	0.80	0.40	0.15	ppbv		2.1 U	4.1	2.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	0.40 U	0.80	0.40	0.18	ppbv		1.2 U	2.5	1.2	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	0.40 U	0.80	0.40	0.30	ppbv		1.8 U	3.7	1.8	1.4	ug/m3
75-00-3	64.52	Chloroethane	0.40 U	0.80	0.40	0.27	ppbv		1.1 U	2.1	1.1	0.71	ug/m3
67-66-3	119.4	Chloroform	0.40 U	0.80	0.40	0.15	ppbv		2.0 U	3.9	2.0	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.73	0.80	0.40	0.36	ppbv	J	1.5	1.7	0.83	0.74	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.40 U	0.16	0.40	0.16	ppbv		2.5 U	1.0	2.5	1.0	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40 U	0.80	0.40	0.23	ppbv		1.6 U	3.2	1.6	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.40 U	0.16	0.40	0.24	ppbv		1.6 U	0.63	1.6	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.60 U	0.40	0.60	0.39	ppbv		4.6 U	3.1	4.6	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.7	1.8	1.2	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.42	0.80	0.40	0.13	ppbv	J	2.1	4.0	2.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	0.40 U	0.40	0.40	0.21	ppbv		3.4 U	3.4	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.40 U	0.16	0.40	0.31	ppbv		1.6 U	0.63	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.6	1.8	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40 U	0.40	0.40	0.16	ppbv		2.4 U	2.4	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	0.70 U	0.16	0.70	0.62	ppbv		4.2 U	0.96	4.2	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	0.40 U	0.40	0.40	0.15	ppbv		2.4 U	2.4	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.60 U	0.80	0.60	0.40	ppbv		2.7 U	3.6	2.7	1.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.40 U	0.80	0.40	0.24	ppbv		1.7 U	3.5	1.7	1.0	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.60 U	0.80	0.60	0.38	ppbv		2.9 U	3.9	2.9	1.9	ug/m3
76-13-1	187.4	Freon 113	0.40 U	0.40	0.40	0.12	ppbv		3.1 U	3.1	3.1	0.92	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.40 U	0.36	0.40	0.25	ppbv		4.3 U	3.8	4.3	2.7	ug/m3
591-78-6	100	2-Hexanone	0.60 U	0.80	0.60	0.58	ppbv		2.5 U	3.3	2.5	2.4	ug/m3

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 786-VMP-3_011422
Lab Sample ID: JD38291-3R
Matrix: AIR - Soil Vapor Comp. Summa ID: M253
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.40 U	0.80	0.40	0.22	ppbv		1.4 U	2.8	1.4	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.51	0.80	0.60	0.44	ppbv	J	1.5	2.4	1.8	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40 U	0.80	0.40	0.29	ppbv		1.6 U	3.3	1.6	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.40 U	0.80	0.40	0.32	ppbv		1.4 U	2.9	1.4	1.2	ug/m3
91-20-3	128.17	Naphthalene	0.60 U	0.80	0.60	0.51	ppbv		3.1 U	4.2	3.1	2.7	ug/m3
100-42-5	104.1	Styrene	0.60 U	0.80	0.60	0.47	ppbv		2.6 U	3.4	2.6	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.40 U	0.40	0.40	0.19	ppbv		2.7 U	2.7	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.60 U	0.40	0.60	0.48	ppbv		4.5 U	3.0	4.5	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.40 U	0.80	0.40	0.35	ppbv		2.0 U	3.9	2.0	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.40 U	0.80	0.40	0.32	ppbv		2.0 U	3.9	2.0	1.6	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.10 U	0.16	0.10	0.056	ppbv		0.68 U	1.1	0.68	0.38	ug/m3
108-88-3	92.14	Toluene	0.60 U	0.80	0.60	0.23	ppbv		2.3 U	3.0	2.3	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.27	0.16	0.080	0.076	ppbv		1.5	0.86	0.43	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40 U	0.40	0.40	0.14	ppbv		2.2 U	2.2	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	0.40 U	0.16	0.40	0.28	ppbv		1.0 U	0.41	1.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	0.60 U	0.80	0.60	0.45	ppbv		2.1 U	2.8	2.1	1.6	ug/m3
	106.2	m,p-Xylene	0.60 U	0.80	0.60	0.56	ppbv		2.6 U	3.5	2.6	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.40 U	0.80	0.40	0.31	ppbv		1.7 U	3.5	1.7	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: 785-OA-1_011422
Lab Sample ID: JD38291-4R
Matrix: AIR - Ambient Air Comp. Summa ID: A889
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W57493R.D	1	01/28/22 23:00	TCH	n/a	n/a	V2W2558
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	2.5	0.20	0.15	0.15	ppbv		5.9	0.48	0.36	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	0.10 U	0.20	0.10	0.084	ppbv		0.22 U	0.44	0.22	0.19	ug/m3
71-43-2	78.11	Benzene	0.38	0.20	0.10	0.062	ppbv		1.2	0.64	0.32	0.20	ug/m3
75-27-4	163.8	Bromodichloromethane	0.10 U	0.10	0.10	0.030	ppbv		0.67 U	0.67	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	0.10 U	0.040	0.10	0.071	ppbv		1.0 U	0.41	1.0	0.73	ug/m3
74-83-9	94.94	Bromomethane	0.10 U	0.20	0.10	0.069	ppbv		0.39 U	0.78	0.39	0.27	ug/m3
100-44-7	126	Benzyl Chloride	0.10 U	0.20	0.10	0.037	ppbv		0.52 U	1.0	0.52	0.19	ug/m3
75-15-0	76.14	Carbon disulfide	0.10 U	0.20	0.10	0.045	ppbv		0.31 U	0.62	0.31	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	0.10 U	0.20	0.10	0.074	ppbv		0.46 U	0.92	0.46	0.34	ug/m3
75-00-3	64.52	Chloroethane	0.10 U	0.20	0.10	0.068	ppbv		0.26 U	0.53	0.26	0.18	ug/m3
67-66-3	119.4	Chloroform	0.10 U	0.20	0.10	0.037	ppbv		0.49 U	0.98	0.49	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.67	0.20	0.10	0.090	ppbv		1.4	0.41	0.21	0.19	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.10 U	0.040	0.10	0.040	ppbv		0.63 U	0.25	0.63	0.25	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.10 U	0.20	0.10	0.057	ppbv		0.40 U	0.81	0.40	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.10 U	0.040	0.10	0.059	ppbv		0.40 U	0.16	0.40	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.15 U	0.10	0.15	0.097	ppbv		1.2 U	0.77	1.2	0.75	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.10 U	0.20	0.10	0.070	ppbv		0.40 U	0.81	0.40	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	0.10 U	0.20	0.10	0.062	ppbv		0.46 U	0.92	0.46	0.29	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.20	0.10	0.032	ppbv		2.5	0.99	0.49	0.16	ug/m3
124-48-1	208.3	Dibromochloromethane	0.10 U	0.10	0.10	0.052	ppbv		0.85 U	0.85	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.10 U	0.20	0.10	0.069	ppbv		0.40 U	0.79	0.40	0.27	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.10 U	0.040	0.10	0.077	ppbv		0.40 U	0.16	0.40	0.31	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.10 U	0.20	0.10	0.062	ppbv		0.45 U	0.91	0.45	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	0.10 U	0.10	0.10	0.040	ppbv		0.60 U	0.60	0.60	0.24	ug/m3
95-50-1	147	o-Dichlorobenzene	0.18 U	0.040	0.18	0.15	ppbv		1.1 U	0.24	1.1	0.90	ug/m3
106-46-7	147	p-Dichlorobenzene	0.10 U	0.10	0.10	0.038	ppbv		0.60 U	0.60	0.60	0.23	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.15 U	0.20	0.15	0.10	ppbv		0.68 U	0.91	0.68	0.45	ug/m3
100-41-4	106.2	Ethylbenzene	0.10 U	0.20	0.10	0.061	ppbv		0.43 U	0.87	0.43	0.26	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.15 U	0.20	0.15	0.095	ppbv		0.74 U	0.98	0.74	0.47	ug/m3
76-13-1	187.4	Freon 113	0.10 U	0.10	0.10	0.031	ppbv		0.77 U	0.77	0.77	0.24	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.10 U	0.090	0.10	0.062	ppbv		1.1 U	0.96	1.1	0.66	ug/m3
591-78-6	100	2-Hexanone	0.15 U	0.20	0.15	0.15	ppbv		0.61 U	0.82	0.61	0.61	ug/m3

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	785-OA-1_011422		
Lab Sample ID:	JD38291-4R	**Date Sampled:**	01/14/22
Matrix:	AIR - Ambient Air Comp. Summa ID: A889	**Date Received:**	01/17/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.22	0.20	0.10	0.056	ppbv		0.76	0.69	0.35	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.25	0.20	0.15	0.11	ppbv		0.74	0.59	0.44	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.10 U	0.20	0.10	0.073	ppbv		0.41 U	0.82	0.41	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.10 U	0.20	0.10	0.080	ppbv		0.36 U	0.72	0.36	0.29	ug/m3
91-20-3	128.17	Naphthalene	0.15 U	0.20	0.15	0.13	ppbv		0.79 U	1.0	0.79	0.68	ug/m3
100-42-5	104.1	Styrene	0.15 U	0.20	0.15	0.12	ppbv		0.64 U	0.85	0.64	0.51	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.10 U	0.10	0.10	0.037	ppbv		0.55 U	0.55	0.55	0.20	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.10 U	0.10	0.10	0.048	ppbv		0.69 U	0.69	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.10 U	0.10	0.10	0.038	ppbv		0.55 U	0.55	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.15 U	0.10	0.15	0.12	ppbv		1.1 U	0.74	1.1	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.10 U	0.20	0.10	0.087	ppbv		0.49 U	0.98	0.49	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.10 U	0.20	0.10	0.080	ppbv		0.49 U	0.98	0.49	0.39	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.050	0.040	0.025	0.014	ppbv		0.34	0.27	0.17	0.095	ug/m3
108-88-3	92.14	Toluene	0.50	0.20	0.15	0.057	ppbv		1.9	0.75	0.57	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	0.020 U	0.040	0.020	0.019	ppbv		0.11 U	0.21	0.11	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.24	0.10	0.10	0.036	ppbv		1.3	0.56	0.56	0.20	ug/m3
75-01-4	62.5	Vinyl chloride	0.10 U	0.040	0.10	0.069	ppbv		0.26 U	0.10	0.26	0.18	ug/m3
108-05-4	86	Vinyl Acetate	0.16	0.20	0.15	0.11	ppbv	J	0.56	0.70	0.53	0.39	ug/m3
	106.2	m,p-Xylene	0.19	0.20	0.15	0.14	ppbv	J	0.83	0.87	0.65	0.61	ug/m3
95-47-6	106.2	o-Xylene	0.10 U	0.20	0.10	0.077	ppbv		0.43 U	0.87	0.43	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: 785-VMP-2_011422
Lab Sample ID: JD38291-6R
Matrix: AIR - Soil Vapor Comp. Summa ID: A890
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W47618R.D	1	01/27/22 21:35	TCH	n/a	n/a	V5W1967
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	2.6	0.80	0.60	0.58	ppbv		6.2	1.9	1.4	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	0.40 U	0.80	0.40	0.34	ppbv		0.88 U	1.8	0.88	0.75	ug/m3
71-43-2	78.11	Benzene	0.43	0.80	0.40	0.25	ppbv	J	1.4	2.6	1.3	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	0.40 U	0.40	0.40	0.12	ppbv		2.7 U	2.7	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	0.40 U	0.16	0.40	0.28	ppbv		4.1 U	1.7	4.1	2.9	ug/m3
74-83-9	94.94	Bromomethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.1	1.6	1.1	ug/m3
100-44-7	126	Benzyl Chloride	0.40 U	0.80	0.40	0.15	ppbv		2.1 U	4.1	2.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	0.40 U	0.80	0.40	0.18	ppbv		1.2 U	2.5	1.2	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	0.40 U	0.80	0.40	0.30	ppbv		1.8 U	3.7	1.8	1.4	ug/m3
75-00-3	64.52	Chloroethane	0.40 U	0.80	0.40	0.27	ppbv		1.1 U	2.1	1.1	0.71	ug/m3
67-66-3	119.4	Chloroform	0.40 U	0.80	0.40	0.15	ppbv		2.0 U	3.9	2.0	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.90	0.80	0.40	0.36	ppbv		1.9	1.7	0.83	0.74	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.40 U	0.16	0.40	0.16	ppbv		2.5 U	1.0	2.5	1.0	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40 U	0.80	0.40	0.23	ppbv		1.6 U	3.2	1.6	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.40 U	0.16	0.40	0.24	ppbv		1.6 U	0.63	1.6	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.60 U	0.40	0.60	0.39	ppbv		4.6 U	3.1	4.6	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.7	1.8	1.2	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.42	0.80	0.40	0.13	ppbv	J	2.1	4.0	2.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	0.40 U	0.40	0.40	0.21	ppbv		3.4 U	3.4	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.40 U	0.16	0.40	0.31	ppbv		1.6 U	0.63	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.6	1.8	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40 U	0.40	0.40	0.16	ppbv		2.4 U	2.4	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	0.70 U	0.16	0.70	0.62	ppbv		4.2 U	0.96	4.2	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	0.40 U	0.40	0.40	0.15	ppbv		2.4 U	2.4	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.60 U	0.80	0.60	0.40	ppbv		2.7 U	3.6	2.7	1.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.40 U	0.80	0.40	0.24	ppbv		1.7 U	3.5	1.7	1.0	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.60 U	0.80	0.60	0.38	ppbv		2.9 U	3.9	2.9	1.9	ug/m3
76-13-1	187.4	Freon 113	0.40 U	0.40	0.40	0.12	ppbv		3.1 U	3.1	3.1	0.92	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.40 U	0.36	0.40	0.25	ppbv		4.3 U	3.8	4.3	2.7	ug/m3
591-78-6	100	2-Hexanone	0.60 U	0.80	0.60	0.58	ppbv		2.5 U	3.3	2.5	2.4	ug/m3

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	785-VMP-2_011422		
Lab Sample ID:	JD38291-6R	**Date Sampled:**	01/14/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A890	**Date Received:**	01/17/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.40 U	0.80	0.40	0.22	ppbv		1.4 U	2.8	1.4	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.74	0.80	0.60	0.44	ppbv	J	2.2	2.4	1.8	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40 U	0.80	0.40	0.29	ppbv		1.6 U	3.3	1.6	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.40 U	0.80	0.40	0.32	ppbv		1.4 U	2.9	1.4	1.2	ug/m3
91-20-3	128.17	Naphthalene	0.60 U	0.80	0.60	0.51	ppbv		3.1 U	4.2	3.1	2.7	ug/m3
100-42-5	104.1	Styrene	0.60 U	0.80	0.60	0.47	ppbv		2.6 U	3.4	2.6	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.40 U	0.40	0.40	0.19	ppbv		2.7 U	2.7	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.60 U	0.40	0.60	0.48	ppbv		4.5 U	3.0	4.5	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.40 U	0.80	0.40	0.35	ppbv		2.0 U	3.9	2.0	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.40 U	0.80	0.40	0.32	ppbv		2.0 U	3.9	2.0	1.6	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.10 U	0.16	0.10	0.056	ppbv		0.68 U	1.1	0.68	0.38	ug/m3
108-88-3	92.14	Toluene	0.78	0.80	0.60	0.23	ppbv	J	2.9	3.0	2.3	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.57	0.16	0.080	0.076	ppbv		3.1	0.86	0.43	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40 U	0.40	0.40	0.14	ppbv		2.2 U	2.2	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	0.40 U	0.16	0.40	0.28	ppbv		1.0 U	0.41	1.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	0.60 U	0.80	0.60	0.45	ppbv		2.1 U	2.8	2.1	1.6	ug/m3
	106.2	m,p-Xylene	0.60 U	0.80	0.60	0.56	ppbv		2.6 U	3.5	2.6	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.40 U	0.80	0.40	0.31	ppbv		1.7 U	3.5	1.7	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	785-VMP-4_011422		
Lab Sample ID:	JD38291-7R	**Date Sampled:**	01/14/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1051	**Date Received:**	01/17/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W47619R.D	1	01/27/22 22:24	TCH	n/a	n/a	V5W1967
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	3.2	0.80	0.60	0.58	ppbv		7.6	1.9	1.4	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	0.40 U	0.80	0.40	0.34	ppbv		0.88 U	1.8	0.88	0.75	ug/m3
71-43-2	78.11	Benzene	0.56	0.80	0.40	0.25	ppbv	J	1.8	2.6	1.3	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	0.40 U	0.40	0.40	0.12	ppbv		2.7 U	2.7	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	0.40 U	0.16	0.40	0.28	ppbv		4.1 U	1.7	4.1	2.9	ug/m3
74-83-9	94.94	Bromomethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.1	1.6	1.1	ug/m3
100-44-7	126	Benzyl Chloride	0.40 U	0.80	0.40	0.15	ppbv		2.1 U	4.1	2.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	0.40 U	0.80	0.40	0.18	ppbv		1.2 U	2.5	1.2	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	0.40 U	0.80	0.40	0.30	ppbv		1.8 U	3.7	1.8	1.4	ug/m3
75-00-3	64.52	Chloroethane	0.40 U	0.80	0.40	0.27	ppbv		1.1 U	2.1	1.1	0.71	ug/m3
67-66-3	119.4	Chloroform	0.40 U	0.80	0.40	0.15	ppbv		2.0 U	3.9	2.0	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.87	0.80	0.40	0.36	ppbv		1.8	1.7	0.83	0.74	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.40 U	0.16	0.40	0.16	ppbv		2.5 U	1.0	2.5	1.0	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40 U	0.80	0.40	0.23	ppbv		1.6 U	3.2	1.6	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.40 U	0.16	0.40	0.24	ppbv		1.6 U	0.63	1.6	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.60 U	0.40	0.60	0.39	ppbv		4.6 U	3.1	4.6	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.7	1.8	1.2	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.43	0.80	0.40	0.13	ppbv	J	2.1	4.0	2.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	0.40 U	0.40	0.40	0.21	ppbv		3.4 U	3.4	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.40 U	0.16	0.40	0.31	ppbv		1.6 U	0.63	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.6	1.8	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40 U	0.40	0.40	0.16	ppbv		2.4 U	2.4	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	0.70 U	0.16	0.70	0.62	ppbv		4.2 U	0.96	4.2	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	0.40 U	0.40	0.40	0.15	ppbv		2.4 U	2.4	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.60 U	0.80	0.60	0.40	ppbv		2.7 U	3.6	2.7	1.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.40 U	0.80	0.40	0.24	ppbv		1.7 U	3.5	1.7	1.0	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.60 U	0.80	0.60	0.38	ppbv		2.9 U	3.9	2.9	1.9	ug/m3
76-13-1	187.4	Freon 113	0.40 U	0.40	0.40	0.12	ppbv		3.1 U	3.1	3.1	0.92	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.40 U	0.36	0.40	0.25	ppbv		4.3 U	3.8	4.3	2.7	ug/m3
591-78-6	100	2-Hexanone	0.60 U	0.80	0.60	0.58	ppbv		2.5 U	3.3	2.5	2.4	ug/m3

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 785-VMP-4_011422
Lab Sample ID: JD38291-7R
Matrix: AIR - Soil Vapor Comp. Summa ID: A1051
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.85	0.80	0.40	0.22	ppbv		3.0	2.8	1.4	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.69	0.80	0.60	0.44	ppbv	J	2.0	2.4	1.8	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40 U	0.80	0.40	0.29	ppbv		1.6 U	3.3	1.6	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.40 U	0.80	0.40	0.32	ppbv		1.4 U	2.9	1.4	1.2	ug/m3
91-20-3	128.17	Naphthalene	0.60 U	0.80	0.60	0.51	ppbv		3.1 U	4.2	3.1	2.7	ug/m3
100-42-5	104.1	Styrene	0.60 U	0.80	0.60	0.47	ppbv		2.6 U	3.4	2.6	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.40 U	0.40	0.40	0.19	ppbv		2.7 U	2.7	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.60 U	0.40	0.60	0.48	ppbv		4.5 U	3.0	4.5	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.40 U	0.80	0.40	0.35	ppbv		2.0 U	3.9	2.0	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.40 U	0.80	0.40	0.32	ppbv		2.0 U	3.9	2.0	1.6	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.10 U	0.16	0.10	0.056	ppbv		0.68 U	1.1	0.68	0.38	ug/m3
108-88-3	92.14	Toluene	1.3	0.80	0.60	0.23	ppbv		4.9	3.0	2.3	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.080 U	0.16	0.080	0.076	ppbv		0.43 U	0.86	0.43	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40 U	0.40	0.40	0.14	ppbv		2.2 U	2.2	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	0.40 U	0.16	0.40	0.28	ppbv		1.0 U	0.41	1.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	0.60 U	0.80	0.60	0.45	ppbv		2.1 U	2.8	2.1	1.6	ug/m3
	106.2	m,p-Xylene	0.60 U	0.80	0.60	0.56	ppbv		2.6 U	3.5	2.6	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.40 U	0.80	0.40	0.31	ppbv		1.7 U	3.5	1.7	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		65-128%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: 785-VMP-5_011422
Lab Sample ID: JD38291-8R
Matrix: AIR - Soil Vapor Comp. Summa ID: A864
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W47620R.D	1	01/27/22 23:13	TCH	n/a	n/a	V5W1967
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	6.9	0.80	0.60	0.58	ppbv		16	1.9	1.4	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	0.40 U	0.80	0.40	0.34	ppbv		0.88 U	1.8	0.88	0.75	ug/m3
71-43-2	78.11	Benzene	0.40 U	0.80	0.40	0.25	ppbv		1.3 U	2.6	1.3	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	0.40 U	0.40	0.40	0.12	ppbv		2.7 U	2.7	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	0.40 U	0.16	0.40	0.28	ppbv		4.1 U	1.7	4.1	2.9	ug/m3
74-83-9	94.94	Bromomethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.1	1.6	1.1	ug/m3
100-44-7	126	Benzyl Chloride	0.40 U	0.80	0.40	0.15	ppbv		2.1 U	4.1	2.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	0.40 U	0.80	0.40	0.18	ppbv		1.2 U	2.5	1.2	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	0.40 U	0.80	0.40	0.30	ppbv		1.8 U	3.7	1.8	1.4	ug/m3
75-00-3	64.52	Chloroethane	0.40 U	0.80	0.40	0.27	ppbv		1.1 U	2.1	1.1	0.71	ug/m3
67-66-3	119.4	Chloroform	0.40 U	0.80	0.40	0.15	ppbv		2.0 U	3.9	2.0	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.43	0.80	0.40	0.36	ppbv	J	0.89	1.7	0.83	0.74	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.40 U	0.16	0.40	0.16	ppbv		2.5 U	1.0	2.5	1.0	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40 U	0.80	0.40	0.23	ppbv		1.6 U	3.2	1.6	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.40 U	0.16	0.40	0.24	ppbv		1.6 U	0.63	1.6	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.60 U	0.40	0.60	0.39	ppbv		4.6 U	3.1	4.6	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.7	1.8	1.2	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.47	0.80	0.40	0.13	ppbv	J	2.3	4.0	2.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	0.40 U	0.40	0.40	0.21	ppbv		3.4 U	3.4	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.40 U	0.16	0.40	0.31	ppbv		1.6 U	0.63	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.6	1.8	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40 U	0.40	0.40	0.16	ppbv		2.4 U	2.4	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	0.70 U	0.16	0.70	0.62	ppbv		4.2 U	0.96	4.2	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	0.40 U	0.40	0.40	0.15	ppbv		2.4 U	2.4	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.60 U	0.80	0.60	0.40	ppbv		2.7 U	3.6	2.7	1.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.40 U	0.80	0.40	0.24	ppbv		1.7 U	3.5	1.7	1.0	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.60 U	0.80	0.60	0.38	ppbv		2.9 U	3.9	2.9	1.9	ug/m3
76-13-1	187.4	Freon 113	0.40 U	0.40	0.40	0.12	ppbv		3.1 U	3.1	3.1	0.92	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.40 U	0.36	0.40	0.25	ppbv		4.3 U	3.8	4.3	2.7	ug/m3
591-78-6	100	2-Hexanone	0.60 U	0.80	0.60	0.58	ppbv		2.5 U	3.3	2.5	2.4	ug/m3

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 785-VMP-5_011422
Lab Sample ID: JD38291-8R
Matrix: AIR - Soil Vapor Comp. Summa ID: A864
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.40 U	0.80	0.40	0.22	ppbv		1.4 U	2.8	1.4	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.63	0.80	0.60	0.44	ppbv	J	1.9	2.4	1.8	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40 U	0.80	0.40	0.29	ppbv		1.6 U	3.3	1.6	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.40 U	0.80	0.40	0.32	ppbv		1.4 U	2.9	1.4	1.2	ug/m3
91-20-3	128.17	Naphthalene	0.60 U	0.80	0.60	0.51	ppbv		3.1 U	4.2	3.1	2.7	ug/m3
100-42-5	104.1	Styrene	0.60 U	0.80	0.60	0.47	ppbv		2.6 U	3.4	2.6	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.40 U	0.40	0.40	0.19	ppbv		2.7 U	2.7	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.60 U	0.40	0.60	0.48	ppbv		4.5 U	3.0	4.5	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.40 U	0.80	0.40	0.35	ppbv		2.0 U	3.9	2.0	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.40 U	0.80	0.40	0.32	ppbv		2.0 U	3.9	2.0	1.6	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.10 U	0.16	0.10	0.056	ppbv		0.68 U	1.1	0.68	0.38	ug/m3
108-88-3	92.14	Toluene	0.60 U	0.80	0.60	0.23	ppbv		2.3 U	3.0	2.3	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.080 U	0.16	0.080	0.076	ppbv		0.43 U	0.86	0.43	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40 U	0.40	0.40	0.14	ppbv		2.2 U	2.2	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	0.40 U	0.16	0.40	0.28	ppbv		1.0 U	0.41	1.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	0.60 U	0.80	0.60	0.45	ppbv		2.1 U	2.8	2.1	1.6	ug/m3
	106.2	m,p-Xylene	0.60 U	0.80	0.60	0.56	ppbv		2.6 U	3.5	2.6	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.40 U	0.80	0.40	0.31	ppbv		1.7 U	3.5	1.7	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	785-VMP-2_011422-A		
Lab Sample ID:	JD38291-9R	**Date Sampled:**	01/14/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A341	**Date Received:**	01/17/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W47621R.D	1	01/28/22 00:02	TCH	n/a	n/a	V5W1967
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	3.3	0.80	0.60	0.58	ppbv		7.8	1.9	1.4	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	0.40 U	0.80	0.40	0.34	ppbv		0.88 U	1.8	0.88	0.75	ug/m3
71-43-2	78.11	Benzene	0.45	0.80	0.40	0.25	ppbv	J	1.4	2.6	1.3	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	0.40 U	0.40	0.40	0.12	ppbv		2.7 U	2.7	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	0.40 U	0.16	0.40	0.28	ppbv		4.1 U	1.7	4.1	2.9	ug/m3
74-83-9	94.94	Bromomethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.1	1.6	1.1	ug/m3
100-44-7	126	Benzyl Chloride	0.40 U	0.80	0.40	0.15	ppbv		2.1 U	4.1	2.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	0.40 U	0.80	0.40	0.18	ppbv		1.2 U	2.5	1.2	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	0.40 U	0.80	0.40	0.30	ppbv		1.8 U	3.7	1.8	1.4	ug/m3
75-00-3	64.52	Chloroethane	0.40 U	0.80	0.40	0.27	ppbv		1.1 U	2.1	1.1	0.71	ug/m3
67-66-3	119.4	Chloroform	0.40 U	0.80	0.40	0.15	ppbv		2.0 U	3.9	2.0	0.73	ug/m3
74-87-3	50.49	Chloromethane	1.4	0.80	0.40	0.36	ppbv		2.9	1.7	0.83	0.74	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.40 U	0.16	0.40	0.16	ppbv		2.5 U	1.0	2.5	1.0	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40 U	0.80	0.40	0.23	ppbv		1.6 U	3.2	1.6	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.40 U	0.16	0.40	0.24	ppbv		1.6 U	0.63	1.6	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.60 U	0.40	0.60	0.39	ppbv		4.6 U	3.1	4.6	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.7	1.8	1.2	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.44	0.80	0.40	0.13	ppbv	J	2.2	4.0	2.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	0.40 U	0.40	0.40	0.21	ppbv		3.4 U	3.4	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.40 U	0.16	0.40	0.31	ppbv		1.6 U	0.63	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.6	1.8	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40 U	0.40	0.40	0.16	ppbv		2.4 U	2.4	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	0.70 U	0.16	0.70	0.62	ppbv		4.2 U	0.96	4.2	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	0.40 U	0.40	0.40	0.15	ppbv		2.4 U	2.4	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.60 U	0.80	0.60	0.40	ppbv		2.7 U	3.6	2.7	1.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.40 U	0.80	0.40	0.24	ppbv		1.7 U	3.5	1.7	1.0	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.60 U	0.80	0.60	0.38	ppbv		2.9 U	3.9	2.9	1.9	ug/m3
76-13-1	187.4	Freon 113	0.40 U	0.40	0.40	0.12	ppbv		3.1 U	3.1	3.1	0.92	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.40 U	0.36	0.40	0.25	ppbv		4.3 U	3.8	4.3	2.7	ug/m3
591-78-6	100	2-Hexanone	0.60 U	0.80	0.60	0.58	ppbv		2.5 U	3.3	2.5	2.4	ug/m3

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	785-VMP-2_011422-A		
Lab Sample ID:	JD38291-9R	**Date Sampled:**	01/14/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A341	**Date Received:**	01/17/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.40 U	0.80	0.40	0.22	ppbv		1.4 U	2.8	1.4	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.94	0.80	0.60	0.44	ppbv		2.8	2.4	1.8	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40 U	0.80	0.40	0.29	ppbv		1.6 U	3.3	1.6	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.40 U	0.80	0.40	0.32	ppbv		1.4 U	2.9	1.4	1.2	ug/m3
91-20-3	128.17	Naphthalene	0.60 U	0.80	0.60	0.51	ppbv		3.1 U	4.2	3.1	2.7	ug/m3
100-42-5	104.1	Styrene	0.60 U	0.80	0.60	0.47	ppbv		2.6 U	3.4	2.6	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.40 U	0.40	0.40	0.19	ppbv		2.7 U	2.7	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.60 U	0.40	0.60	0.48	ppbv		4.5 U	3.0	4.5	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.40 U	0.80	0.40	0.35	ppbv		2.0 U	3.9	2.0	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.40 U	0.80	0.40	0.32	ppbv		2.0 U	3.9	2.0	1.6	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.10 U	0.16	0.10	0.056	ppbv		0.68 U	1.1	0.68	0.38	ug/m3
108-88-3	92.14	Toluene	0.77	0.80	0.60	0.23	ppbv	J	2.9	3.0	2.3	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	1.4	0.16	0.080	0.076	ppbv		7.5	0.86	0.43	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40 U	0.40	0.40	0.14	ppbv		2.2 U	2.2	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	0.40 U	0.16	0.40	0.28	ppbv		1.0 U	0.41	1.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	0.60 U	0.80	0.60	0.45	ppbv		2.1 U	2.8	2.1	1.6	ug/m3
	106.2	m,p-Xylene	0.60 U	0.80	0.60	0.56	ppbv		2.6 U	3.5	2.6	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.40 U	0.80	0.40	0.31	ppbv		1.7 U	3.5	1.7	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: 774-VMP-1_011422
Lab Sample ID: JD38291-10R
Matrix: AIR - Soil Vapor Comp. Summa ID: A184
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W47622R.D	1	01/28/22 00:52	TCH	n/a	n/a	V5W1967
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	5.5	0.80	0.60	0.58	ppbv		13	1.9	1.4	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	0.40 U	0.80	0.40	0.34	ppbv		0.88 U	1.8	0.88	0.75	ug/m3
71-43-2	78.11	Benzene	0.40 U	0.80	0.40	0.25	ppbv		1.3 U	2.6	1.3	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	0.40 U	0.40	0.40	0.12	ppbv		2.7 U	2.7	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	0.40 U	0.16	0.40	0.28	ppbv		4.1 U	1.7	4.1	2.9	ug/m3
74-83-9	94.94	Bromomethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.1	1.6	1.1	ug/m3
100-44-7	126	Benzyl Chloride	0.40 U	0.80	0.40	0.15	ppbv		2.1 U	4.1	2.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	0.40 U	0.80	0.40	0.18	ppbv		1.2 U	2.5	1.2	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	0.40 U	0.80	0.40	0.30	ppbv		1.8 U	3.7	1.8	1.4	ug/m3
75-00-3	64.52	Chloroethane	0.40 U	0.80	0.40	0.27	ppbv		1.1 U	2.1	1.1	0.71	ug/m3
67-66-3	119.4	Chloroform	0.40 U	0.80	0.40	0.15	ppbv		2.0 U	3.9	2.0	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.68	0.80	0.40	0.36	ppbv	J	1.4	1.7	0.83	0.74	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.40 U	0.16	0.40	0.16	ppbv		2.5 U	1.0	2.5	1.0	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40 U	0.80	0.40	0.23	ppbv		1.6 U	3.2	1.6	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.40 U	0.16	0.40	0.24	ppbv		1.6 U	0.63	1.6	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.60 U	0.40	0.60	0.39	ppbv		4.6 U	3.1	4.6	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.7	1.8	1.2	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.44	0.80	0.40	0.13	ppbv	J	2.2	4.0	2.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	0.40 U	0.40	0.40	0.21	ppbv		3.4 U	3.4	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.40 U	0.16	0.40	0.31	ppbv		1.6 U	0.63	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.6	1.8	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40 U	0.40	0.40	0.16	ppbv		2.4 U	2.4	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	0.70 U	0.16	0.70	0.62	ppbv		4.2 U	0.96	4.2	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	0.40 U	0.40	0.40	0.15	ppbv		2.4 U	2.4	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.60 U	0.80	0.60	0.40	ppbv		2.7 U	3.6	2.7	1.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.40 U	0.80	0.40	0.24	ppbv		1.7 U	3.5	1.7	1.0	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.60 U	0.80	0.60	0.38	ppbv		2.9 U	3.9	2.9	1.9	ug/m3
76-13-1	187.4	Freon 113	0.40 U	0.40	0.40	0.12	ppbv		3.1 U	3.1	3.1	0.92	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.40 U	0.36	0.40	0.25	ppbv		4.3 U	3.8	4.3	2.7	ug/m3
591-78-6	100	2-Hexanone	0.60 U	0.80	0.60	0.58	ppbv		2.5 U	3.3	2.5	2.4	ug/m3

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	774-VMP-1_011422		
Lab Sample ID:	JD38291-10R	**Date Sampled:**	01/14/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A184	**Date Received:**	01/17/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.40 U	0.80	0.40	0.22	ppbv		1.4 U	2.8	1.4	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.60 U	0.80	0.60	0.44	ppbv		1.8 U	2.4	1.8	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40 U	0.80	0.40	0.29	ppbv		1.6 U	3.3	1.6	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.40 U	0.80	0.40	0.32	ppbv		1.4 U	2.9	1.4	1.2	ug/m3
91-20-3	128.17	Naphthalene	0.60 U	0.80	0.60	0.51	ppbv		3.1 U	4.2	3.1	2.7	ug/m3
100-42-5	104.1	Styrene	0.60 U	0.80	0.60	0.47	ppbv		2.6 U	3.4	2.6	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.40 U	0.40	0.40	0.19	ppbv		2.7 U	2.7	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.60 U	0.40	0.60	0.48	ppbv		4.5 U	3.0	4.5	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.40 U	0.80	0.40	0.35	ppbv		2.0 U	3.9	2.0	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.40 U	0.80	0.40	0.32	ppbv		2.0 U	3.9	2.0	1.6	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.10 U	0.16	0.10	0.056	ppbv		0.68 U	1.1	0.68	0.38	ug/m3
108-88-3	92.14	Toluene	0.41	0.80	0.60	0.23	ppbv	J	1.5	3.0	2.3	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.29	0.16	0.080	0.076	ppbv		1.6	0.86	0.43	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.4	0.40	0.40	0.14	ppbv		7.9	2.2	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	0.40 U	0.16	0.40	0.28	ppbv		1.0 U	0.41	1.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	0.60 U	0.80	0.60	0.45	ppbv		2.1 U	2.8	2.1	1.6	ug/m3
	106.2	m,p-Xylene	0.60 U	0.80	0.60	0.56	ppbv		2.6 U	3.5	2.6	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.40 U	0.80	0.40	0.31	ppbv		1.7 U	3.5	1.7	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: 774-VMP-2_011422
Lab Sample ID: JD38291-11R
Matrix: AIR - Soil Vapor Comp. Summa ID: A813
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W47623R.D	1	01/28/22 01:41	TCH	n/a	n/a	V5W1967
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	32.8	0.80	0.60	0.58	ppbv		77.9	1.9	1.4	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	0.40 U	0.80	0.40	0.34	ppbv		0.88 U	1.8	0.88	0.75	ug/m3
71-43-2	78.11	Benzene	0.40 U	0.80	0.40	0.25	ppbv		1.3 U	2.6	1.3	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	0.40 U	0.40	0.40	0.12	ppbv		2.7 U	2.7	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	0.40 U	0.16	0.40	0.28	ppbv		4.1 U	1.7	4.1	2.9	ug/m3
74-83-9	94.94	Bromomethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.1	1.6	1.1	ug/m3
100-44-7	126	Benzyl Chloride	0.40 U	0.80	0.40	0.15	ppbv		2.1 U	4.1	2.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	0.40 U	0.80	0.40	0.18	ppbv		1.2 U	2.5	1.2	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	0.40 U	0.80	0.40	0.30	ppbv		1.8 U	3.7	1.8	1.4	ug/m3
75-00-3	64.52	Chloroethane	0.40 U	0.80	0.40	0.27	ppbv		1.1 U	2.1	1.1	0.71	ug/m3
67-66-3	119.4	Chloroform	0.55	0.80	0.40	0.15	ppbv	J	2.7	3.9	2.0	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.40 U	0.80	0.40	0.36	ppbv		0.83 U	1.7	0.83	0.74	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.40 U	0.16	0.40	0.16	ppbv		2.5 U	1.0	2.5	1.0	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40 U	0.80	0.40	0.23	ppbv		1.6 U	3.2	1.6	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.40 U	0.16	0.40	0.24	ppbv		1.6 U	0.63	1.6	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.60 U	0.40	0.60	0.39	ppbv		4.6 U	3.1	4.6	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.7	1.8	1.2	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.45	0.80	0.40	0.13	ppbv	J	2.2	4.0	2.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	0.40 U	0.40	0.40	0.21	ppbv		3.4 U	3.4	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.40 U	0.16	0.40	0.31	ppbv		1.6 U	0.63	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.6	1.8	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40 U	0.40	0.40	0.16	ppbv		2.4 U	2.4	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	0.70 U	0.16	0.70	0.62	ppbv		4.2 U	0.96	4.2	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	0.40 U	0.40	0.40	0.15	ppbv		2.4 U	2.4	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.60 U	0.80	0.60	0.40	ppbv		2.7 U	3.6	2.7	1.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.40 U	0.80	0.40	0.24	ppbv		1.7 U	3.5	1.7	1.0	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.60 U	0.80	0.60	0.38	ppbv		2.9 U	3.9	2.9	1.9	ug/m3
76-13-1	187.4	Freon 113	0.40 U	0.40	0.40	0.12	ppbv		3.1 U	3.1	3.1	0.92	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.40 U	0.36	0.40	0.25	ppbv		4.3 U	3.8	4.3	2.7	ug/m3
591-78-6	100	2-Hexanone	0.60 U	0.80	0.60	0.58	ppbv		2.5 U	3.3	2.5	2.4	ug/m3

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	774-VMP-2_011422		
Lab Sample ID:	JD38291-11R	**Date Sampled:**	01/14/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A813	**Date Received:**	01/17/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.40 U	0.80	0.40	0.22	ppbv		1.4 U	2.8	1.4	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.2	0.80	0.60	0.44	ppbv		3.5	2.4	1.8	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40 U	0.80	0.40	0.29	ppbv		1.6 U	3.3	1.6	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.40 U	0.80	0.40	0.32	ppbv		1.4 U	2.9	1.4	1.2	ug/m3
91-20-3	128.17	Naphthalene	0.60 U	0.80	0.60	0.51	ppbv		3.1 U	4.2	3.1	2.7	ug/m3
100-42-5	104.1	Styrene	0.60 U	0.80	0.60	0.47	ppbv		2.6 U	3.4	2.6	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	1.3	0.40	0.40	0.15	ppbv		7.1	2.2	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.40 U	0.40	0.40	0.19	ppbv		2.7 U	2.7	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.60 U	0.40	0.60	0.48	ppbv		4.5 U	3.0	4.5	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.40 U	0.80	0.40	0.35	ppbv		2.0 U	3.9	2.0	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.40 U	0.80	0.40	0.32	ppbv		2.0 U	3.9	2.0	1.6	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.10 U	0.16	0.10	0.056	ppbv		0.68 U	1.1	0.68	0.38	ug/m3
108-88-3	92.14	Toluene	0.46	0.80	0.60	0.23	ppbv	J	1.7	3.0	2.3	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	7.4	0.16	0.080	0.076	ppbv		40	0.86	0.43	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	9.8	0.40	0.40	0.14	ppbv		55	2.2	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	0.40 U	0.16	0.40	0.28	ppbv		1.0 U	0.41	1.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	0.60 U	0.80	0.60	0.45	ppbv		2.1 U	2.8	2.1	1.6	ug/m3
	106.2	m,p-Xylene	0.60 U	0.80	0.60	0.56	ppbv		2.6 U	3.5	2.6	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.40 U	0.80	0.40	0.31	ppbv		1.7 U	3.5	1.7	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: 774-VMP-3_011422
Lab Sample ID: JD38291-12R
Matrix: AIR - Soil Vapor Comp. Summa ID: A1168
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W47624R.D	1	01/28/22 02:29	TCH	n/a	n/a	V5W1967
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	7.8	0.80	0.60	0.58	ppbv		19	1.9	1.4	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	0.40 U	0.80	0.40	0.34	ppbv		0.88 U	1.8	0.88	0.75	ug/m3
71-43-2	78.11	Benzene	0.40 U	0.80	0.40	0.25	ppbv		1.3 U	2.6	1.3	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	0.40 U	0.40	0.40	0.12	ppbv		2.7 U	2.7	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	0.40 U	0.16	0.40	0.28	ppbv		4.1 U	1.7	4.1	2.9	ug/m3
74-83-9	94.94	Bromomethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.1	1.6	1.1	ug/m3
100-44-7	126	Benzyl Chloride	0.40 U	0.80	0.40	0.15	ppbv		2.1 U	4.1	2.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	0.40 U	0.80	0.40	0.18	ppbv		1.2 U	2.5	1.2	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	0.40 U	0.80	0.40	0.30	ppbv		1.8 U	3.7	1.8	1.4	ug/m3
75-00-3	64.52	Chloroethane	0.40 U	0.80	0.40	0.27	ppbv		1.1 U	2.1	1.1	0.71	ug/m3
67-66-3	119.4	Chloroform	0.40 U	0.80	0.40	0.15	ppbv		2.0 U	3.9	2.0	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.74	0.80	0.40	0.36	ppbv	J	1.5	1.7	0.83	0.74	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.40 U	0.16	0.40	0.16	ppbv		2.5 U	1.0	2.5	1.0	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40 U	0.80	0.40	0.23	ppbv		1.6 U	3.2	1.6	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.40 U	0.16	0.40	0.24	ppbv		1.6 U	0.63	1.6	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.60 U	0.40	0.60	0.39	ppbv		4.6 U	3.1	4.6	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.7	1.8	1.2	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.44	0.80	0.40	0.13	ppbv	J	2.2	4.0	2.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	0.40 U	0.40	0.40	0.21	ppbv		3.4 U	3.4	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.40 U	0.16	0.40	0.31	ppbv		1.6 U	0.63	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.6	1.8	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40 U	0.40	0.40	0.16	ppbv		2.4 U	2.4	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	0.70 U	0.16	0.70	0.62	ppbv		4.2 U	0.96	4.2	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	0.40 U	0.40	0.40	0.15	ppbv		2.4 U	2.4	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.60 U	0.80	0.60	0.40	ppbv		2.7 U	3.6	2.7	1.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.40 U	0.80	0.40	0.24	ppbv		1.7 U	3.5	1.7	1.0	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.60 U	0.80	0.60	0.38	ppbv		2.9 U	3.9	2.9	1.9	ug/m3
76-13-1	187.4	Freon 113	0.40 U	0.40	0.40	0.12	ppbv		3.1 U	3.1	3.1	0.92	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.40 U	0.36	0.40	0.25	ppbv		4.3 U	3.8	4.3	2.7	ug/m3
591-78-6	100	2-Hexanone	0.60 U	0.80	0.60	0.58	ppbv		2.5 U	3.3	2.5	2.4	ug/m3

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	774-VMP-3_011422		
Lab Sample ID:	JD38291-12R	**Date Sampled:**	01/14/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1168	**Date Received:**	01/17/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.40 U	0.80	0.40	0.22	ppbv		1.4 U	2.8	1.4	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	4.4	0.80	0.60	0.44	ppbv		13	2.4	1.8	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40 U	0.80	0.40	0.29	ppbv		1.6 U	3.3	1.6	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.40 U	0.80	0.40	0.32	ppbv		1.4 U	2.9	1.4	1.2	ug/m3
91-20-3	128.17	Naphthalene	0.60 U	0.80	0.60	0.51	ppbv		3.1 U	4.2	3.1	2.7	ug/m3
100-42-5	104.1	Styrene	0.60 U	0.80	0.60	0.47	ppbv		2.6 U	3.4	2.6	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.40 U	0.40	0.40	0.19	ppbv		2.7 U	2.7	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.60 U	0.40	0.60	0.48	ppbv		4.5 U	3.0	4.5	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.40 U	0.80	0.40	0.35	ppbv		2.0 U	3.9	2.0	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.40 U	0.80	0.40	0.32	ppbv		2.0 U	3.9	2.0	1.6	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.10 U	0.16	0.10	0.056	ppbv		0.68 U	1.1	0.68	0.38	ug/m3
108-88-3	92.14	Toluene	0.60 U	0.80	0.60	0.23	ppbv		2.3 U	3.0	2.3	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.080 U	0.16	0.080	0.076	ppbv		0.43 U	0.86	0.43	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	4.1	0.40	0.40	0.14	ppbv		23	2.2	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	0.40 U	0.16	0.40	0.28	ppbv		1.0 U	0.41	1.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	0.60 U	0.80	0.60	0.45	ppbv		2.1 U	2.8	2.1	1.6	ug/m3
	106.2	m,p-Xylene	0.60 U	0.80	0.60	0.56	ppbv		2.6 U	3.5	2.6	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.40 U	0.80	0.40	0.31	ppbv		1.7 U	3.5	1.7	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	76%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: 776-VMP-1_011422
Lab Sample ID: JD38291-14R
Matrix: AIR - Soil Vapor Comp. Summa ID: A454
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W47625R.D	1	01/28/22 03:19	TCH	n/a	n/a	V5W1967
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	7.3	0.80	0.60	0.58	ppbv		17	1.9	1.4	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	0.40 U	0.80	0.40	0.34	ppbv		0.88 U	1.8	0.88	0.75	ug/m3
71-43-2	78.11	Benzene	0.40 U	0.80	0.40	0.25	ppbv		1.3 U	2.6	1.3	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	0.40 U	0.40	0.40	0.12	ppbv		2.7 U	2.7	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	0.40 U	0.16	0.40	0.28	ppbv		4.1 U	1.7	4.1	2.9	ug/m3
74-83-9	94.94	Bromomethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.1	1.6	1.1	ug/m3
100-44-7	126	Benzyl Chloride	0.40 U	0.80	0.40	0.15	ppbv		2.1 U	4.1	2.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	0.40 U	0.80	0.40	0.18	ppbv		1.2 U	2.5	1.2	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	0.40 U	0.80	0.40	0.30	ppbv		1.8 U	3.7	1.8	1.4	ug/m3
75-00-3	64.52	Chloroethane	0.40 U	0.80	0.40	0.27	ppbv		1.1 U	2.1	1.1	0.71	ug/m3
67-66-3	119.4	Chloroform	0.40 U	0.80	0.40	0.15	ppbv		2.0 U	3.9	2.0	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.59	0.80	0.40	0.36	ppbv	J	1.2	1.7	0.83	0.74	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.40 U	0.16	0.40	0.16	ppbv		2.5 U	1.0	2.5	1.0	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40 U	0.80	0.40	0.23	ppbv		1.6 U	3.2	1.6	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.40 U	0.16	0.40	0.24	ppbv		1.6 U	0.63	1.6	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.60 U	0.40	0.60	0.39	ppbv		4.6 U	3.1	4.6	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.7	1.8	1.2	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.48	0.80	0.40	0.13	ppbv	J	2.4	4.0	2.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	0.40 U	0.40	0.40	0.21	ppbv		3.4 U	3.4	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.40 U	0.16	0.40	0.31	ppbv		1.6 U	0.63	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.6	1.8	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40 U	0.40	0.40	0.16	ppbv		2.4 U	2.4	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	0.70 U	0.16	0.70	0.62	ppbv		4.2 U	0.96	4.2	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	0.40 U	0.40	0.40	0.15	ppbv		2.4 U	2.4	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.60 U	0.80	0.60	0.40	ppbv		2.7 U	3.6	2.7	1.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.40 U	0.80	0.40	0.24	ppbv		1.7 U	3.5	1.7	1.0	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.60 U	0.80	0.60	0.38	ppbv		2.9 U	3.9	2.9	1.9	ug/m3
76-13-1	187.4	Freon 113	0.40 U	0.40	0.40	0.12	ppbv		3.1 U	3.1	3.1	0.92	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.40 U	0.36	0.40	0.25	ppbv		4.3 U	3.8	4.3	2.7	ug/m3
591-78-6	100	2-Hexanone	0.60 U	0.80	0.60	0.58	ppbv		2.5 U	3.3	2.5	2.4	ug/m3

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 776-VMP-1_011422
Lab Sample ID: JD38291-14R
Matrix: AIR - Soil Vapor Comp. Summa ID: A454
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.40 U	0.80	0.40	0.22	ppbv		1.4 U	2.8	1.4	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.62	0.80	0.60	0.44	ppbv	J	1.8	2.4	1.8	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40 U	0.80	0.40	0.29	ppbv		1.6 U	3.3	1.6	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.40 U	0.80	0.40	0.32	ppbv		1.4 U	2.9	1.4	1.2	ug/m3
91-20-3	128.17	Naphthalene	0.60 U	0.80	0.60	0.51	ppbv		3.1 U	4.2	3.1	2.7	ug/m3
100-42-5	104.1	Styrene	0.60 U	0.80	0.60	0.47	ppbv		2.6 U	3.4	2.6	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.40 U	0.40	0.40	0.19	ppbv		2.7 U	2.7	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.60 U	0.40	0.60	0.48	ppbv		4.5 U	3.0	4.5	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.40 U	0.80	0.40	0.35	ppbv		2.0 U	3.9	2.0	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.40 U	0.80	0.40	0.32	ppbv		2.0 U	3.9	2.0	1.6	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.10 U	0.16	0.10	0.056	ppbv		0.68 U	1.1	0.68	0.38	ug/m3
108-88-3	92.14	Toluene	0.91	0.80	0.60	0.23	ppbv		3.4	3.0	2.3	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.080 U	0.16	0.080	0.076	ppbv		0.43 U	0.86	0.43	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40 U	0.40	0.40	0.14	ppbv		2.2 U	2.2	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	0.40 U	0.16	0.40	0.28	ppbv		1.0 U	0.41	1.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	0.60 U	0.80	0.60	0.45	ppbv		2.1 U	2.8	2.1	1.6	ug/m3
	106.2	m,p-Xylene	0.60 U	0.80	0.60	0.56	ppbv		2.6 U	3.5	2.6	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.40 U	0.80	0.40	0.31	ppbv		1.7 U	3.5	1.7	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: 776-VMP-2_011422
Lab Sample ID: JD38291-15R
Matrix: AIR - Soil Vapor Comp. Summa ID: A443
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W47626R.D	1	01/28/22 04:07	TCH	n/a	n/a	V5W1967
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	12.8	0.80	0.60	0.58	ppbv		30.4	1.9	1.4	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	0.40 U	0.80	0.40	0.34	ppbv		0.88 U	1.8	0.88	0.75	ug/m3
71-43-2	78.11	Benzene	0.73	0.80	0.40	0.25	ppbv	J	2.3	2.6	1.3	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	0.40 U	0.40	0.40	0.12	ppbv		2.7 U	2.7	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	0.40 U	0.16	0.40	0.28	ppbv		4.1 U	1.7	4.1	2.9	ug/m3
74-83-9	94.94	Bromomethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.1	1.6	1.1	ug/m3
100-44-7	126	Benzyl Chloride	0.40 U	0.80	0.40	0.15	ppbv		2.1 U	4.1	2.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	0.40 U	0.80	0.40	0.18	ppbv		1.2 U	2.5	1.2	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	0.40 U	0.80	0.40	0.30	ppbv		1.8 U	3.7	1.8	1.4	ug/m3
75-00-3	64.52	Chloroethane	0.40 U	0.80	0.40	0.27	ppbv		1.1 U	2.1	1.1	0.71	ug/m3
67-66-3	119.4	Chloroform	0.40 U	0.80	0.40	0.15	ppbv		2.0 U	3.9	2.0	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.69	0.80	0.40	0.36	ppbv	J	1.4	1.7	0.83	0.74	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.40 U	0.16	0.40	0.16	ppbv		2.5 U	1.0	2.5	1.0	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40 U	0.80	0.40	0.23	ppbv		1.6 U	3.2	1.6	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.40 U	0.16	0.40	0.24	ppbv		1.6 U	0.63	1.6	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.60 U	0.40	0.60	0.39	ppbv		4.6 U	3.1	4.6	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.7	1.8	1.2	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.80	0.40	0.13	ppbv	J	2.5	4.0	2.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	0.40 U	0.40	0.40	0.21	ppbv		3.4 U	3.4	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.40 U	0.16	0.40	0.31	ppbv		1.6 U	0.63	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.6	1.8	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40 U	0.40	0.40	0.16	ppbv		2.4 U	2.4	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	0.70 U	0.16	0.70	0.62	ppbv		4.2 U	0.96	4.2	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	0.40 U	0.40	0.40	0.15	ppbv		2.4 U	2.4	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.60 U	0.80	0.60	0.40	ppbv		2.7 U	3.6	2.7	1.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.40 U	0.80	0.40	0.24	ppbv		1.7 U	3.5	1.7	1.0	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.60 U	0.80	0.60	0.38	ppbv		2.9 U	3.9	2.9	1.9	ug/m3
76-13-1	187.4	Freon 113	0.40 U	0.40	0.40	0.12	ppbv		3.1 U	3.1	3.1	0.92	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.40 U	0.36	0.40	0.25	ppbv		4.3 U	3.8	4.3	2.7	ug/m3
591-78-6	100	2-Hexanone	0.60 U	0.80	0.60	0.58	ppbv		2.5 U	3.3	2.5	2.4	ug/m3

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	776-VMP-2_011422		
Lab Sample ID:	JD38291-15R	**Date Sampled:**	01/14/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A443	**Date Received:**	01/17/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.40 U	0.80	0.40	0.22	ppbv		1.4 U	2.8	1.4	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.52	0.80	0.60	0.44	ppbv	J	1.5	2.4	1.8	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40 U	0.80	0.40	0.29	ppbv		1.6 U	3.3	1.6	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.40 U	0.80	0.40	0.32	ppbv		1.4 U	2.9	1.4	1.2	ug/m3
91-20-3	128.17	Naphthalene	0.60 U	0.80	0.60	0.51	ppbv		3.1 U	4.2	3.1	2.7	ug/m3
100-42-5	104.1	Styrene	0.60 U	0.80	0.60	0.47	ppbv		2.6 U	3.4	2.6	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.40 U	0.40	0.40	0.19	ppbv		2.7 U	2.7	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.60 U	0.40	0.60	0.48	ppbv		4.5 U	3.0	4.5	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.40 U	0.80	0.40	0.35	ppbv		2.0 U	3.9	2.0	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.40 U	0.80	0.40	0.32	ppbv		2.0 U	3.9	2.0	1.6	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.10 U	0.16	0.10	0.056	ppbv		0.68 U	1.1	0.68	0.38	ug/m3
108-88-3	92.14	Toluene	0.79	0.80	0.60	0.23	ppbv	J	3.0	3.0	2.3	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.080 U	0.16	0.080	0.076	ppbv		0.43 U	0.86	0.43	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40 U	0.40	0.40	0.14	ppbv		2.2 U	2.2	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	0.40 U	0.16	0.40	0.28	ppbv		1.0 U	0.41	1.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	0.60 U	0.80	0.60	0.45	ppbv		2.1 U	2.8	2.1	1.6	ug/m3
	106.2	m,p-Xylene	0.60 U	0.80	0.60	0.56	ppbv		2.6 U	3.5	2.6	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.40 U	0.80	0.40	0.31	ppbv		1.7 U	3.5	1.7	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: 776-VMP-3_011422
Lab Sample ID: JD38291-16R
Matrix: AIR - Soil Vapor Comp. Summa ID: A774
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W57494R.D	1	01/28/22 23:36	TCH	n/a	n/a	V2W2558
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	5.4	0.80	0.60	0.58	ppbv		13	1.9	1.4	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	0.40 U	0.80	0.40	0.34	ppbv		0.88 U	1.8	0.88	0.75	ug/m3
71-43-2	78.11	Benzene	0.40 U	0.80	0.40	0.25	ppbv		1.3 U	2.6	1.3	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	0.40 U	0.40	0.40	0.12	ppbv		2.7 U	2.7	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	0.40 U	0.16	0.40	0.28	ppbv		4.1 U	1.7	4.1	2.9	ug/m3
74-83-9	94.94	Bromomethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.1	1.6	1.1	ug/m3
100-44-7	126	Benzyl Chloride	0.40 U	0.80	0.40	0.15	ppbv		2.1 U	4.1	2.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	0.40 U	0.80	0.40	0.18	ppbv		1.2 U	2.5	1.2	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	0.40 U	0.80	0.40	0.30	ppbv		1.8 U	3.7	1.8	1.4	ug/m3
75-00-3	64.52	Chloroethane	0.40 U	0.80	0.40	0.27	ppbv		1.1 U	2.1	1.1	0.71	ug/m3
67-66-3	119.4	Chloroform	0.40 U	0.80	0.40	0.15	ppbv		2.0 U	3.9	2.0	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.76	0.80	0.40	0.36	ppbv	J	1.6	1.7	0.83	0.74	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.40 U	0.16	0.40	0.16	ppbv		2.5 U	1.0	2.5	1.0	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40 U	0.80	0.40	0.23	ppbv		1.6 U	3.2	1.6	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.40 U	0.16	0.40	0.24	ppbv		1.6 U	0.63	1.6	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.60 U	0.40	0.60	0.39	ppbv		4.6 U	3.1	4.6	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.7	1.8	1.2	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.58	0.80	0.40	0.13	ppbv	J	2.9	4.0	2.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	0.40 U	0.40	0.40	0.21	ppbv		3.4 U	3.4	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.40 U	0.16	0.40	0.31	ppbv		1.6 U	0.63	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.6	1.8	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40 U	0.40	0.40	0.16	ppbv		2.4 U	2.4	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	0.70 U	0.16	0.70	0.62	ppbv		4.2 U	0.96	4.2	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	0.40 U	0.40	0.40	0.15	ppbv		2.4 U	2.4	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.60 U	0.80	0.60	0.40	ppbv		2.7 U	3.6	2.7	1.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.40 U	0.80	0.40	0.24	ppbv		1.7 U	3.5	1.7	1.0	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.60 U	0.80	0.60	0.38	ppbv		2.9 U	3.9	2.9	1.9	ug/m3
76-13-1	187.4	Freon 113	0.40 U	0.40	0.40	0.12	ppbv		3.1 U	3.1	3.1	0.92	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.40 U	0.36	0.40	0.25	ppbv		4.3 U	3.8	4.3	2.7	ug/m3
591-78-6	100	2-Hexanone	0.60 U	0.80	0.60	0.58	ppbv		2.5 U	3.3	2.5	2.4	ug/m3

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	776-VMP-3_011422		
Lab Sample ID:	JD38291-16R	**Date Sampled:**	01/14/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A774	**Date Received:**	01/17/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.40 U	0.80	0.40	0.22	ppbv		1.4 U	2.8	1.4	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.60 U	0.80	0.60	0.44	ppbv		1.8 U	2.4	1.8	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40 U	0.80	0.40	0.29	ppbv		1.6 U	3.3	1.6	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.40 U	0.80	0.40	0.32	ppbv		1.4 U	2.9	1.4	1.2	ug/m3
91-20-3	128.17	Naphthalene	0.60 U	0.80	0.60	0.51	ppbv		3.1 U	4.2	3.1	2.7	ug/m3
100-42-5	104.1	Styrene	0.60 U	0.80	0.60	0.47	ppbv		2.6 U	3.4	2.6	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.40 U	0.40	0.40	0.19	ppbv		2.7 U	2.7	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.60 U	0.40	0.60	0.48	ppbv		4.5 U	3.0	4.5	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.40 U	0.80	0.40	0.35	ppbv		2.0 U	3.9	2.0	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.40 U	0.80	0.40	0.32	ppbv		2.0 U	3.9	2.0	1.6	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.10 U	0.16	0.10	0.056	ppbv		0.68 U	1.1	0.68	0.38	ug/m3
108-88-3	92.14	Toluene	0.60 U	0.80	0.60	0.23	ppbv		2.3 U	3.0	2.3	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.12	0.16	0.080	0.076	ppbv	J	0.64	0.86	0.43	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40 U	0.40	0.40	0.14	ppbv		2.2 U	2.2	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	0.40 U	0.16	0.40	0.28	ppbv		1.0 U	0.41	1.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	0.60 U	0.80	0.60	0.45	ppbv		2.1 U	2.8	2.1	1.6	ug/m3
	106.2	m,p-Xylene	0.60 U	0.80	0.60	0.56	ppbv		2.6 U	3.5	2.6	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.40 U	0.80	0.40	0.31	ppbv		1.7 U	3.5	1.7	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: 776-OA-1_011422
Lab Sample ID: JD38291-18R
Matrix: AIR - Ambient Air Comp. Summa ID: A183
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W57495R.D	1	01/29/22 00:18	TCH	n/a	n/a	V2W2558
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	1.8	0.20	0.15	0.15	ppbv		4.3	0.48	0.36	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	0.10 U	0.20	0.10	0.084	ppbv		0.22 U	0.44	0.22	0.19	ug/m3
71-43-2	78.11	Benzene	0.22	0.20	0.10	0.062	ppbv		0.70	0.64	0.32	0.20	ug/m3
75-27-4	163.8	Bromodichloromethane	0.10 U	0.10	0.10	0.030	ppbv		0.67 U	0.67	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	0.10 U	0.040	0.10	0.071	ppbv		1.0 U	0.41	1.0	0.73	ug/m3
74-83-9	94.94	Bromomethane	0.10 U	0.20	0.10	0.069	ppbv		0.39 U	0.78	0.39	0.27	ug/m3
100-44-7	126	Benzyl Chloride	0.10 U	0.20	0.10	0.037	ppbv		0.52 U	1.0	0.52	0.19	ug/m3
75-15-0	76.14	Carbon disulfide	0.10 U	0.20	0.10	0.045	ppbv		0.31 U	0.62	0.31	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	0.10 U	0.20	0.10	0.074	ppbv		0.46 U	0.92	0.46	0.34	ug/m3
75-00-3	64.52	Chloroethane	0.10 U	0.20	0.10	0.068	ppbv		0.26 U	0.53	0.26	0.18	ug/m3
67-66-3	119.4	Chloroform	0.10 U	0.20	0.10	0.037	ppbv		0.49 U	0.98	0.49	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.64	0.20	0.10	0.090	ppbv		1.3	0.41	0.21	0.19	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.10 U	0.040	0.10	0.040	ppbv		0.63 U	0.25	0.63	0.25	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.10 U	0.20	0.10	0.057	ppbv		0.40 U	0.81	0.40	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.10 U	0.040	0.10	0.059	ppbv		0.40 U	0.16	0.40	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.15 U	0.10	0.15	0.097	ppbv		1.2 U	0.77	1.2	0.75	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.10 U	0.20	0.10	0.070	ppbv		0.40 U	0.81	0.40	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	0.10 U	0.20	0.10	0.062	ppbv		0.46 U	0.92	0.46	0.29	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.20	0.10	0.032	ppbv		2.5	0.99	0.49	0.16	ug/m3
124-48-1	208.3	Dibromochloromethane	0.10 U	0.10	0.10	0.052	ppbv		0.85 U	0.85	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.10 U	0.20	0.10	0.069	ppbv		0.40 U	0.79	0.40	0.27	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.10 U	0.040	0.10	0.077	ppbv		0.40 U	0.16	0.40	0.31	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.10 U	0.20	0.10	0.062	ppbv		0.45 U	0.91	0.45	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	0.10 U	0.10	0.10	0.040	ppbv		0.60 U	0.60	0.60	0.24	ug/m3
95-50-1	147	o-Dichlorobenzene	0.18 U	0.040	0.18	0.15	ppbv		1.1 U	0.24	1.1	0.90	ug/m3
106-46-7	147	p-Dichlorobenzene	0.10 U	0.10	0.10	0.038	ppbv		0.60 U	0.60	0.60	0.23	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.15 U	0.20	0.15	0.10	ppbv		0.68 U	0.91	0.68	0.45	ug/m3
100-41-4	106.2	Ethylbenzene	0.10 U	0.20	0.10	0.061	ppbv		0.43 U	0.87	0.43	0.26	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.15 U	0.20	0.15	0.095	ppbv		0.74 U	0.98	0.74	0.47	ug/m3
76-13-1	187.4	Freon 113	0.10 U	0.10	0.10	0.031	ppbv		0.77 U	0.77	0.77	0.24	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.10 U	0.090	0.10	0.062	ppbv		1.1 U	0.96	1.1	0.66	ug/m3
591-78-6	100	2-Hexanone	0.15 U	0.20	0.15	0.15	ppbv		0.61 U	0.82	0.61	0.61	ug/m3

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 776-OA-1_011422
Lab Sample ID: JD38291-18R
Matrix: AIR - Ambient Air Comp. Summa ID: A183
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.21	0.20	0.10	0.056	ppbv		0.73	0.69	0.35	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.17	0.20	0.15	0.11	ppbv	J	0.50	0.59	0.44	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.10 U	0.20	0.10	0.073	ppbv		0.41 U	0.82	0.41	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.10 U	0.20	0.10	0.080	ppbv		0.36 U	0.72	0.36	0.29	ug/m3
91-20-3	128.17	Naphthalene	0.15 U	0.20	0.15	0.13	ppbv		0.79 U	1.0	0.79	0.68	ug/m3
100-42-5	104.1	Styrene	0.15 U	0.20	0.15	0.12	ppbv		0.64 U	0.85	0.64	0.51	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.10 U	0.10	0.10	0.037	ppbv		0.55 U	0.55	0.55	0.20	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.10 U	0.10	0.10	0.048	ppbv		0.69 U	0.69	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.10 U	0.10	0.10	0.038	ppbv		0.55 U	0.55	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.15 U	0.10	0.15	0.12	ppbv		1.1 U	0.74	1.1	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.10 U	0.20	0.10	0.087	ppbv		0.49 U	0.98	0.49	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.10 U	0.20	0.10	0.080	ppbv		0.49 U	0.98	0.49	0.39	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.025 U	0.040	0.025	0.014	ppbv		0.17 U	0.27	0.17	0.095	ug/m3
108-88-3	92.14	Toluene	0.18	0.20	0.15	0.057	ppbv	J	0.68	0.75	0.57	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	0.020 U	0.040	0.020	0.019	ppbv		0.11 U	0.21	0.11	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.24	0.10	0.10	0.036	ppbv		1.3	0.56	0.56	0.20	ug/m3
75-01-4	62.5	Vinyl chloride	0.10 U	0.040	0.10	0.069	ppbv		0.26 U	0.10	0.26	0.18	ug/m3
108-05-4	86	Vinyl Acetate	0.15 U	0.20	0.15	0.11	ppbv		0.53 U	0.70	0.53	0.39	ug/m3
	106.2	m,p-Xylene	0.15 U	0.20	0.15	0.14	ppbv		0.65 U	0.87	0.65	0.61	ug/m3
95-47-6	106.2	o-Xylene	0.10 U	0.20	0.10	0.077	ppbv		0.43 U	0.87	0.43	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: 776-VMP-2_011422_A
Lab Sample ID: JD38291-19R
Matrix: AIR - Soil Vapor Comp. Summa ID: A832
Method: TO-15
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W57496R.D	1	01/29/22 00:54	TCH	n/a	n/a	V2W2558
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
67-64-1	58.08	Acetone (2-Propanone)	5.8	0.80	0.60	0.58	ppbv		14	1.9	1.4	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	0.40 U	0.80	0.40	0.34	ppbv		0.88 U	1.8	0.88	0.75	ug/m3
71-43-2	78.11	Benzene	0.40 U	0.80	0.40	0.25	ppbv		1.3 U	2.6	1.3	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	0.40 U	0.40	0.40	0.12	ppbv		2.7 U	2.7	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	0.40 U	0.16	0.40	0.28	ppbv		4.1 U	1.7	4.1	2.9	ug/m3
74-83-9	94.94	Bromomethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.1	1.6	1.1	ug/m3
100-44-7	126	Benzyl Chloride	0.40 U	0.80	0.40	0.15	ppbv		2.1 U	4.1	2.1	0.77	ug/m3
75-15-0	76.14	Carbon disulfide	0.40 U	0.80	0.40	0.18	ppbv		1.2 U	2.5	1.2	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	0.40 U	0.80	0.40	0.30	ppbv		1.8 U	3.7	1.8	1.4	ug/m3
75-00-3	64.52	Chloroethane	0.40 U	0.80	0.40	0.27	ppbv		1.1 U	2.1	1.1	0.71	ug/m3
67-66-3	119.4	Chloroform	0.40 U	0.80	0.40	0.15	ppbv		2.0 U	3.9	2.0	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.75	0.80	0.40	0.36	ppbv	J	1.5	1.7	0.83	0.74	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.40 U	0.16	0.40	0.16	ppbv		2.5 U	1.0	2.5	1.0	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40 U	0.80	0.40	0.23	ppbv		1.6 U	3.2	1.6	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.40 U	0.16	0.40	0.24	ppbv		1.6 U	0.63	1.6	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	0.60 U	0.40	0.60	0.39	ppbv		4.6 U	3.1	4.6	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.7	1.8	1.2	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.56	0.80	0.40	0.13	ppbv	J	2.8	4.0	2.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	0.40 U	0.40	0.40	0.21	ppbv		3.4 U	3.4	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.40 U	0.80	0.40	0.28	ppbv		1.6 U	3.2	1.6	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.40 U	0.16	0.40	0.31	ppbv		1.6 U	0.63	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	0.40 U	0.80	0.40	0.25	ppbv		1.8 U	3.6	1.8	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	0.40 U	0.40	0.40	0.16	ppbv		2.4 U	2.4	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	0.70 U	0.16	0.70	0.62	ppbv		4.2 U	0.96	4.2	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	0.40 U	0.40	0.40	0.15	ppbv		2.4 U	2.4	2.4	0.90	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	0.60 U	0.80	0.60	0.40	ppbv		2.7 U	3.6	2.7	1.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.40 U	0.80	0.40	0.24	ppbv		1.7 U	3.5	1.7	1.0	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.60 U	0.80	0.60	0.38	ppbv		2.9 U	3.9	2.9	1.9	ug/m3
76-13-1	187.4	Freon 113	0.40 U	0.40	0.40	0.12	ppbv		3.1 U	3.1	3.1	0.92	ug/m3
87-68-3	260.8	Hexachlorobutadiene	0.40 U	0.36	0.40	0.25	ppbv		4.3 U	3.8	4.3	2.7	ug/m3
591-78-6	100	2-Hexanone	0.60 U	0.80	0.60	0.58	ppbv		2.5 U	3.3	2.5	2.4	ug/m3

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	776-VMP-2_011422_A		
Lab Sample ID:	JD38291-19R	**Date Sampled:**	01/14/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A832	**Date Received:**	01/17/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

BECOS Former Griffiss AFB, Rome, NY

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
75-09-2	84.94	Methylene chloride	0.40 U	0.80	0.40	0.22	ppbv		1.4 U	2.8	1.4	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.60 U	0.80	0.60	0.44	ppbv		1.8 U	2.4	1.8	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.40 U	0.80	0.40	0.29	ppbv		1.6 U	3.3	1.6	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.40 U	0.80	0.40	0.32	ppbv		1.4 U	2.9	1.4	1.2	ug/m3
91-20-3	128.17	Naphthalene	0.60 U	0.80	0.60	0.51	ppbv		3.1 U	4.2	3.1	2.7	ug/m3
100-42-5	104.1	Styrene	0.60 U	0.80	0.60	0.47	ppbv		2.6 U	3.4	2.6	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	0.40 U	0.40	0.40	0.19	ppbv		2.7 U	2.7	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.40 U	0.40	0.40	0.15	ppbv		2.2 U	2.2	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	0.60 U	0.40	0.60	0.48	ppbv		4.5 U	3.0	4.5	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.40 U	0.80	0.40	0.35	ppbv		2.0 U	3.9	2.0	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.40 U	0.80	0.40	0.32	ppbv		2.0 U	3.9	2.0	1.6	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.10 U	0.16	0.10	0.056	ppbv		0.68 U	1.1	0.68	0.38	ug/m3
108-88-3	92.14	Toluene	0.60 U	0.80	0.60	0.23	ppbv		2.3 U	3.0	2.3	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.080 U	0.16	0.080	0.076	ppbv		0.43 U	0.86	0.43	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.40 U	0.40	0.40	0.14	ppbv		2.2 U	2.2	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	0.40 U	0.16	0.40	0.28	ppbv		1.0 U	0.41	1.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	0.60 U	0.80	0.60	0.45	ppbv		2.1 U	2.8	2.1	1.6	ug/m3
	106.2	m,p-Xylene	0.60 U	0.80	0.60	0.56	ppbv		2.6 U	3.5	2.6	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.40 U	0.80	0.40	0.31	ppbv		1.7 U	3.5	1.7	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- Internal Chain of Custody
- QC Evaluation: DOD QSM5.x Limits
- 2018 MDL Study - Method: TO-15

AIR CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

PAGE 1 OF

AIR

FED EX Tracking # 5272 8637 | Bottle Order Control # TM14-01122-103
SGS Quote # | SGS Job # JD 38291

Client / Reporting Information

Company Name: Bhate
Address: 445 Union Blvd Ste 129
City: Lakewood | State: CO | Zip: 80226
Project Contact: Marcia Olive | E-mail: molive@bhate.com
Phone #: 303-597-2450 | Fax #:
Sampler(s) Name(s): G. Carmichael, B. Bellard

Project Information

Project Name: Griffiss - SVI
Street:
City: SAME | State:
Project #:
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: | Maximum:
Stop: | Minimum:
Atmoshpheric Pressure (inches of Hg)
Start: | Maximum:
Stop: | Minimum:
Other weather comment:

Requested Analysis

TO15 - VOCs

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor (I) Soil Vap (SV) Ambient (A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.
1	786IA-1_011322	I	A1111	6L	MC134	1/13/22	1745	-27	70		01/14/22	0817	0	68	BP
GC	786VMP-1_011322	SV	A889		FC566			-2							
2	786VMP-2_011322	SV	A667	6L	FC916	1/13/22	1750	-29		GC	01/14/22	0818	0	68	BP
3	786VMP-3_011322	SV	M253		FC421	1/13/22	1735	-28		GC	01/14/22	0813	0	68	BP
4	785/786-OA-011322	A	A889		FC566	1/13/22	1700	-28	34	BP	01/14/22	0827	0	27	BP
5	785IA-1_011322	I	A775		5C917	1/13/22	1658	-28	68°	BP	01/14/22	0839	0	68	BP
6	785VMP-2_011322	SV	A890		MC215	1/13/22	1644	-27		GC	01/14/22	0834	0	68	BP
7	785VMP-4_011322	SV	A1051		FC446	1/13/22	1704	-30		BP	01/14/22	0837	0	68	BP
8	785VMP-5_011322	SV	A864		FC484	1/13/22	1712	-26		GC	01/14/22	0842	0	68	BP
9	785VMP-2_011322-D	SV	A341		FC902	1/13/22	1644	-27		BP	01/14/22	0844	3	68	BP

SUMMA

Turnaround Time (Business days)

X Standard - 15 Days
10 Day
5 Day
3 Day
2 Day
1 Day
Other

Approved By:
Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1
Other:
DKQP reporting

Comments / Remarks

Initial Assessment: IJ 1/13
Label Verification:
Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Laboratory	Date Time:	Received By:
1		1/14/22 1100	
	Relinquished by:	Date Time:	Received By:
		1/14/22 1700	
	Relinquished by:	Date Time:	Received By:
5			

	Relinquished By:	Date Time:	Received By:
2			
	Relinquished By:	Date Time: 1/17/22 11:00	Received By:
	Custody Seal # 19198, 19200, 19194, 19196, 19202		

Form:SM088-03D (revised 2-12-18)

http://www.sgs.com/en/terms-and-conditions

AIR CHAIN OF CUSTODY

PAGE 2 OF 2

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #: | Bottle Order Control #: MM-SVI22-103
SGS Quote #: | SGS Job #:

Client / Reporting Information

Company Name: Shate
Address: 445 Union Blvd Ste. 129
City: Lakewood State: CO Zip: 80226
Project Contact: Marsia Olive E-mail: molive@shate.com
Phone #: 303-597-2455 Fax #:
Sample(s) Name(s): G. Carmichael, Brianna Pollard

Project Information

Project Name: Griffiss-SVI
Street: ← SAME →
City: State:
Project #:
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: Maximum:
Stop: Minimum:
Atmoshpheric Pressure (inches of Hg)
Start: Maximum:
Stop: Minimum:
Other weather comment:

Requested Analysis

TO15 - VOCs

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor (I) Soil Vap (SV) Ambient (A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	TO15 - VOCs
10	774VMP-1_011422	SV	A184	6L	FC277	01/14/22	0706	-29	70	BP	1/14/22	1519	0	70	BP	X
11	774VMP-2_01422	SV	A813		FC905	01/14/22	0715	-30	70	GC	1/14/22	1515	3	70	GC	
12	774VMP-3_011422	SV	A1168		FC437	01/14/22	0712	-29	70	BP	1/14/22	1517	0	70	BP	
13	774IA-1_011422	I	A898		FC346	01/14/22	0717	-28	70	GC	1/14/22	1518	3	70	BP	
14	776VMP-1_011422	SV	A454		MC055	01/14/22	0752	-29	70	BP	~~1/14/22~~	~~1551~~	0	70	BP	BP
15	776VMP-2_011422	SV	A443		FC1052	1/14/22	0743	-30	70	BP	1/14/22	1543	0	70	BP	
16	776VMP-3_011422	SV	A774		MC199	01/14/22	0758	-27	70	BP	1/14/22	1558	0	70	BP	
17	776IA-1_011422	I	A780		MC228	01/14/22	0747	-29	70	BP	1/14/22	1547	1	70	BP	
18	774/776OA_011422	A	A183		FC1006	01/14/22	0726	-29	27	BP	1/14/22	1526	0	20	BP	
19	776VMP-2_011422a	SV	A832	↓	FC131	01/14/22	0743	-30	70	BP	1/14/22	1543	0	70	BP	↓

Turnaround Time (Business days)

- [x] Standard - 15 Days
- [ ] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Other

Approved By:
Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

- Comm A
- Comm B
- Reduced T2
- Full T1
- Other:
- DKQP reporting

Comments / Remarks

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date Time:	Received By:
1		1/14/22 1100	
2			
3			
4			
5			

Custody Seal #:

Form:SM088-03D (revised 2-12-18)

http://www.sgs.com/en/terms-and-conditions

SGS

AIR SAMPLING EQUIPMENT RETURN FORM

CLIENT: Shaw

PROJECT: Guthrie - SVE

CONTRACT# AM-01722-100

JOB # JD38291

ADDITIONAL SUMMA CANISTERS

20 M243

21 T- Splitter

22 T- Splitter

ADDITIONAL CONTROLLERS

FC101

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:
1 Fedex	11.00	2 Jesmir Pua	
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:
3		4	
CUSTODY SEAL #'S:		# OF BOXES OR PIECES IN DELIVERY	

NOTES:

SM086-03
Pub date: 3/12/18

5.1 5

SGS Sample Receipt Summary

Job Number: JD38291 **Client:** BHATE ENVIRONMENTAL ASSOCIATES, **Project:** GAFB, SUBSLAB AND OUTDOOR

Date / Time Received: 1/17/2022 11:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control _Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Job Change Order: JD38291

Requested Date:	2/15/2022	**Received Date:**	1/17/2022
Account Name:	Bhate Environmental Associates, I	**Due Date:**	2/15/2022
Project Description:	BECOS Former Griffiss AFB, Rome, NY	**Deliverable:**	FULT1
C/O Initiated By:	MARIE.MEID **PM:** MM	**TAT (Days):**	2

==========

Sample #: JD38291-2-4,6-12,14-16,18-19
Dept:
TAT: 2

Change:
Relog/retrieve/revise the analyte list to VRTO15SL and VMS+NAP

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Sample #: JD38291-1,5,13,17
Dept:
TAT: 2

Change:
Revise TO-15 SIM list to include cis-1,2-DCE and to report only Benzer CTC, 1,1-DCE, 1,1,2-TCA, PCE, TCE, and VC

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Above Changes Per: M. Olive **Date/Time:** 2/15/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD38291R: Chain of Custody
Page 5 of 5

Summa Canister and Flow Controller Log

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Received: 01/17/22

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A667	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-2	01/19/22	SG	0			1
M253	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-3	01/19/22	SG	0			1
A889	6	29.4	01/11/22	WC	CP11487	2W56908.D	JD38291-4	01/19/22	SG		.4		1
A890	6	29.4	01/11/22	WC	CP11486	2W56955.D	JD38291-6	01/19/22	SG	0			1
A1051	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-7	01/26/22	SG	0			1
A864	6	29.4	01/11/22	WC	CP11486	2W56955.D	JD38291-8	01/19/22	SG	0			1
A341	6	29.4	01/11/22	WC	CP11487	2W56908.D	JD38291-9	01/19/22	SG	.1			1
A184	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-10	01/21/22	MJ	1.5			1
A813	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-11	01/19/22	SG	3			1
A1168	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-12	01/19/22	SG	3.5			1
A454	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-14	01/21/22	MJ	1			1
A443	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-15	01/26/22	SG	1			1
A774	6	29.4	01/11/22	WC	CP11485	2W56868.D	JD38291-16	01/19/22	SG	0			1
A183	6	29.4	01/11/22	WC	CP11486	2W56955.D	JD38291-18	01/21/22	MJ		.6		1
A832	6	29.4	01/11/22	WC	CP11487	2W56908.D	JD38291-19	01/21/22	MJ	1.5			1

SGS Bottle Order(s):
MM-01722-103

Prep Date	Room Temp(F)	Bar Pres "Hg
01/11/22	70	29.92

Internal Sample Tracking Chronicle

Bhate Environmental Associates, Inc.

Job No: JD38291R

BECOS Former Griffiss AFB, Rome, NY

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD38291-2R	Collected: 14-JAN-22 08:18 By: GC 786-VMP-2_011422			Received: 17-JAN-22	By: JP	
JD38291-2R	TO-15	27-JAN-22 19:09	TCH			VRTO15SL
JD38291-3R	Collected: 14-JAN-22 08:13 By: GC 786-VMP-3_011422			Received: 17-JAN-22	By: JP	
JD38291-3R	TO-15	27-JAN-22 20:46	TCH			VRTO15SL
JD38291-4R	Collected: 14-JAN-22 08:27 By: GC 785-OA-1_011422			Received: 17-JAN-22	By: JP	
JD38291-4R	TO-15	28-JAN-22 23:00	TCH			VRTO15SL
JD38291-6R	Collected: 14-JAN-22 08:34 By: GC 785-VMP-2_011422			Received: 17-JAN-22	By: JP	
JD38291-6R	TO-15	27-JAN-22 21:35	TCH			VRTO15SL
JD38291-7R	Collected: 14-JAN-22 08:37 By: GC 785-VMP-4_011422			Received: 17-JAN-22	By: JP	
JD38291-7R	TO-15	27-JAN-22 22:24	TCH			VRTO15SL
JD38291-8R	Collected: 14-JAN-22 08:42 By: GC 785-VMP-5_011422			Received: 17-JAN-22	By: JP	
JD38291-8R	TO-15	27-JAN-22 23:13	TCH			VRTO15SL
JD38291-9R	Collected: 14-JAN-22 08:34 By: GC 785-VMP-2_011422-A			Received: 17-JAN-22	By: JP	
JD38291-9R	TO-15	28-JAN-22 00:02	TCH			VRTO15SL
JD38291-10R	Collected: 14-JAN-22 15:19 By: GC 774-VMP-1_011422			Received: 17-JAN-22	By: JP	
JD38291-10R	TO-15	28-JAN-22 00:52	TCH			VRTO15SL

Internal Sample Tracking Chronicle

Bhate Environmental Associates, Inc.

Job No: JD38291R

BECOS Former Griffiss AFB, Rome, NY

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD38291-11R	Collected: 14-JAN-22 15:15 By: GC 774-VMP-2_011422			Received: 17-JAN-22	By: JP	
JD38291-11R	TO-15	28-JAN-22 01:41	TCH			VRTO15SL
JD38291-12R	Collected: 14-JAN-22 15:17 By: GC 774-VMP-3_011422			Received: 17-JAN-22	By: JP	
JD38291-12R	TO-15	28-JAN-22 02:29	TCH			VRTO15SL
JD38291-14R	Collected: 14-JAN-22 15:52 By: GC 776-VMP-1_011422			Received: 17-JAN-22	By: JP	
JD38291-14R	TO-15	28-JAN-22 03:19	TCH			VRTO15SL
JD38291-15R	Collected: 14-JAN-22 15:43 By: GC 776-VMP-2_011422			Received: 17-JAN-22	By: JP	
JD38291-15R	TO-15	28-JAN-22 04:07	TCH			VRTO15SL
JD38291-16R	Collected: 14-JAN-22 15:58 By: GC 776-VMP-3_011422			Received: 17-JAN-22	By: JP	
JD38291-16R	TO-15	28-JAN-22 23:36	TCH			VRTO15SL
JD38291-18R	Collected: 14-JAN-22 15:26 By: GC 774-OA-1_011422			Received: 17-JAN-22	By: JP	
JD38291-18R	TO-15	29-JAN-22 00:18	TCH			VRTO15SL
JD38291-19R	Collected: 14-JAN-22 15:43 By: GC 776-VMP-2_011422_A			Received: 17-JAN-22	By: JP	
JD38291-19R	TO-15	29-JAN-22 00:54	TCH			VRTO15SL

SGS Internal Chain of Custody

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Received: 01/17/22

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD38291-2.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-2.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-3.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-3.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-4.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-4.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-6.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-6.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-7.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-7.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-8.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-8.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-9.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-9.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-10.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-10.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-11.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-11.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-12.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-12.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-14.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-14.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage

SGS Internal Chain of Custody

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Received: 01/17/22

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD38291-15.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-15.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-16.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-16.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-18.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-18.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-19.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-19.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage

QC Evaluation: DOD QSM5.x Limits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V2W2558	TO-15						
V2W2558-BS	67-64-1	Acetone (2-Propanone)	BSP	REC	95	%	58-128
V2W2558-BS	106-99-0	1,3-Butadiene	BSP	REC	96	%	66-134
V2W2558-BS	71-43-2	Benzene	BSP	REC	90	%	69-119
V2W2558-BS	75-27-4	Bromodichloromethane	BSP	REC	92	%	72-128
V2W2558-BS	75-25-2	Bromoform	BSP	REC	93	%	66-139
V2W2558-BS	74-83-9	Bromomethane	BSP	REC	90	%	63-134
V2W2558-BS	100-44-7	Benzyl Chloride	BSP	REC	108	%	50-147
V2W2558-BS	75-15-0	Carbon disulfide	BSP	REC	107	%	57-134
V2W2558-BS	108-90-7	Chlorobenzene	BSP	REC	89	%	70-119
V2W2558-BS	75-00-3	Chloroethane	BSP	REC	95	%	63-127
V2W2558-BS	67-66-3	Chloroform	BSP	REC	93	%	68-123
V2W2558-BS	74-87-3	Chloromethane	BSP	REC	103	%	59-132
V2W2558-BS	56-23-5	Carbon tetrachloride	BSP	REC	94	%	68-132
V2W2558-BS	75-34-3	1,1-Dichloroethane	BSP	REC	92	%	68-126
V2W2558-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	101	%	61-133
V2W2558-BS	106-93-4	1,2-Dibromoethane (EDB)	BSP	REC	92	%	74-122
V2W2558-BS	107-06-2	1,2-Dichloroethane	BSP	REC	97	%	65-128
V2W2558-BS	78-87-5	1,2-Dichloropropane	BSP	REC	89	%	69-123
V2W2558-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	111	%	59-128
V2W2558-BS	124-48-1	Dibromochloromethane	BSP	REC	92	%	70-130
V2W2558-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	87	%	67-124
V2W2558-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	90	%	70-121
V2W2558-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	98	%	70-128
V2W2558-BS	541-73-1	m-Dichlorobenzene	BSP	REC	98	%	65-130
V2W2558-BS	95-50-1	o-Dichlorobenzene	BSP	REC	101	%	63-129
V2W2558-BS	106-46-7	p-Dichlorobenzene	BSP	REC	100	%	60-131
V2W2558-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	100	%	75-133
V2W2558-BS	100-41-4	Ethylbenzene	BSP	REC	96	%	70-124
V2W2558-BS	622-96-8	4-Ethyltoluene	BSP	REC	104	%	67-129
V2W2558-BS	76-13-1	Freon 113	BSP	REC	95	%	66-126
V2W2558-BS	87-68-3	Hexachlorobutadiene	BSP	REC	104	%	56-138
V2W2558-BS	591-78-6	2-Hexanone	BSP	REC	103	%	62-128
V2W2558-BS	75-09-2	Methylene chloride	BSP	REC	87	%	62-115
V2W2558-BS	78-93-3	Methyl ethyl ketone	BSP	REC	92	%	67-130
V2W2558-BS	108-10-1	Methyl Isobutyl Ketone	BSP	REC	103	%	67-130
V2W2558-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	111	%	66-126
V2W2558-BS	91-20-3	Naphthalene	BSP	REC	112	%	57-138
V2W2558-BS	100-42-5	Styrene	BSP	REC	102	%	73-127
V2W2558-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	96	%	68-125
V2W2558-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	98	%	65-127
V2W2558-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	91	%	73-119
V2W2558-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	109	%	55-142

* Sample used for QC is not from job JD38291R

QC Evaluation: DOD QSM5.x Limits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V2W2558-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	106	%	66-132
V2W2558-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	103	%	67-130
V2W2558-BS	127-18-4	Tetrachloroethylene	BSP	REC	89	%	66-124
V2W2558-BS	108-88-3	Toluene	BSP	REC	90	%	66-119
V2W2558-BS	79-01-6	Trichloroethylene	BSP	REC	89	%	71-123
V2W2558-BS	75-69-4	Trichlorofluoromethane	BSP	REC	94	%	62-126
V2W2558-BS	75-01-4	Vinyl chloride	BSP	REC	94	%	64-127
V2W2558-BS	108-05-4	Vinyl Acetate	BSP	REC	87	%	56-139
V2W2558-BS		m,p-Xylene	BSP	REC	96	%	61-134
V2W2558-BS	95-47-6	o-Xylene	BSP	REC	97	%	67-125
V2W2558-BSD	67-64-1	Acetone (2-Propanone)	BSD	REC	94	%	58-128
V2W2558-BSD	106-99-0	1,3-Butadiene	BSD	REC	98	%	66-134
V2W2558-BSD	71-43-2	Benzene	BSD	REC	91	%	69-119
V2W2558-BSD	75-27-4	Bromodichloromethane	BSD	REC	91	%	72-128
V2W2558-BSD	75-25-2	Bromoform	BSD	REC	92	%	66-139
V2W2558-BSD	74-83-9	Bromomethane	BSD	REC	91	%	63-134
V2W2558-BSD	100-44-7	Benzyl Chloride	BSD	REC	106	%	50-147
V2W2558-BSD	75-15-0	Carbon disulfide	BSD	REC	107	%	57-134
V2W2558-BSD	108-90-7	Chlorobenzene	BSD	REC	88	%	70-119
V2W2558-BSD	75-00-3	Chloroethane	BSD	REC	95	%	63-127
V2W2558-BSD	67-66-3	Chloroform	BSD	REC	94	%	68-123
V2W2558-BSD	74-87-3	Chloromethane	BSD	REC	104	%	59-132
V2W2558-BSD	56-23-5	Carbon tetrachloride	BSD	REC	94	%	68-132
V2W2558-BSD	75-34-3	1,1-Dichloroethane	BSD	REC	93	%	68-126
V2W2558-BSD	75-35-4	1,1-Dichloroethylene	BSD	REC	101	%	61-133
V2W2558-BSD	106-93-4	1,2-Dibromoethane (EDB)	BSD	REC	91	%	74-122
V2W2558-BSD	107-06-2	1,2-Dichloroethane	BSD	REC	98	%	65-128
V2W2558-BSD	78-87-5	1,2-Dichloropropane	BSD	REC	90	%	69-123
V2W2558-BSD	75-71-8	Dichlorodifluoromethane	BSD	REC	111	%	59-128
V2W2558-BSD	124-48-1	Dibromochloromethane	BSD	REC	91	%	70-130
V2W2558-BSD	156-60-5	trans-1,2-Dichloroethylene	BSD	REC	87	%	67-124
V2W2558-BSD	156-59-2	cis-1,2-Dichloroethylene	BSD	REC	91	%	70-121
V2W2558-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	REC	98	%	70-128
V2W2558-BSD	541-73-1	m-Dichlorobenzene	BSD	REC	97	%	65-130
V2W2558-BSD	95-50-1	o-Dichlorobenzene	BSD	REC	99	%	63-129
V2W2558-BSD	106-46-7	p-Dichlorobenzene	BSD	REC	100	%	60-131
V2W2558-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	REC	100	%	75-133
V2W2558-BSD	100-41-4	Ethylbenzene	BSD	REC	95	%	70-124
V2W2558-BSD	622-96-8	4-Ethyltoluene	BSD	REC	104	%	67-129
V2W2558-BSD	76-13-1	Freon 113	BSD	REC	95	%	66-126
V2W2558-BSD	87-68-3	Hexachlorobutadiene	BSD	REC	103	%	56-138
V2W2558-BSD	591-78-6	2-Hexanone	BSD	REC	103	%	62-128
V2W2558-BSD	75-09-2	Methylene chloride	BSD	REC	88	%	62-115
V2W2558-BSD	78-93-3	Methyl ethyl ketone	BSD	REC	93	%	67-130
V2W2558-BSD	108-10-1	Methyl Isobutyl Ketone	BSD	REC	104	%	67-130

* Sample used for QC is not from job JD38291R

QC Evaluation: DOD QSM5.x Limits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V2W2558-BSD	1634-04-4	Methyl Tert Butyl Ether	BSD	REC	114	%	66-126
V2W2558-BSD	91-20-3	Naphthalene	BSD	REC	112	%	57-138
V2W2558-BSD	100-42-5	Styrene	BSD	REC	101	%	73-127
V2W2558-BSD	71-55-6	1,1,1-Trichloroethane	BSD	REC	96	%	68-125
V2W2558-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	REC	97	%	65-127
V2W2558-BSD	79-00-5	1,1,2-Trichloroethane	BSD	REC	90	%	73-119
V2W2558-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	REC	110	%	55-142
V2W2558-BSD	95-63-6	1,2,4-Trimethylbenzene	BSD	REC	105	%	66-132
V2W2558-BSD	108-67-8	1,3,5-Trimethylbenzene	BSD	REC	102	%	67-130
V2W2558-BSD	127-18-4	Tetrachloroethylene	BSD	REC	90	%	66-124
V2W2558-BSD	108-88-3	Toluene	BSD	REC	91	%	66-119
V2W2558-BSD	79-01-6	Trichloroethylene	BSD	REC	88	%	71-123
V2W2558-BSD	75-69-4	Trichlorofluoromethane	BSD	REC	95	%	62-126
V2W2558-BSD	75-01-4	Vinyl chloride	BSD	REC	95	%	64-127
V2W2558-BSD	108-05-4	Vinyl Acetate	BSD	REC	90	%	56-139
V2W2558-BSD		m,p-Xylene	BSD	REC	95	%	61-134
V2W2558-BSD	95-47-6	o-Xylene	BSD	REC	96	%	67-125
JD38683-5DUP*	67-64-1	Acetone (2-Propanone)	DUP	RPD	7	%	20
JD38683-5DUP*	106-99-0	1,3-Butadiene	DUP	RPD	0	%	20
JD38683-5DUP*	71-43-2	Benzene	DUP	RPD	4	%	20
JD38683-5DUP*	75-27-4	Bromodichloromethane	DUP	RPD	0	%	20
JD38683-5DUP*	75-25-2	Bromoform	DUP	RPD	0	%	20
JD38683-5DUP*	74-83-9	Bromomethane	DUP	RPD	0	%	20
JD38683-5DUP*	100-44-7	Benzyl Chloride	DUP	RPD	0	%	20
JD38683-5DUP*	75-15-0	Carbon disulfide	DUP	RPD	0	%	20
JD38683-5DUP*	108-90-7	Chlorobenzene	DUP	RPD	0	%	20
JD38683-5DUP*	75-00-3	Chloroethane	DUP	RPD	0	%	20
JD38683-5DUP*	67-66-3	Chloroform	DUP	RPD	0	%	20
JD38683-5DUP*	74-87-3	Chloromethane	DUP	RPD	8	%	20
JD38683-5DUP*	56-23-5	Carbon tetrachloride	DUP	RPD	10	%	20
JD38683-5DUP*	75-34-3	1,1-Dichloroethane	DUP	RPD	0	%	20
JD38683-5DUP*	75-35-4	1,1-Dichloroethylene	DUP	RPD	0	%	20
JD38683-5DUP*	106-93-4	1,2-Dibromoethane (EDB)	DUP	RPD	0	%	20
JD38683-5DUP*	107-06-2	1,2-Dichloroethane	DUP	RPD	0	%	20
JD38683-5DUP*	78-87-5	1,2-Dichloropropane	DUP	RPD	0	%	20
JD38683-5DUP*	75-71-8	Dichlorodifluoromethane	DUP	RPD	2	%	20
JD38683-5DUP*	124-48-1	Dibromochloromethane	DUP	RPD	0	%	20
JD38683-5DUP*	156-60-5	trans-1,2-Dichloroethylene	DUP	RPD	0	%	20
JD38683-5DUP*	156-59-2	cis-1,2-Dichloroethylene	DUP	RPD	7	%	20
JD38683-5DUP*	10061-01-5	cis-1,3-Dichloropropene	DUP	RPD	0	%	20
JD38683-5DUP*	541-73-1	m-Dichlorobenzene	DUP	RPD	0	%	20
JD38683-5DUP*	95-50-1	o-Dichlorobenzene	DUP	RPD	0	%	20
JD38683-5DUP*	106-46-7	p-Dichlorobenzene	DUP	RPD	0	%	20
JD38683-5DUP*	10061-02-6	trans-1,3-Dichloropropene	DUP	RPD	0	%	20
JD38683-5DUP*	100-41-4	Ethylbenzene	DUP	RPD	0	%	20

* Sample used for QC is not from job JD38291R

QC Evaluation: DOD QSM5.x Limits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD38683-5DUP*	622-96-8	4-Ethyltoluene	DUP	RPD	0	%	20
JD38683-5DUP*	76-13-1	Freon 113	DUP	RPD	0	%	20
JD38683-5DUP*	87-68-3	Hexachlorobutadiene	DUP	RPD	0	%	20
JD38683-5DUP*	591-78-6	2-Hexanone	DUP	RPD	0	%	20
JD38683-5DUP*	75-09-2	Methylene chloride	DUP	RPD	45 [a]	%	20
JD38683-5DUP*	78-93-3	Methyl ethyl ketone	DUP	RPD	2	%	20
JD38683-5DUP*	108-10-1	Methyl Isobutyl Ketone	DUP	RPD	0	%	20
JD38683-5DUP*	1634-04-4	Methyl Tert Butyl Ether	DUP	RPD	0	%	20
JD38683-5DUP*	91-20-3	Naphthalene	DUP	RPD	0	%	20
JD38683-5DUP*	100-42-5	Styrene	DUP	RPD	0	%	20
JD38683-5DUP*	71-55-6	1,1,1-Trichloroethane	DUP	RPD	0	%	20
JD38683-5DUP*	79-34-5	1,1,2,2-Tetrachloroethane	DUP	RPD	0	%	20
JD38683-5DUP*	79-00-5	1,1,2-Trichloroethane	DUP	RPD	0	%	20
JD38683-5DUP*	120-82-1	1,2,4-Trichlorobenzene	DUP	RPD	0	%	20
JD38683-5DUP*	95-63-6	1,2,4-Trimethylbenzene	DUP	RPD	0	%	20
JD38683-5DUP*	108-67-8	1,3,5-Trimethylbenzene	DUP	RPD	0	%	20
JD38683-5DUP*	127-18-4	Tetrachloroethylene	DUP	RPD	12	%	20
JD38683-5DUP*	108-88-3	Toluene	DUP	RPD	0	%	20
JD38683-5DUP*	79-01-6	Trichloroethylene	DUP	RPD	0	%	20
JD38683-5DUP*	75-69-4	Trichlorofluoromethane	DUP	RPD	7	%	20
JD38683-5DUP*	75-01-4	Vinyl chloride	DUP	RPD	0	%	20
JD38683-5DUP*	108-05-4	Vinyl Acetate	DUP	RPD	0	%	20
JD38683-5DUP*		m,p-Xylene	DUP	RPD	0	%	20
JD38683-5DUP*	95-47-6	o-Xylene	DUP	RPD	0	%	20
V5W1967	TO-15						
V5W1967-BS	67-64-1	Acetone (2-Propanone)	BSP	REC	100	%	58-128
V5W1967-BS	106-99-0	1,3-Butadiene	BSP	REC	108	%	66-134
V5W1967-BS	71-43-2	Benzene	BSP	REC	95	%	69-119
V5W1967-BS	75-27-4	Bromodichloromethane	BSP	REC	102	%	72-128
V5W1967-BS	75-25-2	Bromoform	BSP	REC	109	%	66-139
V5W1967-BS	74-83-9	Bromomethane	BSP	REC	93	%	63-134
V5W1967-BS	100-44-7	Benzyl Chloride	BSP	REC	126	%	50-147
V5W1967-BS	75-15-0	Carbon disulfide	BSP	REC	102	%	57-134
V5W1967-BS	108-90-7	Chlorobenzene	BSP	REC	101	%	70-119
V5W1967-BS	75-00-3	Chloroethane	BSP	REC	105	%	63-127
V5W1967-BS	67-66-3	Chloroform	BSP	REC	100	%	68-123
V5W1967-BS	74-87-3	Chloromethane	BSP	REC	110	%	59-132
V5W1967-BS	56-23-5	Carbon tetrachloride	BSP	REC	105	%	68-132
V5W1967-BS	75-34-3	1,1-Dichloroethane	BSP	REC	101	%	68-126
V5W1967-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	103	%	61-133
V5W1967-BS	106-93-4	1,2-Dibromoethane (EDB)	BSP	REC	104	%	74-122
V5W1967-BS	107-06-2	1,2-Dichloroethane	BSP	REC	100	%	65-128
V5W1967-BS	78-87-5	1,2-Dichloropropane	BSP	REC	102	%	69-123

* Sample used for QC is not from job JD38291R

QC Evaluation: DOD QSM5.x Limits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V5W1967-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	110	%	59-128
V5W1967-BS	124-48-1	Dibromochloromethane	BSP	REC	107	%	70-130
V5W1967-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	102	%	67-124
V5W1967-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	101	%	70-121
V5W1967-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	99	%	70-128
V5W1967-BS	541-73-1	m-Dichlorobenzene	BSP	REC	116	%	65-130
V5W1967-BS	95-50-1	o-Dichlorobenzene	BSP	REC	120	%	63-129
V5W1967-BS	106-46-7	p-Dichlorobenzene	BSP	REC	117	%	60-131
V5W1967-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	96	%	75-133
V5W1967-BS	100-41-4	Ethylbenzene	BSP	REC	101	%	70-124
V5W1967-BS	622-96-8	4-Ethyltoluene	BSP	REC	111	%	67-129
V5W1967-BS	76-13-1	Freon 113	BSP	REC	103	%	66-126
V5W1967-BS	87-68-3	Hexachlorobutadiene	BSP	REC	101	%	56-138
V5W1967-BS	591-78-6	2-Hexanone	BSP	REC	105	%	62-128
V5W1967-BS	75-09-2	Methylene chloride	BSP	REC	96	%	62-115
V5W1967-BS	78-93-3	Methyl ethyl ketone	BSP	REC	110	%	67-130
V5W1967-BS	108-10-1	Methyl Isobutyl Ketone	BSP	REC	111	%	67-130
V5W1967-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	97	%	66-126
V5W1967-BS	91-20-3	Naphthalene	BSP	REC	108	%	57-138
V5W1967-BS	100-42-5	Styrene	BSP	REC	112	%	73-127
V5W1967-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	99	%	68-125
V5W1967-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	102	%	65-127
V5W1967-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	104	%	73-119
V5W1967-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	117	%	55-142
V5W1967-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	111	%	66-132
V5W1967-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	107	%	67-130
V5W1967-BS	127-18-4	Tetrachloroethylene	BSP	REC	105	%	66-124
V5W1967-BS	108-88-3	Toluene	BSP	REC	102	%	66-119
V5W1967-BS	79-01-6	Trichloroethylene	BSP	REC	101	%	71-123
V5W1967-BS	75-69-4	Trichlorofluoromethane	BSP	REC	102	%	62-126
V5W1967-BS	75-01-4	Vinyl chloride	BSP	REC	112	%	64-127
V5W1967-BS	108-05-4	Vinyl Acetate	BSP	REC	99	%	56-139
V5W1967-BS		m,p-Xylene	BSP	REC	105	%	61-134
V5W1967-BS	95-47-6	o-Xylene	BSP	REC	104	%	67-125
V5W1967-BSD	67-64-1	Acetone (2-Propanone)	BSD	REC	100	%	58-128
V5W1967-BSD	106-99-0	1,3-Butadiene	BSD	REC	105	%	66-134
V5W1967-BSD	71-43-2	Benzene	BSD	REC	94	%	69-119
V5W1967-BSD	75-27-4	Bromodichloromethane	BSD	REC	100	%	72-128
V5W1967-BSD	75-25-2	Bromoform	BSD	REC	107	%	66-139
V5W1967-BSD	74-83-9	Bromomethane	BSD	REC	91	%	63-134
V5W1967-BSD	100-44-7	Benzyl Chloride	BSD	REC	126	%	50-147
V5W1967-BSD	75-15-0	Carbon disulfide	BSD	REC	101	%	57-134
V5W1967-BSD	108-90-7	Chlorobenzene	BSD	REC	99	%	70-119
V5W1967-BSD	75-00-3	Chloroethane	BSD	REC	103	%	63-127
V5W1967-BSD	67-66-3	Chloroform	BSD	REC	99	%	68-123

* Sample used for QC is not from job JD38291R

QC Evaluation: DOD QSM5.x Limits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V5W1967-BSD	74-87-3	Chloromethane	BSD	REC	109	%	59-132
V5W1967-BSD	56-23-5	Carbon tetrachloride	BSD	REC	102	%	68-132
V5W1967-BSD	75-34-3	1,1-Dichloroethane	BSD	REC	99	%	68-126
V5W1967-BSD	75-35-4	1,1-Dichloroethylene	BSD	REC	102	%	61-133
V5W1967-BSD	106-93-4	1,2-Dibromoethane (EDB)	BSD	REC	100	%	74-122
V5W1967-BSD	107-06-2	1,2-Dichloroethane	BSD	REC	98	%	65-128
V5W1967-BSD	78-87-5	1,2-Dichloropropane	BSD	REC	99	%	69-123
V5W1967-BSD	75-71-8	Dichlorodifluoromethane	BSD	REC	109	%	59-128
V5W1967-BSD	124-48-1	Dibromochloromethane	BSD	REC	104	%	70-130
V5W1967-BSD	156-60-5	trans-1,2-Dichloroethylene	BSD	REC	101	%	67-124
V5W1967-BSD	156-59-2	cis-1,2-Dichloroethylene	BSD	REC	99	%	70-121
V5W1967-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	REC	96	%	70-128
V5W1967-BSD	541-73-1	m-Dichlorobenzene	BSD	REC	114	%	65-130
V5W1967-BSD	95-50-1	o-Dichlorobenzene	BSD	REC	118	%	63-129
V5W1967-BSD	106-46-7	p-Dichlorobenzene	BSD	REC	117	%	60-131
V5W1967-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	REC	94	%	75-133
V5W1967-BSD	100-41-4	Ethylbenzene	BSD	REC	99	%	70-124
V5W1967-BSD	622-96-8	4-Ethyltoluene	BSD	REC	110	%	67-129
V5W1967-BSD	76-13-1	Freon 113	BSD	REC	101	%	66-126
V5W1967-BSD	87-68-3	Hexachlorobutadiene	BSD	REC	99	%	56-138
V5W1967-BSD	591-78-6	2-Hexanone	BSD	REC	101	%	62-128
V5W1967-BSD	75-09-2	Methylene chloride	BSD	REC	94	%	62-115
V5W1967-BSD	78-93-3	Methyl ethyl ketone	BSD	REC	106	%	67-130
V5W1967-BSD	108-10-1	Methyl Isobutyl Ketone	BSD	REC	107	%	67-130
V5W1967-BSD	1634-04-4	Methyl Tert Butyl Ether	BSD	REC	96	%	66-126
V5W1967-BSD	91-20-3	Naphthalene	BSD	REC	106	%	57-138
V5W1967-BSD	100-42-5	Styrene	BSD	REC	111	%	73-127
V5W1967-BSD	71-55-6	1,1,1-Trichloroethane	BSD	REC	96	%	68-125
V5W1967-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	REC	100	%	65-127
V5W1967-BSD	79-00-5	1,1,2-Trichloroethane	BSD	REC	101	%	73-119
V5W1967-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	REC	115	%	55-142
V5W1967-BSD	95-63-6	1,2,4-Trimethylbenzene	BSD	REC	109	%	66-132
V5W1967-BSD	108-67-8	1,3,5-Trimethylbenzene	BSD	REC	106	%	67-130
V5W1967-BSD	127-18-4	Tetrachloroethylene	BSD	REC	102	%	66-124
V5W1967-BSD	108-88-3	Toluene	BSD	REC	99	%	66-119
V5W1967-BSD	79-01-6	Trichloroethylene	BSD	REC	98	%	71-123
V5W1967-BSD	75-69-4	Trichlorofluoromethane	BSD	REC	100	%	62-126
V5W1967-BSD	75-01-4	Vinyl chloride	BSD	REC	109	%	64-127
V5W1967-BSD	108-05-4	Vinyl Acetate	BSD	REC	96	%	56-139
V5W1967-BSD		m,p-Xylene	BSD	REC	102	%	61-134
V5W1967-BSD	95-47-6	o-Xylene	BSD	REC	101	%	67-125
JD38291-2DUP*	67-64-1	Acetone (2-Propanone)	DUP	RPD	0	%	20
JD38291-2DUP*	106-99-0	1,3-Butadiene	DUP	RPD	0	%	20
JD38291-2DUP*	71-43-2	Benzene	DUP	RPD	0	%	20
JD38291-2DUP*	75-27-4	Bromodichloromethane	DUP	RPD	0	%	20

* Sample used for QC is not from job JD38291R

QC Evaluation: DOD QSM5.x Limits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD38291-2DUP*	75-25-2	Bromoform	DUP	RPD	0	%	20
JD38291-2DUP*	74-83-9	Bromomethane	DUP	RPD	0	%	20
JD38291-2DUP*	100-44-7	Benzyl Chloride	DUP	RPD	0	%	20
JD38291-2DUP*	75-15-0	Carbon disulfide	DUP	RPD	0	%	20
JD38291-2DUP*	108-90-7	Chlorobenzene	DUP	RPD	0	%	20
JD38291-2DUP*	75-00-3	Chloroethane	DUP	RPD	0	%	20
JD38291-2DUP*	67-66-3	Chloroform	DUP	RPD	0	%	20
JD38291-2DUP*	74-87-3	Chloromethane	DUP	RPD	3	%	20
JD38291-2DUP*	56-23-5	Carbon tetrachloride	DUP	RPD	0	%	20
JD38291-2DUP*	75-34-3	1,1-Dichloroethane	DUP	RPD	0	%	20
JD38291-2DUP*	75-35-4	1,1-Dichloroethylene	DUP	RPD	0	%	20
JD38291-2DUP*	106-93-4	1,2-Dibromoethane (EDB)	DUP	RPD	0	%	20
JD38291-2DUP*	107-06-2	1,2-Dichloroethane	DUP	RPD	0	%	20
JD38291-2DUP*	78-87-5	1,2-Dichloropropane	DUP	RPD	0	%	20
JD38291-2DUP*	75-71-8	Dichlorodifluoromethane	DUP	RPD	0	%	20
JD38291-2DUP*	124-48-1	Dibromochloromethane	DUP	RPD	0	%	20
JD38291-2DUP*	156-60-5	trans-1,2-Dichloroethylene	DUP	RPD	0	%	20
JD38291-2DUP*	156-59-2	cis-1,2-Dichloroethylene	DUP	RPD	0	%	20
JD38291-2DUP*	10061-01-5	cis-1,3-Dichloropropene	DUP	RPD	0	%	20
JD38291-2DUP*	541-73-1	m-Dichlorobenzene	DUP	RPD	0	%	20
JD38291-2DUP*	95-50-1	o-Dichlorobenzene	DUP	RPD	0	%	20
JD38291-2DUP*	106-46-7	p-Dichlorobenzene	DUP	RPD	0	%	20
JD38291-2DUP*	10061-02-6	trans-1,3-Dichloropropene	DUP	RPD	0	%	20
JD38291-2DUP*	100-41-4	Ethylbenzene	DUP	RPD	5	%	20
JD38291-2DUP*	622-96-8	4-Ethyltoluene	DUP	RPD	0	%	20
JD38291-2DUP*	76-13-1	Freon 113	DUP	RPD	0	%	20
JD38291-2DUP*	87-68-3	Hexachlorobutadiene	DUP	RPD	0	%	20
JD38291-2DUP*	591-78-6	2-Hexanone	DUP	RPD	0	%	20
JD38291-2DUP*	75-09-2	Methylene chloride	DUP	RPD	0	%	20
JD38291-2DUP*	78-93-3	Methyl ethyl ketone	DUP	RPD	0	%	20
JD38291-2DUP*	108-10-1	Methyl Isobutyl Ketone	DUP	RPD	0	%	20
JD38291-2DUP*	1634-04-4	Methyl Tert Butyl Ether	DUP	RPD	0	%	20
JD38291-2DUP*	91-20-3	Naphthalene	DUP	RPD	0	%	20
JD38291-2DUP*	100-42-5	Styrene	DUP	RPD	0	%	20
JD38291-2DUP*	71-55-6	1,1,1-Trichloroethane	DUP	RPD	0	%	20
JD38291-2DUP*	79-34-5	1,1,2,2-Tetrachloroethane	DUP	RPD	0	%	20
JD38291-2DUP*	79-00-5	1,1,2-Trichloroethane	DUP	RPD	0	%	20
JD38291-2DUP*	120-82-1	1,2,4-Trichlorobenzene	DUP	RPD	0	%	20
JD38291-2DUP*	95-63-6	1,2,4-Trimethylbenzene	DUP	RPD	0	%	20
JD38291-2DUP*	108-67-8	1,3,5-Trimethylbenzene	DUP	RPD	0	%	20
JD38291-2DUP*	127-18-4	Tetrachloroethylene	DUP	RPD	0	%	20
JD38291-2DUP*	108-88-3	Toluene	DUP	RPD	6	%	20
JD38291-2DUP*	79-01-6	Trichloroethylene	DUP	RPD	3	%	20
JD38291-2DUP*	75-69-4	Trichlorofluoromethane	DUP	RPD	0	%	20
JD38291-2DUP*	75-01-4	Vinyl chloride	DUP	RPD	0	%	20

* Sample used for QC is not from job JD38291R

QC Evaluation: DOD QSM5.x Limits

Job Number: JD38291R
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD38291-2DUP*	108-05-4	Vinyl Acetate	DUP	RPD	0	%	20
JD38291-2DUP*		m,p-Xylene	DUP	RPD	3	%	20
JD38291-2DUP*	95-47-6	o-Xylene	DUP	RPD	7	%	20

(a) High RPD due to low concentration of hit

* Sample used for QC is not from job JD38291R

Accutest Laboratories Annual Method Detection Limit Determination
Dayton, NJ Facility

Method: TO-15 (VTO14/15)
Instrument(s): GCMS3W, GCMS5W, GCMS6W
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: July,2018

			Replicate Spikes											
Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
Acetone	4-Apr-18	0.1	0.15	0.17	0.14	0.17	0.17	0.09	0.09	0.14	139.43	0.04	0.11	0.89
Acrylonitrile	6-Mar-18	0.1	0.11	0.13	0.13	0.10	0.11	0.09	0.10	0.11	110.28	0.02	0.05	1.97
Acetonitrile	4-Apr-18	0.1	0.17	0.13	0.16	0.15	0.21	0.09	0.07	0.14	140.53	0.05	0.15	0.67
1,3-Butadiene	4-Apr-18	0.1	0.10	0.11	0.10	0.10	0.10	0.07	0.07	0.09	93.21	0.01	0.05	2.16
Benzene	6-Mar-18	0.1	0.10	0.10	0.10	0.09	0.09	0.10	0.10	0.10	96.63	0.00	0.01	8.40
Bromobenzene	4-Apr-18	0.04	0.05	0.04	0.05	0.04	0.05	0.03	0.03	0.04	103.07	0.01	0.02	1.79
Bromodichloromethane	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.05	120.64	0.01	0.03	1.49
Bromoform	4-Apr-18	0.04	0.06	0.06	0.06	0.05	0.06	0.03	0.03	0.05	127.36	0.01	0.04	1.07
Bromomethane	4-Apr-18	0.04	0.06	0.05	0.05	0.06	0.06	0.04	0.04	0.05	128.54	0.01	0.02	1.82
Bromoethene	4-Apr-18	0.04	0.04	0.05	0.05	0.04	0.04	0.03	0.03	0.04	103.18	0.01	0.02	1.82
n-Butane	9-Jul-18	0.2	0.20	0.18	0.20	0.18	0.12	0.20	0.15	0.18	88.23	0.03	0.10	2.10
Benzyl Chloride	4-Apr-18	0.1	0.10	0.09	0.09	0.08	0.08	0.05	0.05	0.08	77.01	0.02	0.06	1.77
n-Butylbenzene	6-Mar-18	0.1	0.07	0.07	0.07	0.09	0.07	0.05	0.06	0.07	69.64	0.01	0.04	2.69
sec-Butylbenzene	6-Mar-18	0.1	0.09	0.10	0.09	0.11	0.10	0.07	0.08	0.09	91.41	0.01	0.04	2.26
tert-Butylbenzene	6-Mar-18	0.1	0.09	0.10	0.10	0.11	0.10	0.07	0.09	0.09	93.20	0.01	0.04	2.71
Carbon disulfide	16-Mar-18	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.03	84.90	0.01	0.02	1.69
Chlorobenzene	4-Apr-18	0.04	0.06	0.05	0.05	0.05	0.05	0.03	0.04	0.05	121.74	0.01	0.03	1.53
Chlorodifluoromethane	4-Apr-18	0.1	0.11	0.12	0.12	0.12	0.11	0.07	0.03	0.10	97.42	0.03	0.10	0.96
Chloroethane	4-Apr-18	0.1	0.11	0.10	0.10	0.10	0.11	0.08	0.08	0.10	98.82	0.02	0.05	2.07
Chlorotrifluoroethene	16-Mar-18	0.04	0.04	0.03	0.03	0.04	0.04	0.05	0.04	0.04	96.91	0.00	0.01	2.74
Chloroform	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.04	109.12	0.01	0.02	2.01
Chloromethane	4-Apr-18	0.1	0.09	0.10	0.09	0.10	0.10	0.08	0.09	0.09	92.74	0.00	0.02	6.54
3-Chloropropene	16-Mar-18	0.1	0.08	0.08	0.07	0.05	0.06	0.08	0.07	0.07	70.88	0.01	0.04	2.52
2-Chlorotoluene	4-Apr-18	0.1	0.09	0.09	0.08	0.08	0.08	0.08	0.07	0.08	82.41	0.01	0.03	4.00
Carbon tetrachloride	4-Apr-18	0.04	0.04	0.04	0.05	0.05	0.05	0.03	0.03	0.04	105.24	0.01	0.02	1.70
Cyclohexane	4-Apr-18	0.1	0.06	0.07	0.06	0.06	0.06	0.08	0.08	0.07	66.65	0.01	0.02	4.55
1,1-Dichloroethane	4-Apr-18	0.1	0.09	0.10	0.10	0.10	0.10	0.09	0.09	0.10	95.35	0.00	0.01	8.62
1,1-Dichloroethylene	6-Mar-18	0.04	0.06	0.05	0.05	0.05	0.04	0.05	0.05	0.05	122.85	0.01	0.02	2.40
1,2-Dibromoethane	4-Apr-18	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.04	92.37	0.01	0.02	2.25
1,2-Dichloroethane	4-Apr-18	0.04	0.04	0.05	0.04	0.05	0.05	0.03	0.03	0.04	102.51	0.01	0.02	1.92
1,2-Dichloropropane	6-Mar-18	0.04	0.05	0.05	0.05	0.04	0.04	0.05	0.06	0.05	123.28	0.01	0.02	2.09
1,3-Dichloropropane	6-Mar-18	0.04	0.03	0.03	0.04	0.03	0.03	0.03	0.02	0.03	79.01	0.01	0.02	2.54
1,4-Dioxane	16-Mar-18	0.1	0.10	0.09	0.07	0.09	0.09	0.06	0.05	0.08	77.81	0.02	0.05	1.93
Dichlorodifluoromethane	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.05	113.93	0.01	0.02	2.43

Dichlorofluoromethane	4-Apr-18	0.04	0.05	0.06	0.05	0.06	0.05	0.04	0.04	0.05	121.63	0.01	0.03	1.44
Dibromochloromethane	4-Apr-18	0.04	0.06	0.06	0.05	0.05	0.05	0.03	0.03	0.05	119.40	0.01	0.03	1.20
Dibromomethane	4-Apr-18	0.04	0.06	0.06	0.06	0.06	0.06	0.04	0.04	0.05	129.43	0.01	0.02	1.61
trans-1,2-Dichloroethylene	16-Mar-18	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	78.89	0.00	0.01	5.45
cis-1,2-Dichloroethylene	16-Mar-18	0.04	0.04	0.04	0.04	0.03	0.04	0.03	0.03	0.03	84.39	0.00	0.01	3.43
cis-1,3-Dichloropropene	6-Mar-18	0.1	0.10	0.10	0.10	0.08	0.09	0.09	0.09	0.09	91.08	0.01	0.02	5.13
m-Dichlorobenzene	4-Apr-18	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	87.14	0.01	0.02	2.12
o-Dichlorobenzene	6-Mar-18	0.1	0.08	0.09	0.08	0.08	0.08	0.07	0.07	0.08	79.00	0.01	0.02	4.58
p-Dichlorobenzene	4-Apr-18	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	84.30	0.01	0.02	2.29
trans-1,3-Dichloropropene	4-Apr-18	0.1	0.08	0.08	0.08	0.07	0.08	0.07	0.07	0.07	74.34	0.01	0.02	5.13
Di-Isopropyl ether	6-Mar-18	0.2	0.21	0.22	0.22	0.21	0.22	0.20	0.21	0.21	106.79	0.01	0.03	6.78
2,3-Dimethylpentane	4-Apr-18	0.1	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.08	76.36	0.01	0.02	5.07
2,4-Dimethylpentane	4-Apr-18	0.1	0.07	0.07	0.06	0.07	0.07	0.08	0.08	0.07	69.67	0.01	0.02	5.70
Ethanol	4-Apr-18	0.1	0.20	0.20	0.22	0.21	0.21	0.08	0.06	0.17	168.18	0.07	0.22	0.46
Ethylbenzene	6-Mar-18	0.1	0.09	0.10	0.10	0.10	0.09	0.11	0.09	0.10	96.79	0.00	0.02	6.61
Ethyl Acetate	6-Mar-18	0.1	0.08	0.08	0.10	0.09	0.09	0.06	0.06	0.08	79.31	0.01	0.04	2.66
Ethyl Acrylate	6-Mar-18	0.1	0.08	0.09	0.10	0.08	0.08	0.06	0.06	0.08	76.98	0.01	0.05	2.16
4-Ethyltoluene	6-Mar-18	0.1	0.08	0.09	0.09	0.09	0.09	0.07	0.07	0.08	82.05	0.01	0.03	3.38
Freon 113	4-Apr-18	0.04	0.05	0.04	0.05	0.04	0.04	0.03	0.03	0.04	103.42	0.01	0.02	2.34
Freon 114	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.05	115.71	0.01	0.02	2.09
Freon 115	6-Mar-18	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	99.91	0.00	0.01	5.22
Freon 123	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.04	107.96	0.01	0.02	2.05
Freon 123A	16-Mar-18	0.04	0.05	0.04	0.04	0.04	0.04	0.08	0.08	0.05	131.10	0.02	0.06	0.63
Freon 141B	4-Apr-18	0.04	0.06	0.06	0.06	0.06	0.06	0.04	0.04	0.05	132.21	0.01	0.03	1.30
Freon 142B	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.05	120.27	0.01	0.03	1.46
Freon 143a	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.05	119.26	0.01	0.02	1.96
Freon 152A	4-Apr-18	0.1	0.09	0.10	0.10	0.10	0.10	0.08	0.08	0.09	93.15	0.01	0.03	3.93
Heptane	16-Mar-18	0.04	0.03	0.02	0.02	0.01	0.02	0.02	0.01	0.02	51.50	0.01	0.02	2.29
Hexachlorobutadiene	4-Apr-18	0.04	0.07	0.07	0.07	0.07	0.06	0.04	0.04	0.06	141.60	0.01	0.05	0.88
Hexachloroethane	4-Apr-18	0.04	0.07	0.07	0.07	0.07	0.07	0.04	0.03	0.06	148.40	0.02	0.05	0.75
Hexane	6-Mar-18	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	101.95	0.00	0.01	3.79
2-Hexanone	6-Mar-18	0.1	0.07	0.08	0.08	0.08	0.07	0.05	0.06	0.07	68.64	0.01	0.04	2.76
Iodomethane	6-Mar-18	0.1	0.10	0.10	0.10	0.09	0.09	0.10	0.09	0.10	96.55	0.00	0.01	8.77
Isopropylbenzene	6-Mar-18	0.1	0.10	0.10	0.10	0.11	0.10	0.09	0.08	0.10	95.35	0.01	0.03	3.65
Isopropyl Alcohol	9-Jul-18	0.2	0.32	0.32	0.31	0.32	0.29	0.27	0.33	0.31	154.14	0.02	0.06	3.09
p-Isopropyltoluene	6-Mar-18	0.1	0.08	0.09	0.09	0.10	0.10	0.07	0.07	0.09	85.96	0.01	0.04	2.82
Methylene chloride	6-Mar-18	0.1	0.13	0.14	0.13	0.12	0.13	0.12	0.13	0.13	130.26	0.00	0.01	6.92
Methyl ethyl ketone	6-Mar-18	0.1	0.08	0.08	0.09	0.09	0.10	0.06	0.06	0.08	80.25	0.01	0.04	2.38
Methyl Isobutyl Ketone	6-Mar-18	0.1	0.08	0.09	0.10	0.09	0.09	0.06	0.08	0.08	82.66	0.01	0.04	2.78
Methyl Tert Butyl Ether	6-Mar-18	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.04	95.74	0.01	0.02	2.09
Methylmethacrylate	6-Mar-18	0.1	0.08	0.08	0.09	0.08	0.09	0.06	0.07	0.08	79.33	0.01	0.03	3.07
Naphthalene	16-Mar-18	0.2	0.08	0.07	0.07	0.06	0.05	0.01	0.01	0.05	25.45	0.03	0.09	2.20
Nonane	16-Mar-18	0.04	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.03	69.05	0.00	0.01	2.98
Octane	4-Apr-18	0.1	0.06	0.05	0.05	0.05	0.05	0.07	0.07	0.06	57.51	0.01	0.03	3.20
Pentane	16-Mar-18	0.2	0.20	0.20	0.18	0.20	0.17	0.17	0.16	0.18	91.02	0.02	0.06	3.63

n-Propylbenzene	6-Mar-18	0.1	0.08	0.09	0.08	0.09	0.09	0.07	0.07	0.08	81.29	0.01	0.03	3.80
Propylene	16-Mar-18	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.05	115.79	0.01	0.02	2.51
Styrene	4-Apr-18	0.1	0.07	0.07	0.07	0.06	0.06	0.07	0.07	0.06	64.67	0.01	0.02	5.30
1,1,1-Trichloroethane	4-Apr-18	0.04	0.05	0.06	0.06	0.05	0.05	0.03	0.03	0.05	120.15	0.01	0.03	1.20
1,1,1,2-Tetrachloroethane	4-Apr-18	0.04	0.05	0.06	0.05	0.06	0.05	0.04	0.03	0.05	123.96	0.01	0.04	1.10
1,1,2,2-Tetrachloroethane	4-Apr-18	0.04	0.05	0.05	0.05	0.05	0.05	0.03	0.03	0.05	113.92	0.01	0.03	1.47
1,1,2-Trichloroethane	4-Apr-18	0.04	0.04	0.04	0.05	0.05	0.04	0.02	0.03	0.04	95.93	0.01	0.03	1.31
1,2,4-Trichlorobenzene	6-Mar-18	0.2	0.12	0.16	0.11	0.11	0.10	0.08	0.08	0.11	54.59	0.03	0.09	2.26
1,2,3-Trichloropropane	6-Mar-18	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.06	0.04	94.35	0.01	0.04	1.12
1,2,4-Trimethylbenzene	6-Mar-18	0.1	0.08	0.09	0.09	0.09	0.09	0.07	0.07	0.08	84.25	0.01	0.03	3.03
1,3,5-Trimethylbenzene	6-Mar-18	0.1	0.09	0.09	0.10	0.10	0.10	0.08	0.08	0.09	89.95	0.01	0.03	2.98
2,2,4-Trimethylpentane	6-Mar-18	0.1	0.11	0.11	0.11	0.09	0.09	0.10	0.10	0.10	100.21	0.01	0.02	4.59
Tertiary Butyl Alcohol	6-Mar-18	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04	97.25	0.00	0.01	2.90
Tetrachloroethylene	6-Mar-18	0.2	0.20	0.22	0.21	0.23	0.21	0.21	0.22	0.21	106.97	0.01	0.03	6.49
Tetrahydrofuran	16-Mar-18	0.1	0.07	0.05	0.05	0.08	0.06	0.03	0.04	0.05	54.16	0.02	0.05	1.99
Toluene	6-Mar-18	0.1	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	92.31	0.00	0.01	6.94
Trichloroethylene	4-Apr-18	0.04	0.04	0.05	0.04	0.04	0.05	0.03	0.03	0.04	101.18	0.01	0.02	2.10
Trichlorofluoromethane	4-Apr-18	0.04	0.06	0.06	0.05	0.06	0.06	0.04	0.04	0.05	129.81	0.01	0.03	1.42
Vinyl chloride	4-Apr-18	0.1	0.10	0.11	0.10	0.10	0.10	0.09	0.09	0.10	97.80	0.01	0.02	4.49
Vinyl Acetate	6-Mar-18	0.1	0.06	0.04	0.04	0.06	0.06	0.04	0.04	0.05	50.75	0.01	0.03	2.93
m,p-Xylene	6-Mar-18	0.2	0.17	0.18	0.18	0.18	0.19	0.19	0.16	0.18	89.18	0.01	0.03	5.86
o-Xylene	6-Mar-18	0.1	0.08	0.09	0.09	0.09	0.09	0.08	0.08	0.09	87.80	0.01	0.02	5.90
TVHC As Equiv Pentane	16-Mar-18	0.1	0.14	0.14	0.15	0.13	0.14	0.11	0.12	0.13	133.35	0.01	0.04	2.64

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1967-MB	5W47614.D	1	01/27/22	TCH	n/a	n/a	V5W1967

The QC reported here applies to the following samples: **Method:** TO-15

JD38291-2R, JD38291-3R, JD38291-6R, JD38291-7R, JD38291-8R, JD38291-9R, JD38291-10R, JD38291-11R, JD38291-12R, JD38291-14R, JD38291-15R

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.037	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.038	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3

Method Blank Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1967-MB	5W47614.D	1	01/27/22	TCH	n/a	n/a	V5W1967

The QC reported here applies to the following samples: **Method:** TO-15

JD38291-2R, JD38291-3R, JD38291-6R, JD38291-7R, JD38291-8R, JD38291-9R, JD38291-10R, JD38291-11R, JD38291-12R, JD38291-14R, JD38291-15R

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
91-20-3	Naphthalene	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

Method Blank Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2558-MB	2W57477.D	1	01/28/22	TCH	n/a	n/a	V2W2558

The QC reported here applies to the following samples: **Method:** TO-15

JD38291-4R, JD38291-16R, JD38291-18R, JD38291-19R

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.037	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.038	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3

Method Blank Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2558-MB	2W57477.D	1	01/28/22	TCH	n/a	n/a	V2W2558

The QC reported here applies to the following samples: **Method:** TO-15

JD38291-4R, JD38291-16R, JD38291-18R, JD38291-19R

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
91-20-3	Naphthalene	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	102%	65-128%

Method Blank Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2532-MB	2W56847.D	1	12/22/21	TCH	n/a	n/a	V2W2532

The QC reported here applies to the following samples: **Method:** TO-15

V2W2532-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.11	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.046	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.012	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.027	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.057	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.048	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.020	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.015	ppbv		ND	0.41	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.024	ppbv		ND	1.3	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.012	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.017	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.018	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.021	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.019	ppbv		ND	0.92	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.017	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.033	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.0073	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.012	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.018	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.015	ppbv		ND	0.87	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.030	ppbv		ND	0.98	ug/m3
76-13-1	Freon 113	ND	0.20	0.017	ppbv		ND	1.5	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.015	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.042	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.019	ppbv		ND	0.72	ug/m3

Method Blank Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2532-MB	2W56847.D	1	12/22/21	TCH	n/a	n/a	V2W2532

The QC reported here applies to the following samples: **Method:** TO-15

V2W2532-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
91-20-3	Naphthalene	ND	0.20	0.091	ppbv		ND	1.0	ug/m3
100-42-5	Styrene	ND	0.20	0.019	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.033	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.027	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.089	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.033	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.034	ppbv		ND	0.98	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.031	ppbv		ND	0.27	ug/m3
108-88-3	Toluene	ND	0.20	0.014	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.028	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.034	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.034	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.017	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.80	41	ppbv	JN
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2534-MB	2W56907.D	1	12/27/21	TCH	n/a	n/a	V2W2534

The QC reported here applies to the following samples: **Method:** TO-15

V2W2534-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.037	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.038	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3

Method Blank Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2534-MB	2W56907.D	1	12/27/21	TCH	n/a	n/a	V2W2534

The QC reported here applies to the following samples: **Method:** TO-15

V2W2534-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
91-20-3	Naphthalene	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	65-128%

Method Blank Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2535-MB	2W56934.D	1	12/28/21	TCH	n/a	n/a	V2W2535

The QC reported here applies to the following samples: **Method:** TO-15

V2W2535-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.037	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.038	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3

Method Blank Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2535-MB	2W56934.D	1	12/28/21	TCH	n/a	n/a	V2W2535

The QC reported here applies to the following samples: **Method:** TO-15

V2W2535-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
91-20-3	Naphthalene	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	65-128%

Method Blank Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2539-MB	2W57046.D	1	01/04/22	DFT	n/a	n/a	V2W2539

The QC reported here applies to the following samples: **Method:** TO-15

V2W2539-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.037	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.038	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3

Method Blank Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2539-MB	2W57046.D	1	01/04/22	DFT	n/a	n/a	V2W2539

The QC reported here applies to the following samples: **Method:** TO-15

V2W2539-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
91-20-3	Naphthalene	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	96%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.80	53	ppbv	JN
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1967-BS	5W47609.D	1	01/27/22	TCH	n/a	n/a	V5W1967
V5W1967-BSD	5W47610.D	1	01/27/22	TCH	n/a	n/a	V5W1967

The QC reported here applies to the following samples: **Method:** TO-15

JD38291-2R, JD38291-3R, JD38291-6R, JD38291-7R, JD38291-8R, JD38291-9R, JD38291-10R, JD38291-11R, JD38291-12R, JD38291-14R, JD38291-15R

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	10.0	100	10.0	100	0	70-130/30
106-99-0	1,3-Butadiene	10	10.8	108	10.5	105	3	70-130/30
71-43-2	Benzene	10	9.5	95	9.4	94	1	70-130/30
75-27-4	Bromodichloromethane	10	10.2	102	10	100	2	70-130/30
75-25-2	Bromoform	10	10.9	109	10.7	107	2	70-130/30
74-83-9	Bromomethane	10	9.3	93	9.1	91	2	70-130/30
100-44-7	Benzyl Chloride	10	12.6	126	12.6	126	0	70-130/30
75-15-0	Carbon disulfide	10	10.2	102	10.1	101	1	70-130/30
108-90-7	Chlorobenzene	10	10.1	101	9.9	99	2	70-130/30
75-00-3	Chloroethane	10	10.5	105	10.3	103	2	70-130/30
67-66-3	Chloroform	10	10.0	100	9.9	99	1	70-130/30
74-87-3	Chloromethane	10	11.0	110	10.9	109	1	70-130/30
56-23-5	Carbon tetrachloride	10	10.5	105	10.2	102	3	70-130/30
75-34-3	1,1-Dichloroethane	10	10.1	101	9.9	99	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.3	103	10.2	102	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.4	104	10	100	4	70-130/30
107-06-2	1,2-Dichloroethane	10	10.0	100	9.8	98	2	70-130/30
78-87-5	1,2-Dichloropropane	10	10.2	102	9.9	99	3	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.0	110	10.9	109	1	70-130/30
124-48-1	Dibromochloromethane	10	10.7	107	10.4	104	3	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.2	102	10.1	101	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.1	101	9.9	99	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.9	99	9.6	96	3	70-130/30
541-73-1	m-Dichlorobenzene	10	11.6	116	11.4	114	2	70-130/30
95-50-1	o-Dichlorobenzene	10	12.0	120	11.8	118	2	70-130/30
106-46-7	p-Dichlorobenzene	10	11.7	117	11.7	117	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.6	96	9.4	94	2	70-130/30
100-41-4	Ethylbenzene	10	10.1	101	9.9	99	2	70-130/30
622-96-8	4-Ethyltoluene	10	11.1	111	11.0	110	1	70-130/30
76-13-1	Freon 113	10	10.3	103	10.1	101	2	70-130/30
87-68-3	Hexachlorobutadiene	10	10.1	101	9.9	99	2	70-130/30
591-78-6	2-Hexanone	10	10.5	105	10.1	101	4	70-130/30
75-09-2	Methylene chloride	10	9.6	96	9.4	94	2	70-130/30
78-93-3	Methyl ethyl ketone	10	11.0	110	10.6	106	4	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.1	111	10.7	107	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.7	97	9.6	96	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1967-BS	5W47609.D	1	01/27/22	TCH	n/a	n/a	V5W1967
V5W1967-BSD	5W47610.D	1	01/27/22	TCH	n/a	n/a	V5W1967

The QC reported here applies to the following samples: **Method:** TO-15

JD38291-2R, JD38291-3R, JD38291-6R, JD38291-7R, JD38291-8R, JD38291-9R, JD38291-10R, JD38291-11R, JD38291-12R, JD38291-14R, JD38291-15R

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	10	10.8	108	10.6	106	2	70-130/30
100-42-5	Styrene	10	11.2	112	11.1	111	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.9	99	9.6	96	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.2	102	10.0	100	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.4	104	10.1	101	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	11.7	117	11.5	115	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.1	111	10.9	109	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.7	107	10.6	106	1	70-130/30
127-18-4	Tetrachloroethylene	10	10.5	105	10.2	102	3	70-130/30
108-88-3	Toluene	10	10.2	102	9.9	99	3	70-130/30
79-01-6	Trichloroethylene	10	10.1	101	9.8	98	3	70-130/30
75-69-4	Trichlorofluoromethane	10	10.2	102	10.0	100	2	70-130/30
75-01-4	Vinyl chloride	10	11.2	112	10.9	109	3	70-130/30
108-05-4	Vinyl Acetate	10	9.9	99	9.6	96	3	70-130/30
	m,p-Xylene	20	20.9	105	20.3	102	3	70-130/30
95-47-6	o-Xylene	10	10.4	104	10.1	101	3	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	103%	103%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2558-BS	2W57474.D	1	01/28/22	TCH	n/a	n/a	V2W2558
V2W2558-BSD	2W57475.D	1	01/28/22	TCH	n/a	n/a	V2W2558

The QC reported here applies to the following samples: **Method:** TO-15

JD38291-4R, JD38291-16R, JD38291-18R, JD38291-19R

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	9.5	95	9.4	94	1	70-130/30
106-99-0	1,3-Butadiene	10	9.6	96	9.8	98	2	70-130/30
71-43-2	Benzene	10	9.0	90	9.1	91	1	70-130/30
75-27-4	Bromodichloromethane	10	9.2	92	9.1	91	1	70-130/30
75-25-2	Bromoform	10	9.3	93	9.2	92	1	70-130/30
74-83-9	Bromomethane	10	9.0	90	9.1	91	1	70-130/30
100-44-7	Benzyl Chloride	10	10.8	108	10.6	106	2	70-130/30
75-15-0	Carbon disulfide	10	10.7	107	10.7	107	0	70-130/30
108-90-7	Chlorobenzene	10	8.9	89	8.8	88	1	70-130/30
75-00-3	Chloroethane	10	9.5	95	9.5	95	0	70-130/30
67-66-3	Chloroform	10	9.3	93	9.4	94	1	70-130/30
74-87-3	Chloromethane	10	10.3	103	10.4	104	1	70-130/30
56-23-5	Carbon tetrachloride	10	9.4	94	9.4	94	0	70-130/30
75-34-3	1,1-Dichloroethane	10	9.2	92	9.3	93	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.1	101	10.1	101	0	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	9.2	92	9.1	91	1	70-130/30
107-06-2	1,2-Dichloroethane	10	9.7	97	9.8	98	1	70-130/30
78-87-5	1,2-Dichloropropane	10	8.9	89	9.0	90	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.1	111	11.1	111	0	70-130/30
124-48-1	Dibromochloromethane	10	9.2	92	9.1	91	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	8.7	87	8.7	87	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.0	90	9.1	91	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.8	98	9.8	98	0	70-130/30
541-73-1	m-Dichlorobenzene	10	9.8	98	9.7	97	1	70-130/30
95-50-1	o-Dichlorobenzene	10	10.1	101	9.9	99	2	70-130/30
106-46-7	p-Dichlorobenzene	10	10	100	10	100	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10	100	10.0	100	0	70-130/30
100-41-4	Ethylbenzene	10	9.6	96	9.5	95	1	70-130/30
622-96-8	4-Ethyltoluene	10	10.4	104	10.4	104	0	70-130/30
76-13-1	Freon 113	10	9.5	95	9.5	95	0	70-130/30
87-68-3	Hexachlorobutadiene	10	10.4	104	10.3	103	1	70-130/30
591-78-6	2-Hexanone	10	10.3	103	10.3	103	0	70-130/30
75-09-2	Methylene chloride	10	8.7	87	8.8	88	1	70-130/30
78-93-3	Methyl ethyl ketone	10	9.2	92	9.3	93	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.3	103	10.4	104	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	11.1	111	11.4	114	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2558-BS	2W57474.D	1	01/28/22	TCH	n/a	n/a	V2W2558
V2W2558-BSD	2W57475.D	1	01/28/22	TCH	n/a	n/a	V2W2558

The QC reported here applies to the following samples: **Method:** TO-15

JD38291-4R, JD38291-16R, JD38291-18R, JD38291-19R

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	10	11.2	112	11.2	112	0	70-130/30
100-42-5	Styrene	10	10.2	102	10.1	101	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.6	96	9.6	96	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.8	98	9.7	97	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.1	91	9.0	90	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.9	109	11.0	110	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.6	106	10.5	105	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.3	103	10.2	102	1	70-130/30
127-18-4	Tetrachloroethylene	10	8.9	89	9.0	90	1	70-130/30
108-88-3	Toluene	10	9.0	90	9.1	91	1	70-130/30
79-01-6	Trichloroethylene	10	8.9	89	8.8	88	1	70-130/30
75-69-4	Trichlorofluoromethane	10	9.4	94	9.5	95	1	70-130/30
75-01-4	Vinyl chloride	10	9.4	94	9.5	95	1	70-130/30
108-05-4	Vinyl Acetate	10	8.7	87	9.0	90	3	70-130/30
	m,p-Xylene	20	19.2	96	19.0	95	1	70-130/30
95-47-6	o-Xylene	10	9.7	97	9.6	96	1	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	101%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2532-BS	2W56844.D	1	12/22/21	TCH	n/a	n/a	V2W2532
V2W2532-BSD	2W56845.D	1	12/22/21	TCH	n/a	n/a	V2W2532

The QC reported here applies to the following samples: **Method:** TO-15

V2W2532-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.3	83	8.1	81	2	70-130/30
106-99-0	1,3-Butadiene	10	9.4	94	9.1	91	3	70-130/30
71-43-2	Benzene	10	9.6	96	9.2	92	4	70-130/30
75-27-4	Bromodichloromethane	10	9.8	98	9.4	94	4	70-130/30
75-25-2	Bromoform	10	10.6	106	10.3	103	3	70-130/30
74-83-9	Bromomethane	10	9.5	95	9.3	93	2	70-130/30
100-44-7	Benzyl Chloride	10	10.6	106	10.3	103	3	70-130/30
75-15-0	Carbon disulfide	10	9.5	95	9.1	91	4	70-130/30
108-90-7	Chlorobenzene	10	10.0	100	9.8	98	2	70-130/30
75-00-3	Chloroethane	10	9.6	96	9.3	93	3	70-130/30
67-66-3	Chloroform	10	9.6	96	9.4	94	2	70-130/30
74-87-3	Chloromethane	10	10	100	9.4	94	6	70-130/30
56-23-5	Carbon tetrachloride	10	9.9	99	9.7	97	2	70-130/30
75-34-3	1,1-Dichloroethane	10	9.6	96	9.3	93	3	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.7	97	9.4	94	3	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.2	102	9.8	98	4	70-130/30
107-06-2	1,2-Dichloroethane	10	9.4	94	9.2	92	2	70-130/30
78-87-5	1,2-Dichloropropane	10	9.7	97	9.4	94	3	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.7	97	8.6	86	12	70-130/30
124-48-1	Dibromochloromethane	10	10.2	102	9.9	99	3	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.9	99	9.6	96	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.9	99	9.6	96	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.5	105	10.2	102	3	70-130/30
541-73-1	m-Dichlorobenzene	10	10.5	105	10.1	101	4	70-130/30
95-50-1	o-Dichlorobenzene	10	10.3	103	10.0	100	3	70-130/30
106-46-7	p-Dichlorobenzene	10	10.6	106	10.3	103	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.5	105	10.2	102	3	70-130/30
100-41-4	Ethylbenzene	10	10.4	104	10.1	101	3	70-130/30
622-96-8	4-Ethyltoluene	10	10.9	109	10.7	107	2	70-130/30
76-13-1	Freon 113	10	10.1	101	9.8	98	3	70-130/30
87-68-3	Hexachlorobutadiene	10	9.5	95	9.3	93	2	70-130/30
591-78-6	2-Hexanone	10	9.8	98	9.4	94	4	70-130/30
75-09-2	Methylene chloride	10	8.1	81	7.8	78	4	70-130/30
78-93-3	Methyl ethyl ketone	10	9.5	95	9.3	93	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.4	104	10.1	101	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.1	101	9.8	98	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2532-BS	2W56844.D	1	12/22/21	TCH	n/a	n/a	V2W2532
V2W2532-BSD	2W56845.D	1	12/22/21	TCH	n/a	n/a	V2W2532

The QC reported here applies to the following samples: **Method:** TO-15

V2W2532-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	10	9.6	96	9.2	92	4	70-130/30
100-42-5	Styrene	10	11.0	110	10.7	107	3	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.9	99	9.6	96	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10	100	9.7	97	3	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.9	99	9.5	95	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.8	98	9.6	96	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.7	107	10.5	105	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.7	107	10.4	104	3	70-130/30
127-18-4	Tetrachloroethylene	10	10.3	103	10.1	101	2	70-130/30
108-88-3	Toluene	10	10.0	100	9.7	97	3	70-130/30
79-01-6	Trichloroethylene	10	9.9	99	9.6	96	3	70-130/30
75-69-4	Trichlorofluoromethane	10	9.5	95	9.2	92	3	70-130/30
75-01-4	Vinyl chloride	10	9.5	95	9.1	91	4	70-130/30
108-05-4	Vinyl Acetate	10	10	100	9.8	98	2	70-130/30
	m,p-Xylene	20	20.9	105	20.3	102	3	70-130/30
95-47-6	o-Xylene	10	10.4	104	10.1	101	3	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2534-BS	2W56904.D	1	12/27/21	TCH	n/a	n/a	V2W2534
V2W2534-BSD	2W56905.D	1	12/27/21	TCH	n/a	n/a	V2W2534

The QC reported here applies to the following samples: **Method:** TO-15

V2W2534-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.7	87	8.4	84	4	70-130/30
106-99-0	1,3-Butadiene	10	9.5	95	9.3	93	2	70-130/30
71-43-2	Benzene	10	9.5	95	9.2	92	3	70-130/30
75-27-4	Bromodichloromethane	10	9.6	96	9.5	95	1	70-130/30
75-25-2	Bromoform	10	10.3	103	10.1	101	2	70-130/30
74-83-9	Bromomethane	10	9.6	96	9.3	93	3	70-130/30
100-44-7	Benzyl Chloride	10	10.6	106	10.2	102	4	70-130/30
75-15-0	Carbon disulfide	10	9.8	98	9.5	95	3	70-130/30
108-90-7	Chlorobenzene	10	9.8	98	9.6	96	2	70-130/30
75-00-3	Chloroethane	10	9.6	96	9.4	94	2	70-130/30
67-66-3	Chloroform	10	9.6	96	9.4	94	2	70-130/30
74-87-3	Chloromethane	10	10	100	9.8	98	2	70-130/30
56-23-5	Carbon tetrachloride	10	10	100	9.7	97	3	70-130/30
75-34-3	1,1-Dichloroethane	10	9.6	96	9.3	93	3	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.8	98	9.6	96	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	9.8	98	9.7	97	1	70-130/30
107-06-2	1,2-Dichloroethane	10	9.4	94	9.1	91	3	70-130/30
78-87-5	1,2-Dichloropropane	10	9.6	96	9.4	94	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.8	118	11.4	114	3	70-130/30
124-48-1	Dibromochloromethane	10	9.9	99	9.8	98	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.7	97	9.5	95	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.7	97	9.6	96	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.2	102	10.1	101	1	70-130/30
541-73-1	m-Dichlorobenzene	10	10.0	100	9.8	98	2	70-130/30
95-50-1	o-Dichlorobenzene	10	9.9	99	9.8	98	1	70-130/30
106-46-7	p-Dichlorobenzene	10	10.1	101	9.9	99	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.4	104	10.2	102	2	70-130/30
100-41-4	Ethylbenzene	10	10.1	101	9.9	99	2	70-130/30
622-96-8	4-Ethyltoluene	10	10.6	106	10.4	104	2	70-130/30
76-13-1	Freon 113	10	9.9	99	9.8	98	1	70-130/30
87-68-3	Hexachlorobutadiene	10	9.0	90	8.9	89	1	70-130/30
591-78-6	2-Hexanone	10	9.6	96	9.4	94	2	70-130/30
75-09-2	Methylene chloride	10	8.3	83	8.2	82	1	70-130/30
78-93-3	Methyl ethyl ketone	10	9.5	95	9.2	92	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.3	103	10.2	102	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.2	102	9.9	99	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2534-BS	2W56904.D	1	12/27/21	TCH	n/a	n/a	V2W2534
V2W2534-BSD	2W56905.D	1	12/27/21	TCH	n/a	n/a	V2W2534

The QC reported here applies to the following samples: **Method:** TO-15

V2W2534-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	10	8.9	89	8.7	87	2	70-130/30
100-42-5	Styrene	10	10.6	106	10.4	104	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.9	99	9.6	96	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.8	98	9.6	96	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.7	97	9.5	95	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.1	91	9.0	90	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.5	105	10.4	104	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.4	104	10.2	102	2	70-130/30
127-18-4	Tetrachloroethylene	10	10.1	101	10.1	101	0	70-130/30
108-88-3	Toluene	10	9.7	97	9.6	96	1	70-130/30
79-01-6	Trichloroethylene	10	9.7	97	9.6	96	1	70-130/30
75-69-4	Trichlorofluoromethane	10	9.6	96	9.4	94	2	70-130/30
75-01-4	Vinyl chloride	10	9.5	95	9.3	93	2	70-130/30
108-05-4	Vinyl Acetate	10	10.0	100	9.8	98	2	70-130/30
	m,p-Xylene	20	20.5	103	20.0	100	2	70-130/30
95-47-6	o-Xylene	10	10.2	102	9.9	99	3	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	98%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2535-BS	2W56931.D	1	12/28/21	TCH	n/a	n/a	V2W2535
V2W2535-BSD	2W56932.D	1	12/28/21	TCH	n/a	n/a	V2W2535

The QC reported here applies to the following samples: **Method:** TO-15

V2W2535-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.1	81	8.1	81	0	70-130/30
106-99-0	1,3-Butadiene	10	8.9	89	8.9	89	0	70-130/30
71-43-2	Benzene	10	8.9	89	9.0	90	1	70-130/30
75-27-4	Bromodichloromethane	10	9.0	90	9.1	91	1	70-130/30
75-25-2	Bromoform	10	9.9	99	10.0	100	1	70-130/30
74-83-9	Bromomethane	10	9.0	90	9.2	92	2	70-130/30
100-44-7	Benzyl Chloride	10	9.6	96	9.9	99	3	70-130/30
75-15-0	Carbon disulfide	10	9.2	92	9.3	93	1	70-130/30
108-90-7	Chlorobenzene	10	9.4	94	9.5	95	1	70-130/30
75-00-3	Chloroethane	10	9.0	90	9.1	91	1	70-130/30
67-66-3	Chloroform	10	9.0	90	9.1	91	1	70-130/30
74-87-3	Chloromethane	10	9.3	93	9.3	93	0	70-130/30
56-23-5	Carbon tetrachloride	10	9.3	93	9.5	95	2	70-130/30
75-34-3	1,1-Dichloroethane	10	8.9	89	9.0	90	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.4	94	9.4	94	0	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	9.3	93	9.4	94	1	70-130/30
107-06-2	1,2-Dichloroethane	10	8.7	87	8.8	88	1	70-130/30
78-87-5	1,2-Dichloropropane	10	9.0	90	9.0	90	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.0	110	11.1	111	1	70-130/30
124-48-1	Dibromochloromethane	10	9.5	95	9.5	95	0	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.2	92	9.3	93	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.3	93	9.4	94	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.6	96	9.6	96	0	70-130/30
541-73-1	m-Dichlorobenzene	10	9.5	95	9.7	97	2	70-130/30
95-50-1	o-Dichlorobenzene	10	9.6	96	9.7	97	1	70-130/30
106-46-7	p-Dichlorobenzene	10	9.6	96	9.8	98	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.5	95	9.5	95	0	70-130/30
100-41-4	Ethylbenzene	10	9.7	97	9.7	97	0	70-130/30
622-96-8	4-Ethyltoluene	10	10.2	102	10.3	103	1	70-130/30
76-13-1	Freon 113	10	9.5	95	9.7	97	2	70-130/30
87-68-3	Hexachlorobutadiene	10	8.7	87	8.9	89	2	70-130/30
591-78-6	2-Hexanone	10	8.8	88	8.9	89	1	70-130/30
75-09-2	Methylene chloride	10	7.9	79	8.0	80	1	70-130/30
78-93-3	Methyl ethyl ketone	10	8.8	88	8.9	89	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.5	95	9.5	95	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.2	92	9.4	94	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2535-BS	2W56931.D	1	12/28/21	TCH	n/a	n/a	V2W2535
V2W2535-BSD	2W56932.D	1	12/28/21	TCH	n/a	n/a	V2W2535

The QC reported here applies to the following samples: **Method:** TO-15

V2W2535-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	10	8.5	85	8.6	86	1	70-130/30
100-42-5	Styrene	10	10.2	102	10.3	103	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.2	92	9.3	93	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.3	93	9.3	93	0	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.1	91	9.2	92	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	8.8	88	9.1	91	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10	100	10.2	102	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.0	100	10.1	101	1	70-130/30
127-18-4	Tetrachloroethylene	10	9.7	97	9.9	99	2	70-130/30
108-88-3	Toluene	10	9.2	92	9.2	92	0	70-130/30
79-01-6	Trichloroethylene	10	9.2	92	9.3	93	1	70-130/30
75-69-4	Trichlorofluoromethane	10	9.0	90	9.1	91	1	70-130/30
75-01-4	Vinyl chloride	10	8.9	89	9.0	90	1	70-130/30
108-05-4	Vinyl Acetate	10	9.4	94	9.5	95	1	70-130/30
	m,p-Xylene	20	19.5	98	19.7	99	1	70-130/30
95-47-6	o-Xylene	10	9.7	97	9.8	98	1	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	99%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2539-BS	2W57043.D	1	01/04/22	DFT	n/a	n/a	V2W2539
V2W2539-BSD	2W57044.D	1	01/04/22	DFT	n/a	n/a	V2W2539

The QC reported here applies to the following samples: **Method:** TO-15

V2W2539-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	9.4	94	9.5	95	1	70-130/30
106-99-0	1,3-Butadiene	10	9.9	99	9.7	97	2	70-130/30
71-43-2	Benzene	10	9.7	97	9.7	97	0	70-130/30
75-27-4	Bromodichloromethane	10	9.8	98	9.7	97	1	70-130/30
75-25-2	Bromoform	10	10.6	106	10.7	107	1	70-130/30
74-83-9	Bromomethane	10	9.9	99	9.8	98	1	70-130/30
100-44-7	Benzyl Chloride	10	10.8	108	10.9	109	1	70-130/30
75-15-0	Carbon disulfide	10	10.8	108	10.8	108	0	70-130/30
108-90-7	Chlorobenzene	10	9.9	99	10	100	1	70-130/30
75-00-3	Chloroethane	10	10	100	9.9	99	1	70-130/30
67-66-3	Chloroform	10	9.8	98	9.8	98	0	70-130/30
74-87-3	Chloromethane	10	10.4	104	10.4	104	0	70-130/30
56-23-5	Carbon tetrachloride	10	10.1	101	10.1	101	0	70-130/30
75-34-3	1,1-Dichloroethane	10	9.8	98	9.7	97	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.6	106	10.5	105	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.1	101	10.1	101	0	70-130/30
107-06-2	1,2-Dichloroethane	10	9.7	97	9.6	96	1	70-130/30
78-87-5	1,2-Dichloropropane	10	9.8	98	9.8	98	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	12.0	120	11.8	118	2	70-130/30
124-48-1	Dibromochloromethane	10	10.2	102	10.1	101	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.8	98	9.7	97	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10	100	10	100	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.6	106	10.5	105	1	70-130/30
541-73-1	m-Dichlorobenzene	10	10.4	104	10.6	106	2	70-130/30
95-50-1	o-Dichlorobenzene	10	10.6	106	10.6	106	0	70-130/30
106-46-7	p-Dichlorobenzene	10	10.6	106	10.6	106	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.7	107	10.5	105	2	70-130/30
100-41-4	Ethylbenzene	10	10.4	104	10.4	104	0	70-130/30
622-96-8	4-Ethyltoluene	10	11.0	110	11.1	111	1	70-130/30
76-13-1	Freon 113	10	10.5	105	10.6	106	1	70-130/30
87-68-3	Hexachlorobutadiene	10	10.0	100	10.1	101	1	70-130/30
591-78-6	2-Hexanone	10	10.6	106	10.6	106	0	70-130/30
75-09-2	Methylene chloride	10	9.0	90	9.0	90	0	70-130/30
78-93-3	Methyl ethyl ketone	10	9.8	98	9.9	99	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.9	109	11.0	110	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.6	106	10.5	105	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2539-BS	2W57043.D	1	01/04/22	DFT	n/a	n/a	V2W2539
V2W2539-BSD	2W57044.D	1	01/04/22	DFT	n/a	n/a	V2W2539

The QC reported here applies to the following samples: **Method:** TO-15

V2W2539-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	10	10.5	105	10.7	107	2	70-130/30
100-42-5	Styrene	10	11.0	110	11.1	111	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.1	101	10.0	100	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.3	103	10.3	103	0	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.9	99	9.8	98	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.4	104	10.6	106	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.9	109	11.1	111	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.8	108	10.9	109	1	70-130/30
127-18-4	Tetrachloroethylene	10	10.6	106	10.6	106	0	70-130/30
108-88-3	Toluene	10	10	100	9.9	99	1	70-130/30
79-01-6	Trichloroethylene	10	9.8	98	9.8	98	0	70-130/30
75-69-4	Trichlorofluoromethane	10	10.0	100	10.1	101	1	70-130/30
75-01-4	Vinyl chloride	10	9.8	98	9.7	97	1	70-130/30
108-05-4	Vinyl Acetate	10	9.7	97	9.6	96	1	70-130/30
	m,p-Xylene	20	20.9	105	20.9	105	0	70-130/30
95-47-6	o-Xylene	10	10.4	104	10.5	105	1	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	98%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD38291-2DUP	5W47616.D	1	01/27/22	TCH	n/a	n/a	V5W1967
JD38291-2	5W47615.D	1	01/27/22	TCH	n/a	n/a	V5W1967

The QC reported here applies to the following samples: **Method:** TO-15

JD38291-2R, JD38291-3R, JD38291-6R, JD38291-7R, JD38291-8R, JD38291-9R, JD38291-10R, JD38291-11R, JD38291-12R, JD38291-14R, JD38291-15R

CAS No.	Compound	JD38291-2 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	1.7		1.7		0	25
106-99-0	1,3-Butadiene	0.80 U		ND		nc	25
71-43-2	Benzene	0.80 U		ND		nc	25
75-27-4	Bromodichloromethane	0.40 U		ND		nc	25
75-25-2	Bromoform	0.16 U		ND		nc	25
74-83-9	Bromomethane	0.80 U		ND		nc	25
100-44-7	Benzyl Chloride	0.80 U		ND		nc	25
75-15-0	Carbon disulfide	0.80 U		ND		nc	25
108-90-7	Chlorobenzene	0.80 U		ND		nc	25
75-00-3	Chloroethane	0.80 U		ND		nc	25
67-66-3	Chloroform	0.80 U		ND		nc	25
74-87-3	Chloromethane	0.38	J	0.39	J	3	25
56-23-5	Carbon tetrachloride	0.16 U		ND		nc	25
75-34-3	1,1-Dichloroethane	0.80 U		ND		nc	25
75-35-4	1,1-Dichloroethylene	0.16 U		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	0.40 U		ND		nc	25
107-06-2	1,2-Dichloroethane	0.80 U		ND		nc	25
78-87-5	1,2-Dichloropropane	0.80 U		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.44	J	0.44	J	0	25
124-48-1	Dibromochloromethane	0.40 U		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	0.80 U		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	0.16 U		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	0.80 U		ND		nc	25
541-73-1	m-Dichlorobenzene	0.40 U		ND		nc	25
95-50-1	o-Dichlorobenzene	0.16 U		ND		nc	25
106-46-7	p-Dichlorobenzene	0.40 U		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	0.80 U		ND		nc	25
100-41-4	Ethylbenzene	0.79	J	0.75	J	5	25
622-96-8	4-Ethyltoluene	0.80 U		ND		nc	25
76-13-1	Freon 113	0.40 U		ND		nc	25
87-68-3	Hexachlorobutadiene	0.36 U		ND		nc	25
591-78-6	2-Hexanone	0.80 U		ND		nc	25
75-09-2	Methylene chloride	0.80 U		ND		nc	25
78-93-3	Methyl ethyl ketone	0.80 U		ND		nc	25
108-10-1	Methyl Isobutyl Ketone	0.80 U		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	0.80 U		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD38291-2DUP	5W47616.D	1	01/27/22	TCH	n/a	n/a	V5W1967
JD38291-2	5W47615.D	1	01/27/22	TCH	n/a	n/a	V5W1967

The QC reported here applies to the following samples: **Method:** TO-15

JD38291-2R, JD38291-3R, JD38291-6R, JD38291-7R, JD38291-8R, JD38291-9R, JD38291-10R, JD38291-11R, JD38291-12R, JD38291-14R, JD38291-15R

CAS No.	Compound	JD38291-2 ppbv	Q	DUP ppbv	Q	RPD	Limits
91-20-3	Naphthalene	0.80 U		ND		nc	25
100-42-5	Styrene	0.80 U		ND		nc	25
71-55-6	1,1,1-Trichloroethane	0.40 U		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	0.40 U		ND		nc	25
79-00-5	1,1,2-Trichloroethane	0.40 U		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	0.40 U		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	0.80 U		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	0.80 U		ND		nc	25
127-18-4	Tetrachloroethylene	0.16 U		ND		nc	25
108-88-3	Toluene	0.50	J	0.47	J	6	25
79-01-6	Trichloroethylene	0.40		0.39		3	25
75-69-4	Trichlorofluoromethane	0.40 U		ND		nc	25
75-01-4	Vinyl chloride	0.16 U		ND		nc	25
108-05-4	Vinyl Acetate	0.80 U		ND		nc	25
	m,p-Xylene	3.6		3.5		3	25
95-47-6	o-Xylene	1.5		1.4		7	25

CAS No.	Surrogate Recoveries	DUP	JD38291-2	Limits
460-00-4	4-Bromofluorobenzene	93%	95%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD38683-5DUP	2W57484.D	1	01/28/22	TCH	n/a	n/a	V2W2558
JD38683-5	2W57483.D	1	01/28/22	TCH	n/a	n/a	V2W2558

The QC reported here applies to the following samples: **Method:** TO-15

JD38291-4R, JD38291-16R, JD38291-18R, JD38291-19R

CAS No.	Compound	JD38683-5 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	2.7		2.9		7	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	0.24		0.25		4	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	0.58		0.63		8	25
56-23-5	Carbon tetrachloride	0.069		0.076	J	10	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.50		0.51		2	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	0.31		0.29		7	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
100-41-4	Ethylbenzene	ND		ND		nc	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25
76-13-1	Freon 113	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
591-78-6	2-Hexanone	ND		ND		nc	25
75-09-2	Methylene chloride	0.38		0.60		45* [a]	25
78-93-3	Methyl ethyl ketone	0.53		0.52		2	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD38683-5DUP	2W57484.D	1	01/28/22	TCH	n/a	n/a	V2W2558
JD38683-5	2W57483.D	1	01/28/22	TCH	n/a	n/a	V2W2558

The QC reported here applies to the following samples: **Method:** TO-15

JD38291-4R, JD38291-16R, JD38291-18R, JD38291-19R

CAS No.	Compound	JD38683-5 ppbv	Q	DUP ppbv	Q	RPD	Limits
91-20-3	Naphthalene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
127-18-4	Tetrachloroethylene	0.27		0.24		12	25
108-88-3	Toluene	0.44		0.44		0	25
79-01-6	Trichloroethylene	0.11		0.11		0	25
75-69-4	Trichlorofluoromethane	0.29		0.31		7	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	0.14		0.14	J	0	25
95-47-6	o-Xylene	ND		ND		nc	25

CAS No.	Surrogate Recoveries	DUP	JD38683-5	Limits
460-00-4	4-Bromofluorobenzene	102%	102%	65-128%

(a) High RPD due to low concentration of hit

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2532-SCC	2W56868.D	1	12/23/21	TCH	n/a	n/a	V2W2532

The QC reported here (Summa A1302) applies to the following samples: **Method:** TO-15

Batch CP11485 cleaned 12/20/21: JD38291-16R(A774)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.037	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.038	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3

Summa Cleaning Certification

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2532-SCC	2W56868.D	1	12/23/21	TCH	n/a	n/a	V2W2532

The QC reported here (Summa A1302) applies to the following samples: **Method:** TO-15

Batch CP11485 cleaned 12/20/21: JD38291-16R(A774)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
91-20-3	Naphthalene	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	97%	65-128%

Summa Cleaning Certification

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2534-SCC	2W56908.D	1	12/27/21	TCH	n/a	n/a	V2W2534

The QC reported here (Summa A473) applies to the following samples: **Method:** TO-15

Batch CP11487 cleaned 12/21/21: JD38291-4R(A889), JD38291-9R(A341), JD38291-19R(A832)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.037	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.038	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3

Summa Cleaning Certification

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2534-SCC	2W56908.D	1	12/27/21	TCH	n/a	n/a	V2W2534

The QC reported here (Summa A473) applies to the following samples: **Method:** TO-15

Batch CP11487 cleaned 12/21/21: JD38291-4R(A889), JD38291-9R(A341), JD38291-19R(A832)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
91-20-3	Naphthalene	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	65-128%

Summa Cleaning Certification

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2535-SCC	2W56955.D	1	12/29/21	TCH	n/a	n/a	V2W2535

The QC reported here (Summa A1329) applies to the following samples: **Method:** TO-15

Batch CP11486 cleaned 12/21/21: JD38291-6R(A890), JD38291-8R(A864), JD38291-18R(A183)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.037	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.038	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3

Summa Cleaning Certification

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2535-SCC	2W56955.D	1	12/29/21	TCH	n/a	n/a	V2W2535

The QC reported here (Summa A1329) applies to the following samples: **Method:** TO-15

Batch CP11486 cleaned 12/21/21: JD38291-6R(A890), JD38291-8R(A864), JD38291-18R(A183)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
91-20-3	Naphthalene	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	97%	65-128%

Summa Cleaning Certification

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2539-SCC	2W57064.D	1	01/05/22	DFT	n/a	n/a	V2W2539

The QC reported here (Summa A633) applies to the following samples: **Method:** TO-15

Batch CP11499 cleaned 12/30/21: JD38291-2R(A667), JD38291-3R(M253), JD38291-7R(A1051), JD38291-10R(A184), JD38291-11R(A813), JD38291-12R(A1168), JD38291-14R(A454), JD38291-15R(A443)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.037	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.038	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3

Summa Cleaning Certification

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2539-SCC	2W57064.D	1	01/05/22	DFT	n/a	n/a	V2W2539

The QC reported here (Summa A633) applies to the following samples: **Method:** TO-15

Batch CP11499 cleaned 12/30/21: JD38291-2R(A667), JD38291-3R(M253), JD38291-7R(A1051), JD38291-10R(A184), JD38291-11R(A813), JD38291-12R(A1168), JD38291-14R(A454), JD38291-15R(A443)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
91-20-3	Naphthalene	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

Instrument Performance Check (BFB)

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2529-BFB
Lab File ID: 2W56779.D
Instrument ID: GCMS2W
Injection Date: 12/20/21
Injection Time: 11:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	7587	14.3		Pass
75	30.0 - 66.0% of mass 95	22773	42.9		Pass
95	Base peak, 100% relative abundance	53043	100.0		Pass
96	5.0 - 9.0% of mass 95	3576	6.74		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	44629	84.1		Pass
175	4.0 - 9.01% of mass 174	3123	5.89	(7.00) [a]	Pass
176	93.0 - 101.0% of mass 174	42872	80.8	(96.1) [a]	Pass
177	5.0 - 9.0% of mass 176	2829	5.33	(6.60) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2529-IC2529	2W56780.D	12/20/21	12:01	00:37	Initial cal 0.5
V2W2529-IC2529	2W56781.D	12/20/21	12:37	01:13	Initial cal 0.2
V2W2529-IC2529	2W56782.D	12/20/21	13:12	01:48	Initial cal 0.1
V2W2529-IC2529	2W56783.D	12/20/21	13:48	02:24	Initial cal 0.04
V2W2529-IC2529	2W56784.D	12/20/21	14:23	02:59	Initial cal 5
V2W2529-ICC2529	2W56785.D	12/20/21	14:59	03:35	Initial cal 10
V2W2529-IC2529	2W56786.D	12/20/21	15:36	04:12	Initial cal 20
V2W2529-IC2529	2W56787.D	12/20/21	16:18	04:54	Initial cal 40
V2W2529-IC2529	2W56788.D	12/20/21	17:01	05:37	Initial cal 50
V2W2529-ICV2529	2W56791.D	12/20/21	18:48	07:24	Initial cal verification 10
V2W2530-BS	2W56793.D	12/20/21	19:58	08:34	Blank Spike
V2W2530-BSD	2W56794.D	12/20/21	20:35	09:11	Blank Spike Duplicate
V2W2530-MB	2W56796.D	12/20/21	21:51	10:27	Method Blank
JD36666-9	2W56797.D	12/20/21	22:27	11:03	(used for QC only; not part of job JD38291R)
JD36666-9DUP	2W56798.D	12/20/21	23:04	11:40	Duplicate
ZZZZZZ	2W56799.D	12/20/21	23:40	12:16	(unrelated sample)
ZZZZZZ	2W56800.D	12/21/21	00:16	12:52	(unrelated sample)
ZZZZZZ	2W56801.D	12/21/21	00:51	13:27	(unrelated sample)
ZZZZZZ	2W56802.D	12/21/21	01:27	14:03	(unrelated sample)
ZZZZZZ	2W56803.D	12/21/21	02:03	14:39	(unrelated sample)
ZZZZZZ	2W56804.D	12/21/21	02:39	15:15	(unrelated sample)
ZZZZZZ	2W56805.D	12/21/21	03:16	15:52	(unrelated sample)
ZZZZZZ	2W56806.D	12/21/21	03:53	16:29	(unrelated sample)
ZZZZZZ	2W56807.D	12/21/21	04:30	17:06	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample:	V2W2529-BFB	**Injection Date:**	12/20/21
Lab File ID:	2W56779.D	**Injection Time:**	11:24
Instrument ID:	GCMS2W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2W56808.D	12/21/21	05:05	17:41	(unrelated sample)
ZZZZZZ	2W56809.D	12/21/21	05:41	18:17	(unrelated sample)
ZZZZZZ	2W56810.D	12/21/21	06:19	18:55	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2532-BFB
Lab File ID: 2W56842.D
Instrument ID: GCMS2W
Injection Date: 12/22/21
Injection Time: 06:54

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	6927	13.1		Pass
75	30.0 - 66.0% of mass 95	22573	42.7		Pass
95	Base peak, 100% relative abundance	52877	100.0		Pass
96	5.0 - 9.0% of mass 95	3580	6.77		Pass
173	Less than 2.0% of mass 174	222	0.42	(0.47) [a]	Pass
174	50.0 - 120.0% of mass 95	46744	88.4		Pass
175	4.0 - 9.01% of mass 174	3390	6.41	(7.25) [a]	Pass
176	93.0 - 101.0% of mass 174	45227	85.5	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	2994	5.66	(6.62) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2532-CC2529	2W56843.D	12/22/21	07:30	00:36	Continuing cal 10
V2W2532-BS	2W56844.D	12/22/21	08:12	01:18	Blank Spike
V2W2532-BSD	2W56845.D	12/22/21	08:47	01:53	Blank Spike Duplicate
V2W2532-MB	2W56847.D	12/22/21	10:13	03:19	Method Blank
V2W2532-SCC	2W56848.D	12/22/21	11:17	04:23	Summa Cleaning Certification
V2W2532-SCC	2W56849.D	12/22/21	11:59	05:05	Summa Cleaning Certification
ZZZZZZ	2W56850.D	12/22/21	13:52	06:58	(unrelated sample)
ZZZZZZ	2W56851.D	12/22/21	14:31	07:37	(unrelated sample)
ZZZZZZ	2W56852.D	12/22/21	15:02	08:08	(unrelated sample)
ZZZZZZ	2W56854.D	12/22/21	16:15	09:21	(unrelated sample)
JD36677-1	2W56855.D	12/22/21	16:51	09:57	(used for QC only; not part of job JD38291R)
JD36677-1DUP	2W56856.D	12/22/21	17:27	10:33	Duplicate
ZZZZZZ	2W56857.D	12/22/21	18:04	11:10	(unrelated sample)
ZZZZZZ	2W56858.D	12/22/21	18:39	11:45	(unrelated sample)
ZZZZZZ	2W56859.D	12/22/21	19:14	12:20	(unrelated sample)
ZZZZZZ	2W56860.D	12/22/21	19:51	12:57	(unrelated sample)
ZZZZZZ	2W56861.D	12/22/21	20:27	13:33	(unrelated sample)
ZZZZZZ	2W56862.D	12/22/21	21:03	14:09	(unrelated sample)
ZZZZZZ	2W56863.D	12/22/21	21:40	14:46	(unrelated sample)
ZZZZZZ	2W56864.D	12/22/21	22:22	15:28	(unrelated sample)
ZZZZZZ	2W56865.D	12/22/21	22:58	16:04	(unrelated sample)
ZZZZZZ	2W56866.D	12/22/21	23:34	16:40	(unrelated sample)
V2W2532-SCC	2W56867.D	12/23/21	00:16	17:22	Summa Cleaning Certification
V2W2532-SCC	2W56868.D	12/23/21	00:56	18:02	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2534-BFB
Lab File ID: 2W56902.D
Instrument ID: GCMS2W
Injection Date: 12/27/21
Injection Time: 07:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	7954	13.7		Pass
75	30.0 - 66.0% of mass 95	24971	43.1		Pass
95	Base peak, 100% relative abundance	58000	100.0		Pass
96	5.0 - 9.0% of mass 95	3938	6.79		Pass
173	Less than 2.0% of mass 174	309	0.53	(0.62) [a]	Pass
174	50.0 - 120.0% of mass 95	50187	86.5		Pass
175	4.0 - 9.01% of mass 174	3620	6.24	(7.21) [a]	Pass
176	93.0 - 101.0% of mass 174	48784	84.1	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	3158	5.44	(6.47) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2534-CC2529	2W56903.D	12/27/21	07:56	00:35	Continuing cal 10
V2W2534-BS	2W56904.D	12/27/21	09:06	01:45	Blank Spike
V2W2534-BSD	2W56905.D	12/27/21	09:42	02:21	Blank Spike Duplicate
V2W2534-MB	2W56907.D	12/27/21	11:06	03:45	Method Blank
V2W2534-SCC	2W56908.D	12/27/21	12:56	05:35	Summa Cleaning Certification
ZZZZZZ	2W56910.D	12/27/21	14:17	06:56	(unrelated sample)
ZZZZZZ	2W56911.D	12/27/21	15:03	07:42	(unrelated sample)
ZZZZZZ	2W56912.D	12/27/21	15:47	08:26	(unrelated sample)
ZZZZZZ	2W56913.D	12/27/21	16:30	09:09	(unrelated sample)
ZZZZZZ	2W56914.D	12/27/21	17:14	09:53	(unrelated sample)
ZZZZZZ	2W56915.D	12/27/21	17:58	10:37	(unrelated sample)
ZZZZZZ	2W56916.D	12/27/21	18:44	11:23	(unrelated sample)
JD36671-8	2W56917.D	12/27/21	19:28	12:07	(used for QC only; not part of job JD38291R)
JD36671-8DUP	2W56918.D	12/27/21	20:15	12:54	Duplicate
ZZZZZZ	2W56919.D	12/27/21	20:58	13:37	(unrelated sample)
ZZZZZZ	2W56920.D	12/27/21	21:41	14:20	(unrelated sample)
ZZZZZZ	2W56922.D	12/27/21	22:53	15:32	(unrelated sample)
ZZZZZZ	2W56924.D	12/28/21	00:04	16:43	(unrelated sample)
ZZZZZZ	2W56926.D	12/28/21	01:15	17:54	(unrelated sample)
ZZZZZZ	2W56927.D	12/28/21	01:51	18:30	(unrelated sample)
ZZZZZZ	2W56928.D	12/28/21	02:27	19:06	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2535-BFB
Lab File ID: 2W56929.D
Instrument ID: GCMS2W
Injection Date: 12/28/21
Injection Time: 07:11

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	7465	13.2		Pass
75	30.0 - 66.0% of mass 95	23925	42.3		Pass
95	Base peak, 100% relative abundance	56611	100.0		Pass
96	5.0 - 9.0% of mass 95	3778	6.67		Pass
173	Less than 2.0% of mass 174	119	0.21	(0.24) [a]	Pass
174	50.0 - 120.0% of mass 95	49485	87.4		Pass
175	4.0 - 9.01% of mass 174	3532	6.24	(7.14) [a]	Pass
176	93.0 - 101.0% of mass 174	48541	85.7	(98.1) [a]	Pass
177	5.0 - 9.0% of mass 176	3028	5.35	(6.24) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2535-CC2529	2W56930.D	12/28/21	07:47	00:36	Continuing cal 10
V2W2535-BS	2W56931.D	12/28/21	08:28	01:17	Blank Spike
V2W2535-BSD	2W56932.D	12/28/21	09:04	01:53	Blank Spike Duplicate
V2W2535-MB	2W56934.D	12/28/21	10:27	03:16	Method Blank
ZZZZZZ	2W56936.D	12/28/21	12:08	04:57	(unrelated sample)
ZZZZZZ	2W56937.D	12/28/21	12:55	05:44	(unrelated sample)
JD36669-2	2W56938.D	12/28/21	13:40	06:29	(used for QC only; not part of job JD38291R)
JD36669-2DUP	2W56939.D	12/28/21	14:27	07:16	Duplicate
ZZZZZZ	2W56940.D	12/28/21	15:11	08:00	(unrelated sample)
ZZZZZZ	2W56941.D	12/28/21	15:54	08:43	(unrelated sample)
ZZZZZZ	2W56942.D	12/28/21	16:37	09:26	(unrelated sample)
ZZZZZZ	2W56943.D	12/28/21	17:13	10:02	(unrelated sample)
ZZZZZZ	2W56944.D	12/28/21	17:49	10:38	(unrelated sample)
ZZZZZZ	2W56945.D	12/28/21	18:26	11:15	(unrelated sample)
ZZZZZZ	2W56946.D	12/28/21	19:01	11:50	(unrelated sample)
ZZZZZZ	2W56947.D	12/28/21	19:38	12:27	(unrelated sample)
ZZZZZZ	2W56948.D	12/28/21	20:15	13:04	(unrelated sample)
ZZZZZZ	2W56949.D	12/28/21	20:50	13:39	(unrelated sample)
ZZZZZZ	2W56950.D	12/28/21	21:27	14:16	(unrelated sample)
V2W2535-SCC	2W56952.D	12/28/21	22:39	15:28	Summa Cleaning Certification
V2W2535-SCC	2W56953.D	12/28/21	23:15	16:04	Summa Cleaning Certification
V2W2535-SCC	2W56954.D	12/28/21	23:51	16:40	Summa Cleaning Certification
V2W2535-SCC	2W56955.D	12/29/21	00:33	17:22	Summa Cleaning Certification
ZZZZZZ	2W56956.D	12/29/21	01:07	17:56	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample:	V2W2535-BFB	**Injection Date:**	12/28/21
Lab File ID:	2W56929.D	**Injection Time:**	07:11
Instrument ID:	GCMS2W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2W56957.D	12/29/21	01:43	18:32	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2539-BFB
Lab File ID: 2W57041.D
Instrument ID: GCMS2W
Injection Date: 01/04/22
Injection Time: 12:27

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	7603	13.7		Pass
75	30.0 - 66.0% of mass 95	23808	43.0		Pass
95	Base peak, 100% relative abundance	55333	100.0		Pass
96	5.0 - 9.0% of mass 95	3701	6.69		Pass
173	Less than 2.0% of mass 174	224	0.40	(0.45) [a]	Pass
174	50.0 - 120.0% of mass 95	49392	89.3		Pass
175	4.0 - 9.01% of mass 174	3451	6.24	(6.99) [a]	Pass
176	93.0 - 101.0% of mass 174	48059	86.9	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	3085	5.58	(6.42) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2539-CC2529	2W57042.D	01/04/22	13:03	00:36	Continuing cal 10
V2W2539-BS	2W57043.D	01/04/22	13:47	01:20	Blank Spike
V2W2539-BSD	2W57044.D	01/04/22	14:24	01:57	Blank Spike Duplicate
V2W2539-MB	2W57046.D	01/04/22	15:47	03:20	Method Blank
V2W2539-SCC	2W57047.D	01/04/22	16:28	04:01	Summa Cleaning Certification
ZZZZZZ	2W57048.D	01/04/22	17:05	04:38	(unrelated sample)
ZZZZZZ	2W57049.D	01/04/22	17:40	05:13	(unrelated sample)
ZZZZZZ	2W57050.D	01/04/22	18:15	05:48	(unrelated sample)
ZZZZZZ	2W57051.D	01/04/22	18:52	06:25	(unrelated sample)
ZZZZZZ	2W57054.D	01/04/22	20:40	08:13	(unrelated sample)
ZZZZZZ	2W57055.D	01/04/22	21:16	08:49	(unrelated sample)
ZZZZZZ	2W57056.D	01/04/22	21:52	09:25	(unrelated sample)
JD37430-7	2W57057.D	01/04/22	22:28	10:01	(used for QC only; not part of job JD38291R)
JD37430-7DUP	2W57058.D	01/04/22	23:05	10:38	Duplicate
ZZZZZZ	2W57059.D	01/04/22	23:42	11:15	(unrelated sample)
ZZZZZZ	2W57060.D	01/05/22	00:18	11:51	(unrelated sample)
ZZZZZZ	2W57061.D	01/05/22	00:54	12:27	(unrelated sample)
ZZZZZZ	2W57062.D	01/05/22	01:31	13:04	(unrelated sample)
ZZZZZZ	2W57063.D	01/05/22	02:08	13:41	(unrelated sample)
V2W2539-SCC	2W57064.D	01/05/22	02:49	14:22	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2558-BFB
Lab File ID: 2W57472.D
Instrument ID: GCMS2W
Injection Date: 01/28/22
Injection Time: 07:47

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	8490	15.8		Pass
75	30.0 - 66.0% of mass 95	24149	44.9		Pass
95	Base peak, 100% relative abundance	53840	100.0		Pass
96	5.0 - 9.0% of mass 95	3432	6.37		Pass
173	Less than 2.0% of mass 174	110	0.20	(0.25) [a]	Pass
174	50.0 - 120.0% of mass 95	44821	83.2		Pass
175	4.0 - 9.01% of mass 174	3367	6.25	(7.51) [a]	Pass
176	93.0 - 101.0% of mass 174	43712	81.2	(97.5) [a]	Pass
177	5.0 - 9.0% of mass 176	2993	5.56	(6.85) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2558-CC2529	2W57473.D	01/28/22	08:24	00:37	Continuing cal 10
V2W2558-BS	2W57474.D	01/28/22	09:43	01:56	Blank Spike
V2W2558-BSD	2W57475.D	01/28/22	10:20	02:33	Blank Spike Duplicate
V2W2558-MB	2W57477.D	01/28/22	11:41	03:54	Method Blank
ZZZZZZ	2W57478.D	01/28/22	12:46	04:59	(unrelated sample)
ZZZZZZ	2W57479.D	01/28/22	13:29	05:42	(unrelated sample)
ZZZZZZ	2W57480.D	01/28/22	14:12	06:25	(unrelated sample)
ZZZZZZ	2W57481.D	01/28/22	14:55	07:08	(unrelated sample)
ZZZZZZ	2W57482.D	01/28/22	15:37	07:50	(unrelated sample)
JD38683-5	2W57483.D	01/28/22	16:18	08:31	(used for QC only; not part of job JD38291R)
JD38683-5DUP	2W57484.D	01/28/22	17:00	09:13	Duplicate
ZZZZZZ	2W57485.D	01/28/22	17:42	09:55	(unrelated sample)
ZZZZZZ	2W57486.D	01/28/22	18:23	10:36	(unrelated sample)
ZZZZZZ	2W57487.D	01/28/22	19:05	11:18	(unrelated sample)
ZZZZZZ	2W57488.D	01/28/22	19:40	11:53	(unrelated sample)
ZZZZZZ	2W57489.D	01/28/22	20:17	12:30	(unrelated sample)
V2W2558-SCC	2W57490.D	01/28/22	20:57	13:10	Summa Cleaning Certification
V2W2558-SCC	2W57491.D	01/28/22	21:38	13:51	Summa Cleaning Certification
V2W2558-SCC	2W57492.D	01/28/22	22:19	14:32	Summa Cleaning Certification
ZZZZZZ	2W57493.D	01/28/22	23:00	15:13	(unrelated sample)
JD38291-4R	2W57493R.D	01/28/22	23:00	15:13	785-OA-1_011422
ZZZZZZ	2W57494.D	01/28/22	23:36	15:49	(unrelated sample)
JD38291-16R	2W57494R.D	01/28/22	23:36	15:49	776-VMP-3_011422
ZZZZZZ	2W57495.D	01/29/22	00:18	16:31	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample:	V2W2558-BFB	**Injection Date:**	01/28/22
Lab File ID:	2W57472.D	**Injection Time:**	07:47
Instrument ID:	GCMS2W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JD38291-18R	2W57495R.D	01/29/22	00:18	16:31	774-OA-1_011422
JD38291-19R	2W57496R.D	01/29/22	00:54	17:07	776-VMP-2_011422_A
ZZZZZZ	2W57496.D	01/29/22	00:54	17:07	(unrelated sample)
V2W2558-SCC	2W57497.D	01/29/22	01:36	17:49	Summa Cleaning Certification
V2W2558-ECC2529	2W57498.D	01/29/22	02:12	18:25	Ending cal 10

Instrument Performance Check (BFB)

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V5W1966-BFB
Lab File ID: 5W47591.D
Instrument ID: GCMS5W
Injection Date: 01/26/22
Injection Time: 13:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	33720	13.5		Pass
75	30.0 - 66.0% of mass 95	105641	42.4		Pass
95	Base peak, 100% relative abundance	249408	100.0		Pass
96	5.0 - 9.0% of mass 95	16495	6.61		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	212821	85.3		Pass
175	4.0 - 9.0% of mass 174	15472	6.20	(7.27) [a]	Pass
176	93.0 - 101.0% of mass 174	206613	82.8	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	13871	5.56	(6.71) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W1966-IC1966	5W47592.D	01/26/22	14:24	00:51	Initial cal 0.5
V5W1966-IC1966	5W47593.D	01/26/22	15:12	01:39	Initial cal 0.2
V5W1966-IC1966	5W47594.D	01/26/22	15:59	02:26	Initial cal 0.1
V5W1966-IC1966	5W47595.D	01/26/22	16:47	03:14	Initial cal 0.04
V5W1966-IC1966	5W47596.D	01/26/22	17:35	04:02	Initial cal 5
V5W1966-ICC1966	5W47597.D	01/26/22	18:24	04:51	Initial cal 10
V5W1966-IC1966	5W47598.D	01/26/22	19:14	05:41	Initial cal 20
V5W1966-IC1966	5W47599.D	01/26/22	20:07	06:34	Initial cal 40
V5W1966-IC1966	5W47600.D	01/26/22	21:03	07:30	Initial cal 50
V5W1966-ICV1966	5W47603.D	01/26/22	23:30	09:57	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V5W1967-BFB
Lab File ID: 5W47605.D
Instrument ID: GCMS5W
Injection Date: 01/27/22
Injection Time: 09:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	37171	13.4		Pass
75	30.0 - 66.0% of mass 95	116646	42.1		Pass
95	Base peak, 100% relative abundance	276971	100.0		Pass
96	5.0 - 9.0% of mass 95	18077	6.53		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	238635	86.2		Pass
175	4.0 - 9.0% of mass 174	17410	6.29	(7.30) [a]	Pass
176	93.0 - 101.0% of mass 174	232107	83.8	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	15161	5.47	(6.53) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W1967-CC1966	5W47608.D	01/27/22	11:42	02:38	Continuing cal 10
V5W1967-BS	5W47609.D	01/27/22	12:31	03:27	Blank Spike
V5W1967-BSD	5W47610.D	01/27/22	13:24	04:20	Blank Spike Duplicate
V5W1967-MB	5W47614.D	01/27/22	18:20	09:16	Method Blank
JD38291-2	5W47615.D	01/27/22	19:09	10:05	(used for QC only; not part of job JD38291R)
JD38291-2R	5W47615R.D	01/27/22	19:09	10:05	786-VMP-2_011422
JD38291-2DUP	5W47616.D	01/27/22	19:57	10:53	Duplicate
ZZZZZZ	5W47617.D	01/27/22	20:46	11:42	(unrelated sample)
JD38291-3R	5W47617R.D	01/27/22	20:46	11:42	786-VMP-3_011422
ZZZZZZ	5W47618.D	01/27/22	21:35	12:31	(unrelated sample)
JD38291-6R	5W47618R.D	01/27/22	21:35	12:31	785-VMP-2_011422
JD38291-7R	5W47619R.D	01/27/22	22:24	13:20	785-VMP-4_011422
ZZZZZZ	5W47619.D	01/27/22	22:24	13:20	(unrelated sample)
JD38291-8R	5W47620R.D	01/27/22	23:13	14:09	785-VMP-5_011422
ZZZZZZ	5W47620.D	01/27/22	23:13	14:09	(unrelated sample)
ZZZZZZ	5W47621.D	01/28/22	00:02	14:58	(unrelated sample)
JD38291-9R	5W47621R.D	01/28/22	00:02	14:58	785-VMP-2_011422-A
ZZZZZZ	5W47622.D	01/28/22	00:52	15:48	(unrelated sample)
JD38291-10R	5W47622R.D	01/28/22	00:52	15:48	774-VMP-1_011422
JD38291-11R	5W47623R.D	01/28/22	01:41	16:37	774-VMP-2_011422
ZZZZZZ	5W47623.D	01/28/22	01:41	16:37	(unrelated sample)
JD38291-12R	5W47624R.D	01/28/22	02:29	17:25	774-VMP-3_011422
ZZZZZZ	5W47624.D	01/28/22	02:29	17:25	(unrelated sample)
JD38291-14R	5W47625R.D	01/28/22	03:19	18:15	776-VMP-1_011422

Instrument Performance Check (BFB)

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample:	V5W1967-BFB	**Injection Date:**	01/27/22
Lab File ID:	5W47605.D	**Injection Time:**	09:04
Instrument ID:	GCMS5W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5W47625.D	01/28/22	03:19	18:15	(unrelated sample)
ZZZZZZ	5W47626.D	01/28/22	04:07	19:03	(unrelated sample)
JD38291-15R	5W47626R.D	01/28/22	04:07	19:03	776-VMP-2_011422
V5W1967-ECC1966	5W47627.D	01/28/22	04:56	19:52	Ending cal 10

Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Check Std:	V2W2532-CC2529	**Injection Date:**	12/22/21
Lab File ID:	2W56843.D	**Injection Time:**	07:30
Instrument ID:	GCMS2W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	55812	3.66	290353	4.99	251523	10.70
Upper Limit [a]	78137	3.99	406494	5.32	352132	11.03
Lower Limit [b]	33487	3.33	174212	4.66	150914	10.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V2W2532-BS	54604	3.66	281960	4.99	244236	10.70
V2W2532-BSD	55307	3.66	286749	4.99	248280	10.70
V2W2532-MB	55008	3.65	284075	4.99	246585	10.70
V2W2532-SCC	56767	3.65	291724	4.99	250506	10.70
V2W2532-SCC	57188	3.65	293987	4.99	252240	10.70
ZZZZZZ	56400	3.66	290123	4.99	247372	10.70
ZZZZZZ	55654	3.66	290043	4.99	250696	10.70
ZZZZZZ	54793	3.65	283859	4.99	248747	10.70
ZZZZZZ	54456	3.65	285508	4.99	248013	10.70
JD36677-1	56873	3.66	293898	5.00	253843	10.70
JD36677-1DUP	55016	3.66	284902	4.99	245914	10.70
ZZZZZZ	55709	3.66	288521	5.00	250506	10.70
ZZZZZZ	55287	3.66	284694	4.99	247026	10.70
ZZZZZZ	55511	3.66	287070	4.99	247900	10.70
ZZZZZZ	58374	3.69	302787	5.02	258335	10.71
ZZZZZZ	55015	3.68	287386	5.02	247637	10.71
ZZZZZZ	55661	3.66	289546	5.00	249729	10.70
ZZZZZZ	57236	3.68	297148	5.02	257768	10.71
ZZZZZZ	54558	3.65	280545	4.99	242032	10.70
ZZZZZZ	55619	3.66	289423	5.00	248979	10.70
ZZZZZZ	55306	3.66	284422	5.00	245308	10.70
V2W2532-SCC	55203	3.65	281708	4.99	242083	10.70
V2W2532-SCC	56164	3.65	285402	4.99	245640	10.70

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Check Std:	V2W2534-CC2529	**Injection Date:**	12/27/21
Lab File ID:	2W56903.D	**Injection Time:**	07:56
Instrument ID:	GCMS2W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	59251	3.65	308504	4.99	265201	10.70
Upper Limit [a]	82951	3.98	431906	5.32	371281	11.03
Lower Limit [b]	35551	3.32	185102	4.66	159121	10.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V2W2534-BS	58235	3.65	303911	4.99	261524	10.70
V2W2534-BSD	57439	3.65	297379	4.99	259857	10.70
V2W2534-MB	56796	3.65	294006	4.99	253021	10.70
V2W2534-SCC	63064	3.65	322140	4.99	276867	10.69
ZZZZZZ	61036	3.65	319248	4.99	274827	10.70
ZZZZZZ	59106	3.66	307223	4.99	266027	10.70
ZZZZZZ	58729	3.65	305013	4.99	262536	10.70
ZZZZZZ	58854	3.65	306990	4.99	264888	10.70
ZZZZZZ	60292	3.65	311816	4.99	270376	10.70
ZZZZZZ	59020	3.66	305693	5.00	265086	10.70
ZZZZZZ	59532	3.66	308102	4.99	267927	10.70
JD36671-8	59253	3.65	306690	4.99	265586	10.70
JD36671-8DUP	59026	3.66	303402	4.99	263718	10.70
ZZZZZZ	58720	3.65	304127	4.99	263484	10.70
ZZZZZZ	59869	3.66	309587	4.99	268130	10.70
ZZZZZZ	59482	3.67	311567	5.01	268808	10.71
ZZZZZZ	59696	3.66	307558	4.99	263896	10.70
ZZZZZZ	59404	3.66	304856	4.99	263682	10.70
ZZZZZZ	59599	3.66	306487	5.00	265678	10.70
ZZZZZZ	60148	3.66	307405	5.00	266215	10.70

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Check Std:	V2W2535-CC2529	**Injection Date:**	12/28/21
Lab File ID:	2W56930.D	**Injection Time:**	07:47
Instrument ID:	GCMS2W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	59629	3.65	311896	4.99	268693	10.70
Upper Limit [a]	83481	3.98	436654	5.32	376170	11.03
Lower Limit [b]	35777	3.32	187138	4.66	161216	10.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V2W2535-BS	59807	3.65	310292	4.99	264224	10.70
V2W2535-BSD	58289	3.65	304457	4.99	260206	10.71
V2W2535-MB	60529	3.66	308878	4.99	265466	10.70
ZZZZZZ	59439	3.66	307028	4.99	263340	10.70
ZZZZZZ	57945	3.66	302404	4.99	260772	10.70
JD36669-2	58440	3.65	303421	4.99	259887	10.70
JD36669-2DUP	57746	3.65	303152	4.99	259888	10.70
ZZZZZZ	58250	3.66	299398	4.99	257385	10.70
ZZZZZZ	57507	3.65	300932	4.99	258059	10.70
ZZZZZZ	57619	3.65	299546	4.99	256780	10.70
ZZZZZZ	61806	3.67	318251	5.01	272764	10.71
ZZZZZZ	60367	3.67	307236	5.00	262713	10.71
ZZZZZZ	59802	3.67	307671	5.00	261622	10.71
ZZZZZZ	59846	3.66	306243	5.00	261391	10.70
ZZZZZZ	57547	3.66	296035	4.99	254775	10.70
ZZZZZZ	61937	3.67	319434	5.01	270395	10.71
ZZZZZZ	60885	3.68	311411	5.01	266617	10.71
ZZZZZZ	61509	3.68	313730	5.01	269699	10.71
V2W2535-SCC	59697	3.65	302126	4.99	259442	10.70
V2W2535-SCC	60439	3.66	306759	4.99	262045	10.70
V2W2535-SCC	60977	3.66	312081	4.99	267210	10.70
V2W2535-SCC	60920	3.65	309536	4.99	264989	10.70
ZZZZZZ	58006	3.66	297314	5.00	256447	10.70
ZZZZZZ	58897	3.66	304007	5.00	259401	10.70

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Check Std:	V2W2539-CC2529	**Injection Date:**	01/04/22
Lab File ID:	2W57042.D	**Injection Time:**	13:03
Instrument ID:	GCMS2W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	57080	3.65	301464	4.99	262929	10.70
Upper Limit [a]	79912	3.98	422050	5.32	368101	11.03
Lower Limit [b]	34248	3.32	180878	4.66	157757	10.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V2W2539-BS	56851	3.65	300640	4.99	261223	10.70
V2W2539-BSD	56477	3.65	300245	4.99	258576	10.70
V2W2539-MB	57415	3.65	301506	4.98	265117	10.70
V2W2539-SCC	60728	3.65	315895	4.99	271116	10.70
ZZZZZZ	56696	3.66	300431	4.99	260279	10.70
ZZZZZZ	52270	3.65	271072	4.99	237872	10.70
ZZZZZZ	56442	3.66	300071	4.99	259887	10.70
ZZZZZZ	57293	3.65	303422	4.99	260318	10.70
ZZZZZZ	56303	3.66	301080	5.00	261942	10.70
ZZZZZZ	55012	3.65	295026	4.99	254142	10.70
ZZZZZZ	55588	3.66	294623	4.99	255275	10.70
JD37430-7	54433	3.66	291534	4.99	253038	10.70
JD37430-7DUP	54504	3.65	291432	4.99	253476	10.70
ZZZZZZ	55545	3.65	293700	4.99	255539	10.70
ZZZZZZ	54096	3.65	289012	4.99	254300	10.70
ZZZZZZ	56826	3.65	301518	4.99	262287	10.70
ZZZZZZ	55053	3.66	291187	4.99	253447	10.70
ZZZZZZ	54920	3.66	293491	4.99	253770	10.70
V2W2539-SCC	60133	3.65	306687	4.99	264859	10.70

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Check Std:	V2W2558-CC2529	**Injection Date:**	01/28/22
Lab File ID:	2W57473.D	**Injection Time:**	08:24
Instrument ID:	GCMS2W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	50618	3.65	275549	4.99	243637	10.70
Upper Limit [a]	70865	3.98	385769	5.32	341092	11.03
Lower Limit [b]	30371	3.32	165329	4.66	146182	10.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V2W2558-BS	50546	3.66	274231	4.99	242407	10.70
V2W2558-BSD	48598	3.65	265990	4.99	237291	10.70
V2W2558-MB	49469	3.65	269248	4.99	242256	10.70
ZZZZZZ	49267	3.66	268333	4.99	232043	10.70
ZZZZZZ	49096	3.66	262811	4.99	236229	10.70
ZZZZZZ	48772	3.66	263394	4.99	235351	10.70
ZZZZZZ	49043	3.66	266831	4.99	236987	10.70
ZZZZZZ	49762	3.66	268526	4.99	238731	10.70
JD38683-5	50028	3.66	268373	4.99	239363	10.70
JD38683-5DUP	48414	3.66	261336	4.99	232651	10.70
ZZZZZZ	48993	3.66	267914	4.99	238184	10.70
ZZZZZZ	48450	3.65	263481	4.99	233915	10.70
ZZZZZZ	47504	3.66	260441	4.99	230851	10.70
ZZZZZZ	48732	3.66	265128	4.99	236187	10.70
ZZZZZZ	48753	3.66	265940	4.99	236808	10.70
V2W2558-SCC	47963	3.65	263988	4.99	235902	10.70
V2W2558-SCC	48121	3.65	263752	4.99	236642	10.70
V2W2558-SCC	48345	3.65	264225	4.99	239301	10.70
ZZZZZZ	48460	3.66	264225	4.99	235172	10.70
JD38291-4R	48460	3.66	264225	4.99	235172	10.70
ZZZZZZ	47679	3.66	263852	4.99	233520	10.70
JD38291-16R	47679	3.66	263852	4.99	233520	10.70
ZZZZZZ	48446	3.66	264337	4.99	235928	10.70
JD38291-18R	48446	3.66	264337	4.99	235928	10.70
JD38291-19R	48152	3.66	266242	5.00	238137	10.70
ZZZZZZ	48152	3.66	266242	5.00	238137	10.70
V2W2558-SCC	48170	3.66	265612	4.99	238109	10.70
V2W2558-ECC2529	48025	3.66	261284	4.99	231961	10.70

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Check Std:	V5W1967-CC1966	**Injection Date:**	01/27/22
Lab File ID:	5W47608.D	**Injection Time:**	11:42
Instrument ID:	GCMS5W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	224002	11.34	837114	13.54	380509	18.80
Upper Limit [a]	313603	11.67	1171960	13.87	532713	19.13
Lower Limit [b]	134401	11.01	502268	13.21	228305	18.47

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W1967-BS	220196	11.34	817917	13.54	379794	18.80
V5W1967-BSD	224915	11.34	840225	13.54	384851	18.80
V5W1967-MB	252778	11.34	982355	13.53	438882	18.80
JD38291-2	227707	11.34	891821	13.53	406084	18.80
JD38291-2R	227707	11.34	891821	13.53	406084	18.80
JD38291-2DUP	234594	11.34	924579	13.53	424603	18.80
JD38291-3R	233754	11.34	919543	13.53	422981	18.80
ZZZZZZ	233754	11.34	919543	13.53	422981	18.80
JD38291-6R	235393	11.34	925495	13.53	422830	18.80
ZZZZZZ	235393	11.34	925495	13.53	422830	18.80
JD38291-7R	236895	11.34	929318	13.53	434565	18.80
ZZZZZZ	236895	11.34	929318	13.53	434565	18.80
ZZZZZZ	235999	11.34	927197	13.53	423789	18.80
JD38291-8R	235999	11.34	927197	13.53	423789	18.80
JD38291-9R	234026	11.34	934407	13.53	432842	18.80
ZZZZZZ	234026	11.34	934407	13.53	432842	18.80
ZZZZZZ	238618	11.34	942471	13.53	433749	18.80
JD38291-10R	238618	11.34	942471	13.53	433749	18.80
ZZZZZZ	232770	11.34	918888	13.53	429719	18.80
JD38291-11R	232770	11.34	918888	13.53	429719	18.80
ZZZZZZ	231528	11.34	911992	13.54	428425	18.80
JD38291-12R	231528	11.34	911992	13.54	428425	18.80
ZZZZZZ	236106	11.34	933575	13.53	441437	18.80
JD38291-14R	236106	11.34	933575	13.53	441437	18.80
ZZZZZZ	233831	11.34	930885	13.53	445860	18.80
JD38291-15R	233831	11.34	930885	13.53	445860	18.80
V5W1967-ECC1966	229471	11.34	876020	13.54	422500	18.80

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.47	3.64	0.679	ok	0.678	0.618-0.738
Acrolein	2.43	3.64	0.668	ok	0.667	0.607-0.727
Acrylonitrile	2.61	3.64	0.717	ok	0.717	0.657-0.777
Acetonitrile	2.39	3.64	0.657	ok	0.655	0.595-0.715
1,3-Butadiene	2.11	3.64	0.580	ok	0.577	0.517-0.637
Benzene	4.65	3.64	1.277	ok	1.275	1.215-1.335
Bromobenzene	14.43	10.70	1.349	ok	1.350	1.290-1.410
Bromodichloromethane	5.52	4.98	1.108	ok	1.109	1.049-1.169
Bromoform	11.91	10.70	1.113	ok	1.114	1.054-1.174
Bromomethane	2.20	3.64	0.604	ok	0.604	0.544-0.664
Bromoethene	2.40	3.64	0.659	ok	0.657	0.597-0.717
n-Butane	2.13	3.64	0.585	ok	0.583	0.523-0.643
Benzyl Chloride	16.90	10.70	1.579	ok	1.580	1.520-1.640
n-Butylbenzene	17.60	10.70	1.645	ok	1.645	1.585-1.705
sec-Butylbenzene	17.08	10.70	1.596	ok	1.597	1.537-1.657
tert-Butylbenzene	16.81	10.70	1.571	ok	1.571	1.511-1.631
Carbon disulfide	2.86	3.64	0.786	ok	0.785	0.725-0.845
Chlorobenzene	10.78	10.70	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.88	3.64	0.516	ok	0.515	0.455-0.575
Chloroethane	2.27	3.64	0.624	ok	0.622	0.562-0.682
Chlorotrifluoroethene	1.89	3.64	0.519	ok	0.519	0.459-0.579
Chloroform	3.72	3.64	1.022	ok	1.022	0.962-1.082
Chloromethane	1.98	3.64	0.544	ok	0.541	0.481-0.601
3-Chloropropene	2.80	3.64	0.769	ok	0.769	0.709-0.829
2-Chlorotoluene	15.57	10.70	1.455	ok	1.456	1.396-1.516
Carbon tetrachloride	4.76	3.64	1.308	ok	1.308	1.248-1.368
Cyclohexane	4.87	4.98	0.978	ok	0.977	0.917-1.037
1,1-Dichloroethane	3.18	3.64	0.874	ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.73	3.64	0.750	ok	0.749	0.689-0.809
1,2-Dibromoethane (EDB)	8.68	4.98	1.743	ok	1.744	1.684-1.804
1,2-Dichloroethane	4.15	3.64	1.140	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.34	4.98	1.072	ok	1.072	1.012-1.132
1,3-Dichloropropane	7.85	4.98	1.576	ok	1.575	1.515-1.635
1,4-Dioxane	5.61	4.98	1.127	ok	1.124	1.064-1.184
Dichlorodifluoromethane	1.91	3.64	0.525	ok	0.525	0.465-0.585
Dichlorofluoromethane	2.30	3.64	0.632	ok	0.631	0.571-0.691
Dibromochloromethane	8.33	4.98	1.673	ok	1.673	1.613-1.733
Dibromomethane	5.30	4.98	1.064	ok	1.064	1.004-1.124
trans-1,2-Dichloroethylene	3.10	3.64	0.852	ok	0.850	0.790-0.910

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.56	3.64	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.55	4.98	1.315	ok	1.314	1.254-1.374
m-Dichlorobenzene	16.87	10.70	1.577	ok	1.577	1.517-1.637
o-Dichlorobenzene	17.25	10.70	1.612	ok	1.612	1.552-1.672
p-Dichlorobenzene	16.96	10.70	1.585	ok	1.585	1.525-1.645
trans-1,3-Dichloropropene	7.24	4.98	1.454	ok	1.454	1.394-1.514
Di-Isopropyl ether	3.70	3.64	1.016	ok	1.015	0.955-1.075
2,3-Dimethylpentane	5.13	4.98	1.030	ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.24	3.64	1.165	ok	1.163	1.103-1.223
Ethanol	2.31	3.64	0.635	ok	0.633	0.573-0.693
Ethylbenzene	11.67	10.70	1.091	ok	1.091	1.031-1.151
Ethyl Acetate	3.71	3.64	1.019	ok	1.017	0.957-1.077
Ethyl Acrylate	5.46	4.98	1.096	ok	1.097	1.037-1.157
4-Ethyltoluene	16.23	10.70	1.517	ok	1.517	1.457-1.577
Freon 113	2.86	3.64	0.786	ok	0.785	0.725-0.845
Freon 114	2.01	3.64	0.552	ok	0.551	0.491-0.611
Freon 123	2.45	3.64	0.673	ok	0.671	0.611-0.731
Freon 123A	2.46	3.64	0.676	ok	0.676	0.616-0.736
Freon 142B	1.97	3.64	0.541	ok	0.539	0.479-0.599
Freon 152A	1.87	3.64	0.514	ok	0.511	0.451-0.571
Heptane	6.01	4.98	1.207	ok	1.206	1.146-1.266
Hexachlorobutadiene	18.82	10.70	1.759	ok	1.759	1.699-1.819
Hexachloroethane	17.78	10.70	1.662	ok	1.662	1.602-1.722
Hexane	3.70	3.64	1.016	ok	1.015	0.955-1.075
2-Hexanone	8.36	4.98	1.679	ok	1.679	1.619-1.739
Iodomethane	2.70	3.64	0.742	ok	0.741	0.681-0.801
Isopropylbenzene	14.56	10.70	1.361	ok	1.362	1.302-1.422
Isopropyl Alcohol	2.55	3.64	0.701	ok	0.699	0.639-0.759
p-Isopropyltoluene	17.26	10.70	1.613	ok	1.613	1.553-1.673
Methylene chloride	2.77	3.64	0.761	ok	0.759	0.699-0.819
Methyl ethyl ketone	3.36	3.64	0.923	ok	0.922	0.862-0.982
Methyl Isobutyl Ketone	6.66	4.98	1.337	ok	1.335	1.275-1.395
Methyl Tert Butyl Ether	3.22	3.64	0.885	ok	0.883	0.823-0.943
Methylmethacrylate	5.90	4.98	1.185	ok	1.184	1.124-1.244
Naphthalene	18.56	10.70	1.735	ok	1.735	1.675-1.795
Nonane	14.15	10.70	1.322	ok	1.323	1.263-1.383
Octane	9.69	4.98	1.946	ok	1.945	1.885-2.005
Pentane	2.65	3.64	0.728	ok	0.725	0.665-0.785
n-Propylbenzene	15.91	10.70	1.487	ok	1.487	1.427-1.547

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.89	3.64	0.519	ok	0.518	0.458-0.578
Styrene	12.83	10.70	1.199	ok	1.199	1.139-1.259
1,1,1-Trichloroethane	4.32	3.64	1.187	ok	1.187	1.127-1.247
1,1,1,2-Tetrachloroethane	10.78	10.70	1.007	ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.05	10.70	1.220	ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.41	4.98	1.488	ok	1.487	1.427-1.547
1,2,4-Trichlorobenzene	18.51	10.70	1.730	ok	1.730	1.670-1.790
1,2,3-Trichloropropane	13.33	10.70	1.246	ok	1.246	1.186-1.306
1,2,3-Trimethylbenzene	17.19	10.70	1.607	ok	1.607	1.547-1.667
1,2,4-Trimethylbenzene	16.82	10.70	1.572	ok	1.572	1.512-1.632
1,3,5-Trimethylbenzene	16.37	10.70	1.530	ok	1.530	1.470-1.590
2,2,4-Trimethylpentane	5.68	4.98	1.141	ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.74	3.64	0.753	ok	0.752	0.692-0.812
Tetrachloroethylene	9.55	4.98	1.918	ok	1.917	1.857-1.977
Tetrahydrofuran	3.95	3.64	1.085	ok	1.083	1.023-1.143
Toluene	7.79	4.98	1.564	ok	1.564	1.504-1.624
Trichloroethylene	5.59	4.98	1.122	ok	1.121	1.061-1.181
Trichlorofluoromethane	2.53	3.64	0.695	ok	0.694	0.634-0.754
Vinyl chloride	2.05	3.64	0.563	ok	0.563	0.503-0.623
Vinyl Acetate	3.26	3.64	0.896	ok	0.894	0.834-0.954
m,p-Xylene	12.10	10.70	1.131	ok	1.131	1.071-1.191
o-Xylene	13.04	10.70	1.219	ok	1.219	1.159-1.279

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.64	ok	3.65	3.32-3.98	52536	ok	52702	31621-73783
1,4-Difluorobenzene	4.98	ok	4.98	4.65-5.31	278725	ok	277051	166231-387871
Chlorobenzene-D5	10.70	ok	10.70	10.37-11.03	247333	ok	242287	145372-339202

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.48	3.64	0.681	ok	0.678	0.618-0.738
Acrolein	2.43	3.64	0.668	ok	0.667	0.607-0.727
Acrylonitrile	2.61	3.64	0.717	ok	0.717	0.657-0.777
Acetonitrile	2.39	3.64	0.657	ok	0.655	0.595-0.715
1,3-Butadiene	2.10	3.64	0.577	ok	0.577	0.517-0.637
Benzene	4.64	3.64	1.275	ok	1.275	1.215-1.335
Bromobenzene	14.43	10.70	1.349	ok	1.350	1.290-1.410
Bromodichloromethane	5.52	4.98	1.108	ok	1.109	1.049-1.169
Bromoform	11.91	10.70	1.113	ok	1.114	1.054-1.174
Bromomethane	2.20	3.64	0.604	ok	0.604	0.544-0.664
Bromoethene	2.39	3.64	0.657	ok	0.657	0.597-0.717
n-Butane	2.13	3.64	0.585	ok	0.583	0.523-0.643
Benzyl Chloride	16.90	10.70	1.579	ok	1.580	1.520-1.640
n-Butylbenzene	17.60	10.70	1.645	ok	1.645	1.585-1.705
sec-Butylbenzene	17.09	10.70	1.597	ok	1.597	1.537-1.657
tert-Butylbenzene	16.81	10.70	1.571	ok	1.571	1.511-1.631
Carbon disulfide	2.86	3.64	0.786	ok	0.785	0.725-0.845
Chlorobenzene	10.78	10.70	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.88	3.64	0.516	ok	0.515	0.455-0.575
Chloroethane	2.26	3.64	0.621	ok	0.622	0.562-0.682
Chlorotrifluoroethene	1.89	3.64	0.519	ok	0.519	0.459-0.579
Chloroform	3.72	3.64	1.022	ok	1.022	0.962-1.082
Chloromethane	1.97	3.64	0.541	ok	0.541	0.481-0.601
3-Chloropropene	2.80	3.64	0.769	ok	0.769	0.709-0.829
2-Chlorotoluene	15.57	10.70	1.455	ok	1.456	1.396-1.516
Carbon tetrachloride	4.76	3.64	1.308	ok	1.308	1.248-1.368
Cyclohexane	4.87	4.98	0.978	ok	0.977	0.917-1.037
1,1-Dichloroethane	3.18	3.64	0.874	ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.73	3.64	0.750	ok	0.749	0.689-0.809
1,2-Dibromoethane (EDB)	8.69	4.98	1.745	ok	1.744	1.684-1.804
1,2-Dichloroethane	4.15	3.64	1.140	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.34	4.98	1.072	ok	1.072	1.012-1.132
1,3-Dichloropropane	7.85	4.98	1.576	ok	1.575	1.515-1.635
1,4-Dioxane	5.62	4.98	1.129	ok	1.124	1.064-1.184
Dichlorodifluoromethane	1.91	3.64	0.525	ok	0.525	0.465-0.585
Dichlorofluoromethane	2.30	3.64	0.632	ok	0.631	0.571-0.691
Dibromochloromethane	8.33	4.98	1.673	ok	1.673	1.613-1.733
Dibromomethane	5.29	4.98	1.062	ok	1.064	1.004-1.124
trans-1,2-Dichloroethylene	3.10	3.64	0.852	ok	0.850	0.790-0.910

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.56	3.64	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.54	4.98	1.313	ok	1.314	1.254-1.374
m-Dichlorobenzene	16.87	10.70	1.577	ok	1.577	1.517-1.637
o-Dichlorobenzene	17.25	10.70	1.612	ok	1.612	1.552-1.672
p-Dichlorobenzene	16.96	10.70	1.585	ok	1.585	1.525-1.645
trans-1,3-Dichloropropene	7.24	4.98	1.454	ok	1.454	1.394-1.514
Di-Isopropyl ether	3.70	3.64	1.016	ok	1.015	0.955-1.075
2,3-Dimethylpentane	5.13	4.98	1.030	ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.24	3.64	1.165	ok	1.163	1.103-1.223
Ethylbenzene	11.66	10.70	1.090	ok	1.091	1.031-1.151
Ethyl Acetate	3.71	3.64	1.019	ok	1.017	0.957-1.077
Ethyl Acrylate	5.47	4.98	1.098	ok	1.097	1.037-1.157
4-Ethyltoluene	16.23	10.70	1.517	ok	1.517	1.457-1.577
Freon 113	2.86	3.64	0.786	ok	0.785	0.725-0.845
Freon 114	2.01	3.64	0.552	ok	0.551	0.491-0.611
Freon 123	2.45	3.64	0.673	ok	0.671	0.611-0.731
Freon 123A	2.46	3.64	0.676	ok	0.676	0.616-0.736
Freon 142B	1.97	3.64	0.541	ok	0.539	0.479-0.599
Freon 152A	1.86	3.64	0.511	ok	0.511	0.451-0.571
Heptane	6.00	4.98	1.205	ok	1.206	1.146-1.266
Hexachlorobutadiene	18.82	10.70	1.759	ok	1.759	1.699-1.819
Hexachloroethane	17.78	10.70	1.662	ok	1.662	1.602-1.722
Hexane	3.70	3.64	1.016	ok	1.015	0.955-1.075
2-Hexanone	8.37	4.98	1.681	ok	1.679	1.619-1.739
Iodomethane	2.70	3.64	0.742	ok	0.741	0.681-0.801
Isopropylbenzene	14.56	10.70	1.361	ok	1.362	1.302-1.422
Isopropyl Alcohol	2.55	3.64	0.701	ok	0.699	0.639-0.759
p-Isopropyltoluene	17.26	10.70	1.613	ok	1.613	1.553-1.673
Methylene chloride	2.77	3.64	0.761	ok	0.759	0.699-0.819
Methyl ethyl ketone	3.37	3.64	0.926	ok	0.922	0.862-0.982
Methyl Isobutyl Ketone	6.66	4.98	1.337	ok	1.335	1.275-1.395
Methyl Tert Butyl Ether	3.22	3.64	0.885	ok	0.883	0.823-0.943
Methylmethacrylate	5.90	4.98	1.185	ok	1.184	1.124-1.244
Naphthalene	18.56	10.70	1.735	ok	1.735	1.675-1.795
Nonane	14.16	10.70	1.323	ok	1.323	1.263-1.383
Octane	9.69	4.98	1.946	ok	1.945	1.885-2.005
Pentane	2.64	3.64	0.725	ok	0.725	0.665-0.785
n-Propylbenzene	15.92	10.70	1.488	ok	1.487	1.427-1.547
Propylene	1.89	3.64	0.519	ok	0.518	0.458-0.578

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Styrene	12.82	10.70	1.198	ok	1.199	1.139-1.259
1,1,1-Trichloroethane	4.33	3.64	1.190	ok	1.187	1.127-1.247
1,1,1,2-Tetrachloroethane	10.78	10.70	1.007	ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.05	10.70	1.220	ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.41	4.98	1.488	ok	1.487	1.427-1.547
1,2,4-Trichlorobenzene	18.51	10.70	1.730	ok	1.730	1.670-1.790
1,2,3-Trichloropropane	13.33	10.70	1.246	ok	1.246	1.186-1.306
1,2,3-Trimethylbenzene	17.19	10.70	1.607	ok	1.607	1.547-1.667
1,2,4-Trimethylbenzene	16.82	10.70	1.572	ok	1.572	1.512-1.632
1,3,5-Trimethylbenzene	16.37	10.70	1.530	ok	1.530	1.470-1.590
2,2,4-Trimethylpentane	5.68	4.98	1.141	ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.74	3.64	0.753	ok	0.752	0.692-0.812
Tetrachloroethylene	9.55	4.98	1.918	ok	1.917	1.857-1.977
Tetrahydrofuran	3.96	3.64	1.088	ok	1.083	1.023-1.143
Toluene	7.79	4.98	1.564	ok	1.564	1.504-1.624
Trichloroethylene	5.58	4.98	1.120	ok	1.121	1.061-1.181
Trichlorofluoromethane	2.53	3.64	0.695	ok	0.694	0.634-0.754
Vinyl chloride	2.05	3.64	0.563	ok	0.563	0.503-0.623
Vinyl Acetate	3.26	3.64	0.896	ok	0.894	0.834-0.954
m,p-Xylene	12.09	10.70	1.130	ok	1.131	1.071-1.191
o-Xylene	13.04	10.70	1.219	ok	1.219	1.159-1.279

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.64	ok	3.65	3.32-3.98	52743	ok	52702	31621-73783
1,4-Difluorobenzene	4.98	ok	4.98	4.65-5.31	278911	ok	277051	166231-387871
Chlorobenzene-D5	10.70	ok	10.70	10.37-11.03	245719	ok	242287	145372-339202

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acrolein	2.43	3.64	0.668	ok	0.667	0.607-0.727
Acrylonitrile	2.62	3.64	0.720	ok	0.717	0.657-0.777
Acetonitrile	2.39	3.64	0.657	ok	0.655	0.595-0.715
1,3-Butadiene	2.11	3.64	0.580	ok	0.577	0.517-0.637
Benzene	4.65	3.64	1.277	ok	1.275	1.215-1.335
Bromobenzene	14.44	10.70	1.350	ok	1.350	1.290-1.410
Bromodichloromethane	5.52	4.98	1.108	ok	1.109	1.049-1.169
Bromoform	11.92	10.70	1.114	ok	1.114	1.054-1.174
Bromomethane	2.20	3.64	0.604	ok	0.604	0.544-0.664
Bromoethene	2.40	3.64	0.659	ok	0.657	0.597-0.717
n-Butane	2.13	3.64	0.585	ok	0.583	0.523-0.643
Benzyl Chloride	16.90	10.70	1.579	ok	1.580	1.520-1.640
n-Butylbenzene	17.60	10.70	1.645	ok	1.645	1.585-1.705
sec-Butylbenzene	17.09	10.70	1.597	ok	1.597	1.537-1.657
tert-Butylbenzene	16.81	10.70	1.571	ok	1.571	1.511-1.631
Carbon disulfide	2.86	3.64	0.786	ok	0.785	0.725-0.845
Chlorobenzene	10.78	10.70	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.88	3.64	0.516	ok	0.515	0.455-0.575
Chloroethane	2.27	3.64	0.624	ok	0.622	0.562-0.682
Chlorotrifluoroethene	1.90	3.64	0.522	ok	0.519	0.459-0.579
Chloroform	3.72	3.64	1.022	ok	1.022	0.962-1.082
Chloromethane	1.98	3.64	0.544	ok	0.541	0.481-0.601
3-Chloropropene	2.80	3.64	0.769	ok	0.769	0.709-0.829
2-Chlorotoluene	15.58	10.70	1.456	ok	1.456	1.396-1.516
Carbon tetrachloride	4.77	3.64	1.310	ok	1.308	1.248-1.368
Cyclohexane	4.87	4.98	0.978	ok	0.977	0.917-1.037
1,1-Dichloroethane	3.18	3.64	0.874	ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.73	3.64	0.750	ok	0.749	0.689-0.809
1,2-Dibromoethane (EDB)	8.69	4.98	1.745	ok	1.744	1.684-1.804
1,2-Dichloroethane	4.16	3.64	1.143	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.34	4.98	1.072	ok	1.072	1.012-1.132
1,3-Dichloropropane	7.84	4.98	1.574	ok	1.575	1.515-1.635
1,4-Dioxane	5.63	4.98	1.131	ok	1.124	1.064-1.184
Dichlorodifluoromethane	1.92	3.64	0.527	ok	0.525	0.465-0.585
Dichlorofluoromethane	2.30	3.64	0.632	ok	0.631	0.571-0.691
Dibromochloromethane	8.34	4.98	1.675	ok	1.673	1.613-1.733
Dibromomethane	5.30	4.98	1.064	ok	1.064	1.004-1.124
trans-1,2-Dichloroethylene	3.10	3.64	0.852	ok	0.850	0.790-0.910
cis-1,2-Dichloroethylene	3.56	3.64	0.978	ok	0.978	0.918-1.038

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,3-Dichloropropene	6.54	4.98	1.313	ok	1.314	1.254-1.374
m-Dichlorobenzene	16.87	10.70	1.577	ok	1.577	1.517-1.637
o-Dichlorobenzene	17.25	10.70	1.612	ok	1.612	1.552-1.672
p-Dichlorobenzene	16.96	10.70	1.585	ok	1.585	1.525-1.645
trans-1,3-Dichloropropene	7.24	4.98	1.454	ok	1.454	1.394-1.514
Di-Isopropyl ether	3.70	3.64	1.016	ok	1.015	0.955-1.075
2,3-Dimethylpentane	5.14	4.98	1.032	ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.24	3.64	1.165	ok	1.163	1.103-1.223
Ethylbenzene	11.67	10.70	1.091	ok	1.091	1.031-1.151
Ethyl Acetate	3.71	3.64	1.019	ok	1.017	0.957-1.077
Ethyl Acrylate	5.47	4.98	1.098	ok	1.097	1.037-1.157
4-Ethyltoluene	16.23	10.70	1.517	ok	1.517	1.457-1.577
Freon 113	2.86	3.64	0.786	ok	0.785	0.725-0.845
Freon 114	2.01	3.64	0.552	ok	0.551	0.491-0.611
Freon 123	2.45	3.64	0.673	ok	0.671	0.611-0.731
Freon 123A	2.47	3.64	0.679	ok	0.676	0.616-0.736
Freon 142B	1.97	3.64	0.541	ok	0.539	0.479-0.599
Freon 152A	1.86	3.64	0.511	ok	0.511	0.451-0.571
Heptane	6.01	4.98	1.207	ok	1.206	1.146-1.266
Hexachlorobutadiene	18.81	10.70	1.758	ok	1.759	1.699-1.819
Hexachloroethane	17.78	10.70	1.662	ok	1.662	1.602-1.722
Hexane	3.70	3.64	1.016	ok	1.015	0.955-1.075
2-Hexanone	8.38	4.98	1.683	ok	1.679	1.619-1.739
Iodomethane	2.70	3.64	0.742	ok	0.741	0.681-0.801
Isopropylbenzene	14.56	10.70	1.361	ok	1.362	1.302-1.422
p-Isopropyltoluene	17.26	10.70	1.613	ok	1.613	1.553-1.673
Methylene chloride	2.77	3.64	0.761	ok	0.759	0.699-0.819
Methyl ethyl ketone	3.36	3.64	0.923	ok	0.922	0.862-0.982
Methyl Isobutyl Ketone	6.66	4.98	1.337	ok	1.335	1.275-1.395
Methyl Tert Butyl Ether	3.22	3.64	0.885	ok	0.883	0.823-0.943
Methylmethacrylate	5.90	4.98	1.185	ok	1.184	1.124-1.244
Naphthalene	18.56	10.70	1.735	ok	1.735	1.675-1.795
Nonane	14.15	10.70	1.322	ok	1.323	1.263-1.383
Octane	9.69	4.98	1.946	ok	1.945	1.885-2.005
Pentane	2.65	3.64	0.728	ok	0.725	0.665-0.785
n-Propylbenzene	15.91	10.70	1.487	ok	1.487	1.427-1.547
Propylene	1.89	3.64	0.519	ok	0.518	0.458-0.578
Styrene	12.82	10.70	1.198	ok	1.199	1.139-1.259
1,1,1-Trichloroethane	4.33	3.64	1.190	ok	1.187	1.127-1.247

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1,2-Tetrachloroethane	10.79	10.70	1.008	ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.05	10.70	1.220	ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.41	4.98	1.488	ok	1.487	1.427-1.547
1,2,4-Trichlorobenzene	18.51	10.70	1.730	ok	1.730	1.670-1.790
1,2,3-Trichloropropane	13.33	10.70	1.246	ok	1.246	1.186-1.306
1,2,3-Trimethylbenzene	17.19	10.70	1.607	ok	1.607	1.547-1.667
1,2,4-Trimethylbenzene	16.82	10.70	1.572	ok	1.572	1.512-1.632
1,3,5-Trimethylbenzene	16.37	10.70	1.530	ok	1.530	1.470-1.590
2,2,4-Trimethylpentane	5.69	4.98	1.143	ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.74	3.64	0.753	ok	0.752	0.692-0.812
Tetrachloroethylene	9.56	4.98	1.920	ok	1.917	1.857-1.977
Tetrahydrofuran	3.97	3.64	1.091	ok	1.083	1.023-1.143
Toluene	7.79	4.98	1.564	ok	1.564	1.504-1.624
Trichloroethylene	5.58	4.98	1.120	ok	1.121	1.061-1.181
Trichlorofluoromethane	2.53	3.64	0.695	ok	0.694	0.634-0.754
Vinyl chloride	2.06	3.64	0.566	ok	0.563	0.503-0.623
Vinyl Acetate	3.26	3.64	0.896	ok	0.894	0.834-0.954
m,p-Xylene	12.10	10.70	1.131	ok	1.131	1.071-1.191
o-Xylene	13.04	10.70	1.219	ok	1.219	1.159-1.279

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.64	ok	3.65	3.32-3.98	52684	ok	52702	31621-73783
1,4-Difluorobenzene	4.98	ok	4.98	4.65-5.31	279303	ok	277051	166231-387871
Chlorobenzene-D5	10.70	ok	10.70	10.37-11.03	246432	ok	242287	145372-339202

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acrolein	2.43	3.65	0.666	ok	0.667	0.607-0.727
Acrylonitrile	2.62	3.65	0.718	ok	0.717	0.657-0.777
Acetonitrile	2.38	3.65	0.652	ok	0.655	0.595-0.715
1,3-Butadiene	2.10	3.65	0.575	ok	0.577	0.517-0.637
Benzene	4.64	3.65	1.271	ok	1.275	1.215-1.335
Bromobenzene	14.44	10.69	1.351	ok	1.350	1.290-1.410
Bromodichloromethane	5.53	4.98	1.110	ok	1.109	1.049-1.169
Bromoform	11.92	10.69	1.115	ok	1.114	1.054-1.174
Bromomethane	2.20	3.65	0.603	ok	0.604	0.544-0.664
Bromoethene	2.39	3.65	0.655	ok	0.657	0.597-0.717
n-Butane	2.12	3.65	0.581	ok	0.583	0.523-0.643
Benzyl Chloride	16.90	10.69	1.581	ok	1.580	1.520-1.640
n-Butylbenzene	17.60	10.69	1.646	ok	1.645	1.585-1.705
sec-Butylbenzene	17.09	10.69	1.599	ok	1.597	1.537-1.657
tert-Butylbenzene	16.81	10.69	1.572	ok	1.571	1.511-1.631
Carbon disulfide	2.86	3.65	0.784	ok	0.785	0.725-0.845
Chlorobenzene	10.78	10.69	1.008	ok	1.008	0.948-1.068
Chloroethane	2.27	3.65	0.622	ok	0.622	0.562-0.682
Chlorotrifluoroethene	1.89	3.65	0.518	ok	0.519	0.459-0.579
Chloroform	3.73	3.65	1.022	ok	1.022	0.962-1.082
Chloromethane	1.97	3.65	0.540	ok	0.541	0.481-0.601
3-Chloropropene	2.80	3.65	0.767	ok	0.769	0.709-0.829
2-Chlorotoluene	15.57	10.69	1.457	ok	1.456	1.396-1.516
Carbon tetrachloride	4.76	3.65	1.304	ok	1.308	1.248-1.368
Cyclohexane	4.86	4.98	0.976	ok	0.977	0.917-1.037
1,1-Dichloroethane	3.18	3.65	0.871	ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.73	3.65	0.748	ok	0.749	0.689-0.809
1,2-Dibromoethane (EDB)	8.69	4.98	1.745	ok	1.744	1.684-1.804
1,2-Dichloroethane	4.15	3.65	1.137	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.33	4.98	1.070	ok	1.072	1.012-1.132
1,3-Dichloropropane	7.85	4.98	1.576	ok	1.575	1.515-1.635
Dichlorodifluoromethane	1.91	3.65	0.523	ok	0.525	0.465-0.585
Dichlorofluoromethane	2.30	3.65	0.630	ok	0.631	0.571-0.691
Dibromochloromethane	8.33	4.98	1.673	ok	1.673	1.613-1.733
Dibromomethane	5.30	4.98	1.064	ok	1.064	1.004-1.124
trans-1,2-Dichloroethylene	3.10	3.65	0.849	ok	0.850	0.790-0.910
cis-1,2-Dichloroethylene	3.57	3.65	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.55	4.98	1.315	ok	1.314	1.254-1.374
m-Dichlorobenzene	16.88	10.69	1.579	ok	1.577	1.517-1.637

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	17.25	10.69	1.614	ok	1.612	1.552-1.672
p-Dichlorobenzene	16.96	10.69	1.587	ok	1.585	1.525-1.645
trans-1,3-Dichloropropene	7.24	4.98	1.454	ok	1.454	1.394-1.514
Di-Isopropyl ether	3.70	3.65	1.014	ok	1.015	0.955-1.075
2,3-Dimethylpentane	5.13	4.98	1.030	ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.24	3.65	1.162	ok	1.163	1.103-1.223
Ethylbenzene	11.66	10.69	1.091	ok	1.091	1.031-1.151
Ethyl Acrylate	5.47	4.98	1.098	ok	1.097	1.037-1.157
4-Ethyltoluene	16.23	10.69	1.518	ok	1.517	1.457-1.577
Freon 113	2.86	3.65	0.784	ok	0.785	0.725-0.845
Freon 114	2.01	3.65	0.551	ok	0.551	0.491-0.611
Freon 123	2.44	3.65	0.668	ok	0.671	0.611-0.731
Freon 123A	2.47	3.65	0.677	ok	0.676	0.616-0.736
Freon 142B	1.96	3.65	0.537	ok	0.539	0.479-0.599
Freon 152A	1.86	3.65	0.510	ok	0.511	0.451-0.571
Heptane	6.00	4.98	1.205	ok	1.206	1.146-1.266
Hexachlorobutadiene	18.82	10.69	1.761	ok	1.759	1.699-1.819
Hexachloroethane	17.78	10.69	1.663	ok	1.662	1.602-1.722
Hexane	3.70	3.65	1.014	ok	1.015	0.955-1.075
2-Hexanone	8.37	4.98	1.681	ok	1.679	1.619-1.739
Iodomethane	2.70	3.65	0.740	ok	0.741	0.681-0.801
Isopropylbenzene	14.58	10.69	1.364	ok	1.362	1.302-1.422
p-Isopropyltoluene	17.26	10.69	1.615	ok	1.613	1.553-1.673
Methyl Tert Butyl Ether	3.22	3.65	0.882	ok	0.883	0.823-0.943
Naphthalene	18.56	10.69	1.736	ok	1.735	1.675-1.795
Nonane	14.16	10.69	1.325	ok	1.323	1.263-1.383
Octane	9.69	4.98	1.946	ok	1.945	1.885-2.005
Pentane	2.64	3.65	0.723	ok	0.725	0.665-0.785
n-Propylbenzene	15.91	10.69	1.488	ok	1.487	1.427-1.547
Propylene	1.89	3.65	0.518	ok	0.518	0.458-0.578
Styrene	12.83	10.69	1.200	ok	1.199	1.139-1.259
1,1,1-Trichloroethane	4.33	3.65	1.186	ok	1.187	1.127-1.247
1,1,1,2-Tetrachloroethane	10.79	10.69	1.009	ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.04	10.69	1.220	ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.40	4.98	1.486	ok	1.487	1.427-1.547
1,2,4-Trichlorobenzene	18.51	10.69	1.732	ok	1.730	1.670-1.790
1,2,3-Trichloropropane	13.33	10.69	1.247	ok	1.246	1.186-1.306
1,2,3-Trimethylbenzene	17.19	10.69	1.608	ok	1.607	1.547-1.667
1,2,4-Trimethylbenzene	16.82	10.69	1.573	ok	1.572	1.512-1.632

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,3,5-Trimethylbenzene	16.37	10.69	1.531	ok	1.530	1.470-1.590
2,2,4-Trimethylpentane	5.68	4.98	1.141	ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.74	3.65	0.751	ok	0.752	0.692-0.812
Tetrachloroethylene	9.55	4.98	1.918	ok	1.917	1.857-1.977
Toluene	7.80	4.98	1.566	ok	1.564	1.504-1.624
Trichloroethylene	5.58	4.98	1.120	ok	1.121	1.061-1.181
Trichlorofluoromethane	2.53	3.65	0.693	ok	0.694	0.634-0.754
Vinyl chloride	2.05	3.65	0.562	ok	0.563	0.503-0.623
m,p-Xylene	12.11	10.69	1.133	ok	1.131	1.071-1.191
o-Xylene	13.04	10.69	1.220	ok	1.219	1.159-1.279

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.65	ok	3.65	3.32-3.98	53159	ok	52702	31621-73783
1,4-Difluorobenzene	4.98	ok	4.98	4.65-5.31	280557	ok	277051	166231-387871
Chlorobenzene-D5	10.69	ok	10.70	10.37-11.03	244809	ok	242287	145372-339202

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	Reporting this level
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.47	3.64	0.679	ok	0.678	0.618-0.738
Acrolein	2.43	3.64	0.668	ok	0.667	0.607-0.727
Acrylonitrile	2.61	3.64	0.717	ok	0.717	0.657-0.777
Acetonitrile	2.38	3.64	0.654	ok	0.655	0.595-0.715
1,3-Butadiene	2.10	3.64	0.577	ok	0.577	0.517-0.637
Benzene	4.65	3.64	1.277	ok	1.275	1.215-1.335
Bromobenzene	14.43	10.70	1.349	ok	1.350	1.290-1.410
Bromodichloromethane	5.52	4.98	1.108	ok	1.109	1.049-1.169
Bromoform	11.91	10.70	1.113	ok	1.114	1.054-1.174
Bromomethane	2.20	3.64	0.604	ok	0.604	0.544-0.664
Bromoethene	2.39	3.64	0.657	ok	0.657	0.597-0.717
n-Butane	2.12	3.64	0.582	ok	0.583	0.523-0.643
Benzyl Chloride	16.90	10.70	1.579	ok	1.580	1.520-1.640
n-Butylbenzene	17.60	10.70	1.645	ok	1.645	1.585-1.705
sec-Butylbenzene	17.08	10.70	1.596	ok	1.597	1.537-1.657
tert-Butylbenzene	16.81	10.70	1.571	ok	1.571	1.511-1.631
Carbon disulfide	2.86	3.64	0.786	ok	0.785	0.725-0.845
Chlorobenzene	10.78	10.70	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.87	3.64	0.514	ok	0.515	0.455-0.575
Chloroethane	2.26	3.64	0.621	ok	0.622	0.562-0.682
Chlorotrifluoroethene	1.89	3.64	0.519	ok	0.519	0.459-0.579
Chloroform	3.72	3.64	1.022	ok	1.022	0.962-1.082
Chloromethane	1.97	3.64	0.541	ok	0.541	0.481-0.601
3-Chloropropene	2.80	3.64	0.769	ok	0.769	0.709-0.829
2-Chlorotoluene	15.58	10.70	1.456	ok	1.456	1.396-1.516
Carbon tetrachloride	4.77	3.64	1.310	ok	1.308	1.248-1.368
Cyclohexane	4.87	4.98	0.978	ok	0.977	0.917-1.037
1,1-Dichloroethane	3.18	3.64	0.874	ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.73	3.64	0.750	ok	0.749	0.689-0.809
1,2-Dibromoethane (EDB)	8.69	4.98	1.745	ok	1.744	1.684-1.804
1,2-Dichloroethane	4.15	3.64	1.140	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.34	4.98	1.072	ok	1.072	1.012-1.132
1,3-Dichloropropane	7.85	4.98	1.576	ok	1.575	1.515-1.635
1,4-Dioxane	5.59	4.98	1.122	ok	1.124	1.064-1.184
Dichlorodifluoromethane	1.91	3.64	0.525	ok	0.525	0.465-0.585
Dichlorofluoromethane	2.30	3.64	0.632	ok	0.631	0.571-0.691
Dibromochloromethane	8.33	4.98	1.673	ok	1.673	1.613-1.733
Dibromomethane	5.30	4.98	1.064	ok	1.064	1.004-1.124
trans-1,2-Dichloroethylene	3.10	3.64	0.852	ok	0.850	0.790-0.910

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	Reporting this level
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.57	3.64	0.981	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.55	4.98	1.315	ok	1.314	1.254-1.374
m-Dichlorobenzene	16.88	10.70	1.578	ok	1.577	1.517-1.637
o-Dichlorobenzene	17.25	10.70	1.612	ok	1.612	1.552-1.672
p-Dichlorobenzene	16.96	10.70	1.585	ok	1.585	1.525-1.645
trans-1,3-Dichloropropene	7.24	4.98	1.454	ok	1.454	1.394-1.514
Di-Isopropyl ether	3.70	3.64	1.016	ok	1.015	0.955-1.075
2,3-Dimethylpentane	5.13	4.98	1.030	ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.24	3.64	1.165	ok	1.163	1.103-1.223
Ethanol	2.30	3.64	0.632	ok	0.633	0.573-0.693
Ethylbenzene	11.67	10.70	1.091	ok	1.091	1.031-1.151
Ethyl Acetate	3.71	3.64	1.019	ok	1.017	0.957-1.077
Ethyl Acrylate	5.46	4.98	1.096	ok	1.097	1.037-1.157
4-Ethyltoluene	16.23	10.70	1.517	ok	1.517	1.457-1.577
Freon 113	2.86	3.64	0.786	ok	0.785	0.725-0.845
Freon 114	2.01	3.64	0.552	ok	0.551	0.491-0.611
Freon 123	2.44	3.64	0.670	ok	0.671	0.611-0.731
Freon 123A	2.46	3.64	0.676	ok	0.676	0.616-0.736
Freon 142B	1.96	3.64	0.538	ok	0.539	0.479-0.599
Freon 152A	1.86	3.64	0.511	ok	0.511	0.451-0.571
Heptane	6.01	4.98	1.207	ok	1.206	1.146-1.266
Hexachlorobutadiene	18.82	10.70	1.759	ok	1.759	1.699-1.819
Hexachloroethane	17.78	10.70	1.662	ok	1.662	1.602-1.722
Hexane	3.70	3.64	1.016	ok	1.015	0.955-1.075
2-Hexanone	8.36	4.98	1.679	ok	1.679	1.619-1.739
Iodomethane	2.70	3.64	0.742	ok	0.741	0.681-0.801
Isopropylbenzene	14.56	10.70	1.361	ok	1.362	1.302-1.422
Isopropyl Alcohol	2.55	3.64	0.701	ok	0.699	0.639-0.759
p-Isopropyltoluene	17.26	10.70	1.613	ok	1.613	1.553-1.673
Methylene chloride	2.76	3.64	0.758	ok	0.759	0.699-0.819
Methyl ethyl ketone	3.36	3.64	0.923	ok	0.922	0.862-0.982
Methyl Isobutyl Ketone	6.65	4.98	1.335	ok	1.335	1.275-1.395
Methyl Tert Butyl Ether	3.22	3.64	0.885	ok	0.883	0.823-0.943
Methylmethacrylate	5.90	4.98	1.185	ok	1.184	1.124-1.244
Naphthalene	18.56	10.70	1.735	ok	1.735	1.675-1.795
Nonane	14.15	10.70	1.322	ok	1.323	1.263-1.383
Octane	9.70	4.98	1.948	ok	1.945	1.885-2.005
Pentane	2.64	3.64	0.725	ok	0.725	0.665-0.785
n-Propylbenzene	15.91	10.70	1.487	ok	1.487	1.427-1.547

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	Reporting this level
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.89	3.64	0.519	ok	0.518	0.458-0.578
Styrene	12.83	10.70	1.199	ok	1.199	1.139-1.259
1,1,1-Trichloroethane	4.33	3.64	1.190	ok	1.187	1.127-1.247
1,1,1,2-Tetrachloroethane	10.79	10.70	1.008	ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.05	10.70	1.220	ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.41	4.98	1.488	ok	1.487	1.427-1.547
1,2,4-Trichlorobenzene	18.51	10.70	1.730	ok	1.730	1.670-1.790
1,2,3-Trichloropropane	13.33	10.70	1.246	ok	1.246	1.186-1.306
1,2,3-Trimethylbenzene	17.20	10.70	1.607	ok	1.607	1.547-1.667
1,2,4-Trimethylbenzene	16.82	10.70	1.572	ok	1.572	1.512-1.632
1,3,5-Trimethylbenzene	16.37	10.70	1.530	ok	1.530	1.470-1.590
2,2,4-Trimethylpentane	5.68	4.98	1.141	ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.74	3.64	0.753	ok	0.752	0.692-0.812
Tetrachloroethylene	9.55	4.98	1.918	ok	1.917	1.857-1.977
Tetrahydrofuran	3.94	3.64	1.082	ok	1.083	1.023-1.143
Toluene	7.79	4.98	1.564	ok	1.564	1.504-1.624
Trichloroethylene	5.58	4.98	1.120	ok	1.121	1.061-1.181
Trichlorofluoromethane	2.53	3.64	0.695	ok	0.694	0.634-0.754
Vinyl chloride	2.05	3.64	0.563	ok	0.563	0.503-0.623
Vinyl Acetate	3.25	3.64	0.893	ok	0.894	0.834-0.954
m,p-Xylene	12.10	10.70	1.131	ok	1.131	1.071-1.191
o-Xylene	13.04	10.70	1.219	ok	1.219	1.159-1.279

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.64	ok	3.65	3.32-3.98	51576	ok	52702	31621-73783
1,4-Difluorobenzene	4.98	ok	4.98	4.65-5.31	273003	ok	277051	166231-387871
Chlorobenzene-D5	10.70	ok	10.70	10.37-11.03	241427	ok	242287	145372-339202

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
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Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.48	3.65	0.679	ok	0.678	0.618-0.738
Acrolein	2.43	3.65	0.666	ok	0.667	0.607-0.727
Acrylonitrile	2.62	3.65	0.718	ok	0.717	0.657-0.777
Acetonitrile	2.39	3.65	0.655	ok	0.655	0.595-0.715
1,3-Butadiene	2.11	3.65	0.578	ok	0.577	0.517-0.637
Benzene	4.65	3.65	1.274	ok	1.275	1.215-1.335
Bromobenzene	14.44	10.70	1.350	ok	1.350	1.290-1.410
Bromodichloromethane	5.53	4.99	1.108	ok	1.109	1.049-1.169
Bromoform	11.91	10.70	1.113	ok	1.114	1.054-1.174
Bromomethane	2.21	3.65	0.605	ok	0.604	0.544-0.664
Bromoethene	2.40	3.65	0.658	ok	0.657	0.597-0.717
n-Butane	2.13	3.65	0.584	ok	0.583	0.523-0.643
Benzyl Chloride	16.90	10.70	1.579	ok	1.580	1.520-1.640
n-Butylbenzene	17.60	10.70	1.645	ok	1.645	1.585-1.705
sec-Butylbenzene	17.09	10.70	1.597	ok	1.597	1.537-1.657
tert-Butylbenzene	16.81	10.70	1.571	ok	1.571	1.511-1.631
Carbon disulfide	2.87	3.65	0.786	ok	0.785	0.725-0.845
Chlorobenzene	10.78	10.70	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.88	3.65	0.515	ok	0.515	0.455-0.575
Chloroethane	2.27	3.65	0.622	ok	0.622	0.562-0.682
Chlorotrifluoroethene	1.89	3.65	0.518	ok	0.519	0.459-0.579
Chloroform	3.73	3.65	1.022	ok	1.022	0.962-1.082
Chloromethane	1.98	3.65	0.542	ok	0.541	0.481-0.601
3-Chloropropene	2.81	3.65	0.770	ok	0.769	0.709-0.829
2-Chlorotoluene	15.58	10.70	1.456	ok	1.456	1.396-1.516
Carbon tetrachloride	4.77	3.65	1.307	ok	1.308	1.248-1.368
Cyclohexane	4.87	4.99	0.976	ok	0.977	0.917-1.037
1,1-Dichloroethane	3.19	3.65	0.874	ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.73	3.65	0.748	ok	0.749	0.689-0.809
1,2-Dibromoethane (EDB)	8.69	4.99	1.741	ok	1.744	1.684-1.804
1,2-Dichloroethane	4.16	3.65	1.140	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.34	4.99	1.070	ok	1.072	1.012-1.132
1,3-Dichloropropane	7.85	4.99	1.573	ok	1.575	1.515-1.635
1,4-Dioxane	5.59	4.99	1.120	ok	1.124	1.064-1.184
Dichlorodifluoromethane	1.92	3.65	0.526	ok	0.525	0.465-0.585
Dichlorofluoromethane	2.30	3.65	0.630	ok	0.631	0.571-0.691
Dibromochloromethane	8.34	4.99	1.671	ok	1.673	1.613-1.733
Dibromomethane	5.30	4.99	1.062	ok	1.064	1.004-1.124
trans-1,2-Dichloroethylene	3.10	3.65	0.849	ok	0.850	0.790-0.910

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.57	3.65	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.55	4.99	1.313	ok	1.314	1.254-1.374
m-Dichlorobenzene	16.88	10.70	1.578	ok	1.577	1.517-1.637
o-Dichlorobenzene	17.25	10.70	1.612	ok	1.612	1.552-1.672
p-Dichlorobenzene	16.96	10.70	1.585	ok	1.585	1.525-1.645
trans-1,3-Dichloropropene	7.25	4.99	1.453	ok	1.454	1.394-1.514
Di-Isopropyl ether	3.70	3.65	1.014	ok	1.015	0.955-1.075
2,3-Dimethylpentane	5.14	4.99	1.030	ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.24	3.65	1.162	ok	1.163	1.103-1.223
Ethanol	2.31	3.65	0.633	ok	0.633	0.573-0.693
Ethylbenzene	11.67	10.70	1.091	ok	1.091	1.031-1.151
Ethyl Acetate	3.71	3.65	1.016	ok	1.017	0.957-1.077
Ethyl Acrylate	5.46	4.99	1.094	ok	1.097	1.037-1.157
4-Ethyltoluene	16.23	10.70	1.517	ok	1.517	1.457-1.577
Freon 113	2.87	3.65	0.786	ok	0.785	0.725-0.845
Freon 114	2.01	3.65	0.551	ok	0.551	0.491-0.611
Freon 123	2.45	3.65	0.671	ok	0.671	0.611-0.731
Freon 123A	2.47	3.65	0.677	ok	0.676	0.616-0.736
Freon 142B	1.97	3.65	0.540	ok	0.539	0.479-0.599
Freon 152A	1.86	3.65	0.510	ok	0.511	0.451-0.571
Heptane	6.01	4.99	1.204	ok	1.206	1.146-1.266
Hexachlorobutadiene	18.82	10.70	1.759	ok	1.759	1.699-1.819
Hexachloroethane	17.78	10.70	1.662	ok	1.662	1.602-1.722
Hexane	3.70	3.65	1.014	ok	1.015	0.955-1.075
2-Hexanone	8.36	4.99	1.675	ok	1.679	1.619-1.739
Iodomethane	2.70	3.65	0.740	ok	0.741	0.681-0.801
Isopropylbenzene	14.57	10.70	1.362	ok	1.362	1.302-1.422
Isopropyl Alcohol	2.55	3.65	0.699	ok	0.699	0.639-0.759
p-Isopropyltoluene	17.26	10.70	1.613	ok	1.613	1.553-1.673
Methylene chloride	2.77	3.65	0.759	ok	0.759	0.699-0.819
Methyl ethyl ketone	3.36	3.65	0.921	ok	0.922	0.862-0.982
Methyl Isobutyl Ketone	6.65	4.99	1.333	ok	1.335	1.275-1.395
Methyl Tert Butyl Ether	3.22	3.65	0.882	ok	0.883	0.823-0.943
Methylmethacrylate	5.90	4.99	1.182	ok	1.184	1.124-1.244
Naphthalene	18.56	10.70	1.735	ok	1.735	1.675-1.795
Nonane	14.16	10.70	1.323	ok	1.323	1.263-1.383
Octane	9.69	4.99	1.942	ok	1.945	1.885-2.005
Pentane	2.65	3.65	0.726	ok	0.725	0.665-0.785
n-Propylbenzene	15.91	10.70	1.487	ok	1.487	1.427-1.547

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.89	3.65	0.518	ok	0.518	0.458-0.578
Styrene	12.83	10.70	1.199	ok	1.199	1.139-1.259
1,1,1-Trichloroethane	4.33	3.65	1.186	ok	1.187	1.127-1.247
1,1,1,2-Tetrachloroethane	10.79	10.70	1.008	ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.05	10.70	1.220	ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.41	4.99	1.485	ok	1.487	1.427-1.547
1,2,4-Trichlorobenzene	18.51	10.70	1.730	ok	1.730	1.670-1.790
1,2,3-Trichloropropane	13.34	10.70	1.247	ok	1.246	1.186-1.306
1,2,3-Trimethylbenzene	17.20	10.70	1.607	ok	1.607	1.547-1.667
1,2,4-Trimethylbenzene	16.82	10.70	1.572	ok	1.572	1.512-1.632
1,3,5-Trimethylbenzene	16.37	10.70	1.530	ok	1.530	1.470-1.590
2,2,4-Trimethylpentane	5.68	4.99	1.138	ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.74	3.65	0.751	ok	0.752	0.692-0.812
Tetrachloroethylene	9.55	4.99	1.914	ok	1.917	1.857-1.977
Tetrahydrofuran	3.95	3.65	1.082	ok	1.083	1.023-1.143
Toluene	7.79	4.99	1.561	ok	1.564	1.504-1.624
Trichloroethylene	5.59	4.99	1.120	ok	1.121	1.061-1.181
Trichlorofluoromethane	2.53	3.65	0.693	ok	0.694	0.634-0.754
Vinyl chloride	2.06	3.65	0.564	ok	0.563	0.503-0.623
Vinyl Acetate	3.26	3.65	0.893	ok	0.894	0.834-0.954
m,p-Xylene	12.10	10.70	1.131	ok	1.131	1.071-1.191
o-Xylene	13.05	10.70	1.220	ok	1.219	1.159-1.279

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.65	ok	3.65	3.32-3.98	51715	ok	52702	31621-73783
1,4-Difluorobenzene	4.99	ok	4.98	4.65-5.31	272799	ok	277051	166231-387871
Chlorobenzene-D5	10.70	ok	10.70	10.37-11.03	237865	ok	242287	145372-339202

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.47	3.65	0.677	ok	0.678	0.618-0.738
Acrolein	2.43	3.65	0.666	ok	0.667	0.607-0.727
Acrylonitrile	2.61	3.65	0.715	ok	0.717	0.657-0.777
Acetonitrile	2.39	3.65	0.655	ok	0.655	0.595-0.715
1,3-Butadiene	2.11	3.65	0.578	ok	0.577	0.517-0.637
Benzene	4.65	3.65	1.274	ok	1.275	1.215-1.335
Bromobenzene	14.44	10.70	1.350	ok	1.350	1.290-1.410
Bromodichloromethane	5.53	4.98	1.110	ok	1.109	1.049-1.169
Bromoform	11.92	10.70	1.114	ok	1.114	1.054-1.174
Bromomethane	2.21	3.65	0.605	ok	0.604	0.544-0.664
Bromoethene	2.40	3.65	0.658	ok	0.657	0.597-0.717
n-Butane	2.13	3.65	0.584	ok	0.583	0.523-0.643
Benzyl Chloride	16.90	10.70	1.579	ok	1.580	1.520-1.640
n-Butylbenzene	17.61	10.70	1.646	ok	1.645	1.585-1.705
sec-Butylbenzene	17.09	10.70	1.597	ok	1.597	1.537-1.657
tert-Butylbenzene	16.81	10.70	1.571	ok	1.571	1.511-1.631
Carbon disulfide	2.86	3.65	0.784	ok	0.785	0.725-0.845
Chlorobenzene	10.78	10.70	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.88	3.65	0.515	ok	0.515	0.455-0.575
Chloroethane	2.27	3.65	0.622	ok	0.622	0.562-0.682
Chlorotrifluoroethene	1.89	3.65	0.518	ok	0.519	0.459-0.579
Chloroform	3.72	3.65	1.019	ok	1.022	0.962-1.082
Chloromethane	1.97	3.65	0.540	ok	0.541	0.481-0.601
3-Chloropropene	2.80	3.65	0.767	ok	0.769	0.709-0.829
2-Chlorotoluene	15.58	10.70	1.456	ok	1.456	1.396-1.516
Carbon tetrachloride	4.77	3.65	1.307	ok	1.308	1.248-1.368
Cyclohexane	4.87	4.98	0.978	ok	0.977	0.917-1.037
1,1-Dichloroethane	3.18	3.65	0.871	ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.73	3.65	0.748	ok	0.749	0.689-0.809
1,2-Dibromoethane (EDB)	8.69	4.98	1.745	ok	1.744	1.684-1.804
1,2-Dichloroethane	4.15	3.65	1.137	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.34	4.98	1.072	ok	1.072	1.012-1.132
1,3-Dichloropropane	7.85	4.98	1.576	ok	1.575	1.515-1.635
1,4-Dioxane	5.59	4.98	1.122	ok	1.124	1.064-1.184
Dichlorodifluoromethane	1.92	3.65	0.526	ok	0.525	0.465-0.585
Dichlorofluoromethane	2.30	3.65	0.630	ok	0.631	0.571-0.691
Dibromochloromethane	8.34	4.98	1.675	ok	1.673	1.613-1.733
Dibromomethane	5.30	4.98	1.064	ok	1.064	1.004-1.124
trans-1,2-Dichloroethylene	3.10	3.65	0.849	ok	0.850	0.790-0.910

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.57	3.65	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.55	4.98	1.315	ok	1.314	1.254-1.374
m-Dichlorobenzene	16.88	10.70	1.578	ok	1.577	1.517-1.637
o-Dichlorobenzene	17.25	10.70	1.612	ok	1.612	1.552-1.672
p-Dichlorobenzene	16.96	10.70	1.585	ok	1.585	1.525-1.645
trans-1,3-Dichloropropene	7.24	4.98	1.454	ok	1.454	1.394-1.514
Di-Isopropyl ether	3.70	3.65	1.014	ok	1.015	0.955-1.075
2,3-Dimethylpentane	5.13	4.98	1.030	ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.24	3.65	1.162	ok	1.163	1.103-1.223
Ethanol	2.31	3.65	0.633	ok	0.633	0.573-0.693
Ethylbenzene	11.67	10.70	1.091	ok	1.091	1.031-1.151
Ethyl Acetate	3.70	3.65	1.014	ok	1.017	0.957-1.077
Ethyl Acrylate	5.46	4.98	1.096	ok	1.097	1.037-1.157
4-Ethyltoluene	16.23	10.70	1.517	ok	1.517	1.457-1.577
Freon 113	2.86	3.65	0.784	ok	0.785	0.725-0.845
Freon 114	2.01	3.65	0.551	ok	0.551	0.491-0.611
Freon 123	2.45	3.65	0.671	ok	0.671	0.611-0.731
Freon 123A	2.47	3.65	0.677	ok	0.676	0.616-0.736
Freon 142B	1.97	3.65	0.540	ok	0.539	0.479-0.599
Freon 152A	1.87	3.65	0.512	ok	0.511	0.451-0.571
Heptane	6.01	4.98	1.207	ok	1.206	1.146-1.266
Hexachlorobutadiene	18.82	10.70	1.759	ok	1.759	1.699-1.819
Hexachloroethane	17.78	10.70	1.662	ok	1.662	1.602-1.722
Hexane	3.70	3.65	1.014	ok	1.015	0.955-1.075
2-Hexanone	8.36	4.98	1.679	ok	1.679	1.619-1.739
Iodomethane	2.70	3.65	0.740	ok	0.741	0.681-0.801
Isopropylbenzene	14.57	10.70	1.362	ok	1.362	1.302-1.422
Isopropyl Alcohol	2.55	3.65	0.699	ok	0.699	0.639-0.759
p-Isopropyltoluene	17.26	10.70	1.613	ok	1.613	1.553-1.673
Methylene chloride	2.76	3.65	0.756	ok	0.759	0.699-0.819
Methyl ethyl ketone	3.35	3.65	0.918	ok	0.922	0.862-0.982
Methyl Isobutyl Ketone	6.65	4.98	1.335	ok	1.335	1.275-1.395
Methyl Tert Butyl Ether	3.22	3.65	0.882	ok	0.883	0.823-0.943
Methylmethacrylate	5.90	4.98	1.185	ok	1.184	1.124-1.244
Naphthalene	18.56	10.70	1.735	ok	1.735	1.675-1.795
Nonane	14.17	10.70	1.324	ok	1.323	1.263-1.383
Octane	9.69	4.98	1.946	ok	1.945	1.885-2.005
Pentane	2.64	3.65	0.723	ok	0.725	0.665-0.785
n-Propylbenzene	15.91	10.70	1.487	ok	1.487	1.427-1.547

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.89	3.65	0.518	ok	0.518	0.458-0.578
Styrene	12.83	10.70	1.199	ok	1.199	1.139-1.259
1,1,1-Trichloroethane	4.33	3.65	1.186	ok	1.187	1.127-1.247
1,1,1,2-Tetrachloroethane	10.79	10.70	1.008	ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.05	10.70	1.220	ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.41	4.98	1.488	ok	1.487	1.427-1.547
1,2,4-Trichlorobenzene	18.51	10.70	1.730	ok	1.730	1.670-1.790
1,2,3-Trichloropropane	13.34	10.70	1.247	ok	1.246	1.186-1.306
1,2,3-Trimethylbenzene	17.20	10.70	1.607	ok	1.607	1.547-1.667
1,2,4-Trimethylbenzene	16.82	10.70	1.572	ok	1.572	1.512-1.632
1,3,5-Trimethylbenzene	16.37	10.70	1.530	ok	1.530	1.470-1.590
2,2,4-Trimethylpentane	5.68	4.98	1.141	ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.74	3.65	0.751	ok	0.752	0.692-0.812
Tetrachloroethylene	9.56	4.98	1.920	ok	1.917	1.857-1.977
Tetrahydrofuran	3.94	3.65	1.079	ok	1.083	1.023-1.143
Toluene	7.79	4.98	1.564	ok	1.564	1.504-1.624
Trichloroethylene	5.59	4.98	1.122	ok	1.121	1.061-1.181
Trichlorofluoromethane	2.53	3.65	0.693	ok	0.694	0.634-0.754
Vinyl chloride	2.06	3.65	0.564	ok	0.563	0.503-0.623
Vinyl Acetate	3.25	3.65	0.890	ok	0.894	0.834-0.954
m,p-Xylene	12.11	10.70	1.132	ok	1.131	1.071-1.191
o-Xylene	13.05	10.70	1.220	ok	1.219	1.159-1.279

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.65	ok	3.65	3.32-3.98	52593	ok	52702	31621-73783
1,4-Difluorobenzene	4.98	ok	4.98	4.65-5.31	275585	ok	277051	166231-387871
Chlorobenzene-D5	10.70	ok	10.70	10.37-11.03	238896	ok	242287	145372-339202

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.47	3.65	0.677	ok	0.678	0.618-0.738
Acrolein	2.43	3.65	0.666	ok	0.667	0.607-0.727
Acrylonitrile	2.61	3.65	0.715	ok	0.717	0.657-0.777
Acetonitrile	2.38	3.65	0.652	ok	0.655	0.595-0.715
1,3-Butadiene	2.10	3.65	0.575	ok	0.577	0.517-0.637
Benzene	4.65	3.65	1.274	ok	1.275	1.215-1.335
Bromobenzene	14.45	10.70	1.350	ok	1.350	1.290-1.410
Bromodichloromethane	5.53	4.99	1.108	ok	1.109	1.049-1.169
Bromoform	11.93	10.70	1.115	ok	1.114	1.054-1.174
Bromomethane	2.20	3.65	0.603	ok	0.604	0.544-0.664
Bromoethene	2.39	3.65	0.655	ok	0.657	0.597-0.717
n-Butane	2.12	3.65	0.581	ok	0.583	0.523-0.643
Benzyl Chloride	16.91	10.70	1.580	ok	1.580	1.520-1.640
n-Butylbenzene	17.61	10.70	1.646	ok	1.645	1.585-1.705
sec-Butylbenzene	17.09	10.70	1.597	ok	1.597	1.537-1.657
tert-Butylbenzene	16.82	10.70	1.572	ok	1.571	1.511-1.631
Carbon disulfide	2.86	3.65	0.784	ok	0.785	0.725-0.845
Chlorobenzene	10.79	10.70	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.88	3.65	0.515	ok	0.515	0.455-0.575
Chloroethane	2.26	3.65	0.619	ok	0.622	0.562-0.682
Chlorotrifluoroethene	1.89	3.65	0.518	ok	0.519	0.459-0.579
Chloroform	3.73	3.65	1.022	ok	1.022	0.962-1.082
Chloromethane	1.97	3.65	0.540	ok	0.541	0.481-0.601
3-Chloropropene	2.80	3.65	0.767	ok	0.769	0.709-0.829
2-Chlorotoluene	15.59	10.70	1.457	ok	1.456	1.396-1.516
Carbon tetrachloride	4.77	3.65	1.307	ok	1.308	1.248-1.368
Cyclohexane	4.87	4.99	0.976	ok	0.977	0.917-1.037
1,1-Dichloroethane	3.18	3.65	0.871	ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.73	3.65	0.748	ok	0.749	0.689-0.809
1,2-Dibromoethane (EDB)	8.70	4.99	1.743	ok	1.744	1.684-1.804
1,2-Dichloroethane	4.16	3.65	1.140	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.34	4.99	1.070	ok	1.072	1.012-1.132
1,3-Dichloropropane	7.85	4.99	1.573	ok	1.575	1.515-1.635
1,4-Dioxane	5.59	4.99	1.120	ok	1.124	1.064-1.184
Dichlorodifluoromethane	1.91	3.65	0.523	ok	0.525	0.465-0.585
Dichlorofluoromethane	2.30	3.65	0.630	ok	0.631	0.571-0.691
Dibromochloromethane	8.34	4.99	1.671	ok	1.673	1.613-1.733
Dibromomethane	5.30	4.99	1.062	ok	1.064	1.004-1.124
trans-1,2-Dichloroethylene	3.10	3.65	0.849	ok	0.850	0.790-0.910

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.57	3.65	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.55	4.99	1.313	ok	1.314	1.254-1.374
m-Dichlorobenzene	16.88	10.70	1.578	ok	1.577	1.517-1.637
o-Dichlorobenzene	17.25	10.70	1.612	ok	1.612	1.552-1.672
p-Dichlorobenzene	16.96	10.70	1.585	ok	1.585	1.525-1.645
trans-1,3-Dichloropropene	7.25	4.99	1.453	ok	1.454	1.394-1.514
Di-Isopropyl ether	3.70	3.65	1.014	ok	1.015	0.955-1.075
2,3-Dimethylpentane	5.14	4.99	1.030	ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.24	3.65	1.162	ok	1.163	1.103-1.223
Ethanol	2.30	3.65	0.630	ok	0.633	0.573-0.693
Ethylbenzene	11.68	10.70	1.092	ok	1.091	1.031-1.151
Ethyl Acetate	3.71	3.65	1.016	ok	1.017	0.957-1.077
Ethyl Acrylate	5.46	4.99	1.094	ok	1.097	1.037-1.157
4-Ethyltoluene	16.23	10.70	1.517	ok	1.517	1.457-1.577
Freon 113	2.86	3.65	0.784	ok	0.785	0.725-0.845
Freon 114	2.01	3.65	0.551	ok	0.551	0.491-0.611
Freon 123	2.44	3.65	0.668	ok	0.671	0.611-0.731
Freon 123A	2.46	3.65	0.674	ok	0.676	0.616-0.736
Freon 142B	1.96	3.65	0.537	ok	0.539	0.479-0.599
Freon 152A	1.86	3.65	0.510	ok	0.511	0.451-0.571
Heptane	6.01	4.99	1.204	ok	1.206	1.146-1.266
Hexachlorobutadiene	18.83	10.70	1.760	ok	1.759	1.699-1.819
Hexachloroethane	17.79	10.70	1.663	ok	1.662	1.602-1.722
Hexane	3.70	3.65	1.014	ok	1.015	0.955-1.075
2-Hexanone	8.36	4.99	1.675	ok	1.679	1.619-1.739
Iodomethane	2.70	3.65	0.740	ok	0.741	0.681-0.801
Isopropylbenzene	14.58	10.70	1.363	ok	1.362	1.302-1.422
Isopropyl Alcohol	2.55	3.65	0.699	ok	0.699	0.639-0.759
p-Isopropyltoluene	17.27	10.70	1.614	ok	1.613	1.553-1.673
Methylene chloride	2.77	3.65	0.759	ok	0.759	0.699-0.819
Methyl ethyl ketone	3.36	3.65	0.921	ok	0.922	0.862-0.982
Methyl Isobutyl Ketone	6.65	4.99	1.333	ok	1.335	1.275-1.395
Methyl Tert Butyl Ether	3.22	3.65	0.882	ok	0.883	0.823-0.943
Methylmethacrylate	5.90	4.99	1.182	ok	1.184	1.124-1.244
Naphthalene	18.57	10.70	1.736	ok	1.735	1.675-1.795
Nonane	14.17	10.70	1.324	ok	1.323	1.263-1.383
Octane	9.70	4.99	1.944	ok	1.945	1.885-2.005
Pentane	2.64	3.65	0.723	ok	0.725	0.665-0.785
n-Propylbenzene	15.92	10.70	1.488	ok	1.487	1.427-1.547

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	Reporting this level
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.89	3.65	0.518	ok	0.518	0.458-0.578
Styrene	12.84	10.70	1.200	ok	1.199	1.139-1.259
1,1,1-Trichloroethane	4.33	3.65	1.186	ok	1.187	1.127-1.247
1,1,1,2-Tetrachloroethane	10.80	10.70	1.009	ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.06	10.70	1.221	ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.41	4.99	1.485	ok	1.487	1.427-1.547
1,2,4-Trichlorobenzene	18.52	10.70	1.731	ok	1.730	1.670-1.790
1,2,3-Trichloropropane	13.35	10.70	1.248	ok	1.246	1.186-1.306
1,2,3-Trimethylbenzene	17.20	10.70	1.607	ok	1.607	1.547-1.667
1,2,4-Trimethylbenzene	16.83	10.70	1.573	ok	1.572	1.512-1.632
1,3,5-Trimethylbenzene	16.38	10.70	1.531	ok	1.530	1.470-1.590
2,2,4-Trimethylpentane	5.69	4.99	1.140	ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.74	3.65	0.751	ok	0.752	0.692-0.812
Tetrachloroethylene	9.56	4.99	1.916	ok	1.917	1.857-1.977
Tetrahydrofuran	3.94	3.65	1.079	ok	1.083	1.023-1.143
Toluene	7.79	4.99	1.561	ok	1.564	1.504-1.624
Trichloroethylene	5.59	4.99	1.120	ok	1.121	1.061-1.181
Trichlorofluoromethane	2.53	3.65	0.693	ok	0.694	0.634-0.754
Vinyl chloride	2.05	3.65	0.562	ok	0.563	0.503-0.623
Vinyl Acetate	3.26	3.65	0.893	ok	0.894	0.834-0.954
m,p-Xylene	12.12	10.70	1.133	ok	1.131	1.071-1.191
o-Xylene	13.05	10.70	1.220	ok	1.219	1.159-1.279

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.65	ok	3.65	3.32-3.98	52483	ok	52702	31621-73783
1,4-Difluorobenzene	4.99	ok	4.98	4.65-5.31	273864	ok	277051	166231-387871
Chlorobenzene-D5	10.70	ok	10.70	10.37-11.03	237365	ok	242287	145372-339202

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.47	3.65	0.677	ok	0.678	0.618-0.738
Acrolein	2.43	3.65	0.666	ok	0.667	0.607-0.727
Acrylonitrile	2.62	3.65	0.718	ok	0.717	0.657-0.777
Acetonitrile	2.39	3.65	0.655	ok	0.655	0.595-0.715
1,3-Butadiene	2.10	3.65	0.575	ok	0.577	0.517-0.637
Benzene	4.65	3.65	1.274	ok	1.275	1.215-1.335
Bromobenzene	14.46	10.71	1.350	ok	1.350	1.290-1.410
Bromodichloromethane	5.53	4.99	1.108	ok	1.109	1.049-1.169
Bromoform	11.93	10.71	1.114	ok	1.114	1.054-1.174
Bromomethane	2.20	3.65	0.603	ok	0.604	0.544-0.664
Bromoethene	2.40	3.65	0.658	ok	0.657	0.597-0.717
n-Butane	2.13	3.65	0.584	ok	0.583	0.523-0.643
Benzyl Chloride	16.91	10.71	1.579	ok	1.580	1.520-1.640
n-Butylbenzene	17.61	10.71	1.644	ok	1.645	1.585-1.705
sec-Butylbenzene	17.09	10.71	1.596	ok	1.597	1.537-1.657
tert-Butylbenzene	16.82	10.71	1.570	ok	1.571	1.511-1.631
Carbon disulfide	2.86	3.65	0.784	ok	0.785	0.725-0.845
Chlorobenzene	10.79	10.71	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.88	3.65	0.515	ok	0.515	0.455-0.575
Chloroethane	2.27	3.65	0.622	ok	0.622	0.562-0.682
Chlorotrifluoroethene	1.89	3.65	0.518	ok	0.519	0.459-0.579
Chloroform	3.73	3.65	1.022	ok	1.022	0.962-1.082
Chloromethane	1.97	3.65	0.540	ok	0.541	0.481-0.601
3-Chloropropene	2.81	3.65	0.770	ok	0.769	0.709-0.829
2-Chlorotoluene	15.59	10.71	1.456	ok	1.456	1.396-1.516
Carbon tetrachloride	4.77	3.65	1.307	ok	1.308	1.248-1.368
Cyclohexane	4.87	4.99	0.976	ok	0.977	0.917-1.037
1,1-Dichloroethane	3.18	3.65	0.871	ok	0.873	0.813-0.933
1,1-Dichloroethylene	2.73	3.65	0.748	ok	0.749	0.689-0.809
1,2-Dibromoethane (EDB)	8.70	4.99	1.743	ok	1.744	1.684-1.804
1,2-Dichloroethane	4.15	3.65	1.137	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.35	4.99	1.072	ok	1.072	1.012-1.132
1,3-Dichloropropane	7.86	4.99	1.575	ok	1.575	1.515-1.635
1,4-Dioxane	5.59	4.99	1.120	ok	1.124	1.064-1.184
Dichlorodifluoromethane	1.91	3.65	0.523	ok	0.525	0.465-0.585
Dichlorofluoromethane	2.30	3.65	0.630	ok	0.631	0.571-0.691
Dibromochloromethane	8.34	4.99	1.671	ok	1.673	1.613-1.733
Dibromomethane	5.31	4.99	1.064	ok	1.064	1.004-1.124
trans-1,2-Dichloroethylene	3.10	3.65	0.849	ok	0.850	0.790-0.910

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.57	3.65	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.56	4.99	1.315	ok	1.314	1.254-1.374
m-Dichlorobenzene	16.89	10.71	1.577	ok	1.577	1.517-1.637
o-Dichlorobenzene	17.26	10.71	1.612	ok	1.612	1.552-1.672
p-Dichlorobenzene	16.97	10.71	1.585	ok	1.585	1.525-1.645
trans-1,3-Dichloropropene	7.25	4.99	1.453	ok	1.454	1.394-1.514
Di-Isopropyl ether	3.71	3.65	1.016	ok	1.015	0.955-1.075
2,3-Dimethylpentane	5.14	4.99	1.030	ok	1.030	0.970-1.090
2,4-Dimethylpentane	4.24	3.65	1.162	ok	1.163	1.103-1.223
Ethanol	2.31	3.65	0.633	ok	0.633	0.573-0.693
Ethylbenzene	11.68	10.71	1.091	ok	1.091	1.031-1.151
Ethyl Acetate	3.71	3.65	1.016	ok	1.017	0.957-1.077
Ethyl Acrylate	5.47	4.99	1.096	ok	1.097	1.037-1.157
4-Ethyltoluene	16.24	10.71	1.516	ok	1.517	1.457-1.577
Freon 113	2.86	3.65	0.784	ok	0.785	0.725-0.845
Freon 114	2.01	3.65	0.551	ok	0.551	0.491-0.611
Freon 123	2.45	3.65	0.671	ok	0.671	0.611-0.731
Freon 123A	2.47	3.65	0.677	ok	0.676	0.616-0.736
Freon 142B	1.97	3.65	0.540	ok	0.539	0.479-0.599
Freon 152A	1.86	3.65	0.510	ok	0.511	0.451-0.571
Heptane	6.01	4.99	1.204	ok	1.206	1.146-1.266
Hexachlorobutadiene	18.82	10.71	1.757	ok	1.759	1.699-1.819
Hexachloroethane	17.79	10.71	1.661	ok	1.662	1.602-1.722
Hexane	3.70	3.65	1.014	ok	1.015	0.955-1.075
2-Hexanone	8.37	4.99	1.677	ok	1.679	1.619-1.739
Iodomethane	2.70	3.65	0.740	ok	0.741	0.681-0.801
Isopropylbenzene	14.58	10.71	1.361	ok	1.362	1.302-1.422
Isopropyl Alcohol	2.55	3.65	0.699	ok	0.699	0.639-0.759
p-Isopropyltoluene	17.27	10.71	1.613	ok	1.613	1.553-1.673
Methylene chloride	2.77	3.65	0.759	ok	0.759	0.699-0.819
Methyl ethyl ketone	3.36	3.65	0.921	ok	0.922	0.862-0.982
Methyl Isobutyl Ketone	6.66	4.99	1.335	ok	1.335	1.275-1.395
Methyl Tert Butyl Ether	3.22	3.65	0.882	ok	0.883	0.823-0.943
Methylmethacrylate	5.90	4.99	1.182	ok	1.184	1.124-1.244
Naphthalene	18.57	10.71	1.734	ok	1.735	1.675-1.795
Nonane	14.17	10.71	1.323	ok	1.323	1.263-1.383
Octane	9.70	4.99	1.944	ok	1.945	1.885-2.005
Pentane	2.65	3.65	0.726	ok	0.725	0.665-0.785
n-Propylbenzene	15.93	10.71	1.487	ok	1.487	1.427-1.547

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2529-IC2529	2W56780.D	12/20/21 12:01	DFT	0.5	GCMS2W	TO-15	
V2W2529-IC2529	2W56781.D	12/20/21 12:37	DFT	0.2	GCMS2W	TO-15	
V2W2529-IC2529	2W56782.D	12/20/21 13:12	DFT	0.1	GCMS2W	TO-15	
V2W2529-IC2529	2W56783.D	12/20/21 13:48	DFT	0.04	GCMS2W	TO-15	
V2W2529-IC2529	2W56784.D	12/20/21 14:23	DFT	5	GCMS2W	TO-15	
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	DFT	10	GCMS2W	TO-15	
V2W2529-IC2529	2W56786.D	12/20/21 15:36	DFT	20	GCMS2W	TO-15	
V2W2529-IC2529	2W56787.D	12/20/21 16:18	DFT	40	GCMS2W	TO-15	
V2W2529-IC2529	2W56788.D	12/20/21 17:01	DFT	50	GCMS2W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.89	3.65	0.518	ok	0.518	0.458-0.578
Styrene	12.84	10.71	1.199	ok	1.199	1.139-1.259
1,1,1-Trichloroethane	4.33	3.65	1.186	ok	1.187	1.127-1.247
1,1,1,2-Tetrachloroethane	10.80	10.71	1.008	ok	1.008	0.948-1.068
1,1,2,2-Tetrachloroethane	13.07	10.71	1.220	ok	1.220	1.160-1.280
1,1,2-Trichloroethane	7.42	4.99	1.487	ok	1.487	1.427-1.547
1,2,4-Trichlorobenzene	18.52	10.71	1.729	ok	1.730	1.670-1.790
1,2,3-Trichloropropane	13.35	10.71	1.246	ok	1.246	1.186-1.306
1,2,3-Trimethylbenzene	17.20	10.71	1.606	ok	1.607	1.547-1.667
1,2,4-Trimethylbenzene	16.83	10.71	1.571	ok	1.572	1.512-1.632
1,3,5-Trimethylbenzene	16.38	10.71	1.529	ok	1.530	1.470-1.590
2,2,4-Trimethylpentane	5.69	4.99	1.140	ok	1.140	1.080-1.200
Tertiary Butyl Alcohol	2.74	3.65	0.751	ok	0.752	0.692-0.812
Tetrachloroethylene	9.56	4.99	1.916	ok	1.917	1.857-1.977
Tetrahydrofuran	3.94	3.65	1.079	ok	1.083	1.023-1.143
Toluene	7.80	4.99	1.563	ok	1.564	1.504-1.624
Trichloroethylene	5.59	4.99	1.120	ok	1.121	1.061-1.181
Trichlorofluoromethane	2.53	3.65	0.693	ok	0.694	0.634-0.754
Vinyl chloride	2.05	3.65	0.562	ok	0.563	0.503-0.623
Vinyl Acetate	3.26	3.65	0.893	ok	0.894	0.834-0.954
m,p-Xylene	12.12	10.71	1.132	ok	1.131	1.071-1.191
o-Xylene	13.06	10.71	1.219	ok	1.219	1.159-1.279

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.65	ok	3.65	3.32-3.98	54833	ok	52702	31621-73783
1,4-Difluorobenzene	4.99	ok	4.98	4.65-5.31	280709	ok	277051	166231-387871
Chlorobenzene-D5	10.71	ok	10.70	10.37-11.03	240737	ok	242287	145372-339202

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	8.65	11.34	0.763	ok	0.761	0.701-0.821
Acrolein	8.07	11.34	0.712	ok	0.711	0.651-0.771
Acrylonitrile	10.07	11.34	0.888	ok	0.886	0.826-0.946
Acetonitrile	9.46	11.34	0.834	ok	0.833	0.773-0.893
1,3-Butadiene	5.06	11.34	0.446	ok	0.446	0.386-0.506
Benzene	12.51	11.34	1.103	ok	1.102	1.042-1.162
Bromobenzene	20.95	18.80	1.114	ok	1.114	1.054-1.174
Bromodichloromethane	14.51	13.54	1.072	ok	1.072	1.012-1.132
Bromoform	19.99	18.80	1.063	ok	1.063	1.003-1.123
Bromomethane	5.72	11.34	0.504	ok	0.503	0.443-0.563
Bromoethene	6.27	11.34	0.553	ok	0.552	0.492-0.612
n-Butane	4.89	11.34	0.431	ok	0.431	0.371-0.491
Benzyl Chloride	22.64	18.80	1.204	ok	1.204	1.144-1.264
n-Butylbenzene	22.66	18.80	1.205	ok	1.205	1.145-1.265
sec-Butylbenzene	21.94	18.80	1.167	ok	1.167	1.107-1.227
tert-Butylbenzene	21.70	18.80	1.154	ok	1.154	1.094-1.214
Carbon disulfide	7.48	11.34	0.660	ok	0.659	0.599-0.719
Chlorobenzene	18.84	18.80	1.002	ok	1.002	0.942-1.062
Chlorodifluoromethane	4.46	11.34	0.393	ok	0.393	0.333-0.453
Chloroethane	6.01	11.34	0.530	ok	0.530	0.470-0.590
Chlorotrifluoroethene	4.34	11.34	0.383	ok	0.382	0.322-0.442
Chloroform	11.48	11.34	1.012	ok	1.012	0.952-1.072
Chloromethane	4.79	11.34	0.422	ok	0.422	0.362-0.482
3-Chloropropene	8.37	11.34	0.738	ok	0.738	0.678-0.798
2-Chlorotoluene	21.22	18.80	1.129	ok	1.128	1.068-1.188
Carbon tetrachloride	11.77	11.34	1.038	ok	1.038	0.978-1.098
Cyclohexane	11.43	11.34	1.008	ok	1.008	0.948-1.068
1,1-Dichloroethane	10.03	11.34	0.884	ok	0.884	0.824-0.944
1,1-Dichloroethylene	7.43	11.34	0.655	ok	0.655	0.595-0.715
1,2-Dibromoethane (EDB)	17.86	13.54	1.319	ok	1.319	1.259-1.379
1,2-Dichloroethane	12.82	11.34	1.131	ok	1.130	1.070-1.190
1,2-Dichloropropane	14.40	13.54	1.064	ok	1.064	1.004-1.124
1,3-Dichloropropane	17.56	13.54	1.297	ok	1.297	1.237-1.357
1,4-Dioxane	14.85	13.54	1.097	ok	1.097	1.037-1.157
Dichlorodifluoromethane	4.38	11.34	0.386	ok	0.386	0.326-0.446
Dichlorofluoromethane	6.46	11.34	0.570	ok	0.569	0.509-0.629
Dibromochloromethane	17.41	13.54	1.286	ok	1.287	1.227-1.347
Dibromomethane	14.23	13.54	1.051	ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	8.91	11.34	0.786	ok	0.785	0.725-0.845

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	11.00	11.34	0.970	ok	0.970	0.910-1.030
cis-1,3-Dichloropropene	15.62	13.54	1.154	ok	1.154	1.094-1.214
m-Dichlorobenzene	22.24	18.80	1.183	ok	1.183	1.123-1.243
o-Dichlorobenzene	22.87	18.80	1.216	ok	1.216	1.156-1.276
p-Dichlorobenzene	22.35	18.80	1.189	ok	1.189	1.129-1.249
trans-1,3-Dichloropropene	16.77	13.54	1.239	ok	1.239	1.179-1.299
Di-Isopropyl ether	9.89	11.34	0.872	ok	0.871	0.811-0.931
2,3-Dimethylpentane	11.60	11.34	1.023	ok	1.023	0.963-1.083
2,4-Dimethylpentane	10.17	11.34	0.897	ok	0.897	0.837-0.957
Ethanol	7.35	11.34	0.648	ok	0.647	0.587-0.707
Ethylbenzene	18.89	18.80	1.005	ok	1.005	0.945-1.065
Ethyl Acetate	11.69	11.34	1.031	ok	1.030	0.970-1.090
Ethyl Acrylate	14.42	13.54	1.065	ok	1.065	1.005-1.125
4-Ethyltoluene	21.14	18.80	1.124	ok	1.124	1.064-1.184
Freon 113	7.54	11.34	0.665	ok	0.665	0.605-0.725
Freon 114	4.69	11.34	0.414	ok	0.413	0.353-0.473
Freon 123	7.55	11.34	0.666	ok	0.665	0.605-0.725
Freon 123A	7.43	11.34	0.655	ok	0.654	0.594-0.714
Freon 142B	4.78	11.34	0.422	ok	0.422	0.362-0.482
Freon 152A	4.39	11.34	0.387	ok	0.386	0.326-0.446
Heptane	12.50	13.54	0.923	ok	0.923	0.863-0.983
Hexachlorobutadiene	24.62	18.80	1.310	ok	1.310	1.250-1.370
Hexachloroethane	22.87	18.80	1.216	ok	1.216	1.156-1.276
Hexane	9.13	11.34	0.805	ok	0.804	0.744-0.864
2-Hexanone	18.22	13.54	1.346	ok	1.346	1.286-1.406
Iodomethane	7.69	11.34	0.678	ok	0.678	0.618-0.738
Isopropylbenzene	20.36	18.80	1.083	ok	1.083	1.023-1.143
Isopropyl Alcohol	8.47	11.34	0.747	ok	0.745	0.685-0.805
p-Isopropyltoluene	22.12	18.80	1.177	ok	1.177	1.117-1.237
Methylene chloride	8.57	11.34	0.756	ok	0.755	0.695-0.815
Methyl ethyl ketone	12.00	11.34	1.058	ok	1.055	0.995-1.115
Methyl Isobutyl Ketone	16.69	13.54	1.233	ok	1.233	1.173-1.293
Methyl Tert Butyl Ether	9.16	11.34	0.808	ok	0.807	0.747-0.867
Methylmethacrylate	14.77	13.54	1.091	ok	1.091	1.031-1.151
Naphthalene	25.09	18.80	1.335	ok	1.334	1.274-1.394
Nonane	18.74	18.80	0.997	ok	0.997	0.937-1.057
Octane	15.77	13.54	1.165	ok	1.165	1.105-1.225
Pentane	6.37	11.34	0.562	ok	0.561	0.501-0.621
n-Propylbenzene	20.98	18.80	1.116	ok	1.116	1.056-1.176

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	4.29	11.34	0.378	ok	0.378	0.318-0.438
Styrene	19.95	18.80	1.061	ok	1.061	1.001-1.121
1,1,1-Trichloroethane	11.87	11.34	1.047	ok	1.046	0.986-1.106
1,1,1,2-Tetrachloroethane	18.95	13.54	1.400	ok	1.400	1.340-1.460
1,1,2,2-Tetrachloroethane	21.05	18.80	1.120	ok	1.120	1.060-1.180
1,1,2-Trichloroethane	17.06	13.54	1.260	ok	1.260	1.200-1.320
1,2,4-Trichlorobenzene	24.67	18.80	1.312	ok	1.312	1.252-1.372
1,2,3-Trichloropropane	21.25	18.80	1.130	ok	1.130	1.070-1.190
1,2,3-Trimethylbenzene	22.37	18.80	1.190	ok	1.190	1.130-1.250
1,2,4-Trimethylbenzene	21.80	18.80	1.160	ok	1.159	1.099-1.219
1,3,5-Trimethylbenzene	21.26	18.80	1.131	ok	1.130	1.070-1.190
2,2,4-Trimethylpentane	12.32	13.54	0.910	ok	0.910	0.850-0.970
Tertiary Butyl Alcohol	9.32	11.34	0.822	ok	0.820	0.760-0.880
Tetrachloroethylene	16.79	13.54	1.240	ok	1.241	1.181-1.301
Tetrahydrofuran	11.79	11.34	1.040	ok	1.039	0.979-1.099
Toluene	16.06	13.54	1.186	ok	1.187	1.127-1.247
Trichloroethylene	13.53	13.54	0.999	ok	0.999	0.939-1.059
Trichlorofluoromethane	6.35	11.34	0.560	ok	0.560	0.500-0.620
Vinyl chloride	5.00	11.34	0.441	ok	0.441	0.381-0.501
Vinyl Acetate	10.50	11.34	0.926	ok	0.925	0.865-0.985
m,p-Xylene	19.15	18.80	1.019	ok	1.018	0.958-1.078
o-Xylene	19.87	18.80	1.057	ok	1.057	0.997-1.117
TVHC As Equiv Pentane	6.36	18.80	0.338	ok	0.338	0.278-0.398

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	11.34	ok	11.34	11.01-11.67	245040	ok	230245	138147-322343
1,4-Difluorobenzene	13.54	ok	13.54	13.21-13.87	949447	ok	864677	518806-1210548
Chlorobenzene-D5	18.80	ok	18.80	18.47-19.13	426196	ok	400502	240301-560703

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	8.65	11.34	0.763	ok	0.761	0.701-0.821
Acrolein	8.09	11.34	0.713	ok	0.711	0.651-0.771
Acrylonitrile	10.07	11.34	0.888	ok	0.886	0.826-0.946
Acetonitrile	9.46	11.34	0.834	ok	0.833	0.773-0.893
1,3-Butadiene	5.07	11.34	0.447	ok	0.446	0.386-0.506
Benzene	12.51	11.34	1.103	ok	1.102	1.042-1.162
Bromobenzene	20.96	18.80	1.115	ok	1.114	1.054-1.174
Bromodichloromethane	14.51	13.54	1.072	ok	1.072	1.012-1.132
Bromoform	19.99	18.80	1.063	ok	1.063	1.003-1.123
Bromomethane	5.71	11.34	0.504	ok	0.503	0.443-0.563
Bromoethene	6.28	11.34	0.554	ok	0.552	0.492-0.612
n-Butane	4.90	11.34	0.432	ok	0.431	0.371-0.491
Benzyl Chloride	22.65	18.80	1.205	ok	1.204	1.144-1.264
n-Butylbenzene	22.66	18.80	1.205	ok	1.205	1.145-1.265
sec-Butylbenzene	21.95	18.80	1.168	ok	1.167	1.107-1.227
tert-Butylbenzene	21.70	18.80	1.154	ok	1.154	1.094-1.214
Carbon disulfide	7.49	11.34	0.660	ok	0.659	0.599-0.719
Chlorobenzene	18.84	18.80	1.002	ok	1.002	0.942-1.062
Chlorodifluoromethane	4.46	11.34	0.393	ok	0.393	0.333-0.453
Chloroethane	6.01	11.34	0.530	ok	0.530	0.470-0.590
Chlorotrifluoroethene	4.34	11.34	0.383	ok	0.382	0.322-0.442
Chloroform	11.48	11.34	1.012	ok	1.012	0.952-1.072
Chloromethane	4.80	11.34	0.423	ok	0.422	0.362-0.482
3-Chloropropene	8.37	11.34	0.738	ok	0.738	0.678-0.798
2-Chlorotoluene	21.22	18.80	1.129	ok	1.128	1.068-1.188
Carbon tetrachloride	11.77	11.34	1.038	ok	1.038	0.978-1.098
Cyclohexane	11.43	11.34	1.008	ok	1.008	0.948-1.068
1,1-Dichloroethane	10.04	11.34	0.885	ok	0.884	0.824-0.944
1,1-Dichloroethylene	7.44	11.34	0.656	ok	0.655	0.595-0.715
1,2-Dibromoethane (EDB)	17.86	13.54	1.319	ok	1.319	1.259-1.379
1,2-Dichloroethane	12.83	11.34	1.131	ok	1.130	1.070-1.190
1,2-Dichloropropane	14.40	13.54	1.064	ok	1.064	1.004-1.124
1,3-Dichloropropane	17.56	13.54	1.297	ok	1.297	1.237-1.357
1,4-Dioxane	14.86	13.54	1.097	ok	1.097	1.037-1.157
Dichlorodifluoromethane	4.39	11.34	0.387	ok	0.386	0.326-0.446
Dichlorofluoromethane	6.46	11.34	0.570	ok	0.569	0.509-0.629
Dibromochloromethane	17.42	13.54	1.287	ok	1.287	1.227-1.347
Dibromomethane	14.24	13.54	1.052	ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	8.91	11.34	0.786	ok	0.785	0.725-0.845

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	11.00	11.34	0.970	ok	0.970	0.910-1.030
cis-1,3-Dichloropropene	15.62	13.54	1.154	ok	1.154	1.094-1.214
m-Dichlorobenzene	22.24	18.80	1.183	ok	1.183	1.123-1.243
o-Dichlorobenzene	22.87	18.80	1.216	ok	1.216	1.156-1.276
p-Dichlorobenzene	22.35	18.80	1.189	ok	1.189	1.129-1.249
trans-1,3-Dichloropropene	16.77	13.54	1.239	ok	1.239	1.179-1.299
Di-Isopropyl ether	9.89	11.34	0.872	ok	0.871	0.811-0.931
2,3-Dimethylpentane	11.60	11.34	1.023	ok	1.023	0.963-1.083
2,4-Dimethylpentane	10.18	11.34	0.898	ok	0.897	0.837-0.957
Ethanol	7.35	11.34	0.648	ok	0.647	0.587-0.707
Ethylbenzene	18.90	18.80	1.005	ok	1.005	0.945-1.065
Ethyl Acetate	11.71	11.34	1.033	ok	1.030	0.970-1.090
Ethyl Acrylate	14.45	13.54	1.067	ok	1.065	1.005-1.125
4-Ethyltoluene	21.14	18.80	1.124	ok	1.124	1.064-1.184
Freon 113	7.55	11.34	0.666	ok	0.665	0.605-0.725
Freon 114	4.69	11.34	0.414	ok	0.413	0.353-0.473
Freon 123	7.56	11.34	0.667	ok	0.665	0.605-0.725
Freon 123A	7.43	11.34	0.655	ok	0.654	0.594-0.714
Freon 142B	4.80	11.34	0.423	ok	0.422	0.362-0.482
Freon 152A	4.39	11.34	0.387	ok	0.386	0.326-0.446
Heptane	12.50	13.54	0.923	ok	0.923	0.863-0.983
Hexachlorobutadiene	24.63	18.80	1.310	ok	1.310	1.250-1.370
Hexachloroethane	22.87	18.80	1.216	ok	1.216	1.156-1.276
Hexane	9.12	11.34	0.804	ok	0.804	0.744-0.864
2-Hexanone	18.24	13.54	1.347	ok	1.346	1.286-1.406
Iodomethane	7.70	11.34	0.679	ok	0.678	0.618-0.738
Isopropylbenzene	20.37	18.80	1.084	ok	1.083	1.023-1.143
Isopropyl Alcohol	8.47	11.34	0.747	ok	0.745	0.685-0.805
p-Isopropyltoluene	22.13	18.80	1.177	ok	1.177	1.117-1.237
Methylene chloride	8.58	11.34	0.757	ok	0.755	0.695-0.815
Methyl ethyl ketone	12.01	11.34	1.059	ok	1.055	0.995-1.115
Methyl Isobutyl Ketone	16.70	13.54	1.233	ok	1.233	1.173-1.293
Methyl Tert Butyl Ether	9.18	11.34	0.810	ok	0.807	0.747-0.867
Methylmethacrylate	14.79	13.54	1.092	ok	1.091	1.031-1.151
Naphthalene	25.10	18.80	1.335	ok	1.334	1.274-1.394
Nonane	18.74	18.80	0.997	ok	0.997	0.937-1.057
Octane	15.78	13.54	1.165	ok	1.165	1.105-1.225
Pentane	6.37	11.34	0.562	ok	0.561	0.501-0.621
n-Propylbenzene	20.99	18.80	1.116	ok	1.116	1.056-1.176

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	4.30	11.34	0.379	ok	0.378	0.318-0.438
Styrene	19.95	18.80	1.061	ok	1.061	1.001-1.121
1,1,1-Trichloroethane	11.87	11.34	1.047	ok	1.046	0.986-1.106
1,1,1,2-Tetrachloroethane	18.95	13.54	1.400	ok	1.400	1.340-1.460
1,1,2,2-Tetrachloroethane	21.05	18.80	1.120	ok	1.120	1.060-1.180
1,1,2-Trichloroethane	17.07	13.54	1.261	ok	1.260	1.200-1.320
1,2,4-Trichlorobenzene	24.67	18.80	1.312	ok	1.312	1.252-1.372
1,2,3-Trichloropropane	21.25	18.80	1.130	ok	1.130	1.070-1.190
1,2,3-Trimethylbenzene	22.37	18.80	1.190	ok	1.190	1.130-1.250
1,2,4-Trimethylbenzene	21.80	18.80	1.160	ok	1.159	1.099-1.219
1,3,5-Trimethylbenzene	21.26	18.80	1.131	ok	1.130	1.070-1.190
2,2,4-Trimethylpentane	12.32	13.54	0.910	ok	0.910	0.850-0.970
Tertiary Butyl Alcohol	9.33	11.34	0.823	ok	0.820	0.760-0.880
Tetrachloroethylene	16.80	13.54	1.241	ok	1.241	1.181-1.301
Tetrahydrofuran	11.81	11.34	1.041	ok	1.039	0.979-1.099
Toluene	16.07	13.54	1.187	ok	1.187	1.127-1.247
Trichloroethylene	13.53	13.54	0.999	ok	0.999	0.939-1.059
Trichlorofluoromethane	6.36	11.34	0.561	ok	0.560	0.500-0.620
Vinyl chloride	5.01	11.34	0.442	ok	0.441	0.381-0.501
Vinyl Acetate	10.50	11.34	0.926	ok	0.925	0.865-0.985
m,p-Xylene	19.15	18.80	1.019	ok	1.018	0.958-1.078
o-Xylene	19.87	18.80	1.057	ok	1.057	0.997-1.117
TVHC As Equiv Pentane	6.36	18.80	0.338	ok	0.338	0.278-0.398

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	11.34	ok	11.34	11.01-11.67	241630	ok	230245	138147-322343
1,4-Difluorobenzene	13.54	ok	13.54	13.21-13.87	941746	ok	864677	518806-1210548
Chlorobenzene-D5	18.80	ok	18.80	18.47-19.13	421780	ok	400502	240301-560703

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	8.66	11.34	0.764	ok	0.761	0.701-0.821
Acrolein	8.08	11.34	0.713	ok	0.711	0.651-0.771
Acrylonitrile	10.07	11.34	0.888	ok	0.886	0.826-0.946
Acetonitrile	9.46	11.34	0.834	ok	0.833	0.773-0.893
1,3-Butadiene	5.06	11.34	0.446	ok	0.446	0.386-0.506
Benzene	12.51	11.34	1.103	ok	1.102	1.042-1.162
Bromobenzene	20.95	18.80	1.114	ok	1.114	1.054-1.174
Bromodichloromethane	14.52	13.53	1.073	ok	1.072	1.012-1.132
Bromoform	20.00	18.80	1.064	ok	1.063	1.003-1.123
Bromomethane	5.71	11.34	0.504	ok	0.503	0.443-0.563
Bromoethene	6.26	11.34	0.552	ok	0.552	0.492-0.612
n-Butane	4.89	11.34	0.431	ok	0.431	0.371-0.491
Benzyl Chloride	22.65	18.80	1.205	ok	1.204	1.144-1.264
n-Butylbenzene	22.67	18.80	1.206	ok	1.205	1.145-1.265
sec-Butylbenzene	21.94	18.80	1.167	ok	1.167	1.107-1.227
tert-Butylbenzene	21.70	18.80	1.154	ok	1.154	1.094-1.214
Carbon disulfide	7.48	11.34	0.660	ok	0.659	0.599-0.719
Chlorobenzene	18.84	18.80	1.002	ok	1.002	0.942-1.062
Chlorodifluoromethane	4.45	11.34	0.392	ok	0.393	0.333-0.453
Chloroethane	6.01	11.34	0.530	ok	0.530	0.470-0.590
Chlorotrifluoroethene	4.34	11.34	0.383	ok	0.382	0.322-0.442
Chloroform	11.48	11.34	1.012	ok	1.012	0.952-1.072
Chloromethane	4.79	11.34	0.422	ok	0.422	0.362-0.482
3-Chloropropene	8.37	11.34	0.738	ok	0.738	0.678-0.798
2-Chlorotoluene	21.22	18.80	1.129	ok	1.128	1.068-1.188
Carbon tetrachloride	11.77	11.34	1.038	ok	1.038	0.978-1.098
Cyclohexane	11.43	11.34	1.008	ok	1.008	0.948-1.068
1,1-Dichloroethane	10.04	11.34	0.885	ok	0.884	0.824-0.944
1,1-Dichloroethylene	7.43	11.34	0.655	ok	0.655	0.595-0.715
1,2-Dibromoethane (EDB)	17.86	13.53	1.320	ok	1.319	1.259-1.379
1,2-Dichloroethane	12.82	11.34	1.131	ok	1.130	1.070-1.190
1,2-Dichloropropane	14.40	13.53	1.064	ok	1.064	1.004-1.124
1,3-Dichloropropane	17.56	13.53	1.298	ok	1.297	1.237-1.357
1,4-Dioxane	14.87	13.53	1.099	ok	1.097	1.037-1.157
Dichlorodifluoromethane	4.38	11.34	0.386	ok	0.386	0.326-0.446
Dichlorofluoromethane	6.45	11.34	0.569	ok	0.569	0.509-0.629
Dibromochloromethane	17.42	13.53	1.288	ok	1.287	1.227-1.347
Dibromomethane	14.23	13.53	1.052	ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	8.91	11.34	0.786	ok	0.785	0.725-0.845

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	11.00	11.34	0.970	ok	0.970	0.910-1.030
cis-1,3-Dichloropropene	15.64	13.53	1.156	ok	1.154	1.094-1.214
m-Dichlorobenzene	22.24	18.80	1.183	ok	1.183	1.123-1.243
o-Dichlorobenzene	22.87	18.80	1.216	ok	1.216	1.156-1.276
p-Dichlorobenzene	22.35	18.80	1.189	ok	1.189	1.129-1.249
trans-1,3-Dichloropropene	16.78	13.53	1.240	ok	1.239	1.179-1.299
Di-Isopropyl ether	9.90	11.34	0.873	ok	0.871	0.811-0.931
2,3-Dimethylpentane	11.60	11.34	1.023	ok	1.023	0.963-1.083
2,4-Dimethylpentane	10.17	11.34	0.897	ok	0.897	0.837-0.957
Ethanol	7.35	11.34	0.648	ok	0.647	0.587-0.707
Ethylbenzene	18.90	18.80	1.005	ok	1.005	0.945-1.065
Ethyl Acetate	11.72	11.34	1.034	ok	1.030	0.970-1.090
Ethyl Acrylate	14.48	13.53	1.070	ok	1.065	1.005-1.125
4-Ethyltoluene	21.14	18.80	1.124	ok	1.124	1.064-1.184
Freon 113	7.54	11.34	0.665	ok	0.665	0.605-0.725
Freon 114	4.68	11.34	0.413	ok	0.413	0.353-0.473
Freon 123	7.54	11.34	0.665	ok	0.665	0.605-0.725
Freon 123A	7.43	11.34	0.655	ok	0.654	0.594-0.714
Freon 142B	4.78	11.34	0.422	ok	0.422	0.362-0.482
Freon 152A	4.39	11.34	0.387	ok	0.386	0.326-0.446
Heptane	12.49	13.53	0.923	ok	0.923	0.863-0.983
Hexachlorobutadiene	24.63	18.80	1.310	ok	1.310	1.250-1.370
Hexachloroethane	22.87	18.80	1.216	ok	1.216	1.156-1.276
Hexane	9.11	11.34	0.803	ok	0.804	0.744-0.864
2-Hexanone	18.25	13.53	1.349	ok	1.346	1.286-1.406
Iodomethane	7.69	11.34	0.678	ok	0.678	0.618-0.738
Isopropylbenzene	20.37	18.80	1.084	ok	1.083	1.023-1.143
Isopropyl Alcohol	8.49	11.34	0.749	ok	0.745	0.685-0.805
p-Isopropyltoluene	22.13	18.80	1.177	ok	1.177	1.117-1.237
Methyl ethyl ketone	12.02	11.34	1.060	ok	1.055	0.995-1.115
Methyl Isobutyl Ketone	16.70	13.53	1.234	ok	1.233	1.173-1.293
Methyl Tert Butyl Ether	9.18	11.34	0.810	ok	0.807	0.747-0.867
Methylmethacrylate	14.80	13.53	1.094	ok	1.091	1.031-1.151
Naphthalene	25.10	18.80	1.335	ok	1.334	1.274-1.394
Nonane	18.74	18.80	0.997	ok	0.997	0.937-1.057
Octane	15.77	13.53	1.166	ok	1.165	1.105-1.225
Pentane	6.36	11.34	0.561	ok	0.561	0.501-0.621
n-Propylbenzene	20.99	18.80	1.116	ok	1.116	1.056-1.176
Propylene	4.29	11.34	0.378	ok	0.378	0.318-0.438

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Styrene	19.95	18.80	1.061	ok	1.061	1.001-1.121
1,1,1-Trichloroethane	11.87	11.34	1.047	ok	1.046	0.986-1.106
1,1,1,2-Tetrachloroethane	18.95	13.53	1.401	ok	1.400	1.340-1.460
1,1,2,2-Tetrachloroethane	21.05	18.80	1.120	ok	1.120	1.060-1.180
1,1,2-Trichloroethane	17.07	13.53	1.262	ok	1.260	1.200-1.320
1,2,4-Trichlorobenzene	24.68	18.80	1.313	ok	1.312	1.252-1.372
1,2,3-Trichloropropane	21.25	18.80	1.130	ok	1.130	1.070-1.190
1,2,3-Trimethylbenzene	22.37	18.80	1.190	ok	1.190	1.130-1.250
1,2,4-Trimethylbenzene	21.80	18.80	1.160	ok	1.159	1.099-1.219
1,3,5-Trimethylbenzene	21.26	18.80	1.131	ok	1.130	1.070-1.190
2,2,4-Trimethylpentane	12.31	13.53	0.910	ok	0.910	0.850-0.970
Tertiary Butyl Alcohol	9.33	11.34	0.823	ok	0.820	0.760-0.880
Tetrachloroethylene	16.80	13.53	1.242	ok	1.241	1.181-1.301
Tetrahydrofuran	11.81	11.34	1.041	ok	1.039	0.979-1.099
Toluene	16.08	13.53	1.188	ok	1.187	1.127-1.247
Trichloroethylene	13.53	13.53	1.000	ok	0.999	0.939-1.059
Trichlorofluoromethane	6.34	11.34	0.559	ok	0.560	0.500-0.620
Vinyl chloride	5.00	11.34	0.441	ok	0.441	0.381-0.501
Vinyl Acetate	10.52	11.34	0.928	ok	0.925	0.865-0.985
m,p-Xylene	19.15	18.80	1.019	ok	1.018	0.958-1.078
o-Xylene	19.88	18.80	1.057	ok	1.057	0.997-1.117

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	11.34	ok	11.34	11.01-11.67	244849	ok	230245	138147-322343
1,4-Difluorobenzene	13.53	ok	13.54	13.21-13.87	960425	ok	864677	518806-1210548
Chlorobenzene-D5	18.80	ok	18.80	18.47-19.13	433185	ok	400502	240301-560703

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	8.66	11.34	0.764	ok	0.761	0.701-0.821
Acrolein	8.08	11.34	0.713	ok	0.711	0.651-0.771
Acrylonitrile	10.07	11.34	0.888	ok	0.886	0.826-0.946
Acetonitrile	9.47	11.34	0.835	ok	0.833	0.773-0.893
1,3-Butadiene	5.06	11.34	0.446	ok	0.446	0.386-0.506
Benzene	12.51	11.34	1.103	ok	1.102	1.042-1.162
Bromobenzene	20.95	18.80	1.114	ok	1.114	1.054-1.174
Bromodichloromethane	14.52	13.53	1.073	ok	1.072	1.012-1.132
Bromoform	20.00	18.80	1.064	ok	1.063	1.003-1.123
Bromomethane	5.71	11.34	0.504	ok	0.503	0.443-0.563
Bromoethene	6.26	11.34	0.552	ok	0.552	0.492-0.612
Benzyl Chloride	22.65	18.80	1.205	ok	1.204	1.144-1.264
n-Butylbenzene	22.67	18.80	1.206	ok	1.205	1.145-1.265
sec-Butylbenzene	21.96	18.80	1.168	ok	1.167	1.107-1.227
tert-Butylbenzene	21.70	18.80	1.154	ok	1.154	1.094-1.214
Carbon disulfide	7.47	11.34	0.659	ok	0.659	0.599-0.719
Chlorobenzene	18.84	18.80	1.002	ok	1.002	0.942-1.062
Chlorodifluoromethane	4.45	11.34	0.392	ok	0.393	0.333-0.453
Chloroethane	6.01	11.34	0.530	ok	0.530	0.470-0.590
Chlorotrifluoroethene	4.33	11.34	0.382	ok	0.382	0.322-0.442
Chloroform	11.48	11.34	1.012	ok	1.012	0.952-1.072
Chloromethane	4.79	11.34	0.422	ok	0.422	0.362-0.482
3-Chloropropene	8.37	11.34	0.738	ok	0.738	0.678-0.798
2-Chlorotoluene	21.22	18.80	1.129	ok	1.128	1.068-1.188
Carbon tetrachloride	11.78	11.34	1.039	ok	1.038	0.978-1.098
Cyclohexane	11.43	11.34	1.008	ok	1.008	0.948-1.068
1,1-Dichloroethane	10.03	11.34	0.884	ok	0.884	0.824-0.944
1,1-Dichloroethylene	7.42	11.34	0.654	ok	0.655	0.595-0.715
1,2-Dibromoethane (EDB)	17.87	13.53	1.321	ok	1.319	1.259-1.379
1,2-Dichloroethane	12.83	11.34	1.131	ok	1.130	1.070-1.190
1,2-Dichloropropane	14.41	13.53	1.065	ok	1.064	1.004-1.124
1,3-Dichloropropane	17.57	13.53	1.299	ok	1.297	1.237-1.357
1,4-Dioxane	14.88	13.53	1.100	ok	1.097	1.037-1.157
Dichlorodifluoromethane	4.37	11.34	0.385	ok	0.386	0.326-0.446
Dichlorofluoromethane	6.45	11.34	0.569	ok	0.569	0.509-0.629
Dibromochloromethane	17.42	13.53	1.288	ok	1.287	1.227-1.347
Dibromomethane	14.24	13.53	1.052	ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	8.91	11.34	0.786	ok	0.785	0.725-0.845
cis-1,2-Dichloroethylene	11.00	11.34	0.970	ok	0.970	0.910-1.030

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,3-Dichloropropene	15.63	13.53	1.155	ok	1.154	1.094-1.214
m-Dichlorobenzene	22.25	18.80	1.184	ok	1.183	1.123-1.243
o-Dichlorobenzene	22.88	18.80	1.217	ok	1.216	1.156-1.276
p-Dichlorobenzene	22.37	18.80	1.190	ok	1.189	1.129-1.249
trans-1,3-Dichloropropene	16.80	13.53	1.242	ok	1.239	1.179-1.299
Di-Isopropyl ether	9.91	11.34	0.874	ok	0.871	0.811-0.931
2,3-Dimethylpentane	11.60	11.34	1.023	ok	1.023	0.963-1.083
2,4-Dimethylpentane	10.18	11.34	0.898	ok	0.897	0.837-0.957
Ethanol	7.36	11.34	0.649	ok	0.647	0.587-0.707
Ethylbenzene	18.90	18.80	1.005	ok	1.005	0.945-1.065
4-Ethyltoluene	21.15	18.80	1.125	ok	1.124	1.064-1.184
Freon 113	7.54	11.34	0.665	ok	0.665	0.605-0.725
Freon 114	4.69	11.34	0.414	ok	0.413	0.353-0.473
Freon 123	7.55	11.34	0.666	ok	0.665	0.605-0.725
Freon 123A	7.41	11.34	0.653	ok	0.654	0.594-0.714
Freon 142B	4.79	11.34	0.422	ok	0.422	0.362-0.482
Freon 152A	4.39	11.34	0.387	ok	0.386	0.326-0.446
Heptane	12.50	13.53	0.924	ok	0.923	0.863-0.983
Hexachlorobutadiene	24.63	18.80	1.310	ok	1.310	1.250-1.370
Hexachloroethane	22.86	18.80	1.216	ok	1.216	1.156-1.276
Hexane	9.12	11.34	0.804	ok	0.804	0.744-0.864
2-Hexanone	18.28	13.53	1.351	ok	1.346	1.286-1.406
Iodomethane	7.70	11.34	0.679	ok	0.678	0.618-0.738
Isopropylbenzene	20.37	18.80	1.084	ok	1.083	1.023-1.143
Isopropyl Alcohol	8.48	11.34	0.748	ok	0.745	0.685-0.805
p-Isopropyltoluene	22.13	18.80	1.177	ok	1.177	1.117-1.237
Methyl ethyl ketone	11.82	11.34	1.042	ok	1.055	0.995-1.115
Methyl Isobutyl Ketone	16.72	13.53	1.236	ok	1.233	1.173-1.293
Methyl Tert Butyl Ether	9.19	11.34	0.810	ok	0.807	0.747-0.867
Naphthalene	25.11	18.80	1.336	ok	1.334	1.274-1.394
Nonane	18.74	18.80	0.997	ok	0.997	0.937-1.057
Octane	15.78	13.53	1.166	ok	1.165	1.105-1.225
Pentane	6.36	11.34	0.561	ok	0.561	0.501-0.621
n-Propylbenzene	20.99	18.80	1.116	ok	1.116	1.056-1.176
Propylene	4.29	11.34	0.378	ok	0.378	0.318-0.438
Styrene	19.97	18.80	1.062	ok	1.061	1.001-1.121
1,1,1-Trichloroethane	11.87	11.34	1.047	ok	1.046	0.986-1.106
1,1,1,2-Tetrachloroethane	18.95	13.53	1.401	ok	1.400	1.340-1.460
1,1,2,2-Tetrachloroethane	21.06	18.80	1.120	ok	1.120	1.060-1.180

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,2-Trichloroethane	17.06	13.53	1.261	ok	1.260	1.200-1.320
1,2,4-Trichlorobenzene	24.68	18.80	1.313	ok	1.312	1.252-1.372
1,2,3-Trichloropropane	21.25	18.80	1.130	ok	1.130	1.070-1.190
1,2,3-Trimethylbenzene	22.37	18.80	1.190	ok	1.190	1.130-1.250
1,2,4-Trimethylbenzene	21.80	18.80	1.160	ok	1.159	1.099-1.219
1,3,5-Trimethylbenzene	21.26	18.80	1.131	ok	1.130	1.070-1.190
2,2,4-Trimethylpentane	12.31	13.53	0.910	ok	0.910	0.850-0.970
Tertiary Butyl Alcohol	9.34	11.34	0.824	ok	0.820	0.760-0.880
Tetrachloroethylene	16.80	13.53	1.242	ok	1.241	1.181-1.301
Tetrahydrofuran	11.82	11.34	1.042	ok	1.039	0.979-1.099
Toluene	16.08	13.53	1.188	ok	1.187	1.127-1.247
Trichloroethylene	13.53	13.53	1.000	ok	0.999	0.939-1.059
Trichlorofluoromethane	6.35	11.34	0.560	ok	0.560	0.500-0.620
Vinyl chloride	5.00	11.34	0.441	ok	0.441	0.381-0.501
Vinyl Acetate	10.52	11.34	0.928	ok	0.925	0.865-0.985
m,p-Xylene	19.15	18.80	1.019	ok	1.018	0.958-1.078
o-Xylene	19.88	18.80	1.057	ok	1.057	0.997-1.117

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	11.34	ok	11.34	11.01-11.67	241213	ok	230245	138147-322343
1,4-Difluorobenzene	13.53	ok	13.54	13.21-13.87	946108	ok	864677	518806-1210548
Chlorobenzene-D5	18.80	ok	18.80	18.47-19.13	430604	ok	400502	240301-560703

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	Reporting this level
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	8.63	11.34	0.761	ok	0.761	0.701-0.821
Acrolein	8.05	11.34	0.710	ok	0.711	0.651-0.771
Acrylonitrile	10.04	11.34	0.885	ok	0.886	0.826-0.946
Acetonitrile	9.44	11.34	0.832	ok	0.833	0.773-0.893
1,3-Butadiene	5.05	11.34	0.445	ok	0.446	0.386-0.506
Benzene	12.50	11.34	1.102	ok	1.102	1.042-1.162
Bromobenzene	20.95	18.80	1.114	ok	1.114	1.054-1.174
Bromodichloromethane	14.51	13.54	1.072	ok	1.072	1.012-1.132
Bromoform	19.99	18.80	1.063	ok	1.063	1.003-1.123
Bromomethane	5.71	11.34	0.504	ok	0.503	0.443-0.563
Bromoethene	6.26	11.34	0.552	ok	0.552	0.492-0.612
n-Butane	4.89	11.34	0.431	ok	0.431	0.371-0.491
Benzyl Chloride	22.63	18.80	1.204	ok	1.204	1.144-1.264
n-Butylbenzene	22.66	18.80	1.205	ok	1.205	1.145-1.265
sec-Butylbenzene	21.94	18.80	1.167	ok	1.167	1.107-1.227
tert-Butylbenzene	21.70	18.80	1.154	ok	1.154	1.094-1.214
Carbon disulfide	7.47	11.34	0.659	ok	0.659	0.599-0.719
Chlorobenzene	18.84	18.80	1.002	ok	1.002	0.942-1.062
Chlorodifluoromethane	4.45	11.34	0.392	ok	0.393	0.333-0.453
Chloroethane	6.00	11.34	0.529	ok	0.530	0.470-0.590
Chlorotrifluoroethene	4.33	11.34	0.382	ok	0.382	0.322-0.442
Chloroform	11.48	11.34	1.012	ok	1.012	0.952-1.072
Chloromethane	4.78	11.34	0.422	ok	0.422	0.362-0.482
3-Chloropropene	8.37	11.34	0.738	ok	0.738	0.678-0.798
2-Chlorotoluene	21.21	18.80	1.128	ok	1.128	1.068-1.188
Carbon tetrachloride	11.77	11.34	1.038	ok	1.038	0.978-1.098
Cyclohexane	11.43	11.34	1.008	ok	1.008	0.948-1.068
1,1-Dichloroethane	10.03	11.34	0.884	ok	0.884	0.824-0.944
1,1-Dichloroethylene	7.43	11.34	0.655	ok	0.655	0.595-0.715
1,2-Dibromoethane (EDB)	17.86	13.54	1.319	ok	1.319	1.259-1.379
1,2-Dichloroethane	12.82	11.34	1.131	ok	1.130	1.070-1.190
1,2-Dichloropropane	14.39	13.54	1.063	ok	1.064	1.004-1.124
1,3-Dichloropropane	17.56	13.54	1.297	ok	1.297	1.237-1.357
1,4-Dioxane	14.83	13.54	1.095	ok	1.097	1.037-1.157
Dichlorodifluoromethane	4.37	11.34	0.385	ok	0.386	0.326-0.446
Dichlorofluoromethane	6.45	11.34	0.569	ok	0.569	0.509-0.629
Dibromochloromethane	17.41	13.54	1.286	ok	1.287	1.227-1.347
Dibromomethane	14.23	13.54	1.051	ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	8.91	11.34	0.786	ok	0.785	0.725-0.845

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	Reporting this level
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	11.00	11.34	0.970	ok	0.970	0.910-1.030
cis-1,3-Dichloropropene	15.61	13.54	1.153	ok	1.154	1.094-1.214
m-Dichlorobenzene	22.23	18.80	1.182	ok	1.183	1.123-1.243
o-Dichlorobenzene	22.87	18.80	1.216	ok	1.216	1.156-1.276
p-Dichlorobenzene	22.35	18.80	1.189	ok	1.189	1.129-1.249
trans-1,3-Dichloropropene	16.76	13.54	1.238	ok	1.239	1.179-1.299
Di-Isopropyl ether	9.87	11.34	0.870	ok	0.871	0.811-0.931
2,3-Dimethylpentane	11.60	11.34	1.023	ok	1.023	0.963-1.083
2,4-Dimethylpentane	10.17	11.34	0.897	ok	0.897	0.837-0.957
Ethanol	7.33	11.34	0.646	ok	0.647	0.587-0.707
Ethylbenzene	18.88	18.80	1.004	ok	1.005	0.945-1.065
Ethyl Acetate	11.67	11.34	1.029	ok	1.030	0.970-1.090
Ethyl Acrylate	14.39	13.54	1.063	ok	1.065	1.005-1.125
4-Ethyltoluene	21.14	18.80	1.124	ok	1.124	1.064-1.184
Freon 113	7.54	11.34	0.665	ok	0.665	0.605-0.725
Freon 114	4.68	11.34	0.413	ok	0.413	0.353-0.473
Freon 123	7.54	11.34	0.665	ok	0.665	0.605-0.725
Freon 123A	7.42	11.34	0.654	ok	0.654	0.594-0.714
Freon 142B	4.78	11.34	0.422	ok	0.422	0.362-0.482
Freon 152A	4.37	11.34	0.385	ok	0.386	0.326-0.446
Heptane	12.49	13.54	0.922	ok	0.923	0.863-0.983
Hexachlorobutadiene	24.63	18.80	1.310	ok	1.310	1.250-1.370
Hexachloroethane	22.87	18.80	1.216	ok	1.216	1.156-1.276
Hexane	9.11	11.34	0.803	ok	0.804	0.744-0.864
2-Hexanone	18.21	13.54	1.345	ok	1.346	1.286-1.406
Iodomethane	7.69	11.34	0.678	ok	0.678	0.618-0.738
Isopropylbenzene	20.36	18.80	1.083	ok	1.083	1.023-1.143
Isopropyl Alcohol	8.44	11.34	0.744	ok	0.745	0.685-0.805
p-Isopropyltoluene	22.12	18.80	1.177	ok	1.177	1.117-1.237
Methylene chloride	8.56	11.34	0.755	ok	0.755	0.695-0.815
Methyl ethyl ketone	11.97	11.34	1.056	ok	1.055	0.995-1.115
Methyl Isobutyl Ketone	16.68	13.54	1.232	ok	1.233	1.173-1.293
Methyl Tert Butyl Ether	9.14	11.34	0.806	ok	0.807	0.747-0.867
Methylmethacrylate	14.75	13.54	1.089	ok	1.091	1.031-1.151
Naphthalene	25.09	18.80	1.335	ok	1.334	1.274-1.394
Nonane	18.74	18.80	0.997	ok	0.997	0.937-1.057
Octane	15.77	13.54	1.165	ok	1.165	1.105-1.225
Pentane	6.36	11.34	0.561	ok	0.561	0.501-0.621
n-Propylbenzene	20.98	18.80	1.116	ok	1.116	1.056-1.176

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	Reporting this level
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	4.28	11.34	0.377	ok	0.378	0.318-0.438
Styrene	19.94	18.80	1.061	ok	1.061	1.001-1.121
1,1,1-Trichloroethane	11.87	11.34	1.047	ok	1.046	0.986-1.106
1,1,1,2-Tetrachloroethane	18.95	13.54	1.400	ok	1.400	1.340-1.460
1,1,2,2-Tetrachloroethane	21.05	18.80	1.120	ok	1.120	1.060-1.180
1,1,2-Trichloroethane	17.06	13.54	1.260	ok	1.260	1.200-1.320
1,2,4-Trichlorobenzene	24.67	18.80	1.312	ok	1.312	1.252-1.372
1,2,3-Trichloropropane	21.25	18.80	1.130	ok	1.130	1.070-1.190
1,2,3-Trimethylbenzene	22.37	18.80	1.190	ok	1.190	1.130-1.250
1,2,4-Trimethylbenzene	21.79	18.80	1.159	ok	1.159	1.099-1.219
1,3,5-Trimethylbenzene	21.25	18.80	1.130	ok	1.130	1.070-1.190
2,2,4-Trimethylpentane	12.31	13.54	0.909	ok	0.910	0.850-0.970
Tertiary Butyl Alcohol	9.29	11.34	0.819	ok	0.820	0.760-0.880
Tetrachloroethylene	16.79	13.54	1.240	ok	1.241	1.181-1.301
Tetrahydrofuran	11.77	11.34	1.038	ok	1.039	0.979-1.099
Toluene	16.06	13.54	1.186	ok	1.187	1.127-1.247
Trichloroethylene	13.53	13.54	0.999	ok	0.999	0.939-1.059
Trichlorofluoromethane	6.34	11.34	0.559	ok	0.560	0.500-0.620
Vinyl chloride	4.99	11.34	0.440	ok	0.441	0.381-0.501
Vinyl Acetate	10.47	11.34	0.923	ok	0.925	0.865-0.985
m,p-Xylene	19.14	18.80	1.018	ok	1.018	0.958-1.078
o-Xylene	19.87	18.80	1.057	ok	1.057	0.997-1.117
TVHC As Equiv Pentane	6.35	18.80	0.338	ok	0.338	0.278-0.398

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	11.34	ok	11.34	11.01-11.67	235763	ok	230245	138147-322343
1,4-Difluorobenzene	13.54	ok	13.54	13.21-13.87	917122	ok	864677	518806-1210548
Chlorobenzene-D5	18.80	ok	18.80	18.47-19.13	426029	ok	400502	240301-560703

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	8.63	11.35	0.760	ok	0.761	0.701-0.821
Acrolein	8.06	11.35	0.710	ok	0.711	0.651-0.771
Acrylonitrile	10.05	11.35	0.885	ok	0.886	0.826-0.946
Acetonitrile	9.44	11.35	0.832	ok	0.833	0.773-0.893
1,3-Butadiene	5.06	11.35	0.446	ok	0.446	0.386-0.506
Benzene	12.50	11.35	1.101	ok	1.102	1.042-1.162
Bromobenzene	20.95	18.81	1.114	ok	1.114	1.054-1.174
Bromodichloromethane	14.51	13.54	1.072	ok	1.072	1.012-1.132
Bromoform	19.99	18.81	1.063	ok	1.063	1.003-1.123
Bromomethane	5.71	11.35	0.503	ok	0.503	0.443-0.563
Bromoethene	6.27	11.35	0.552	ok	0.552	0.492-0.612
n-Butane	4.90	11.35	0.432	ok	0.431	0.371-0.491
Benzyl Chloride	22.63	18.81	1.203	ok	1.204	1.144-1.264
n-Butylbenzene	22.66	18.81	1.205	ok	1.205	1.145-1.265
sec-Butylbenzene	21.94	18.81	1.166	ok	1.167	1.107-1.227
tert-Butylbenzene	21.70	18.81	1.154	ok	1.154	1.094-1.214
Carbon disulfide	7.49	11.35	0.660	ok	0.659	0.599-0.719
Chlorobenzene	18.84	18.81	1.002	ok	1.002	0.942-1.062
Chlorodifluoromethane	4.46	11.35	0.393	ok	0.393	0.333-0.453
Chloroethane	6.02	11.35	0.530	ok	0.530	0.470-0.590
Chlorotrifluoroethene	4.34	11.35	0.382	ok	0.382	0.322-0.442
Chloroform	11.48	11.35	1.011	ok	1.012	0.952-1.072
Chloromethane	4.79	11.35	0.422	ok	0.422	0.362-0.482
3-Chloropropene	8.37	11.35	0.737	ok	0.738	0.678-0.798
2-Chlorotoluene	21.22	18.81	1.128	ok	1.128	1.068-1.188
Carbon tetrachloride	11.78	11.35	1.038	ok	1.038	0.978-1.098
Cyclohexane	11.43	11.35	1.007	ok	1.008	0.948-1.068
1,1-Dichloroethane	10.03	11.35	0.884	ok	0.884	0.824-0.944
1,1-Dichloroethylene	7.43	11.35	0.655	ok	0.655	0.595-0.715
1,2-Dibromoethane (EDB)	17.86	13.54	1.319	ok	1.319	1.259-1.379
1,2-Dichloroethane	12.82	11.35	1.130	ok	1.130	1.070-1.190
1,2-Dichloropropane	14.39	13.54	1.063	ok	1.064	1.004-1.124
1,3-Dichloropropane	17.56	13.54	1.297	ok	1.297	1.237-1.357
1,4-Dioxane	14.83	13.54	1.095	ok	1.097	1.037-1.157
Dichlorodifluoromethane	4.39	11.35	0.387	ok	0.386	0.326-0.446
Dichlorofluoromethane	6.46	11.35	0.569	ok	0.569	0.509-0.629
Dibromochloromethane	17.41	13.54	1.286	ok	1.287	1.227-1.347
Dibromomethane	14.23	13.54	1.051	ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	8.91	11.35	0.785	ok	0.785	0.725-0.845

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	11.00	11.35	0.969	ok	0.970	0.910-1.030
cis-1,3-Dichloropropene	15.61	13.54	1.153	ok	1.154	1.094-1.214
m-Dichlorobenzene	22.23	18.81	1.182	ok	1.183	1.123-1.243
o-Dichlorobenzene	22.87	18.81	1.216	ok	1.216	1.156-1.276
p-Dichlorobenzene	22.34	18.81	1.188	ok	1.189	1.129-1.249
trans-1,3-Dichloropropene	16.76	13.54	1.238	ok	1.239	1.179-1.299
Di-Isopropyl ether	9.87	11.35	0.870	ok	0.871	0.811-0.931
2,3-Dimethylpentane	11.60	11.35	1.022	ok	1.023	0.963-1.083
2,4-Dimethylpentane	10.18	11.35	0.897	ok	0.897	0.837-0.957
Ethanol	7.33	11.35	0.646	ok	0.647	0.587-0.707
Ethylbenzene	18.89	18.81	1.004	ok	1.005	0.945-1.065
Ethyl Acetate	11.67	11.35	1.028	ok	1.030	0.970-1.090
Ethyl Acrylate	14.39	13.54	1.063	ok	1.065	1.005-1.125
4-Ethyltoluene	21.14	18.81	1.124	ok	1.124	1.064-1.184
Freon 113	7.55	11.35	0.665	ok	0.665	0.605-0.725
Freon 114	4.69	11.35	0.413	ok	0.413	0.353-0.473
Freon 123	7.55	11.35	0.665	ok	0.665	0.605-0.725
Freon 123A	7.43	11.35	0.655	ok	0.654	0.594-0.714
Freon 142B	4.79	11.35	0.422	ok	0.422	0.362-0.482
Freon 152A	4.39	11.35	0.387	ok	0.386	0.326-0.446
Heptane	12.50	13.54	0.923	ok	0.923	0.863-0.983
Hexachlorobutadiene	24.62	18.81	1.309	ok	1.310	1.250-1.370
Hexachloroethane	22.87	18.81	1.216	ok	1.216	1.156-1.276
Hexane	9.12	11.35	0.804	ok	0.804	0.744-0.864
2-Hexanone	18.21	13.54	1.345	ok	1.346	1.286-1.406
Iodomethane	7.70	11.35	0.678	ok	0.678	0.618-0.738
Isopropylbenzene	20.36	18.81	1.082	ok	1.083	1.023-1.143
Isopropyl Alcohol	8.44	11.35	0.744	ok	0.745	0.685-0.805
p-Isopropyltoluene	22.12	18.81	1.176	ok	1.177	1.117-1.237
Methylene chloride	8.57	11.35	0.755	ok	0.755	0.695-0.815
Methyl ethyl ketone	11.97	11.35	1.055	ok	1.055	0.995-1.115
Methyl Isobutyl Ketone	16.68	13.54	1.232	ok	1.233	1.173-1.293
Methyl Tert Butyl Ether	9.15	11.35	0.806	ok	0.807	0.747-0.867
Methylmethacrylate	14.75	13.54	1.089	ok	1.091	1.031-1.151
Naphthalene	25.09	18.81	1.334	ok	1.334	1.274-1.394
Nonane	18.74	18.81	0.996	ok	0.997	0.937-1.057
Octane	15.77	13.54	1.165	ok	1.165	1.105-1.225
Pentane	6.37	11.35	0.561	ok	0.561	0.501-0.621
n-Propylbenzene	20.98	18.81	1.115	ok	1.116	1.056-1.176

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	4.29	11.35	0.378	ok	0.378	0.318-0.438
Styrene	19.94	18.81	1.060	ok	1.061	1.001-1.121
1,1,1-Trichloroethane	11.87	11.35	1.046	ok	1.046	0.986-1.106
1,1,1,2-Tetrachloroethane	18.95	13.54	1.400	ok	1.400	1.340-1.460
1,1,2,2-Tetrachloroethane	21.05	18.81	1.119	ok	1.120	1.060-1.180
1,1,2-Trichloroethane	17.06	13.54	1.260	ok	1.260	1.200-1.320
1,2,4-Trichlorobenzene	24.67	18.81	1.312	ok	1.312	1.252-1.372
1,2,3-Trichloropropane	21.25	18.81	1.130	ok	1.130	1.070-1.190
1,2,3-Trimethylbenzene	22.37	18.81	1.189	ok	1.190	1.130-1.250
1,2,4-Trimethylbenzene	21.79	18.81	1.158	ok	1.159	1.099-1.219
1,3,5-Trimethylbenzene	21.25	18.81	1.130	ok	1.130	1.070-1.190
2,2,4-Trimethylpentane	12.32	13.54	0.910	ok	0.910	0.850-0.970
Tertiary Butyl Alcohol	9.29	11.35	0.819	ok	0.820	0.760-0.880
Tetrachloroethylene	16.79	13.54	1.240	ok	1.241	1.181-1.301
Tetrahydrofuran	11.77	11.35	1.037	ok	1.039	0.979-1.099
Toluene	16.06	13.54	1.186	ok	1.187	1.127-1.247
Trichloroethylene	13.53	13.54	0.999	ok	0.999	0.939-1.059
Trichlorofluoromethane	6.36	11.35	0.560	ok	0.560	0.500-0.620
Vinyl chloride	5.00	11.35	0.441	ok	0.441	0.381-0.501
Vinyl Acetate	10.48	11.35	0.923	ok	0.925	0.865-0.985
m,p-Xylene	19.15	18.81	1.018	ok	1.018	0.958-1.078
o-Xylene	19.87	18.81	1.056	ok	1.057	0.997-1.117
TVHC As Equiv Pentane	6.36	18.81	0.338	ok	0.338	0.278-0.398

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	11.35	ok	11.34	11.01-11.67	227088	ok	230245	138147-322343
1,4-Difluorobenzene	13.54	ok	13.54	13.21-13.87	859663	ok	864677	518806-1210548
Chlorobenzene-D5	18.81	ok	18.80	18.47-19.13	390791	ok	400502	240301-560703

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	8.62	11.35	0.759	ok	0.761	0.701-0.821
Acrolein	8.05	11.35	0.709	ok	0.711	0.651-0.771
Acrylonitrile	10.04	11.35	0.885	ok	0.886	0.826-0.946
Acetonitrile	9.44	11.35	0.832	ok	0.833	0.773-0.893
1,3-Butadiene	5.05	11.35	0.445	ok	0.446	0.386-0.506
Benzene	12.50	11.35	1.101	ok	1.102	1.042-1.162
Bromobenzene	20.95	18.81	1.114	ok	1.114	1.054-1.174
Bromodichloromethane	14.51	13.54	1.072	ok	1.072	1.012-1.132
Bromoform	19.99	18.81	1.063	ok	1.063	1.003-1.123
Bromomethane	5.71	11.35	0.503	ok	0.503	0.443-0.563
Bromoethene	6.26	11.35	0.552	ok	0.552	0.492-0.612
n-Butane	4.89	11.35	0.431	ok	0.431	0.371-0.491
Benzyl Chloride	22.63	18.81	1.203	ok	1.204	1.144-1.264
n-Butylbenzene	22.66	18.81	1.205	ok	1.205	1.145-1.265
sec-Butylbenzene	21.94	18.81	1.166	ok	1.167	1.107-1.227
tert-Butylbenzene	21.70	18.81	1.154	ok	1.154	1.094-1.214
Carbon disulfide	7.48	11.35	0.659	ok	0.659	0.599-0.719
Chlorobenzene	18.84	18.81	1.002	ok	1.002	0.942-1.062
Chlorodifluoromethane	4.45	11.35	0.392	ok	0.393	0.333-0.453
Chloroethane	6.01	11.35	0.530	ok	0.530	0.470-0.590
Chlorotrifluoroethene	4.34	11.35	0.382	ok	0.382	0.322-0.442
Chloroform	11.48	11.35	1.011	ok	1.012	0.952-1.072
Chloromethane	4.78	11.35	0.421	ok	0.422	0.362-0.482
3-Chloropropene	8.37	11.35	0.737	ok	0.738	0.678-0.798
2-Chlorotoluene	21.22	18.81	1.128	ok	1.128	1.068-1.188
Carbon tetrachloride	11.78	11.35	1.038	ok	1.038	0.978-1.098
Cyclohexane	11.43	11.35	1.007	ok	1.008	0.948-1.068
1,1-Dichloroethane	10.03	11.35	0.884	ok	0.884	0.824-0.944
1,1-Dichloroethylene	7.43	11.35	0.655	ok	0.655	0.595-0.715
1,2-Dibromoethane (EDB)	17.86	13.54	1.319	ok	1.319	1.259-1.379
1,2-Dichloroethane	12.82	11.35	1.130	ok	1.130	1.070-1.190
1,2-Dichloropropane	14.39	13.54	1.063	ok	1.064	1.004-1.124
1,3-Dichloropropane	17.56	13.54	1.297	ok	1.297	1.237-1.357
1,4-Dioxane	14.83	13.54	1.095	ok	1.097	1.037-1.157
Dichlorodifluoromethane	4.38	11.35	0.386	ok	0.386	0.326-0.446
Dichlorofluoromethane	6.45	11.35	0.568	ok	0.569	0.509-0.629
Dibromochloromethane	17.42	13.54	1.287	ok	1.287	1.227-1.347
Dibromomethane	14.23	13.54	1.051	ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	8.91	11.35	0.785	ok	0.785	0.725-0.845

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	11.00	11.35	0.969	ok	0.970	0.910-1.030
cis-1,3-Dichloropropene	15.61	13.54	1.153	ok	1.154	1.094-1.214
m-Dichlorobenzene	22.24	18.81	1.182	ok	1.183	1.123-1.243
o-Dichlorobenzene	22.87	18.81	1.216	ok	1.216	1.156-1.276
p-Dichlorobenzene	22.35	18.81	1.188	ok	1.189	1.129-1.249
trans-1,3-Dichloropropene	16.76	13.54	1.238	ok	1.239	1.179-1.299
Di-Isopropyl ether	9.87	11.35	0.870	ok	0.871	0.811-0.931
2,3-Dimethylpentane	11.60	11.35	1.022	ok	1.023	0.963-1.083
2,4-Dimethylpentane	10.17	11.35	0.896	ok	0.897	0.837-0.957
Ethanol	7.32	11.35	0.645	ok	0.647	0.587-0.707
Ethylbenzene	18.89	18.81	1.004	ok	1.005	0.945-1.065
Ethyl Acetate	11.67	11.35	1.028	ok	1.030	0.970-1.090
Ethyl Acrylate	14.39	13.54	1.063	ok	1.065	1.005-1.125
4-Ethyltoluene	21.14	18.81	1.124	ok	1.124	1.064-1.184
Freon 113	7.54	11.35	0.664	ok	0.665	0.605-0.725
Freon 114	4.69	11.35	0.413	ok	0.413	0.353-0.473
Freon 123	7.55	11.35	0.665	ok	0.665	0.605-0.725
Freon 123A	7.43	11.35	0.655	ok	0.654	0.594-0.714
Freon 142B	4.78	11.35	0.421	ok	0.422	0.362-0.482
Freon 152A	4.38	11.35	0.386	ok	0.386	0.326-0.446
Heptane	12.50	13.54	0.923	ok	0.923	0.863-0.983
Hexachlorobutadiene	24.63	18.81	1.309	ok	1.310	1.250-1.370
Hexachloroethane	22.87	18.81	1.216	ok	1.216	1.156-1.276
Hexane	9.12	11.35	0.804	ok	0.804	0.744-0.864
2-Hexanone	18.21	13.54	1.345	ok	1.346	1.286-1.406
Iodomethane	7.70	11.35	0.678	ok	0.678	0.618-0.738
Isopropylbenzene	20.36	18.81	1.082	ok	1.083	1.023-1.143
Isopropyl Alcohol	8.44	11.35	0.744	ok	0.745	0.685-0.805
p-Isopropyltoluene	22.13	18.81	1.177	ok	1.177	1.117-1.237
Methylene chloride	8.56	11.35	0.754	ok	0.755	0.695-0.815
Methyl ethyl ketone	11.96	11.35	1.054	ok	1.055	0.995-1.115
Methyl Isobutyl Ketone	16.68	13.54	1.232	ok	1.233	1.173-1.293
Methyl Tert Butyl Ether	9.14	11.35	0.805	ok	0.807	0.747-0.867
Methylmethacrylate	14.75	13.54	1.089	ok	1.091	1.031-1.151
Naphthalene	25.09	18.81	1.334	ok	1.334	1.274-1.394
Nonane	18.74	18.81	0.996	ok	0.997	0.937-1.057
Octane	15.77	13.54	1.165	ok	1.165	1.105-1.225
Pentane	6.37	11.35	0.561	ok	0.561	0.501-0.621
n-Propylbenzene	20.98	18.81	1.115	ok	1.116	1.056-1.176

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	4.28	11.35	0.377	ok	0.378	0.318-0.438
Styrene	19.94	18.81	1.060	ok	1.061	1.001-1.121
1,1,1-Trichloroethane	11.87	11.35	1.046	ok	1.046	0.986-1.106
1,1,1,2-Tetrachloroethane	18.95	13.54	1.400	ok	1.400	1.340-1.460
1,1,2,2-Tetrachloroethane	21.05	18.81	1.119	ok	1.120	1.060-1.180
1,1,2-Trichloroethane	17.06	13.54	1.260	ok	1.260	1.200-1.320
1,2,4-Trichlorobenzene	24.67	18.81	1.312	ok	1.312	1.252-1.372
1,2,3-Trichloropropane	21.25	18.81	1.130	ok	1.130	1.070-1.190
1,2,3-Trimethylbenzene	22.37	18.81	1.189	ok	1.190	1.130-1.250
1,2,4-Trimethylbenzene	21.79	18.81	1.158	ok	1.159	1.099-1.219
1,3,5-Trimethylbenzene	21.26	18.81	1.130	ok	1.130	1.070-1.190
2,2,4-Trimethylpentane	12.32	13.54	0.910	ok	0.910	0.850-0.970
Tertiary Butyl Alcohol	9.28	11.35	0.818	ok	0.820	0.760-0.880
Tetrachloroethylene	16.80	13.54	1.241	ok	1.241	1.181-1.301
Tetrahydrofuran	11.76	11.35	1.036	ok	1.039	0.979-1.099
Toluene	16.06	13.54	1.186	ok	1.187	1.127-1.247
Trichloroethylene	13.53	13.54	0.999	ok	0.999	0.939-1.059
Trichlorofluoromethane	6.35	11.35	0.559	ok	0.560	0.500-0.620
Vinyl chloride	5.00	11.35	0.441	ok	0.441	0.381-0.501
Vinyl Acetate	10.47	11.35	0.922	ok	0.925	0.865-0.985
m,p-Xylene	19.15	18.81	1.018	ok	1.018	0.958-1.078
o-Xylene	19.87	18.81	1.056	ok	1.057	0.997-1.117
TVHC As Equiv Pentane	6.36	18.81	0.338	ok	0.338	0.278-0.398

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	11.35	ok	11.34	11.01-11.67	220817	ok	230245	138147-322343
1,4-Difluorobenzene	13.54	ok	13.54	13.21-13.87	810827	ok	864677	518806-1210548
Chlorobenzene-D5	18.81	ok	18.80	18.47-19.13	385541	ok	400502	240301-560703

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	8.62	11.35	0.759	ok	0.761	0.701-0.821
Acrolein	8.05	11.35	0.709	ok	0.711	0.651-0.771
Acrylonitrile	10.05	11.35	0.885	ok	0.886	0.826-0.946
Acetonitrile	9.44	11.35	0.832	ok	0.833	0.773-0.893
1,3-Butadiene	5.05	11.35	0.445	ok	0.446	0.386-0.506
Benzene	12.51	11.35	1.102	ok	1.102	1.042-1.162
Bromobenzene	20.95	18.81	1.114	ok	1.114	1.054-1.174
Bromodichloromethane	14.51	13.54	1.072	ok	1.072	1.012-1.132
Bromoform	20.00	18.81	1.063	ok	1.063	1.003-1.123
Bromomethane	5.71	11.35	0.503	ok	0.503	0.443-0.563
Bromoethene	6.26	11.35	0.552	ok	0.552	0.492-0.612
n-Butane	4.89	11.35	0.431	ok	0.431	0.371-0.491
Benzyl Chloride	22.64	18.81	1.204	ok	1.204	1.144-1.264
n-Butylbenzene	22.67	18.81	1.205	ok	1.205	1.145-1.265
sec-Butylbenzene	21.95	18.81	1.167	ok	1.167	1.107-1.227
tert-Butylbenzene	21.71	18.81	1.154	ok	1.154	1.094-1.214
Carbon disulfide	7.48	11.35	0.659	ok	0.659	0.599-0.719
Chlorobenzene	18.85	18.81	1.002	ok	1.002	0.942-1.062
Chlorodifluoromethane	4.45	11.35	0.392	ok	0.393	0.333-0.453
Chloroethane	6.01	11.35	0.530	ok	0.530	0.470-0.590
Chlorotrifluoroethene	4.34	11.35	0.382	ok	0.382	0.322-0.442
Chloroform	11.48	11.35	1.011	ok	1.012	0.952-1.072
Chloromethane	4.78	11.35	0.421	ok	0.422	0.362-0.482
3-Chloropropene	8.37	11.35	0.737	ok	0.738	0.678-0.798
2-Chlorotoluene	21.22	18.81	1.128	ok	1.128	1.068-1.188
Carbon tetrachloride	11.78	11.35	1.038	ok	1.038	0.978-1.098
Cyclohexane	11.43	11.35	1.007	ok	1.008	0.948-1.068
1,1-Dichloroethane	10.03	11.35	0.884	ok	0.884	0.824-0.944
1,1-Dichloroethylene	7.43	11.35	0.655	ok	0.655	0.595-0.715
1,2-Dibromoethane (EDB)	17.86	13.54	1.319	ok	1.319	1.259-1.379
1,2-Dichloroethane	12.82	11.35	1.130	ok	1.130	1.070-1.190
1,2-Dichloropropane	14.40	13.54	1.064	ok	1.064	1.004-1.124
1,3-Dichloropropane	17.56	13.54	1.297	ok	1.297	1.237-1.357
1,4-Dioxane	14.83	13.54	1.095	ok	1.097	1.037-1.157
Dichlorodifluoromethane	4.37	11.35	0.385	ok	0.386	0.326-0.446
Dichlorofluoromethane	6.45	11.35	0.568	ok	0.569	0.509-0.629
Dibromochloromethane	17.42	13.54	1.287	ok	1.287	1.227-1.347
Dibromomethane	14.23	13.54	1.051	ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	8.91	11.35	0.785	ok	0.785	0.725-0.845

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	11.00	11.35	0.969	ok	0.970	0.910-1.030
cis-1,3-Dichloropropene	15.62	13.54	1.154	ok	1.154	1.094-1.214
m-Dichlorobenzene	22.24	18.81	1.182	ok	1.183	1.123-1.243
o-Dichlorobenzene	22.88	18.81	1.216	ok	1.216	1.156-1.276
p-Dichlorobenzene	22.35	18.81	1.188	ok	1.189	1.129-1.249
trans-1,3-Dichloropropene	16.77	13.54	1.239	ok	1.239	1.179-1.299
Di-Isopropyl ether	9.87	11.35	0.870	ok	0.871	0.811-0.931
2,3-Dimethylpentane	11.61	11.35	1.023	ok	1.023	0.963-1.083
2,4-Dimethylpentane	10.18	11.35	0.897	ok	0.897	0.837-0.957
Ethanol	7.32	11.35	0.645	ok	0.647	0.587-0.707
Ethylbenzene	18.90	18.81	1.005	ok	1.005	0.945-1.065
Ethyl Acetate	11.67	11.35	1.028	ok	1.030	0.970-1.090
Ethyl Acrylate	14.39	13.54	1.063	ok	1.065	1.005-1.125
4-Ethyltoluene	21.15	18.81	1.124	ok	1.124	1.064-1.184
Freon 113	7.54	11.35	0.664	ok	0.665	0.605-0.725
Freon 114	4.69	11.35	0.413	ok	0.413	0.353-0.473
Freon 123	7.55	11.35	0.665	ok	0.665	0.605-0.725
Freon 123A	7.42	11.35	0.654	ok	0.654	0.594-0.714
Freon 142B	4.78	11.35	0.421	ok	0.422	0.362-0.482
Freon 152A	4.38	11.35	0.386	ok	0.386	0.326-0.446
Heptane	12.50	13.54	0.923	ok	0.923	0.863-0.983
Hexachlorobutadiene	24.63	18.81	1.309	ok	1.310	1.250-1.370
Hexachloroethane	22.87	18.81	1.216	ok	1.216	1.156-1.276
Hexane	9.11	11.35	0.803	ok	0.804	0.744-0.864
2-Hexanone	18.21	13.54	1.345	ok	1.346	1.286-1.406
Iodomethane	7.70	11.35	0.678	ok	0.678	0.618-0.738
Isopropylbenzene	20.36	18.81	1.082	ok	1.083	1.023-1.143
Isopropyl Alcohol	8.44	11.35	0.744	ok	0.745	0.685-0.805
p-Isopropyltoluene	22.13	18.81	1.177	ok	1.177	1.117-1.237
Methylene chloride	8.56	11.35	0.754	ok	0.755	0.695-0.815
Methyl ethyl ketone	11.97	11.35	1.055	ok	1.055	0.995-1.115
Methyl Isobutyl Ketone	16.68	13.54	1.232	ok	1.233	1.173-1.293
Methyl Tert Butyl Ether	9.14	11.35	0.805	ok	0.807	0.747-0.867
Methylmethacrylate	14.75	13.54	1.089	ok	1.091	1.031-1.151
Naphthalene	25.09	18.81	1.334	ok	1.334	1.274-1.394
Nonane	18.75	18.81	0.997	ok	0.997	0.937-1.057
Octane	15.78	13.54	1.165	ok	1.165	1.105-1.225
Pentane	6.37	11.35	0.561	ok	0.561	0.501-0.621
n-Propylbenzene	20.99	18.81	1.116	ok	1.116	1.056-1.176

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	Reporting this level
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	4.28	11.35	0.377	ok	0.378	0.318-0.438
Styrene	19.95	18.81	1.061	ok	1.061	1.001-1.121
1,1,1-Trichloroethane	11.87	11.35	1.046	ok	1.046	0.986-1.106
1,1,1,2-Tetrachloroethane	18.95	13.54	1.400	ok	1.400	1.340-1.460
1,1,2,2-Tetrachloroethane	21.05	18.81	1.119	ok	1.120	1.060-1.180
1,1,2-Trichloroethane	17.06	13.54	1.260	ok	1.260	1.200-1.320
1,2,4-Trichlorobenzene	24.67	18.81	1.312	ok	1.312	1.252-1.372
1,2,3-Trichloropropane	21.25	18.81	1.130	ok	1.130	1.070-1.190
1,2,3-Trimethylbenzene	22.37	18.81	1.189	ok	1.190	1.130-1.250
1,2,4-Trimethylbenzene	21.80	18.81	1.159	ok	1.159	1.099-1.219
1,3,5-Trimethylbenzene	21.26	18.81	1.130	ok	1.130	1.070-1.190
2,2,4-Trimethylpentane	12.32	13.54	0.910	ok	0.910	0.850-0.970
Tertiary Butyl Alcohol	9.29	11.35	0.819	ok	0.820	0.760-0.880
Tetrachloroethylene	16.80	13.54	1.241	ok	1.241	1.181-1.301
Tetrahydrofuran	11.76	11.35	1.036	ok	1.039	0.979-1.099
Toluene	16.06	13.54	1.186	ok	1.187	1.127-1.247
Trichloroethylene	13.53	13.54	0.999	ok	0.999	0.939-1.059
Trichlorofluoromethane	6.35	11.35	0.559	ok	0.560	0.500-0.620
Vinyl chloride	5.00	11.35	0.441	ok	0.441	0.381-0.501
Vinyl Acetate	10.48	11.35	0.923	ok	0.925	0.865-0.985
m,p-Xylene	19.15	18.81	1.018	ok	1.018	0.958-1.078
o-Xylene	19.88	18.81	1.057	ok	1.057	0.997-1.117
TVHC As Equiv Pentane	6.36	18.81	0.338	ok	0.338	0.278-0.398

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	11.35	ok	11.34	11.01-11.67	209729	ok	230245	138147-322343
1,4-Difluorobenzene	13.54	ok	13.54	13.21-13.87	718503	ok	864677	518806-1210548
Chlorobenzene-D5	18.81	ok	18.80	18.47-19.13	351634	ok	400502	240301-560703

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	8.62	11.35	0.759	ok	0.761	0.701-0.821
Acrolein	8.05	11.35	0.709	ok	0.711	0.651-0.771
Acrylonitrile	10.05	11.35	0.885	ok	0.886	0.826-0.946
Acetonitrile	9.44	11.35	0.832	ok	0.833	0.773-0.893
1,3-Butadiene	5.05	11.35	0.445	ok	0.446	0.386-0.506
Benzene	12.51	11.35	1.102	ok	1.102	1.042-1.162
Bromobenzene	20.95	18.81	1.114	ok	1.114	1.054-1.174
Bromodichloromethane	14.51	13.54	1.072	ok	1.072	1.012-1.132
Bromoform	20.00	18.81	1.063	ok	1.063	1.003-1.123
Bromomethane	5.71	11.35	0.503	ok	0.503	0.443-0.563
Bromoethene	6.26	11.35	0.552	ok	0.552	0.492-0.612
n-Butane	4.89	11.35	0.431	ok	0.431	0.371-0.491
Benzyl Chloride	22.64	18.81	1.204	ok	1.204	1.144-1.264
n-Butylbenzene	22.67	18.81	1.205	ok	1.205	1.145-1.265
sec-Butylbenzene	21.95	18.81	1.167	ok	1.167	1.107-1.227
tert-Butylbenzene	21.71	18.81	1.154	ok	1.154	1.094-1.214
Carbon disulfide	7.48	11.35	0.659	ok	0.659	0.599-0.719
Chlorobenzene	18.85	18.81	1.002	ok	1.002	0.942-1.062
Chlorodifluoromethane	4.45	11.35	0.392	ok	0.393	0.333-0.453
Chloroethane	6.01	11.35	0.530	ok	0.530	0.470-0.590
Chlorotrifluoroethene	4.33	11.35	0.381	ok	0.382	0.322-0.442
Chloroform	11.49	11.35	1.012	ok	1.012	0.952-1.072
Chloromethane	4.78	11.35	0.421	ok	0.422	0.362-0.482
3-Chloropropene	8.37	11.35	0.737	ok	0.738	0.678-0.798
2-Chlorotoluene	21.22	18.81	1.128	ok	1.128	1.068-1.188
Carbon tetrachloride	11.78	11.35	1.038	ok	1.038	0.978-1.098
Cyclohexane	11.43	11.35	1.007	ok	1.008	0.948-1.068
1,1-Dichloroethane	10.04	11.35	0.885	ok	0.884	0.824-0.944
1,1-Dichloroethylene	7.43	11.35	0.655	ok	0.655	0.595-0.715
1,2-Dibromoethane (EDB)	17.86	13.54	1.319	ok	1.319	1.259-1.379
1,2-Dichloroethane	12.82	11.35	1.130	ok	1.130	1.070-1.190
1,2-Dichloropropane	14.40	13.54	1.064	ok	1.064	1.004-1.124
1,3-Dichloropropane	17.57	13.54	1.298	ok	1.297	1.237-1.357
1,4-Dioxane	14.83	13.54	1.095	ok	1.097	1.037-1.157
Dichlorodifluoromethane	4.37	11.35	0.385	ok	0.386	0.326-0.446
Dichlorofluoromethane	6.45	11.35	0.568	ok	0.569	0.509-0.629
Dibromochloromethane	17.42	13.54	1.287	ok	1.287	1.227-1.347
Dibromomethane	14.23	13.54	1.051	ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	8.91	11.35	0.785	ok	0.785	0.725-0.845

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	11.00	11.35	0.969	ok	0.970	0.910-1.030
cis-1,3-Dichloropropene	15.62	13.54	1.154	ok	1.154	1.094-1.214
m-Dichlorobenzene	22.24	18.81	1.182	ok	1.183	1.123-1.243
o-Dichlorobenzene	22.88	18.81	1.216	ok	1.216	1.156-1.276
p-Dichlorobenzene	22.35	18.81	1.188	ok	1.189	1.129-1.249
trans-1,3-Dichloropropene	16.77	13.54	1.239	ok	1.239	1.179-1.299
Di-Isopropyl ether	9.87	11.35	0.870	ok	0.871	0.811-0.931
2,3-Dimethylpentane	11.61	11.35	1.023	ok	1.023	0.963-1.083
2,4-Dimethylpentane	10.19	11.35	0.898	ok	0.897	0.837-0.957
Ethanol	7.33	11.35	0.646	ok	0.647	0.587-0.707
Ethylbenzene	18.90	18.81	1.005	ok	1.005	0.945-1.065
Ethyl Acetate	11.68	11.35	1.029	ok	1.030	0.970-1.090
Ethyl Acrylate	14.39	13.54	1.063	ok	1.065	1.005-1.125
4-Ethyltoluene	21.15	18.81	1.124	ok	1.124	1.064-1.184
Freon 113	7.54	11.35	0.664	ok	0.665	0.605-0.725
Freon 114	4.69	11.35	0.413	ok	0.413	0.353-0.473
Freon 123	7.55	11.35	0.665	ok	0.665	0.605-0.725
Freon 123A	7.42	11.35	0.654	ok	0.654	0.594-0.714
Freon 142B	4.78	11.35	0.421	ok	0.422	0.362-0.482
Freon 152A	4.38	11.35	0.386	ok	0.386	0.326-0.446
Heptane	12.50	13.54	0.923	ok	0.923	0.863-0.983
Hexachlorobutadiene	24.63	18.81	1.309	ok	1.310	1.250-1.370
Hexachloroethane	22.87	18.81	1.216	ok	1.216	1.156-1.276
Hexane	9.12	11.35	0.804	ok	0.804	0.744-0.864
2-Hexanone	18.21	13.54	1.345	ok	1.346	1.286-1.406
Iodomethane	7.70	11.35	0.678	ok	0.678	0.618-0.738
Isopropylbenzene	20.37	18.81	1.083	ok	1.083	1.023-1.143
Isopropyl Alcohol	8.44	11.35	0.744	ok	0.745	0.685-0.805
p-Isopropyltoluene	22.13	18.81	1.177	ok	1.177	1.117-1.237
Methylene chloride	8.56	11.35	0.754	ok	0.755	0.695-0.815
Methyl ethyl ketone	11.97	11.35	1.055	ok	1.055	0.995-1.115
Methyl Isobutyl Ketone	16.68	13.54	1.232	ok	1.233	1.173-1.293
Methyl Tert Butyl Ether	9.14	11.35	0.805	ok	0.807	0.747-0.867
Methylmethacrylate	14.76	13.54	1.090	ok	1.091	1.031-1.151
Naphthalene	25.09	18.81	1.334	ok	1.334	1.274-1.394
Nonane	18.75	18.81	0.997	ok	0.997	0.937-1.057
Octane	15.78	13.54	1.165	ok	1.165	1.105-1.225
Pentane	6.37	11.35	0.561	ok	0.561	0.501-0.621
n-Propylbenzene	20.99	18.81	1.116	ok	1.116	1.056-1.176

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W1966-IC1966	5W47592.D	01/26/22 14:24	DFT	0.5	GCMS5W	TO-15	
V5W1966-IC1966	5W47593.D	01/26/22 15:12	DFT	0.2	GCMS5W	TO-15	
V5W1966-IC1966	5W47594.D	01/26/22 15:59	DFT	0.1	GCMS5W	TO-15	
V5W1966-IC1966	5W47595.D	01/26/22 16:47	DFT	0.04	GCMS5W	TO-15	
V5W1966-IC1966	5W47596.D	01/26/22 17:35	DFT	5	GCMS5W	TO-15	
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	DFT	10	GCMS5W	TO-15	
V5W1966-IC1966	5W47598.D	01/26/22 19:14	DFT	20	GCMS5W	TO-15	
V5W1966-IC1966	5W47599.D	01/26/22 20:07	DFT	40	GCMS5W	TO-15	
V5W1966-IC1966	5W47600.D	01/26/22 21:03	DFT	50	GCMS5W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	4.28	11.35	0.377	ok	0.378	0.318-0.438
Styrene	19.95	18.81	1.061	ok	1.061	1.001-1.121
1,1,1-Trichloroethane	11.87	11.35	1.046	ok	1.046	0.986-1.106
1,1,1,2-Tetrachloroethane	18.96	13.54	1.400	ok	1.400	1.340-1.460
1,1,2,2-Tetrachloroethane	21.06	18.81	1.120	ok	1.120	1.060-1.180
1,1,2-Trichloroethane	17.07	13.54	1.261	ok	1.260	1.200-1.320
1,2,4-Trichlorobenzene	24.67	18.81	1.312	ok	1.312	1.252-1.372
1,2,3-Trichloropropane	21.25	18.81	1.130	ok	1.130	1.070-1.190
1,2,3-Trimethylbenzene	22.37	18.81	1.189	ok	1.190	1.130-1.250
1,2,4-Trimethylbenzene	21.80	18.81	1.159	ok	1.159	1.099-1.219
1,3,5-Trimethylbenzene	21.26	18.81	1.130	ok	1.130	1.070-1.190
2,2,4-Trimethylpentane	12.33	13.54	0.911	ok	0.910	0.850-0.970
Tertiary Butyl Alcohol	9.29	11.35	0.819	ok	0.820	0.760-0.880
Tetrachloroethylene	16.80	13.54	1.241	ok	1.241	1.181-1.301
Tetrahydrofuran	11.76	11.35	1.036	ok	1.039	0.979-1.099
Toluene	16.07	13.54	1.187	ok	1.187	1.127-1.247
Trichloroethylene	13.53	13.54	0.999	ok	0.999	0.939-1.059
Trichlorofluoromethane	6.35	11.35	0.559	ok	0.560	0.500-0.620
Vinyl chloride	4.99	11.35	0.440	ok	0.441	0.381-0.501
Vinyl Acetate	10.48	11.35	0.923	ok	0.925	0.865-0.985
m,p-Xylene	19.16	18.81	1.019	ok	1.018	0.958-1.078
o-Xylene	19.88	18.81	1.057	ok	1.057	0.997-1.117
TVHC As Equiv Pentane	6.36	18.81	0.338	ok	0.338	0.278-0.398

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	11.35	ok	11.34	11.01-11.67	206078	ok	230245	138147-322343
1,4-Difluorobenzene	13.54	ok	13.54	13.21-13.87	678249	ok	864677	518806-1210548
Chlorobenzene-D5	18.81	ok	18.80	18.47-19.13	338756	ok	400502	240301-560703

Surrogate Recovery Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD38291-2R	5W47615R.D	95
JD38291-3R	5W47617R.D	93
JD38291-4R	2W57493R.D	101
JD38291-6R	5W47618R.D	94
JD38291-7R	5W47619R.D	93
JD38291-8R	5W47620R.D	94
JD38291-9R	5W47621R.D	93
JD38291-10R	5W47622R.D	92
JD38291-11R	5W47623R.D	92
JD38291-12R	5W47624R.D	76
JD38291-14R	5W47625R.D	93
JD38291-15R	5W47626R.D	90
JD38291-16R	2W57494R.D	101
JD38291-18R	2W57495R.D	101
JD38291-19R	2W57496R.D	100
JD38291-2DUP	5W47616.D	93
JD38683-5DUP	2W57484.D	102
V2W2532-SCC	2W56868.D	97
V2W2534-SCC	2W56908.D	98
V2W2535-SCC	2W56955.D	97
V2W2539-SCC	2W57064.D	95
V2W2558-BS	2W57474.D	102
V2W2558-BSD	2W57475.D	101
V2W2558-MB	2W57477.D	102
V5W1967-BS	5W47609.D	103
V5W1967-BSD	5W47610.D	103
V5W1967-MB	5W47614.D	95
V2W2532-BS	2W56844.D	99
V2W2532-BSD	2W56845.D	99
V2W2532-MB	2W56847.D	98
V2W2534-BS	2W56904.D	99
V2W2534-BSD	2W56905.D	98
V2W2534-MB	2W56907.D	98
V2W2535-BS	2W56931.D	98
V2W2535-BSD	2W56932.D	99
V2W2535-MB	2W56934.D	98
V2W2539-BS	2W57043.D	98
V2W2539-BSD	2W57044.D	98
V2W2539-MB	2W57046.D	96

Surrogate Recovery Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Method: TO-15	**Matrix:** AIR

Samples and QC shown here apply to the above method

Surrogate Compounds	**Recovery Limits**

Surrogate Compounds	**Recovery Limits**
S1 = 4-Bromofluorobenzene	65-128%

Initial Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2529-ICC2529
Lab FileID: 2W56785.D

Response Factor Report MS2W

Method : C:\msdchem\1\METHODS\M2W2529.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Tue Dec 21 09:10:40 2021
Response via : Initial Calibration

Calibration Files
0.5 =2w56780.D 0.2 =2w56781.D 40 =2w56787.D 0.04=2w56783.D
5 =2w56784.D 10 =2w56785.D 20 =2w56786.D 0.1 =2w56782.D
50 =2w56788.D =

Compound	0.5	0.2	40	0.04	5	10	20	0.1	50	Avg	%RSD
1) I BROMOCHLOROMETHANE	ISTD										
2) FREON 115										0.000	-1.00
3) FREON 152A	0.977	0.975	0.913	0.851	0.952	0.930	0.911	0.881	0.866	0.917	4.97
4) CHLORODIFLUOROMETHANE	0.392	0.401	0.353		0.379	0.374	0.358	0.349	0.335	0.368	6.12
5) CHLOROTRIFLUOROETHENE	2.436	2.394	2.263	2.375	2.347	2.331	2.287	2.380	2.147	2.329	3.72
6) DICHLORODIFLUOROMETHANE	3.933	3.847	3.357	3.410	3.675	3.641	3.671	3.660	3.193	3.598	6.58
7) PROPYLENE	1.080	1.022	0.986	1.148	1.027	1.010	1.003	0.993	0.925	1.022	6.10
8) 1-CHLORO-1,1-DIFLUOROETHANE	2.604	2.545	2.266	2.366	2.396	2.361	2.286	2.468	2.130	2.380	6.13
9) FREON 114	4.142	4.057	3.685	4.044	3.982	3.888	3.770	3.959	3.429	3.884	5.74
10) CHLOROMETHANE	0.387	0.352	0.342	0.268	0.378	0.365	0.352	0.353	0.315	0.346	10.33
11) VINYL CHLORIDE	1.583	1.508	1.401	1.434	1.494	1.467	1.421	1.619	1.302	1.470	6.52
12) 1,3-BUTADIENE	1.101	1.109	0.997	1.011	1.062	1.049	1.010	1.080	0.924	1.038	5.67
13) N-BUTANE	1.894	1.802	1.635	2.093	1.807	1.749	1.662	1.928	1.489	1.785	9.99
14) BROMOMETHANE	1.551	1.509	1.414	1.538	1.485	1.455	1.422	1.608	1.323	1.478	5.79
15) CHLOROETHANE	0.890	0.880	0.800	0.809	0.846	0.832	0.800	0.803	0.743	0.822	5.50
16) DICHLOROFLUOROMETHANE	3.349	3.412	3.003	3.123	3.208	3.151	3.042	3.136	2.785	3.134	5.93
17) ACETONITRILE	1.282	1.321	0.873	1.209	0.947	0.915	0.876	1.268	0.804	1.055	19.84
18) ACROLEIN	0.720	0.674	0.571	0.625	0.598	0.589	0.572	0.619	0.532	0.611	9.37
19) FREON 123	3.510	3.463	3.111	3.443	3.374	3.275	3.154	3.599	2.865	3.310	7.02
20) FREON 123A	2.015	1.974	1.813	1.844	1.902	1.866	1.814	1.921	1.689	1.871	5.19
21) TRICHLOROFLUOROMETHANE	3.251	3.375	2.979	3.339	3.177	3.090	3.029	3.215	2.788	3.138	5.95
22) ISOPROPYL ALCOHOL	2.407	2.516	1.572		1.756	1.723	1.630		1.483	1.869	22.24
23) ACETONE											

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          0.921 0.864 0.563       0.611 0.591 0.568       0.514   0.662   24.39
24)  PENTANE
          1.002 1.046 0.865 0.978 0.950 0.926 0.897 0.970 0.803   0.937    7.89
25)  IODOMETHANE
          3.751 3.689 3.427 3.720 3.554 3.526 3.467 3.667 3.231   3.559    4.72
26)  1,1-DICHLOROETHYLENE
          1.427 1.315 1.252 1.312 1.325 1.302 1.281 1.344 1.163   1.302    5.45
27)  CARBON DISULFIDE
          3.555 3.466 3.006 3.499 3.371 3.292 3.195 3.572 2.781   3.304    8.14
28)  ETHANOL
          0.932       0.445       0.479 0.468 0.453       0.415   0.532   37.12
29)  BROMOETHENE
          1.464 1.476 1.376 1.354 1.421 1.393 1.366 1.361 1.286   1.389    4.22
30)  ACRYLONITRILE
          0.924 0.900 0.696 0.851 0.728 0.711 0.701 0.900 0.647   0.784   13.73
31)  METHYLENE CHLORIDE
          1.438 1.760 1.124       1.210 1.179 1.154 2.228 1.055   1.394   29.18
32)  3-CHLOROPROPENE
          0.641 0.602 0.612 0.461 0.616 0.625 0.618 0.585 0.571   0.592    9.05
33)  FREON 113
          2.362 2.347 2.161 2.154 2.275 2.238 2.212 2.232 2.025   2.223    4.66
34)  TRANS-1,2-DICHLOROETHENE
          1.631 1.631 1.578 1.500 1.595 1.584 1.585 1.604 1.495   1.578    3.13
35)  TERTIARY BUTYL ALCOHOL
          1.589 1.621 1.348 1.594 1.554 1.568 1.490 1.644 1.309   1.524    7.84
36)  METHYL TERTIARY BUTYL ETHER
          3.122 2.942 3.386 2.826 3.044 3.138 3.276 2.900 3.245   3.098    6.02
37)  TETRAHYDROFURAN
          0.709 0.586 0.776       0.752 0.769 0.776 0.419 0.738   0.691   18.29
38)  HEXANE
          2.538 2.370 2.202 2.380 2.480 2.400 2.331 2.471 2.025   2.355    6.69
39)  VINYL ACETATE
          0.388 0.406 0.442       0.382 0.405 0.430 0.309 0.426   0.398   10.42
40)  1,1-DICHLOROETHANE
          2.746 2.670 2.490 2.408 2.588 2.589 2.536 2.511 2.344   2.542    4.88
41)  METHYL ETHYL KETONE
          0.875 0.781 0.796       0.768 0.781 0.798 0.736 0.755   0.786    5.24
42)  CIS-1,2-DICHLOROETHENE
          1.771 1.681 1.687 1.604 1.702 1.697 1.694 1.613 1.609   1.673    3.29
43)  DIISOPROPYL ETHER
          0.700 0.644 0.664 0.470 0.710 0.705 0.689 0.558 0.610   0.639   12.63
44)  ETHYL ACETATE
          0.426 0.402 0.437       0.458 0.468 0.459 0.298 0.409   0.420   13.03
45)  METHYL ACRYLATE
          3.023 2.865 2.546 2.554 2.661 2.664 2.657 2.800 2.351   2.680    7.34
46)  CHLOROFORM
          3.282 3.155 2.910 2.949 3.061 3.043 2.975 3.138 2.723   3.026    5.35
47)  2,4-DIMETHYLPENTANE
          2.985 2.894 2.767 2.718 2.940 2.900 2.851 2.881 2.593   2.837    4.33
48)  1,1,1-TRICHLOROETHANE
          2.879 2.776 2.815 2.699 2.775 2.806 2.815 2.699 2.676   2.771    2.42
49)  CARBON TETRACHLORIDE
          3.001 3.084 2.986 2.789 2.937 2.949 2.982 2.910 2.854   2.943    2.93
50)  1,2-DICHLOROETHANE
          1.849 1.884 1.644 1.594 1.747 1.696 1.675 1.731 1.546   1.708    6.46
51)  BENZENE
          5.303 5.195 4.950 5.300 5.100 5.031 5.008 5.096 4.690   5.075    3.74

52) I   1,4-DIFLUOROBENZENE   ----------------ISTD--------------------
53)  CYCLOHEXANE
```

		0.426	0.422	0.428	0.403	0.425	0.425	0.428	0.413	0.416	0.421	2.02
54)	2,3-DIMETHYLPENTANE											
		0.228	0.224	0.220	0.165	0.226	0.223	0.222	0.204	0.212	0.214	9.27
55)	TRICHLOROETHENE											
		0.424	0.425	0.403	0.400	0.411	0.408	0.407	0.400	0.388	0.407	2.88
56)	1,2-DICHLOROPROPANE											
		0.353	0.334	0.334	0.354	0.340	0.338	0.339	0.334	0.318	0.338	3.21
57)	DIBROMOMETHANE											
		0.401	0.413	0.396	0.486	0.377	0.379	0.389	0.414	0.387	0.405	8.20
58)	ETHYL ACRYLATE											
		0.581	0.523	0.626	0.426	0.584	0.610	0.628	0.477	0.604	0.562	12.68
59)	BROMODICHLOROMETHANE											
		0.659	0.643	0.625	0.680	0.631	0.630	0.633	0.634	0.603	0.637	3.42
60)	2,2,4-TRIMETHYLPENTANE											
		1.553	1.580	1.397	1.460	1.492	1.459	1.445	1.566	1.328	1.475	5.61
61)	1,4-DIOXANE											
		0.327	0.328	0.215		0.212	0.212	0.217	0.248	0.210	0.246	21.05
62)	HEPTANE											
		0.467	0.454	0.429	0.421	0.463	0.457	0.449	0.436	0.405	0.442	4.72
63)	METHYL METHACRYLATE											
		0.319	0.278	0.354		0.334	0.348	0.354	0.247	0.342	0.322	12.23
64)	METHYL ISOBUTYL KETONE											
		0.241	0.219	0.273		0.261	0.272	0.274	0.196	0.262	0.250	11.57
65)	CIS-1,3-DICHLOROPROPENE											
		0.472	0.466	0.516	0.346	0.479	0.499	0.510	0.421	0.500	0.468	11.54
66)	TOLUENE											
		1.159	1.120	1.145	1.120	1.148	1.147	1.147	1.104	1.107	1.133	1.79
67)	1,3-DICHLOROPROPANE											
		0.559	0.539	0.528	0.435	0.542	0.536	0.532	0.532	0.512	0.524	6.80
68)	TRANS-1,3-DICHLOROPROPENE											
		0.388	0.356	0.441	0.274	0.383	0.404	0.425	0.321	0.432	0.380	14.57
69)	1,1,2-TRICHLOROETHANE											
		0.344	0.327	0.323	0.326	0.332	0.328	0.327	0.316	0.313	0.326	2.75
70)	2-HEXANONE											
		0.411	0.340	0.341	0.213	0.303	0.326	0.338	0.282	0.330	0.320	16.65
71)	ETHYL METHACRYLATE											
		0.452	0.398	0.564	0.288	0.520	0.542	0.555	0.349	0.546	0.468	21.76
72)	TETRACHLOROETHENE											
		0.431	0.424	0.440	0.365	0.423	0.428	0.429	0.410	0.431	0.420	5.27
73)	DIBROMOCHLOROMETHANE											
		0.657	0.657	0.665	0.593	0.643	0.648	0.654	0.610	0.650	0.642	3.74
74)	1,2-DIBROMOETHANE											
		0.592	0.555	0.575	0.492	0.555	0.560	0.567	0.540	0.558	0.555	5.00
75)	OCTANE											
		0.605	0.553	0.583	0.512	0.619	0.610	0.596	0.511	0.551	0.571	7.17
76)	I CHLOROBENZENE-D5	----------	ISTD	----------								
77)	1,1,1,2-TETRACHLOROETHANE											
		0.524	0.497	0.528	0.440	0.500	0.511	0.518	0.473	0.520	0.501	5.70
78)	CHLOROBENZENE											
		1.023	1.024	1.013	0.955	0.987	0.992	1.002	0.986	0.988	0.997	2.18
79)	ETHYLBENZENE											
		1.517	1.491	1.620	1.377	1.584	1.609	1.615	1.398	1.590	1.533	6.13
80)	M,P-XYLENE											
		1.151	1.053	1.227	1.029	1.204	1.213	1.220	1.027	1.204	1.148	7.54
81)	O-XYLENE											
		1.159	1.103	1.215	1.039	1.206	1.215	1.217	1.036	1.183	1.152	6.50
82)	STYRENE											
		0.846	0.755	0.985	0.617	0.934	0.960	0.972	0.734	0.964	0.863	15.36
83)	NONANE											

		0.726	0.685	0.649	0.668	0.690	0.681	0.665	0.667	0.629	0.673	4.06
84)	BROMOFORM											
		0.687	0.659	0.757	0.536	0.675	0.698	0.727	0.631	0.750	0.680	9.99
85)	1,1,2,2-TETRACHLOROETHANE											
		0.867	0.864	0.844	0.847	0.849	0.852	0.853	0.806	0.820	0.845	2.35
86)	1,2,3-TRICHLOROPROPANE											
		0.644	0.661	0.632	0.551	0.633	0.632	0.630	0.584	0.615	0.620	5.36
87)	4-BROMOFLUOROBENZENE											
		0.665	0.663	0.675	0.657	0.675	0.674	0.672	0.660	0.672	0.668	1.05
88)	ISOPROPYLBENZENE											
		0.439	0.414	0.481	0.360	0.460	0.467	0.473	0.429	0.470	0.444	8.63
89)	BROMOBENZENE											
		0.817	0.791	0.791	0.728	0.778	0.789	0.788	0.769	0.772	0.780	3.09
90)	2-CHLOROTOLUENE											
		0.377	0.351	0.413	0.274	0.392	0.399	0.406	0.318	0.405	0.370	12.86
91)	N-PROPYLBENZENE											
		0.404	0.377	0.478	0.287	0.459	0.469	0.473	0.350	0.471	0.419	16.32
92)	4-ETHYLTOLUENE											
		1.427	1.321	1.651	1.227	1.622	1.658	1.651	1.272	1.617	1.494	12.12
93)	1,3,5-TRIMETHYLBENZENE											
		1.228	1.146	1.331	1.071	1.302	1.332	1.327	1.055	1.297	1.232	9.20
94)	ALPHA-METHYLSTYRENE											
		0.599	0.544	0.698	0.503	0.667	0.688	0.699	0.515	0.685	0.622	13.21
95)	TERT-BUTYLBENZENE											
		0.323	0.301	0.328	0.279	0.328	0.332	0.333	0.287	0.320	0.315	6.46
96)	1,2,4-TRIMETHYLBENZENE											
		1.232	1.122	1.268	1.023	1.289	1.302	1.297	1.073	1.226	1.204	8.68
97)	BENZYL CHLORIDE											
		0.519	0.512	0.887	0.461	0.580	0.698	0.812	0.474	0.898	0.649	27.48
98)	M-DICHLOROBENZENE											
		0.838	0.804	0.864	0.793	0.823	0.855	0.870	0.762	0.846	0.828	4.32
99)	P-DICHLOROBENZENE											
		0.806	0.791	0.853	0.747	0.808	0.839	0.862	0.710	0.830	0.805	6.23
100)	O-DICHLOROBENZENE											
		0.763	0.769	0.769	0.763	0.746	0.772	0.791	0.724	0.751	0.761	2.48
101)	SEC-BUTYLBENZENE											
		0.375	0.348	0.400	0.310	0.391	0.398	0.406	0.334	0.393	0.373	9.10
102)	1,2,3-TRIMETHYLBENZENE											
		1.189	1.117	1.232	0.981	1.216	1.249	1.258	1.008	1.197	1.161	8.87
103)	P-ISOPROPYLTOLUENE											
		0.400	0.376	0.414	0.333	0.410	0.419	0.427	0.345	0.403	0.392	8.50
104)	N-BUTYLBENZENE											
		0.336	0.305	0.376	0.254	0.354	0.370	0.380	0.294	0.368	0.338	13.02
105)	HEXACHLOROETHANE											
		0.480	0.471	0.503	0.450	0.471	0.490	0.506	0.448	0.489	0.479	4.31
106)	HEXACHLOROBUTADIENE											
		0.515	0.532	0.472	0.491	0.413	0.438	0.458	0.506	0.473	0.478	7.95
107)	1,2,4-TRICHLOROBENZENE											
		0.445	0.454	0.460	0.416	0.386	0.413	0.439	0.406	0.466	0.432	6.38
108)	NAPHTHALENE											
		1.095	1.003	0.961	0.864	0.829	0.880	0.946	0.928	0.969	0.942	8.48

(#) = Out of Range ### Number of calibration levels exceeded format ###

M2W2529.M Tue Dec 21 09:20:33 2021 GCMS2W

Initial Calibration Verification

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2529-ICV2529
Lab FileID: 2W56791.D

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
Data File : 2w56791.D
Acq On : 20 Dec 2021 6:48 pm
Operator : danat
Sample : icv2529-10
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 21 09:19:10 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	100	0.00
2	T	FREON 115	0.000	0.000	0.0	0#	-1.89#
3	T	FREON 152A	0.917	0.914	0.3	98	0.00
4	T	CHLORODIFLUOROMETHANE	0.368	0.360	2.2	97	0.00
5	T	CHLOROTRIFLUOROETHENE	2.329	2.379	-2.1	102	0.00
6	T	DICHLORODIFLUOROMETHANE	3.598	3.255	9.5	90	0.00
7	T	PROPYLENE	1.022	0.979	4.2	97	0.00
8	T	1-CHLORO-1,1-DIFLUOROETHANE	2.380	2.343	1.6	99	0.00
9	T	FREON 114	3.884	3.641	6.3	94	0.00
10	T	CHLOROMETHANE	0.346	0.341	1.4	94	0.00
11	T	VINYL CHLORIDE	1.470	1.391	5.4	95	0.00
12	t	1,3-BUTADIENE	1.038	0.988	4.8	94	0.00
13	T	N-BUTANE	1.785	1.625	9.0	93	0.00
14	T	BROMOMETHANE	1.478	1.386	6.2	95	0.00
15	T	CHLOROETHANE	0.822	0.792	3.6	95	0.00
16	T	DICHLOROFLUOROMETHANE	3.134	2.884	8.0	92	0.00
17	T	ACETONITRILE	1.055	0.819	22.4	90	0.00
18	T	ACROLEIN	0.611	0.521	14.7	89	0.00
19	T	FREON 123	3.310	3.291	0.6	101	0.00
20	T	FREON 123A	1.871	2.036	-8.8	109	0.00
21	T	TRICHLOROFLUOROMETHANE	3.138	2.930	6.6	95	0.00
22	T	ISOPROPYL ALCOHOL	1.869	1.580	15.5	92	0.00
23	T	ACETONE	0.662	0.572	13.6	97	0.00
24	T	PENTANE	0.937	0.874	6.7	95	0.00
25	T	IODOMETHANE	3.559	3.462	2.7	98	0.00
26	T	1,1-DICHLOROETHYLENE	1.302	1.290	0.9	99	0.00
27	T	CARBON DISULFIDE	3.304	3.385	-2.5	103	0.00
28	T	ETHANOL	0.532	0.392	26.3	84	0.00
29	T	BROMOETHENE	1.389	1.396	-0.5	100	0.00
30	T	ACRYLONITRILE	0.784	0.662	15.6	93	0.00
31	T	METHYLENE CHLORIDE	1.394	1.129	19.0	96	0.00
32	T	3-CHLOROPROPENE	0.592	0.605	-2.2	97	0.00
33	T	FREON 113	2.223	2.213	0.4	99	0.00
34	T	TRANS-1,2-DICHLOROETHENE	1.578	1.628	-3.2	103	0.00
35	T	TERTIARY BUTYL ALCOHOL	1.524	1.353	11.2	86	0.00
36	t	METHYL TERTIARY BUTYL ETHER	3.098	3.115	-0.5	99	0.00
37	T	TETRAHYDROFURAN	0.691	0.707	-2.3	92	0.00
38	T	HEXANE	2.355	2.366	-0.5	99	0.00

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Lab FileID: 2W56791.D

39	T	VINYL ACETATE	0.398	0.401	-0.8	99	0.00
40	T	1,1-DICHLOROETHANE	2.542	2.477	2.6	96	0.00
41	T	METHYL ETHYL KETONE	0.786	0.760	3.3	98	0.00
42	T	CIS-1,2-DICHLOROETHENE	1.673	1.683	-0.6	99	0.00
43	T	DIISOPROPYL ETHER	0.639	0.682	-6.7	97	0.00
44	T	ETHYL ACETATE	0.420	0.479	-14.0	103	0.00
45	T	METHYL ACRYLATE	2.680	2.615	2.4	98	0.00
46	T	CHLOROFORM	3.026	3.010	0.5	99	0.00
47	T	2,4-DIMETHYLPENTANE	2.837	2.769	2.4	96	0.00
48	T	1,1,1-TRICHLOROETHANE	2.771	2.777	-0.2	99	0.00
49	T	CARBON TETRACHLORIDE	2.943	2.933	0.3	100	0.00
50	T	1,2-DICHLOROETHANE	1.708	1.659	2.9	98	0.00
51	t	BENZENE	5.075	4.970	2.1	99	0.00
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	100	0.00
53	T	CYCLOHEXANE	0.421	0.421	0.0	99	0.00
54	T	2,3-DIMETHYLPENTANE	0.214	0.215	-0.5	96	0.00
55	T	TRICHLOROETHENE	0.407	0.404	0.7	99	0.00
56	T	1,2-DICHLOROPROPANE	0.338	0.330	2.4	98	0.00
57	T	DIBROMOMETHANE	0.405	0.390	3.7	103	0.00
58	T	ETHYL ACRYLATE	0.562	0.595	-5.9	97	0.00
59	T	BROMODICHLOROMETHANE	0.637	0.615	3.5	98	0.00
60	T	2,2,4-TRIMETHYLPENTANE	1.475	1.414	4.1	97	0.00
61	T	1,4-DIOXANE	0.246	0.199	19.1	94	0.00
62	T	HEPTANE	0.442	0.437	1.1	96	0.00
63	T	METHYL METHACRYLATE	0.322	0.335	-4.0	96	0.00
64	T	METHYL ISOBUTYL KETONE	0.250	0.263	-5.2	97	0.00
65	T	CIS-1,3-DICHLOROPROPENE	0.468	0.523	-11.8	105	0.00
66	T	TOLUENE	1.133	1.132	0.1	99	0.00
67	T	1,3-DICHLOROPROPANE	0.524	0.533	-1.7	99	0.00
68	T	TRANS-1,3-DICHLOROPROPENE	0.380	0.404	-6.3	100	0.00
69	T	1,1,2-TRICHLOROETHANE	0.326	0.323	0.9	99	0.00
70	T	2-HEXANONE	0.320	0.316	1.3	97	0.00
71	T	ETHYL METHACRYLATE	0.468	0.542	-15.8	100	0.00
72	T	TETRACHLOROETHENE	0.420	0.440	-4.8	103	0.00
73	T	DIBROMOCHLOROMETHANE	0.642	0.642	0.0	99	0.00
74	T	1,2-DIBROMOETHANE	0.555	0.562	-1.3	100	0.00
75	T	OCTANE	0.571	0.584	-2.3	96	0.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	100	0.00
77	T	1,1,1,2-TETRACHLOROETHANE	0.501	0.512	-2.2	100	0.00
78	T	CHLOROBENZENE	0.997	1.000	-0.3	100	0.00
79	t	ETHYLBENZENE	1.533	1.625	-6.0	101	0.00
80	t	M,P-XYLENE	1.148	1.230	-7.1	101	0.00
81	t	O-XYLENE	1.152	1.227	-6.5	101	0.00
82	T	STYRENE	0.863	0.972	-12.6	101	0.00
83	T	NONANE	0.673	0.670	0.4	98	0.00
84	T	BROMOFORM	0.680	0.700	-2.9	100	0.00
85	T	1,1,2,2-TETRACHLOROETHANE	0.845	0.874	-3.4	102	0.00
86	T	1,2,3-TRICHLOROPROPANE	0.620	0.644	-3.9	102	0.00
87	S	4-BROMOFLUOROBENZENE	0.668	0.671	-0.4	99	0.00
88	T	ISOPROPYLBENZENE	0.444	0.485	-9.2	103	0.00
89	T	BROMOBENZENE	0.780	0.792	-1.5	100	0.00
90	T	2-CHLOROTOLUENE	0.370	0.417	-12.7	104	0.00
91	T	N-PROPYLBENZENE	0.419	0.494	-17.9	105	0.00
92	T	4-ETHYLTOLUENE	1.494	1.743	-16.7	105	0.00
93	T	1,3,5-TRIMETHYLBENZENE	1.232	1.406	-14.1	105	0.00
94	T	ALPHA-METHYLSTYRENE	0.622	0.712	-14.5	103	0.00
95	T	TERT-BUTYLBENZENE	0.315	0.351	-11.4	105	0.00
96	T	1,2,4-TRIMETHYLBENZENE	1.204	1.390	-15.4	106	0.00

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97	T	BENZYL CHLORIDE	0.649	0.705	-8.6	101	0.00
98	T	M-DICHLOROBENZENE	0.828	0.902	-8.9	105	0.00
99	T	P-DICHLOROBENZENE	0.805	0.890	-10.6	106	0.00
100	T	O-DICHLOROBENZENE	0.761	0.825	-8.4	107	0.00
101	T	SEC-BUTYLBENZENE	0.373	0.431	-15.5	108	0.00
102	T	1,2,3-TRIMETHYLBENZENE	1.161	1.313	-13.1	105	0.00
103	T	P-ISOPROPYLTOLUENE	0.392	0.456	-16.3	109	0.00
104	T	N-BUTYLBENZENE	0.338	0.407	-20.4	109	0.00
105	T	HEXACHLOROETHANE	0.479	0.527	-10.0	107	0.00
106	T	HEXACHLOROBUTADIENE	0.478	0.579	-21.1	132	0.00
107	T	1,2,4-TRICHLOROBENZENE	0.432	0.506	-17.1	122	0.00
108	T	NAPHTHALENE	0.942	1.072	-13.8	121	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2W2529.M Tue Dec 21 09:20:09 2021 GCMS2W

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2532-CC2529
Lab FileID: 2W56843.D

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
Data File : 2w56843.D
Acq On : 22 Dec 2021 7:30 am
Operator : thomash
Sample : cc2529-10
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:37:47 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	108	0.00
2	T	FREON 115	0.000	0.000	0.0	0#	-1.89#
3	T	FREON 152A	0.917	0.879	4.1	102	0.00
4	T	CHLORODIFLUOROMETHANE	0.368	0.345	6.3	100	0.00
5	T	CHLOROTRIFLUOROETHENE	2.329	2.250	3.4	104	0.00
6	T	DICHLORODIFLUOROMETHANE	3.598	3.427	4.8	102	0.00
7	T	PROPYLENE	1.022	0.938	8.2	100	0.00
8	T	1-CHLORO-1,1-DIFLUOROETHANE	2.380	2.209	7.2	101	0.00
9	T	FREON 114	3.884	3.733	3.9	104	0.00
10	T	CHLOROMETHANE	0.346	0.344	0.6	102	0.00
11	T	VINYL CHLORIDE	1.470	1.373	6.6	101	0.00
12	t	1,3-BUTADIENE	1.038	0.981	5.5	101	0.00
13	T	N-BUTANE	1.785	1.592	10.8	98	0.00
14	T	BROMOMETHANE	1.478	1.395	5.6	103	0.00
15	T	CHLOROETHANE	0.822	0.777	5.5	101	0.00
16	T	DICHLOROFLUOROMETHANE	3.134	2.967	5.3	102	0.00
17	T	ACETONITRILE	1.055	0.834	20.9	98	0.00
18	T	ACROLEIN	0.611	0.550	10.0	101	0.00
19	T	FREON 123	3.310	3.124	5.6	103	0.00
20	T	FREON 123A	1.871	1.806	3.5	104	0.00
21	T	TRICHLOROFLUOROMETHANE	3.138	2.949	6.0	103	0.00
22	T	ISOPROPYL ALCOHOL	1.869	1.544	17.4	97	0.00
23	T	ACETONE	0.662	0.546	17.5	100	0.00
24	T	PENTANE	0.937	0.838	10.6	98	0.00
25	T	IODOMETHANE	3.559	3.469	2.5	106	0.00
26	T	1,1-DICHLOROETHYLENE	1.302	1.255	3.6	104	0.00
27	T	CARBON DISULFIDE	3.304	3.094	6.4	101	0.00
28	T	ETHANOL	0.532	0.437	17.9	101	0.00
29	T	BROMOETHENE	1.389	1.354	2.5	105	0.00
30	T	ACRYLONITRILE	0.784	0.652	16.8	99	0.00
31	T	METHYLENE CHLORIDE	1.394	1.122	19.5	103	0.00
32	T	3-CHLOROPROPENE	0.592	0.590	0.3	102	0.00
33	T	FREON 113	2.223	2.202	0.9	106	0.00
34	T	TRANS-1,2-DICHLOROETHENE	1.578	1.515	4.0	103	0.00
35	T	TERTIARY BUTYL ALCOHOL	1.524	1.482	2.8	102	0.00
36	t	METHYL TERTIARY BUTYL ETHER	3.098	2.984	3.7	103	0.00
37	T	TETRAHYDROFURAN	0.691	0.725	-4.9	102	0.00
38	T	HEXANE	2.355	2.229	5.4	100	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2532-CC2529
Lab FileID: 2W56843.D

39	T	VINYL ACETATE	0.398	0.390	2.0	104	0.00
40	T	1,1-DICHLOROETHANE	2.542	2.382	6.3	99	0.00
41	T	METHYL ETHYL KETONE	0.786	0.732	6.9	101	0.00
42	T	CIS-1,2-DICHLOROETHENE	1.673	1.625	2.9	103	0.00
43	T	DIISOPROPYL ETHER	0.639	0.653	-2.2	100	0.00
44	T	ETHYL ACETATE	0.420	0.429	-2.1	99	0.00
45	T	METHYL ACRYLATE	2.680	2.480	7.5	100	0.00
46	T	CHLOROFORM	3.026	2.881	4.8	102	0.00
47	T	2,4-DIMETHYLPENTANE	2.837	2.669	5.9	99	0.00
48	T	1,1,1-TRICHLOROETHANE	2.771	2.660	4.0	102	0.00
49	T	CARBON TETRACHLORIDE	2.943	2.854	3.0	104	0.00
50	T	1,2-DICHLOROETHANE	1.708	1.587	7.1	101	0.00
51	t	BENZENE	5.075	4.756	6.3	102	0.00
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	106	0.00
53	T	CYCLOHEXANE	0.421	0.411	2.4	103	0.00
54	T	2,3-DIMETHYLPENTANE	0.214	0.214	0.0	102	0.00
55	T	TRICHLOROETHENE	0.407	0.395	2.9	103	0.00
56	T	1,2-DICHLOROPROPANE	0.338	0.322	4.7	101	0.00
57	T	DIBROMOMETHANE	0.405	0.382	5.7	107	0.00
58	T	ETHYL ACRYLATE	0.562	0.564	-0.4	98	0.00
59	T	BROMODICHLOROMETHANE	0.637	0.608	4.6	103	0.00
60	T	2,2,4-TRIMETHYLPENTANE	1.475	1.375	6.8	100	0.00
61	T	1,4-DIOXANE	0.246	0.204	17.1	102	0.00
62	T	HEPTANE	0.442	0.419	5.2	98	0.00
63	T	METHYL METHACRYLATE	0.322	0.328	-1.9	100	0.00
64	T	METHYL ISOBUTYL KETONE	0.250	0.253	-1.2	99	0.00
65	T	CIS-1,3-DICHLOROPROPENE	0.468	0.473	-1.1	101	0.00
66	T	TOLUENE	1.133	1.104	2.6	102	0.00
67	T	1,3-DICHLOROPROPANE	0.524	0.513	2.1	102	0.00
68	T	TRANS-1,3-DICHLOROPROPENE	0.380	0.385	-1.3	101	0.00
69	T	1,1,2-TRICHLOROETHANE	0.326	0.313	4.0	102	0.00
70	T	2-HEXANONE	0.320	0.300	6.3	98	0.00
71	T	ETHYL METHACRYLATE	0.468	0.510	-9.0	100	0.00
72	T	TETRACHLOROETHENE	0.420	0.421	-0.2	105	0.00
73	T	DIBROMOCHLOROMETHANE	0.642	0.635	1.1	104	0.00
74	T	1,2-DIBROMOETHANE	0.555	0.545	1.8	104	0.00
75	T	OCTANE	0.571	0.554	3.0	97	0.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	106	0.00
77	T	1,1,1,2-TETRACHLOROETHANE	0.501	0.505	-0.8	105	0.00
78	T	CHLOROBENZENE	0.997	0.975	2.2	104	0.00
79	t	ETHYLBENZENE	1.533	1.540	-0.5	101	0.00
80	t	M,P-XYLENE	1.148	1.162	-1.2	101	0.00
81	t	O-XYLENE	1.152	1.167	-1.3	102	0.00
82	T	STYRENE	0.863	0.921	-6.7	101	0.00
83	T	NONANE	0.673	0.624	7.3	97	0.00
84	T	BROMOFORM	0.680	0.698	-2.6	106	0.00
85	T	1,1,2,2-TETRACHLOROETHANE	0.845	0.823	2.6	102	0.00
86	T	1,2,3-TRICHLOROPROPANE	0.620	0.603	2.7	101	0.00
87	S	4-BROMOFLUOROBENZENE	0.668	0.662	0.9	104	0.00
88	T	ISOPROPYLBENZENE	0.444	0.459	-3.4	104	0.00
89	T	BROMOBENZENE	0.780	0.748	4.1	100	0.00
90	T	2-CHLOROTOLUENE	0.370	0.390	-5.4	103	0.00
91	T	N-PROPYLBENZENE	0.419	0.455	-8.6	103	0.00
92	T	4-ETHYLTOLUENE	1.494	1.589	-6.4	101	0.00
93	T	1,3,5-TRIMETHYLBENZENE	1.232	1.284	-4.2	102	0.00
94	T	ALPHA-METHYLSTYRENE	0.622	0.667	-7.2	102	0.00
95	T	TERT-BUTYLBENZENE	0.315	0.325	-3.2	103	0.00
96	T	1,2,4-TRIMETHYLBENZENE	1.204	1.259	-4.6	102	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2532-CC2529
Lab FileID: 2W56843.D

97	T	BENZYL CHLORIDE	0.649	0.653	-0.6	99	0.00
98	T	M-DICHLOROBENZENE	0.828	0.837	-1.1	103	0.00
99	T	P-DICHLOROBENZENE	0.805	0.823	-2.2	104	0.00
100	T	O-DICHLOROBENZENE	0.761	0.758	0.4	104	0.00
101	T	SEC-BUTYLBENZENE	0.373	0.394	-5.6	105	0.00
102	T	1,2,3-TRIMETHYLBENZENE	1.161	1.209	-4.1	102	0.00
103	T	P-ISOPROPYLTOLUENE	0.392	0.413	-5.4	104	0.00
104	T	N-BUTYLBENZENE	0.338	0.363	-7.4	104	0.00
105	T	HEXACHLOROETHANE	0.479	0.479	0.0	103	0.00
106	T	HEXACHLOROBUTADIENE	0.478	0.436	8.8	105	0.00
107	T	1,2,4-TRICHLOROBENZENE	0.432	0.404	6.5	103	0.00
108	T	NAPHTHALENE	0.942	0.849	9.9	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2W2529.M Wed Dec 22 14:42:32 2021 GCMS2W

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2533-CC2529
Lab FileID: 2W56871.D

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
Data File : 2w56871.D
Acq On : 23 Dec 2021 8:19 am
Operator : thomash
Sample : cc2529-10
Misc : MS55592,V2w2533,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 23 14:36:19 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	110	0.00
2	T	FREON 115	0.000	0.000	0.0	0#	-1.89#
3	T	FREON 152A	0.917	0.870	5.1	103	0.00
4	T	CHLORODIFLUOROMETHANE	0.368	0.346	6.0	102	0.00
5	T	CHLOROTRIFLUOROETHENE	2.329	2.242	3.7	106	0.00
6	T	DICHLORODIFLUOROMETHANE	3.598	4.208	-17.0	127	0.00
7	T	PROPYLENE	1.022	0.926	9.4	101	0.00
8	T	1-CHLORO-1,1-DIFLUOROETHANE	2.380	2.214	7.0	103	0.00
9	T	FREON 114	3.884	3.739	3.7	106	0.00
10	T	CHLOROMETHANE	0.346	0.345	0.3	104	0.00
11	T	VINYL CHLORIDE	1.470	1.379	6.2	104	0.00
12	t	1,3-BUTADIENE	1.038	0.983	5.3	103	0.00
13	T	N-BUTANE	1.785	1.627	8.9	102	0.00
14	T	BROMOMETHANE	1.478	1.393	5.8	106	0.00
15	T	CHLOROETHANE	0.822	0.779	5.2	103	0.00
16	T	DICHLOROFLUOROMETHANE	3.134	2.951	5.8	103	0.00
17	T	ACETONITRILE	1.055	0.827	21.6	100	0.00
18	T	ACROLEIN	0.611	0.545	10.8	102	0.00
19	T	FREON 123	3.310	3.134	5.3	105	0.00
20	T	FREON 123A	1.871	1.800	3.8	106	0.00
21	T	TRICHLOROFLUOROMETHANE	3.138	2.974	5.2	106	0.00
22	T	ISOPROPYL ALCOHOL	1.869	1.577	15.6	101	0.00
23	T	ACETONE	0.662	0.555	16.2	104	0.00
24	T	PENTANE	0.937	0.863	7.9	103	0.00
25	T	IODOMETHANE	3.559	3.475	2.4	109	0.00
26	T	1,1-DICHLOROETHYLENE	1.302	1.273	2.2	108	0.00
27	T	CARBON DISULFIDE	3.304	3.188	3.5	107	0.00
28	T	ETHANOL	0.532	0.434	18.4	102	0.00
29	T	BROMOETHENE	1.389	1.358	2.2	107	0.00
30	T	ACRYLONITRILE	0.784	0.663	15.4	103	0.00
31	T	METHYLENE CHLORIDE	1.394	1.132	18.8	106	0.00
32	T	3-CHLOROPROPENE	0.592	0.593	-0.2	105	0.00
33	T	FREON 113	2.223	2.223	0.0	109	0.00
34	T	TRANS-1,2-DICHLOROETHENE	1.578	1.520	3.7	106	0.00
35	T	TERTIARY BUTYL ALCOHOL	1.524	1.502	1.4	106	0.00
36	t	METHYL TERTIARY BUTYL ETHER	3.098	3.019	2.6	106	0.00
37	T	TETRAHYDROFURAN	0.691	0.717	-3.8	103	0.00
38	T	HEXANE	2.355	2.224	5.6	102	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2533-CC2529
Lab FileID: 2W56871.D

39	T	VINYL ACETATE	0.398	0.385	3.3	105	0.00
40	T	1,1-DICHLOROETHANE	2.542	2.385	6.2	101	0.00
41	T	METHYL ETHYL KETONE	0.786	0.729	7.3	103	0.00
42	T	CIS-1,2-DICHLOROETHENE	1.673	1.622	3.0	105	0.00
43	T	DIISOPROPYL ETHER	0.639	0.658	-3.0	103	0.00
44	T	ETHYL ACETATE	0.420	0.434	-3.3	102	0.00
45	T	METHYL ACRYLATE	2.680	2.485	7.3	103	0.00
46	T	CHLOROFORM	3.026	2.880	4.8	104	0.00
47	T	2,4-DIMETHYLPENTANE	2.837	2.665	6.1	101	0.00
48	T	1,1,1-TRICHLOROETHANE	2.771	2.670	3.6	105	0.00
49	T	CARBON TETRACHLORIDE	2.943	2.838	3.6	106	0.00
50	T	1,2-DICHLOROETHANE	1.708	1.578	7.6	103	0.00
51	t	BENZENE	5.075	4.782	5.8	105	0.00
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	109	0.00
53	T	CYCLOHEXANE	0.421	0.411	2.4	105	0.00
54	T	2,3-DIMETHYLPENTANE	0.214	0.213	0.5	104	0.00
55	T	TRICHLOROETHENE	0.407	0.396	2.7	106	0.00
56	T	1,2-DICHLOROPROPANE	0.338	0.320	5.3	103	0.00
57	T	DIBROMOMETHANE	0.405	0.378	6.7	109	0.00
58	T	ETHYL ACRYLATE	0.562	0.571	-1.6	102	0.00
59	T	BROMODICHLOROMETHANE	0.637	0.610	4.2	105	0.00
60	T	2,2,4-TRIMETHYLPENTANE	1.475	1.379	6.5	103	0.00
61	T	1,4-DIOXANE	0.246	0.206	16.3	106	0.00
62	T	HEPTANE	0.442	0.423	4.3	101	0.00
63	T	METHYL METHACRYLATE	0.322	0.328	-1.9	103	0.00
64	T	METHYL ISOBUTYL KETONE	0.250	0.254	-1.6	101	0.00
65	T	CIS-1,3-DICHLOROPROPENE	0.468	0.473	-1.1	103	0.00
66	T	TOLUENE	1.133	1.104	2.6	105	0.00
67	T	1,3-DICHLOROPROPANE	0.524	0.511	2.5	104	0.00
68	T	TRANS-1,3-DICHLOROPROPENE	0.380	0.387	-1.8	104	0.00
69	T	1,1,2-TRICHLOROETHANE	0.326	0.315	3.4	105	0.00
70	T	2-HEXANONE	0.320	0.303	5.3	101	0.00
71	T	ETHYL METHACRYLATE	0.468	0.508	-8.5	102	0.00
72	T	TETRACHLOROETHENE	0.420	0.424	-1.0	108	0.00
73	T	DIBROMOCHLOROMETHANE	0.642	0.633	1.4	106	0.00
74	T	1,2-DIBROMOETHANE	0.555	0.547	1.4	106	0.00
75	T	OCTANE	0.571	0.558	2.3	99	0.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	108	0.00
77	T	1,1,1,2-TETRACHLOROETHANE	0.501	0.506	-1.0	107	0.00
78	T	CHLOROBENZENE	0.997	0.970	2.7	106	0.00
79	t	ETHYLBENZENE	1.533	1.543	-0.7	104	0.00
80	t	M,P-XYLENE	1.148	1.166	-1.6	104	0.00
81	t	O-XYLENE	1.152	1.162	-0.9	103	0.00
82	T	STYRENE	0.863	0.920	-6.6	104	0.00
83	T	NONANE	0.673	0.633	5.9	100	0.00
84	T	BROMOFORM	0.680	0.699	-2.8	108	0.00
85	T	1,1,2,2-TETRACHLOROETHANE	0.845	0.830	1.8	105	0.00
86	T	1,2,3-TRICHLOROPROPANE	0.620	0.604	2.6	103	0.00
87	S	4-BROMOFLUOROBENZENE	0.668	0.660	1.2	106	0.00
88	T	ISOPROPYLBENZENE	0.444	0.455	-2.5	105	0.00
89	T	BROMOBENZENE	0.780	0.742	4.9	102	0.00
90	T	2-CHLOROTOLUENE	0.370	0.388	-4.9	105	0.00
91	T	N-PROPYLBENZENE	0.419	0.452	-7.9	104	0.00
92	T	4-ETHYLTOLUENE	1.494	1.596	-6.8	104	0.00
93	T	1,3,5-TRIMETHYLBENZENE	1.232	1.279	-3.8	104	0.00
94	T	ALPHA-METHYLSTYRENE	0.622	0.664	-6.8	104	0.00
95	T	TERT-BUTYLBENZENE	0.315	0.323	-2.5	105	0.00
96	T	1,2,4-TRIMETHYLBENZENE	1.204	1.260	-4.7	104	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2533-CC2529
Lab FileID: 2W56871.D

97	T	BENZYL CHLORIDE	0.649	0.675	-4.0	104	0.00
98	T	M-DICHLOROBENZENE	0.828	0.833	-0.6	105	0.00
99	T	P-DICHLOROBENZENE	0.805	0.818	-1.6	105	0.00
100	T	O-DICHLOROBENZENE	0.761	0.759	0.3	106	0.00
101	T	SEC-BUTYLBENZENE	0.373	0.391	-4.8	106	0.00
102	T	1,2,3-TRIMETHYLBENZENE	1.161	1.213	-4.5	105	0.00
103	T	P-ISOPROPYLTOLUENE	0.392	0.414	-5.6	107	0.00
104	T	N-BUTYLBENZENE	0.338	0.362	-7.1	106	0.00
105	T	HEXACHLOROETHANE	0.479	0.484	-1.0	107	0.00
106	T	HEXACHLOROBUTADIENE	0.478	0.433	9.4	107	0.00
107	T	1,2,4-TRICHLOROBENZENE	0.432	0.397	8.1	104	0.00
108	T	NAPHTHALENE	0.942	0.833	11.6	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2W2529.M Thu Dec 23 14:43:27 2021 GCMS2W

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2534-CC2529
Lab FileID: 2W56903.D

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
Data File : 2w56903.D
Acq On : 27 Dec 2021 7:56 am
Operator : thomash
Sample : cc2529-10
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 15:06:24 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	115	0.00
2	T	FREON 115	0.000	0.000	0.0	0#	-1.89#
3	T	FREON 152A	0.917	0.867	5.5	107	0.00
4	T	CHLORODIFLUOROMETHANE	0.368	0.344	6.5	105	0.00
5	T	CHLOROTRIFLUOROETHENE	2.329	2.254	3.2	111	0.00
6	T	DICHLORODIFLUOROMETHANE	3.598	4.213	-17.1	133	0.00
7	T	PROPYLENE	1.022	0.937	8.3	106	0.00
8	T	1-CHLORO-1,1-DIFLUOROETHANE	2.380	2.230	6.3	108	0.00
9	T	FREON 114	3.884	3.737	3.8	110	0.00
10	T	CHLOROMETHANE	0.346	0.354	-2.3	111	0.00
11	T	VINYL CHLORIDE	1.470	1.399	4.8	109	0.00
12	t	1,3-BUTADIENE	1.038	1.002	3.5	109	0.00
13	T	N-BUTANE	1.785	1.682	5.8	110	0.00
14	T	BROMOMETHANE	1.478	1.383	6.4	109	0.00
15	T	CHLOROETHANE	0.822	0.786	4.4	108	0.00
16	T	DICHLOROFLUOROMETHANE	3.134	2.991	4.6	109	0.00
17	T	ACETONITRILE	1.055	0.874	17.2	109	0.00
18	T	ACROLEIN	0.611	0.543	11.1	106	0.00
19	T	FREON 123	3.310	3.148	4.9	110	0.00
20	T	FREON 123A	1.871	1.780	4.9	109	0.00
21	T	TRICHLOROFLUOROMETHANE	3.138	2.955	5.8	110	0.00
22	T	ISOPROPYL ALCOHOL	1.869	1.650	11.7	110	0.00
23	T	ACETONE	0.662	0.566	14.5	110	0.00
24	T	PENTANE	0.937	0.909	3.0	113	0.00
25	T	IODOMETHANE	3.559	3.386	4.9	110	0.00
26	T	1,1-DICHLOROETHYLENE	1.302	1.259	3.3	111	0.00
27	T	CARBON DISULFIDE	3.304	3.182	3.7	111	0.00
28	T	ETHANOL	0.532	0.447	16.0	110	0.00
29	T	BROMOETHENE	1.389	1.329	4.3	109	0.00
30	T	ACRYLONITRILE	0.784	0.673	14.2	109	0.00
31	T	METHYLENE CHLORIDE	1.394	1.153	17.3	112	0.00
32	T	3-CHLOROPROPENE	0.592	0.602	-1.7	110	0.00
33	T	FREON 113	2.223	2.167	2.5	111	0.00
34	T	TRANS-1,2-DICHLOROETHENE	1.578	1.497	5.1	108	0.00
35	T	TERTIARY BUTYL ALCOHOL	1.524	1.550	-1.7	113	0.00
36	t	METHYL TERTIARY BUTYL ETHER	3.098	3.092	0.2	113	0.00
37	T	TETRAHYDROFURAN	0.691	0.718	-3.9	107	0.00
38	T	HEXANE	2.355	2.253	4.3	108	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2534-CC2529
Lab FileID: 2W56903.D

39	T	VINYL ACETATE	0.398	0.381	4.3	108	0.00
40	T	1,1-DICHLOROETHANE	2.542	2.410	5.2	107	0.00
41	T	METHYL ETHYL KETONE	0.786	0.728	7.4	107	0.00
42	T	CIS-1,2-DICHLOROETHENE	1.673	1.601	4.3	108	0.00
43	T	DIISOPROPYL ETHER	0.639	0.657	-2.8	107	0.00
44	T	ETHYL ACETATE	0.420	0.428	-1.9	105	0.00
45	T	METHYL ACRYLATE	2.680	2.485	7.3	107	0.00
46	T	CHLOROFORM	3.026	2.862	5.4	108	0.00
47	T	2,4-DIMETHYLPENTANE	2.837	2.682	5.5	106	0.00
48	T	1,1,1-TRICHLOROETHANE	2.771	2.681	3.2	109	0.00
49	T	CARBON TETRACHLORIDE	2.943	2.844	3.4	110	0.00
50	T	1,2-DICHLOROETHANE	1.708	1.588	7.0	107	0.00
51	t	BENZENE	5.075	4.716	7.1	107	0.00
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	113	0.00
53	T	CYCLOHEXANE	0.421	0.409	2.9	109	0.00
54	T	2,3-DIMETHYLPENTANE	0.214	0.212	0.9	108	0.00
55	T	TRICHLOROETHENE	0.407	0.392	3.7	109	0.00
56	T	1,2-DICHLOROPROPANE	0.338	0.322	4.7	107	0.00
57	T	DIBROMOMETHANE	0.405	0.370	8.6	110	0.00
58	T	ETHYL ACRYLATE	0.562	0.568	-1.1	105	0.00
59	T	BROMODICHLOROMETHANE	0.637	0.605	5.0	109	0.00
60	T	2,2,4-TRIMETHYLPENTANE	1.475	1.388	5.9	108	0.00
61	T	1,4-DIOXANE	0.246	0.200	18.7	107	0.00
62	T	HEPTANE	0.442	0.429	2.9	106	0.00
63	T	METHYL METHACRYLATE	0.322	0.325	-0.9	105	0.00
64	T	METHYL ISOBUTYL KETONE	0.250	0.252	-0.8	105	0.00
65	T	CIS-1,3-DICHLOROPROPENE	0.468	0.469	-0.2	106	0.00
66	T	TOLUENE	1.133	1.086	4.1	107	0.00
67	T	1,3-DICHLOROPROPANE	0.524	0.507	3.2	107	0.00
68	T	TRANS-1,3-DICHLOROPROPENE	0.380	0.381	-0.3	106	0.00
69	T	1,1,2-TRICHLOROETHANE	0.326	0.312	4.3	108	0.00
70	T	2-HEXANONE	0.320	0.299	6.6	104	0.00
71	T	ETHYL METHACRYLATE	0.468	0.503	-7.5	105	0.00
72	T	TETRACHLOROETHENE	0.420	0.413	1.7	109	0.00
73	T	DIBROMOCHLOROMETHANE	0.642	0.627	2.3	109	0.00
74	T	1,2-DIBROMOETHANE	0.555	0.533	4.0	108	0.00
75	T	OCTANE	0.571	0.567	0.7	105	0.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	111	0.00
77	T	1,1,1,2-TETRACHLOROETHANE	0.501	0.504	-0.6	110	0.00
78	T	CHLOROBENZENE	0.997	0.957	4.0	108	0.00
79	t	ETHYLBENZENE	1.533	1.523	0.7	105	0.00
80	t	M,P-XYLENE	1.148	1.160	-1.0	107	0.00
81	t	O-XYLENE	1.152	1.163	-1.0	107	0.00
82	T	STYRENE	0.863	0.896	-3.8	104	0.00
83	T	NONANE	0.673	0.644	4.3	105	0.00
84	T	BROMOFORM	0.680	0.685	-0.7	109	0.00
85	T	1,1,2,2-TETRACHLOROETHANE	0.845	0.819	3.1	107	0.00
86	T	1,2,3-TRICHLOROPROPANE	0.620	0.600	3.2	106	0.00
87	S	4-BROMOFLUOROBENZENE	0.668	0.664	0.6	110	0.00
88	T	ISOPROPYLBENZENE	0.444	0.447	-0.7	107	0.00
89	T	BROMOBENZENE	0.780	0.740	5.1	105	0.00
90	T	2-CHLOROTOLUENE	0.370	0.379	-2.4	106	0.00
91	T	N-PROPYLBENZENE	0.419	0.448	-6.9	106	0.00
92	T	4-ETHYLTOLUENE	1.494	1.553	-3.9	104	0.00
93	T	1,3,5-TRIMETHYLBENZENE	1.232	1.262	-2.4	106	0.00
94	T	ALPHA-METHYLSTYRENE	0.622	0.648	-4.2	105	0.00
95	T	TERT-BUTYLBENZENE	0.315	0.320	-1.6	107	0.00
96	T	1,2,4-TRIMETHYLBENZENE	1.204	1.245	-3.4	107	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2534-CC2529
Lab FileID: 2W56903.D

97	T	BENZYL CHLORIDE	0.649	0.666	-2.6	106	0.00
98	T	M-DICHLOROBENZENE	0.828	0.814	1.7	106	0.00
99	T	P-DICHLOROBENZENE	0.805	0.793	1.5	105	0.00
100	T	O-DICHLOROBENZENE	0.761	0.741	2.6	107	0.00
101	T	SEC-BUTYLBENZENE	0.373	0.383	-2.7	107	0.00
102	T	1,2,3-TRIMETHYLBENZENE	1.161	1.194	-2.8	107	0.00
103	T	P-ISOPROPYLTOLUENE	0.392	0.404	-3.1	108	0.00
104	T	N-BUTYLBENZENE	0.338	0.354	-4.7	107	0.00
105	T	HEXACHLOROETHANE	0.479	0.473	1.3	108	0.00
106	T	HEXACHLOROBUTADIENE	0.478	0.417	12.8	106	0.00
107	T	1,2,4-TRICHLOROBENZENE	0.432	0.380	12.0	103	0.00
108	T	NAPHTHALENE	0.942	0.805	14.5	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2W2529.M Mon Dec 27 15:09:05 2021 GCMS2W

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2535-CC2529
Lab FileID: 2W56930.D

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
Data File : 2w56930.D
Acq On : 28 Dec 2021 7:47 am
Operator : thomash
Sample : cc2529-10
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 16:25:36 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	115	0.00
2	T	FREON 115	0.000	0.000	0.0	0#	-1.89#
3	T	FREON 152A	0.917	0.821	10.5	102	0.00
4	T	CHLORODIFLUOROMETHANE	0.368	0.324	12.0	100	0.00
5	T	CHLOROTRIFLUOROETHENE	2.329	2.185	6.2	108	0.00
6	T	DICHLORODIFLUOROMETHANE	3.598	4.073	-13.2	129	0.00
7	T	PROPYLENE	1.022	0.865	15.4	99	0.00
8	T	1-CHLORO-1,1-DIFLUOROETHANE	2.380	2.131	10.5	104	0.00
9	T	FREON 114	3.884	3.617	6.9	107	0.00
10	T	CHLOROMETHANE	0.346	0.333	3.8	105	0.00
11	T	VINYL CHLORIDE	1.470	1.344	8.6	106	0.00
12	t	1,3-BUTADIENE	1.038	0.956	7.9	105	0.00
13	T	N-BUTANE	1.785	1.585	11.2	104	0.00
14	T	BROMOMETHANE	1.478	1.361	7.9	108	0.00
15	T	CHLOROETHANE	0.822	0.761	7.4	105	0.00
16	T	DICHLOROFLUOROMETHANE	3.134	2.877	8.2	105	0.00
17	T	ACETONITRILE	1.055	0.800	24.2	101	0.00
18	T	ACROLEIN	0.611	0.507	17.0	99	0.00
19	T	FREON 123	3.310	3.020	8.8	106	0.00
20	T	FREON 123A	1.871	1.741	6.9	108	0.00
21	T	TRICHLOROFLUOROMETHANE	3.138	2.881	8.2	107	0.00
22	T	ISOPROPYL ALCOHOL	1.869	1.542	17.5	103	0.00
23	T	ACETONE	0.662	0.543	18.0	106	0.00
24	T	PENTANE	0.937	0.849	9.4	106	0.00
25	T	IODOMETHANE	3.559	3.376	5.1	110	0.00
26	T	1,1-DICHLOROETHYLENE	1.302	1.230	5.5	109	0.00
27	T	CARBON DISULFIDE	3.304	3.108	5.9	109	0.00
28	T	ETHANOL	0.532	0.420	21.1	104	0.00
29	T	BROMOETHENE	1.389	1.308	5.8	108	0.00
30	T	ACRYLONITRILE	0.784	0.650	17.1	105	0.00
31	T	METHYLENE CHLORIDE	1.394	1.120	19.7	110	0.00
32	T	3-CHLOROPROPENE	0.592	0.580	2.0	107	0.00
33	T	FREON 113	2.223	2.135	4.0	110	0.00
34	T	TRANS-1,2-DICHLOROETHENE	1.578	1.463	7.3	106	0.00
35	T	TERTIARY BUTYL ALCOHOL	1.524	1.450	4.9	107	0.00
36	t	METHYL TERTIARY BUTYL ETHER	3.098	2.857	7.8	105	0.00
37	T	TETRAHYDROFURAN	0.691	0.694	-0.4	104	0.00
38	T	HEXANE	2.355	2.181	7.4	105	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2535-CC2529
Lab FileID: 2W56930.D

39	T	VINYL ACETATE	0.398	0.370	7.0	105	0.00
40	T	1,1-DICHLOROETHANE	2.542	2.319	8.8	103	0.00
41	T	METHYL ETHYL KETONE	0.786	0.708	9.9	105	0.00
42	T	CIS-1,2-DICHLOROETHENE	1.673	1.576	5.8	107	0.00
43	T	DIISOPROPYL ETHER	0.639	0.630	1.4	103	0.00
44	T	ETHYL ACETATE	0.420	0.408	2.9	100	0.00
45	T	METHYL ACRYLATE	2.680	2.368	11.6	103	0.00
46	T	CHLOROFORM	3.026	2.776	8.3	105	0.00
47	T	2,4-DIMETHYLPENTANE	2.837	2.584	8.9	103	0.00
48	T	1,1,1-TRICHLOROETHANE	2.771	2.572	7.2	106	0.00
49	T	CARBON TETRACHLORIDE	2.943	2.767	6.0	108	0.00
50	T	1,2-DICHLOROETHANE	1.708	1.524	10.8	104	0.00
51	t	BENZENE	5.075	4.593	9.5	105	0.00
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	114	0.00
53	T	CYCLOHEXANE	0.421	0.396	5.9	107	0.00
54	T	2,3-DIMETHYLPENTANE	0.214	0.203	5.1	104	0.00
55	T	TRICHLOROETHENE	0.407	0.381	6.4	107	0.00
56	T	1,2-DICHLOROPROPANE	0.338	0.305	9.8	103	0.00
57	T	DIBROMOMETHANE	0.405	0.366	9.6	110	0.00
58	T	ETHYL ACRYLATE	0.562	0.534	5.0	100	0.00
59	T	BROMODICHLOROMETHANE	0.637	0.586	8.0	106	0.00
60	T	2,2,4-TRIMETHYLPENTANE	1.475	1.318	10.6	103	0.00
61	T	1,4-DIOXANE	0.246	0.195	20.7	105	0.00
62	T	HEPTANE	0.442	0.402	9.0	101	0.00
63	T	METHYL METHACRYLATE	0.322	0.310	3.7	102	0.00
64	T	METHYL ISOBUTYL KETONE	0.250	0.238	4.8	100	0.00
65	T	CIS-1,3-DICHLOROPROPENE	0.468	0.449	4.1	103	0.00
66	T	TOLUENE	1.133	1.054	7.0	105	0.00
67	T	1,3-DICHLOROPROPANE	0.524	0.488	6.9	104	0.00
68	T	TRANS-1,3-DICHLOROPROPENE	0.380	0.361	5.0	102	0.00
69	T	1,1,2-TRICHLOROETHANE	0.326	0.301	7.7	105	0.00
70	T	2-HEXANONE	0.320	0.280	12.5	98	0.00
71	T	ETHYL METHACRYLATE	0.468	0.477	-1.9	101	0.00
72	T	TETRACHLOROETHENE	0.420	0.409	2.6	109	0.00
73	T	DIBROMOCHLOROMETHANE	0.642	0.609	5.1	107	0.00
74	T	1,2-DIBROMOETHANE	0.555	0.518	6.7	106	0.00
75	T	OCTANE	0.571	0.527	7.7	99	0.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	113	0.00
77	T	1,1,1,2-TETRACHLOROETHANE	0.501	0.488	2.6	108	0.00
78	T	CHLOROBENZENE	0.997	0.933	6.4	106	0.00
79	t	ETHYLBENZENE	1.533	1.470	4.1	103	0.00
80	t	M,P-XYLENE	1.148	1.113	3.0	104	0.00
81	t	O-XYLENE	1.152	1.111	3.6	103	0.00
82	T	STYRENE	0.863	0.873	-1.2	103	0.00
83	T	NONANE	0.673	0.601	10.7	100	0.00
84	T	BROMOFORM	0.680	0.665	2.2	108	0.00
85	T	1,1,2,2-TETRACHLOROETHANE	0.845	0.787	6.9	104	0.00
86	T	1,2,3-TRICHLOROPROPANE	0.620	0.574	7.4	103	0.00
87	S	4-BROMOFLUOROBENZENE	0.668	0.650	2.7	109	0.00
88	T	ISOPROPYLBENZENE	0.444	0.439	1.1	106	0.00
89	T	BROMOBENZENE	0.780	0.703	9.9	101	0.00
90	T	2-CHLOROTOLUENE	0.370	0.373	-0.8	105	0.00
91	T	N-PROPYLBENZENE	0.419	0.436	-4.1	105	0.00
92	T	4-ETHYLTOLUENE	1.494	1.514	-1.3	103	0.00
93	T	1,3,5-TRIMETHYLBENZENE	1.232	1.225	0.6	104	0.00
94	T	ALPHA-METHYLSTYRENE	0.622	0.635	-2.1	104	0.00
95	T	TERT-BUTYLBENZENE	0.315	0.310	1.6	105	0.00
96	T	1,2,4-TRIMETHYLBENZENE	1.204	1.204	0.0	104	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2535-CC2529
Lab FileID: 2W56930.D

97	T	BENZYL CHLORIDE	0.649	0.615	5.2	99	0.00
98	T	M-DICHLOROBENZENE	0.828	0.785	5.2	104	0.00
99	T	P-DICHLOROBENZENE	0.805	0.771	4.2	104	0.00
100	T	O-DICHLOROBENZENE	0.761	0.717	5.8	105	0.00
101	T	SEC-BUTYLBENZENE	0.373	0.375	-0.5	106	0.00
102	T	1,2,3-TRIMETHYLBENZENE	1.161	1.143	1.6	103	0.00
103	T	P-ISOPROPYLTOLUENE	0.392	0.393	-0.3	106	0.00
104	T	N-BUTYLBENZENE	0.338	0.342	-1.2	104	0.00
105	T	HEXACHLOROETHANE	0.479	0.452	5.6	104	0.00
106	T	HEXACHLOROBUTADIENE	0.478	0.406	15.1	105	0.00
107	T	1,2,4-TRICHLOROBENZENE	0.432	0.371	14.1	102	0.00
108	T	NAPHTHALENE	0.942	0.769	18.4	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2W2529.M Tue Dec 28 16:25:50 2021 GCMS2W

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2536-CC2529
Lab FileID: 2W56959.D

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
Data File : 2w56959.D
Acq On : 29 Dec 2021 7:39 am
Operator : thomash
Sample : cc2529-10
Misc : MS55592,V2w2536,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 15:13:52 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	113	0.00
2	T	FREON 115	0.000	0.000	0.0	0#	-1.89#
3	T	FREON 152A	0.917	0.807	12.0	98	0.00
4	T	CHLORODIFLUOROMETHANE	0.368	0.327	11.1	99	0.00
5	T	CHLOROTRIFLUOROETHENE	2.329	2.171	6.8	106	0.00
6	T	DICHLORODIFLUOROMETHANE	3.598	4.055	-12.7	126	0.00
7	T	PROPYLENE	1.022	0.854	16.4	96	0.00
8	T	1-CHLORO-1,1-DIFLUOROETHANE	2.380	2.122	10.8	102	0.00
9	T	FREON 114	3.884	3.613	7.0	105	0.00
10	T	CHLOROMETHANE	0.346	0.333	3.8	104	0.00
11	T	VINYL CHLORIDE	1.470	1.338	9.0	104	0.00
12	t	1,3-BUTADIENE	1.038	0.953	8.2	103	0.00
13	T	N-BUTANE	1.785	1.574	11.8	102	0.00
14	T	BROMOMETHANE	1.478	1.346	8.9	105	0.00
15	T	CHLOROETHANE	0.822	0.756	8.0	103	0.00
16	T	DICHLOROFLUOROMETHANE	3.134	2.854	8.9	103	0.00
17	T	ACETONITRILE	1.055	0.817	22.6	101	0.00
18	T	ACROLEIN	0.611	0.512	16.2	99	0.00
19	T	FREON 123	3.310	3.066	7.4	106	0.00
20	T	FREON 123A	1.871	1.765	5.7	107	0.00
21	T	TRICHLOROFLUOROMETHANE	3.138	2.892	7.8	106	0.00
22	T	ISOPROPYL ALCOHOL	1.869	1.541	17.5	101	0.00
23	T	ACETONE	0.662	0.550	16.9	106	0.00
24	T	PENTANE	0.937	0.852	9.1	104	0.00
25	T	IODOMETHANE	3.559	3.388	4.8	109	0.00
26	T	1,1-DICHLOROETHYLENE	1.302	1.244	4.5	108	0.00
27	T	CARBON DISULFIDE	3.304	3.108	5.9	107	0.00
28	T	ETHANOL	0.532	0.415	22.0	101	0.00
29	T	BROMOETHENE	1.389	1.324	4.7	108	0.00
30	T	ACRYLONITRILE	0.784	0.655	16.5	105	0.00
31	T	METHYLENE CHLORIDE	1.394	1.132	18.8	109	0.00
32	T	3-CHLOROPROPENE	0.592	0.582	1.7	106	0.00
33	T	FREON 113	2.223	2.135	4.0	108	0.00
34	T	TRANS-1,2-DICHLOROETHENE	1.578	1.455	7.8	104	0.00
35	T	TERTIARY BUTYL ALCOHOL	1.524	1.423	6.6	103	0.00
36	t	METHYL TERTIARY BUTYL ETHER	3.098	2.841	8.3	103	0.00
37	T	TETRAHYDROFURAN	0.691	0.682	1.3	101	0.00
38	T	HEXANE	2.355	2.155	8.5	102	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2536-CC2529
Lab FileID: 2W56959.D

39	T	VINYL ACETATE	0.398	0.368	7.5	103	0.00
40	T	1,1-DICHLOROETHANE	2.542	2.290	9.9	100	0.00
41	T	METHYL ETHYL KETONE	0.786	0.696	11.5	101	0.00
42	T	CIS-1,2-DICHLOROETHENE	1.673	1.570	6.2	105	0.00
43	T	DIISOPROPYL ETHER	0.639	0.624	2.3	100	0.00
44	T	ETHYL ACETATE	0.420	0.412	1.9	100	0.00
45	T	METHYL ACRYLATE	2.680	2.357	12.1	100	0.00
46	T	CHLOROFORM	3.026	2.773	8.4	103	0.00
47	T	2,4-DIMETHYLPENTANE	2.837	2.561	9.7	100	0.00
48	T	1,1,1-TRICHLOROETHANE	2.771	2.565	7.4	104	0.00
49	T	CARBON TETRACHLORIDE	2.943	2.779	5.6	107	0.00
50	T	1,2-DICHLOROETHANE	1.708	1.524	10.8	102	0.00
51	t	BENZENE	5.075	4.574	9.9	103	0.00
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	112	0.00
53	T	CYCLOHEXANE	0.421	0.395	6.2	104	0.00
54	T	2,3-DIMETHYLPENTANE	0.214	0.205	4.2	103	0.00
55	T	TRICHLOROETHENE	0.407	0.382	6.1	105	0.00
56	T	1,2-DICHLOROPROPANE	0.338	0.306	9.5	101	0.00
57	T	DIBROMOMETHANE	0.405	0.367	9.4	108	0.00
58	T	ETHYL ACRYLATE	0.562	0.533	5.2	98	0.00
59	T	BROMODICHLOROMETHANE	0.637	0.588	7.7	104	0.00
60	T	2,2,4-TRIMETHYLPENTANE	1.475	1.324	10.2	101	0.00
61	T	1,4-DIOXANE	0.246	0.196	20.3	103	0.00
62	T	HEPTANE	0.442	0.399	9.7	98	0.00
63	T	METHYL METHACRYLATE	0.322	0.310	3.7	99	0.00
64	T	METHYL ISOBUTYL KETONE	0.250	0.239	4.4	98	0.00
65	T	CIS-1,3-DICHLOROPROPENE	0.468	0.449	4.1	101	0.00
66	T	TOLUENE	1.133	1.057	6.7	103	0.00
67	T	1,3-DICHLOROPROPANE	0.524	0.492	6.1	102	0.00
68	T	TRANS-1,3-DICHLOROPROPENE	0.380	0.360	5.3	99	0.00
69	T	1,1,2-TRICHLOROETHANE	0.326	0.301	7.7	103	0.00
70	T	2-HEXANONE	0.320	0.280	12.5	96	0.00
71	T	ETHYL METHACRYLATE	0.468	0.478	-2.1	98	0.00
72	T	TETRACHLOROETHENE	0.420	0.411	2.1	107	0.00
73	T	DIBROMOCHLOROMETHANE	0.642	0.617	3.9	106	0.00
74	T	1,2-DIBROMOETHANE	0.555	0.520	6.3	104	0.00
75	T	OCTANE	0.571	0.527	7.7	97	0.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	109	0.00
77	T	1,1,1,2-TETRACHLOROETHANE	0.501	0.496	1.0	106	0.00
78	T	CHLOROBENZENE	0.997	0.946	5.1	104	0.00
79	t	ETHYLBENZENE	1.533	1.486	3.1	101	0.00
80	t	M,P-XYLENE	1.148	1.130	1.6	102	0.00
81	t	O-XYLENE	1.152	1.134	1.6	102	0.00
82	T	STYRENE	0.863	0.888	-2.9	101	0.00
83	T	NONANE	0.673	0.604	10.3	97	0.00
84	T	BROMOFORM	0.680	0.677	0.4	106	0.00
85	T	1,1,2,2-TETRACHLOROETHANE	0.845	0.796	5.8	102	0.00
86	T	1,2,3-TRICHLOROPROPANE	0.620	0.582	6.1	101	0.00
87	S	4-BROMOFLUOROBENZENE	0.668	0.657	1.6	107	0.00
88	T	ISOPROPYLBENZENE	0.444	0.447	-0.7	105	0.00
89	T	BROMOBENZENE	0.780	0.713	8.6	99	0.00
90	T	2-CHLOROTOLUENE	0.370	0.382	-3.2	104	0.00
91	T	N-PROPYLBENZENE	0.419	0.442	-5.5	103	0.00
92	T	4-ETHYLTOLUENE	1.494	1.541	-3.1	102	0.00
93	T	1,3,5-TRIMETHYLBENZENE	1.232	1.244	-1.0	102	0.00
94	T	ALPHA-METHYLSTYRENE	0.622	0.644	-3.5	102	0.00
95	T	TERT-BUTYLBENZENE	0.315	0.313	0.6	103	0.00
96	T	1,2,4-TRIMETHYLBENZENE	1.204	1.212	-0.7	102	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2536-CC2529
Lab FileID: 2W56959.D

97	T	BENZYL CHLORIDE	0.649	0.614	5.4	96	0.00
98	T	M-DICHLOROBENZENE	0.828	0.797	3.7	102	0.00
99	T	P-DICHLOROBENZENE	0.805	0.780	3.1	101	0.00
100	T	O-DICHLOROBENZENE	0.761	0.732	3.8	104	0.00
101	T	SEC-BUTYLBENZENE	0.373	0.386	-3.5	106	0.00
102	T	1,2,3-TRIMETHYLBENZENE	1.161	1.165	-0.3	102	0.00
103	T	P-ISOPROPYLTOLUENE	0.392	0.401	-2.3	105	0.00
104	T	N-BUTYLBENZENE	0.338	0.349	-3.3	103	0.00
105	T	HEXACHLOROETHANE	0.479	0.456	4.8	102	0.00
106	T	HEXACHLOROBUTADIENE	0.478	0.415	13.2	103	0.00
107	T	1,2,4-TRICHLOROBENZENE	0.432	0.370	14.4	98	0.00
108	T	NAPHTHALENE	0.942	0.776	17.6	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2W2529.M Wed Dec 29 15:16:24 2021 GCMS2W

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2539-CC2529
Lab FileID: 2W57042.D

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
Data File : 2w57042.D
Acq On : 4 Jan 2022 1:03 pm
Operator : danat
Sample : cc2529-10
Misc : MS55592,V2w2539,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 16:13:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	110	0.00
2	T	FREON 115	0.000	0.000	0.0	0#	-1.89#
3	T	FREON 152A	0.917	0.836	8.8	99	0.00
4	T	CHLORODIFLUOROMETHANE	0.368	0.338	8.2	100	0.00
5	T	CHLOROTRIFLUOROETHENE	2.329	2.231	4.2	106	0.00
6	T	DICHLORODIFLUOROMETHANE	3.598	4.329	-20.3	131	0.00
7	T	PROPYLENE	1.022	0.910	11.0	99	0.00
8	T	1-CHLORO-1,1-DIFLUOROETHANE	2.380	2.314	2.8	108	0.00
9	T	FREON 114	3.884	3.921	-1.0	111	0.00
10	T	CHLOROMETHANE	0.346	0.363	-4.9	110	0.00
11	T	VINYL CHLORIDE	1.470	1.458	0.8	110	0.00
12	t	1,3-BUTADIENE	1.038	1.036	0.2	109	0.00
13	T	N-BUTANE	1.785	1.734	2.9	109	0.00
14	T	BROMOMETHANE	1.478	1.462	1.1	111	0.00
15	T	CHLOROETHANE	0.822	0.829	-0.9	110	0.00
16	T	DICHLOROFLUOROMETHANE	3.134	3.110	0.8	109	0.00
17	T	ACETONITRILE	1.055	0.949	10.0	115	0.00
18	T	ACROLEIN	0.611	0.586	4.1	110	0.00
19	T	FREON 123	3.310	3.363	-1.6	113	0.00
20	T	FREON 123A	1.871	1.888	-0.9	112	0.00
21	T	TRICHLOROFLUOROMETHANE	3.138	3.162	-0.8	113	0.00
22	T	ISOPROPYL ALCOHOL	1.869	1.887	-1.0	121	0.00
23	T	ACETONE	0.662	0.624	5.7	117	0.00
24	T	PENTANE	0.937	1.025	-9.4	122	0.00
25	T	IODOMETHANE	3.559	3.656	-2.7	114	0.00
26	T	1,1-DICHLOROETHYLENE	1.302	1.381	-6.1	117	0.00
27	T	CARBON DISULFIDE	3.304	3.609	-9.2	121	0.00
28	T	ETHANOL	0.532	0.478	10.2	113	0.00
29	T	BROMOETHENE	1.389	1.414	-1.8	112	0.00
30	T	ACRYLONITRILE	0.784	0.782	0.3	121	0.00
31	T	METHYLENE CHLORIDE	1.394	1.264	9.3	118	0.00
32	T	3-CHLOROPROPENE	0.592	0.668	-12.8	118	0.00
33	T	FREON 113	2.223	2.327	-4.7	115	0.00
34	T	TRANS-1,2-DICHLOROETHENE	1.578	1.528	3.2	106	0.00
35	T	TERTIARY BUTYL ALCOHOL	1.524	1.837	-20.5	129	0.00
36	t	METHYL TERTIARY BUTYL ETHER	3.098	3.231	-4.3	114	0.00
37	T	TETRAHYDROFURAN	0.691	0.762	-10.3	109	0.00
38	T	HEXANE	2.355	2.356	-0.0	108	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2539-CC2529
Lab FileID: 2W57042.D

39	T	VINYL ACETATE	0.398	0.379	4.8	103	0.00
40	T	1,1-DICHLOROETHANE	2.542	2.463	3.1	105	0.00
41	T	METHYL ETHYL KETONE	0.786	0.765	2.7	108	0.00
42	T	CIS-1,2-DICHLOROETHENE	1.673	1.663	0.6	108	0.00
43	T	DIISOPROPYL ETHER	0.639	0.698	-9.2	109	0.00
44	T	ETHYL ACETATE	0.420	0.457	-8.8	108	0.00
45	T	METHYL ACRYLATE	2.680	2.645	1.3	110	0.00
46	T	CHLOROFORM	3.026	2.975	1.7	108	0.00
47	T	2,4-DIMETHYLPENTANE	2.837	2.804	1.2	107	0.00
48	T	1,1,1-TRICHLOROETHANE	2.771	2.767	0.1	109	0.00
49	T	CARBON TETRACHLORIDE	2.943	2.952	-0.3	111	0.00
50	T	1,2-DICHLOROETHANE	1.708	1.651	3.3	107	0.00
51	t	BENZENE	5.075	4.944	2.6	108	0.00
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	111	0.00
53	T	CYCLOHEXANE	0.421	0.418	0.7	109	0.00
54	T	2,3-DIMETHYLPENTANE	0.214	0.218	-1.9	108	0.00
55	T	TRICHLOROETHENE	0.407	0.399	2.0	108	0.00
56	T	1,2-DICHLOROPROPANE	0.338	0.333	1.5	109	0.00
57	T	DIBROMOMETHANE	0.405	0.382	5.7	111	0.00
58	T	ETHYL ACRYLATE	0.562	0.607	-8.0	110	0.00
59	T	BROMODICHLOROMETHANE	0.637	0.624	2.0	110	0.00
60	T	2,2,4-TRIMETHYLPENTANE	1.475	1.423	3.5	108	0.00
61	T	1,4-DIOXANE	0.246	0.216	12.2	112	0.00
62	T	HEPTANE	0.442	0.442	0.0	107	0.00
63	T	METHYL METHACRYLATE	0.322	0.344	-6.8	109	0.00
64	T	METHYL ISOBUTYL KETONE	0.250	0.274	-9.6	111	0.00
65	T	CIS-1,3-DICHLOROPROPENE	0.468	0.489	-4.5	108	0.00
66	T	TOLUENE	1.133	1.127	0.5	109	0.00
67	T	1,3-DICHLOROPROPANE	0.524	0.525	-0.2	108	0.00
68	T	TRANS-1,3-DICHLOROPROPENE	0.380	0.400	-5.3	109	0.00
69	T	1,1,2-TRICHLOROETHANE	0.326	0.324	0.6	109	0.00
70	T	2-HEXANONE	0.320	0.341	-6.6	115	0.00
71	T	ETHYL METHACRYLATE	0.468	0.541	-15.6	110	0.00
72	T	TETRACHLOROETHENE	0.420	0.443	-5.5	114	0.00
73	T	DIBROMOCHLOROMETHANE	0.642	0.651	-1.4	111	0.00
74	T	1,2-DIBROMOETHANE	0.555	0.560	-0.9	110	0.00
75	T	OCTANE	0.571	0.587	-2.8	106	0.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	111	0.00
77	T	1,1,1,2-TETRACHLOROETHANE	0.501	0.514	-2.6	111	0.00
78	T	CHLOROBENZENE	0.997	0.979	1.8	109	0.00
79	t	ETHYLBENZENE	1.533	1.579	-3.0	108	0.00
80	t	M,P-XYLENE	1.148	1.185	-3.2	108	0.00
81	t	O-XYLENE	1.152	1.192	-3.5	108	0.00
82	T	STYRENE	0.863	0.942	-9.2	108	0.00
83	T	NONANE	0.673	0.664	1.3	108	0.00
84	T	BROMOFORM	0.680	0.713	-4.9	113	0.00
85	T	1,1,2,2-TETRACHLOROETHANE	0.845	0.859	-1.7	111	0.00
86	T	1,2,3-TRICHLOROPROPANE	0.620	0.630	-1.6	110	0.00
87	S	4-BROMOFLUOROBENZENE	0.668	0.657	1.6	108	0.00
88	T	ISOPROPYLBENZENE	0.444	0.463	-4.3	110	0.00
89	T	BROMOBENZENE	0.780	0.767	1.7	107	0.00
90	T	2-CHLOROTOLUENE	0.370	0.401	-8.4	111	0.00
91	T	N-PROPYLBENZENE	0.419	0.464	-10.7	109	0.00
92	T	4-ETHYLTOLUENE	1.494	1.642	-9.9	109	0.00
93	T	1,3,5-TRIMETHYLBENZENE	1.232	1.323	-7.4	110	0.00
94	T	ALPHA-METHYLSTYRENE	0.622	0.686	-10.3	110	0.00
95	T	TERT-BUTYLBENZENE	0.315	0.338	-7.3	112	0.00
96	T	1,2,4-TRIMETHYLBENZENE	1.204	1.303	-8.2	111	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2539-CC2529
Lab FileID: 2W57042.D

97	T	BENZYL CHLORIDE	0.649	0.694	-6.9	110	0.00
98	T	M-DICHLOROBENZENE	0.828	0.865	-4.5	112	0.00
99	T	P-DICHLOROBENZENE	0.805	0.843	-4.7	111	0.00
100	T	O-DICHLOROBENZENE	0.761	0.790	-3.8	113	0.00
101	T	SEC-BUTYLBENZENE	0.373	0.405	-8.6	113	0.00
102	T	1,2,3-TRIMETHYLBENZENE	1.161	1.248	-7.5	110	0.00
103	T	P-ISOPROPYLTOLUENE	0.392	0.428	-9.2	113	0.00
104	T	N-BUTYLBENZENE	0.338	0.374	-10.7	112	0.00
105	T	HEXACHLOROETHANE	0.479	0.485	-1.3	109	0.00
106	T	HEXACHLOROBUTADIENE	0.478	0.471	1.5	119	0.00
107	T	1,2,4-TRICHLOROBENZENE	0.432	0.441	-2.1	118	0.00
108	T	NAPHTHALENE	0.942	0.961	-2.0	121	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2W2529.M Tue Jan 04 16:14:02 2022 GCMS2W

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2558-CC2529
Lab FileID: 2W57473.D

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
Data File : 2w57473.D
Acq On : 28 Jan 2022 8:24 am
Operator : thomash
Sample : cc2529-10
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:55:43 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	98	0.00
2	T	FREON 115	0.000	0.000	0.0	0#	-1.89#
3	T	FREON 152A	0.917	0.777	15.3	82	0.00
4	T	CHLORODIFLUOROMETHANE	0.368	0.328	10.9	86	0.00
5	T	CHLOROTRIFLUOROETHENE	2.329	2.070	11.1	87	0.00
6	T	DICHLORODIFLUOROMETHANE	3.598	4.079	-13.4	110	0.00
7	T	PROPYLENE	1.022	0.895	12.4	87	0.00
8	T	1-CHLORO-1,1-DIFLUOROETHANE	2.380	2.264	4.9	94	0.00
9	T	FREON 114	3.884	3.721	4.2	94	0.00
10	T	CHLOROMETHANE	0.346	0.371	-7.2	100	0.00
11	T	VINYL CHLORIDE	1.470	1.435	2.4	96	0.00
12	t	1,3-BUTADIENE	1.038	1.047	-0.9	98	0.00
13	T	N-BUTANE	1.785	1.881	-5.4	105	0.00
14	T	BROMOMETHANE	1.478	1.356	8.3	91	0.00
15	T	CHLOROETHANE	0.822	0.802	2.4	94	0.00
16	T	DICHLOROFLUOROMETHANE	3.134	2.988	4.7	93	0.00
17	T	ACETONITRILE	1.055	1.037	1.7	111	0.00
18	T	ACROLEIN	0.611	0.591	3.3	98	0.00
19	T	FREON 123	3.310	3.199	3.4	96	0.00
20	T	FREON 123A	1.871	1.728	7.6	91	0.00
21	T	TRICHLOROFLUOROMETHANE	3.138	2.995	4.6	95	0.00
22	T	ISOPROPYL ALCOHOL	1.869	2.075	-11.0	118	0.00
23	T	ACETONE	0.662	0.638	3.6	106	0.00
24	T	PENTANE	0.937	1.188	-26.8	126	0.00
25	T	IODOMETHANE	3.559	3.327	6.5	92	0.00
26	T	1,1-DICHLOROETHYLENE	1.302	1.318	-1.2	99	0.00
27	T	CARBON DISULFIDE	3.304	3.591	-8.7	107	0.00
28	T	ETHANOL	0.532	0.520	2.3	109	0.00
29	T	BROMOETHENE	1.389	1.296	6.7	91	0.00
30	T	ACRYLONITRILE	0.784	0.842	-7.4	116	0.00
31	T	METHYLENE CHLORIDE	1.394	1.237	11.3	103	0.00
32	T	3-CHLOROPROPENE	0.592	0.671	-13.3	105	0.00
33	T	FREON 113	2.223	2.102	5.4	92	0.00
34	T	TRANS-1,2-DICHLOROETHENE	1.578	1.378	12.7	85	0.00
35	T	TERTIARY BUTYL ALCOHOL	1.524	2.180	-43.0#	136	0.00
36	t	METHYL TERTIARY BUTYL ETHER	3.098	3.413	-10.2	106	0.00
37	T	TETRAHYDROFURAN	0.691	0.716	-3.6	91	0.00
38	T	HEXANE	2.355	2.286	2.9	93	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2558-CC2529
Lab FileID: 2W57473.D

39	T	VINYL ACETATE	0.398	0.338	15.1	82	0.00
40	T	1,1-DICHLOROETHANE	2.542	2.338	8.0	88	0.00
41	T	METHYL ETHYL KETONE	0.786	0.714	9.2	90	0.00
42	T	CIS-1,2-DICHLOROETHENE	1.673	1.512	9.6	87	0.00
43	T	DIISOPROPYL ETHER	0.639	0.670	-4.9	93	0.00
44	T	ETHYL ACETATE	0.420	0.436	-3.8	91	0.00
45	T	METHYL ACRYLATE	2.680	2.590	3.4	95	0.00
46	T	CHLOROFORM	3.026	2.825	6.6	91	0.00
47	T	2,4-DIMETHYLPENTANE	2.837	2.707	4.6	91	0.00
48	T	1,1,1-TRICHLOROETHANE	2.771	2.651	4.3	92	0.00
49	T	CARBON TETRACHLORIDE	2.943	2.757	6.3	92	0.00
50	T	1,2-DICHLOROETHANE	1.708	1.671	2.2	96	0.00
51	t	BENZENE	5.075	4.620	9.0	90	0.00
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	101	0.00
53	T	CYCLOHEXANE	0.421	0.374	11.2	89	0.00
54	T	2,3-DIMETHYLPENTANE	0.214	0.199	7.0	90	0.00
55	T	TRICHLOROETHENE	0.407	0.360	11.5	89	0.00
56	T	1,2-DICHLOROPROPANE	0.338	0.304	10.1	91	0.00
57	T	DIBROMOMETHANE	0.405	0.325	19.8	87	0.00
58	T	ETHYL ACRYLATE	0.562	0.570	-1.4	94	0.00
59	T	BROMODICHLOROMETHANE	0.637	0.587	7.8	94	0.00
60	T	2,2,4-TRIMETHYLPENTANE	1.475	1.340	9.2	93	0.00
61	T	1,4-DIOXANE	0.246	0.193	21.5	92	0.00
62	T	HEPTANE	0.442	0.449	-1.6	99	0.00
63	T	METHYL METHACRYLATE	0.322	0.310	3.7	90	0.00
64	T	METHYL ISOBUTYL KETONE	0.250	0.258	-3.2	96	0.00
65	T	CIS-1,3-DICHLOROPROPENE	0.468	0.453	3.2	92	0.00
66	T	TOLUENE	1.133	1.028	9.3	91	0.00
67	T	1,3-DICHLOROPROPANE	0.524	0.492	6.1	93	0.00
68	T	TRANS-1,3-DICHLOROPROPENE	0.380	0.375	1.3	94	0.00
69	T	1,1,2-TRICHLOROETHANE	0.326	0.297	8.9	92	0.00
70	T	2-HEXANONE	0.320	0.330	-3.1	102	0.00
71	T	ETHYL METHACRYLATE	0.468	0.482	-3.0	90	0.00
72	T	TETRACHLOROETHENE	0.420	0.375	10.7	89	0.00
73	T	DIBROMOCHLOROMETHANE	0.642	0.583	9.2	91	0.00
74	T	1,2-DIBROMOETHANE	0.555	0.513	7.6	92	0.00
75	T	OCTANE	0.571	0.613	-7.4	101	0.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	102	0.00
77	T	1,1,1,2-TETRACHLOROETHANE	0.501	0.457	8.8	92	0.00
78	T	CHLOROBENZENE	0.997	0.884	11.3	91	0.00
79	t	ETHYLBENZENE	1.533	1.469	4.2	93	0.00
80	t	M,P-XYLENE	1.148	1.107	3.6	93	0.00
81	t	O-XYLENE	1.152	1.121	2.7	94	0.00
82	T	STYRENE	0.863	0.879	-1.9	94	0.00
83	T	NONANE	0.673	0.704	-4.6	106	0.00
84	T	BROMOFORM	0.680	0.624	8.2	92	0.00
85	T	1,1,2,2-TETRACHLOROETHANE	0.845	0.831	1.7	100	0.00
86	T	1,2,3-TRICHLOROPROPANE	0.620	0.606	2.3	98	0.00
87	S	4-BROMOFLUOROBENZENE	0.668	0.687	-2.8	104	0.00
88	T	ISOPROPYLBENZENE	0.444	0.424	4.5	93	0.00
89	T	BROMOBENZENE	0.780	0.748	4.1	97	0.00
90	T	2-CHLOROTOLUENE	0.370	0.367	0.8	94	0.00
91	T	N-PROPYLBENZENE	0.419	0.431	-2.9	94	0.00
92	T	4-ETHYLTOLUENE	1.494	1.564	-4.7	97	0.00
93	T	1,3,5-TRIMETHYLBENZENE	1.232	1.271	-3.2	98	0.00
94	T	ALPHA-METHYLSTYRENE	0.622	0.659	-5.9	98	0.00
95	T	TERT-BUTYLBENZENE	0.315	0.307	2.5	95	0.00
96	T	1,2,4-TRIMETHYLBENZENE	1.204	1.269	-5.4	100	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2558-CC2529
Lab FileID: 2W57473.D

97	T	BENZYL CHLORIDE	0.649	0.677	-4.3	99	0.00
98	T	M-DICHLOROBENZENE	0.828	0.807	2.5	97	0.00
99	T	P-DICHLOROBENZENE	0.805	0.798	0.9	97	0.00
100	T	O-DICHLOROBENZENE	0.761	0.757	0.5	101	0.00
101	T	SEC-BUTYLBENZENE	0.373	0.379	-1.6	98	0.00
102	T	1,2,3-TRIMETHYLBENZENE	1.161	1.245	-7.2	102	0.00
103	T	P-ISOPROPYLTOLUENE	0.392	0.404	-3.1	99	0.00
104	T	N-BUTYLBENZENE	0.338	0.365	-8.0	101	0.00
105	T	HEXACHLOROETHANE	0.479	0.485	-1.3	101	0.00
106	T	HEXACHLOROBUTADIENE	0.478	0.487	-1.9	114	0.00
107	T	1,2,4-TRICHLOROBENZENE	0.432	0.470	-8.8	117	0.00
108	T	NAPHTHALENE	0.942	1.045	-10.9	122	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2W2529.M Fri Jan 28 10:58:39 2022 GCMS2W

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2558-ECC2529
Lab FileID: 2W57498.D

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
Data File : 2w57498.D
Acq On : 29 Jan 2022 2:12 am
Operator : thomash
Sample : ecc2529-10
Misc : MS56243,V2w2558,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 31 14:53:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	93	0.00
2	T	FREON 115	0.000	0.000	0.0	0#	-1.89#
3	T	FREON 152A	0.917	0.714	22.1	71	0.00
4	T	CHLORODIFLUOROMETHANE	0.368	0.297	19.3	74	0.00
5	T	CHLOROTRIFLUOROETHENE	2.329	1.880	19.3	75	0.00
6	T	DICHLORODIFLUOROMETHANE	3.598	3.793	-5.4	97	0.00
7	T	PROPYLENE	1.022	0.817	20.1	75	0.00
8	T	1-CHLORO-1,1-DIFLUOROETHANE	2.380	2.101	11.7	83	0.00
9	T	FREON 114	3.884	3.453	11.1	82	0.00
10	T	CHLOROMETHANE	0.346	0.351	-1.4	89	0.00
11	T	VINYL CHLORIDE	1.470	1.341	8.8	85	0.00
12	t	1,3-BUTADIENE	1.038	0.986	5.0	87	0.01
13	T	N-BUTANE	1.785	1.763	1.2	94	0.01
14	T	BROMOMETHANE	1.478	1.250	15.4	80	0.01
15	T	CHLOROETHANE	0.822	0.739	10.1	82	0.01
16	T	DICHLOROFLUOROMETHANE	3.134	2.749	12.3	81	0.02
17	T	ACETONITRILE	1.055	0.965	8.5	98	0.02
18	T	ACROLEIN	0.611	0.551	9.8	87	0.02
19	T	FREON 123	3.310	2.931	11.5	83	0.01
20	T	FREON 123A	1.871	1.577	15.7	78	0.01
21	T	TRICHLOROFLUOROMETHANE	3.138	2.748	12.4	83	0.01
22	T	ISOPROPYL ALCOHOL	1.869	1.889	-1.1	102	0.00
23	T	ACETONE	0.662	0.611	7.7	96	0.00
24	T	PENTANE	0.937	1.105	-17.9	111	0.00
25	T	IODOMETHANE	3.559	3.050	14.3	80	0.00
26	T	1,1-DICHLOROETHYLENE	1.302	1.219	6.4	87	0.01
27	T	CARBON DISULFIDE	3.304	3.332	-0.8	94	0.00
28	T	ETHANOL	0.532	0.485	8.8	96	0.02
29	T	BROMOETHENE	1.389	1.184	14.8	79	0.02
30	T	ACRYLONITRILE	0.784	0.784	0.0	102	0.01
31	T	METHYLENE CHLORIDE	1.394	1.145	17.9	90	0.01
32	T	3-CHLOROPROPENE	0.592	0.619	-4.6	92	0.00
33	T	FREON 113	2.223	1.915	13.9	79	0.00
34	T	TRANS-1,2-DICHLOROETHENE	1.578	1.257	20.3	74	0.00
35	T	TERTIARY BUTYL ALCOHOL	1.524	1.913	-25.5	113	0.00
36	t	METHYL TERTIARY BUTYL ETHER	3.098	3.089	0.3	91	0.00
37	T	TETRAHYDROFURAN	0.691	0.659	4.6	80	0.00
38	T	HEXANE	2.355	2.103	10.7	81	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2558-ECC2529
Lab FileID: 2W57498.D

39	T	VINYL ACETATE	0.398	0.314	21.1	72	0.00
40	T	1,1-DICHLOROETHANE	2.542	2.149	15.5	77	0.00
41	T	METHYL ETHYL KETONE	0.786	0.659	16.2	78	0.00
42	T	CIS-1,2-DICHLOROETHENE	1.673	1.381	17.5	76	0.00
43	T	DIISOPROPYL ETHER	0.639	0.614	3.9	81	0.00
44	T	ETHYL ACETATE	0.420	0.395	6.0	78	0.00
45	T	METHYL ACRYLATE	2.680	2.366	11.7	82	0.00
46	T	CHLOROFORM	3.026	2.581	14.7	79	0.00
47	T	2,4-DIMETHYLPENTANE	2.837	2.486	12.4	80	0.00
48	T	1,1,1-TRICHLOROETHANE	2.771	2.389	13.8	79	0.00
49	T	CARBON TETRACHLORIDE	2.943	2.481	15.7	78	0.00
50	T	1,2-DICHLOROETHANE	1.708	1.534	10.2	84	0.00
51	t	BENZENE	5.075	4.211	17.0	78	0.00
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	96	0.00
53	T	CYCLOHEXANE	0.421	0.344	18.3	78	0.00
54	T	2,3-DIMETHYLPENTANE	0.214	0.182	15.0	78	0.00
55	T	TRICHLOROETHENE	0.407	0.329	19.2	77	0.00
56	T	1,2-DICHLOROPROPANE	0.338	0.280	17.2	79	0.00
57	T	DIBROMOMETHANE	0.405	0.293	27.7	74	0.00
58	T	ETHYL ACRYLATE	0.562	0.515	8.4	81	0.00
59	T	BROMODICHLOROMETHANE	0.637	0.533	16.3	81	0.00
60	T	2,2,4-TRIMETHYLPENTANE	1.475	1.230	16.6	81	0.00
61	T	1,4-DIOXANE	0.246	0.176	28.5	80	0.00
62	T	HEPTANE	0.442	0.412	6.8	86	0.00
63	T	METHYL METHACRYLATE	0.322	0.285	11.5	78	0.00
64	T	METHYL ISOBUTYL KETONE	0.250	0.236	5.6	83	0.00
65	T	CIS-1,3-DICHLOROPROPENE	0.468	0.406	13.2	78	0.00
66	T	TOLUENE	1.133	0.936	17.4	78	0.00
67	T	1,3-DICHLOROPROPANE	0.524	0.447	14.7	80	0.00
68	T	TRANS-1,3-DICHLOROPROPENE	0.380	0.341	10.3	81	0.00
69	T	1,1,2-TRICHLOROETHANE	0.326	0.270	17.2	79	0.00
70	T	2-HEXANONE	0.320	0.296	7.5	87	0.00
71	T	ETHYL METHACRYLATE	0.468	0.436	6.8	77	0.00
72	T	TETRACHLOROETHENE	0.420	0.338	19.5	76	0.00
73	T	DIBROMOCHLOROMETHANE	0.642	0.527	17.9	78	0.00
74	T	1,2-DIBROMOETHANE	0.555	0.460	17.1	79	0.00
75	T	OCTANE	0.571	0.559	2.1	88	0.00
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.00
77	T	1,1,1,2-TETRACHLOROETHANE	0.501	0.407	18.8	78	0.00
78	T	CHLOROBENZENE	0.997	0.797	20.1	78	0.00
79	t	ETHYLBENZENE	1.533	1.331	13.2	81	0.00
80	t	M,P-XYLENE	1.148	1.004	12.5	81	0.00
81	t	O-XYLENE	1.152	1.015	11.9	81	0.00
82	T	STYRENE	0.863	0.793	8.1	81	0.00
83	T	NONANE	0.673	0.644	4.3	92	0.00
84	T	BROMOFORM	0.680	0.560	17.6	78	0.00
85	T	1,1,2,2-TETRACHLOROETHANE	0.845	0.755	10.7	86	0.00
86	T	1,2,3-TRICHLOROPROPANE	0.620	0.550	11.3	85	0.00
87	S	4-BROMOFLUOROBENZENE	0.668	0.678	-1.5	98	0.00
88	T	ISOPROPYLBENZENE	0.444	0.382	14.0	80	0.00
89	T	BROMOBENZENE	0.780	0.679	12.9	84	0.00
90	T	2-CHLOROTOLUENE	0.370	0.335	9.5	82	0.00
91	T	N-PROPYLBENZENE	0.419	0.393	6.2	82	0.00
92	T	4-ETHYLTOLUENE	1.494	1.416	5.2	83	0.00
93	T	1,3,5-TRIMETHYLBENZENE	1.232	1.148	6.8	84	0.00
94	T	ALPHA-METHYLSTYRENE	0.622	0.593	4.7	84	0.00
95	T	TERT-BUTYLBENZENE	0.315	0.277	12.1	81	0.00
96	T	1,2,4-TRIMETHYLBENZENE	1.204	1.153	4.2	86	0.00

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V2W2558-ECC2529
Lab FileID: 2W57498.D

97	T	BENZYL CHLORIDE	0.649	0.601	7.4	84	0.00
98	T	M-DICHLOROBENZENE	0.828	0.729	12.0	83	0.00
99	T	P-DICHLOROBENZENE	0.805	0.724	10.1	84	0.00
100	T	O-DICHLOROBENZENE	0.761	0.684	10.1	86	0.00
101	T	SEC-BUTYLBENZENE	0.373	0.346	7.2	85	0.00
102	T	1,2,3-TRIMETHYLBENZENE	1.161	1.125	3.1	88	0.00
103	T	P-ISOPROPYLTOLUENE	0.392	0.366	6.6	85	0.00
104	T	N-BUTYLBENZENE	0.338	0.333	1.5	88	0.00
105	T	HEXACHLOROETHANE	0.479	0.433	9.6	86	0.00
106	T	HEXACHLOROBUTADIENE	0.478	0.441	7.7	98	-0.01
107	T	1,2,4-TRICHLOROBENZENE	0.432	0.425	1.6	100	0.00
108	T	NAPHTHALENE	0.942	0.949	-0.7	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

M2W2529.M Mon Jan 31 15:15:12 2022 GCMS2W

Initial Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V5W1966-ICC1966
Lab FileID: 5W47597.D

Response Factor Report Air5w

Method : C:\msdchem\1\methods\m5w1966.M (RTE Integrator)
Title : TO-15 Full Scan Mode
Last Update : Thu Jan 27 08:25:36 2022
Response via : Initial Calibration

Calibration Files
0.04=5w47595.D 0.1 =5w47594.D 0.2 =5w47593.D 0.5 =5w47592.D
5 =5w47596.D 10 =5w47597.D 20 =5w47598.D 40 =5w47599.D
50 =5w47600.D =

Compound	0.04	0.1	0.2	0.5	5	10	20	40	50	Avg	%RSD
1) I Bromochloromethane	----------ISTD----------										
2) Freon 152A	0.581	0.542	0.462	0.506	0.634	0.466	0.364	0.391	0.465	0.490	17.63
3) Chlorodifluoromethane	0.149	0.228	0.187	0.202	0.260	0.205	0.182	0.199	0.230	0.205	15.66
4) Propene			0.492	0.522	0.639	0.445	0.335	0.384	0.489	0.472	20.86
5) Chlorotrifluoroethene	1.365	1.387	1.209	1.317	1.552	1.239	1.047	1.131	1.315	1.285	11.64
6) Dichlorodifluoromethane	3.242	2.937	2.582	2.758	3.245	2.581	2.172	2.297	2.616	2.714	13.81
7) 1-Chloro-1,1-difluoroethane	1.762	1.724	1.539	1.593	1.944	1.534	1.331	1.462	1.644	1.615	11.14
8) Chloromethane	0.967	0.814	0.638	0.698	0.871	0.601	0.463	0.520	0.633	0.690	24.00
9) Dichlorotetrafluoroethane	2.943	2.763	2.313	2.510	3.045	2.273	1.876	1.989	2.355	2.452	16.44
10) Vinyl Chloride	0.905	0.918	0.854	0.856	1.045	0.831	0.640	0.708	0.824	0.842	13.95
11) 1,3-Butadiene	0.621	0.585	0.557	0.537	0.660	0.542	0.429	0.461	0.479	0.541	13.95
12) n-Butane			0.106	0.108	0.120	0.158	0.113	0.088	0.102	0.123	0.115	17.94
13) Bromomethane	0.934	0.858	0.754	0.704	0.751	0.687	0.624	0.604	0.586	0.722	16.14
14) Chloroethane	0.410	0.482	0.467	0.464	0.496	0.477	0.438	0.422	0.411	0.452	7.15
15) Dichlorofluoromethane	2.757	2.464	2.346	2.243	2.497	2.312	2.070	2.026	1.921	2.293	11.45
16) Acetonitrile			0.766	0.701	0.773	0.667	0.605	0.552	0.525	0.656	15.06
17) Freon 123	2.845	2.596	2.530	2.442	2.569	2.407	2.113	1.843	1.658	2.334	16.51
18) Freon 123A	1.318	1.286	1.291	1.234	1.323	1.256	1.175	1.118	1.041	1.227	7.90
19) Bromoethene	1.141	1.044	1.033	1.029	1.123	1.096	1.020	1.017	0.985	1.054	5.04
20) Acrolein	0.379	0.415	0.398	0.391	0.448	0.415	0.375	0.366	0.339	0.392	8.15
21) Trichlorofluoromethane	3.037	2.725	2.724	2.627	2.821	2.676	2.465	2.383	2.243	2.633	9.10
22) Acetone			0.461	0.439	0.460	0.423	0.374	0.366	0.340	0.409	11.93
23) Pentane											

0.247 0.252 0.264 0.237 0.269 0.246 0.218 0.199 0.181 0.235 12.59

24) Iodomethane
3.291 3.134 3.159 3.043 3.203 3.104 2.883 2.770 2.615 3.022 7.32

25) Isopropyl Alcohol
0.316 0.289 0.315 0.284 0.253 0.243 0.230 0.276 12.45

26) 1,1-Dichloroethene
1.783 1.665 1.685 1.610 1.819 1.663 1.501 1.405 1.295 1.603 10.75

27) Freon 113
2.786 2.614 2.513 2.404 2.568 2.418 2.163 1.915 1.744 2.347 14.55

28) Methylene Chloride
1.394 1.155 1.054 0.991 0.900 0.871 0.823 1.027 19.28

29) Carbon Disulfide
3.690 3.398 3.284 3.230 3.551 3.368 3.071 2.921 2.744 3.251 9.21

30) Ethanol
0.362 0.356 0.376 0.349 0.311 0.304 0.284 0.335 10.34

31) Acrylonitrile
0.606 0.709 0.713 0.749 0.750 0.695 0.640 0.579 0.540 0.665 11.48

32) 3-Chloropropene
0.497 0.438 0.451 0.459 0.527 0.497 0.458 0.452 0.425 0.467 7.04

33) trans-1,2-Dichloroethene
1.710 1.617 1.578 1.534 1.729 1.585 1.442 1.381 1.312 1.543 9.19

34) tert-Butyl Alcohol
2.367 2.210 1.983 1.951 2.184 2.044 1.876 1.779 1.698 2.010 10.73

35) Methyl tert-Butyl Ether
3.238 3.641 3.155 2.856 3.071 2.883 2.619 2.430 2.250 2.905 14.82

36) Vinyl Acetate
2.592 2.352 2.330 2.167 2.410 2.260 2.151 2.039 1.880 2.242 9.42

37) 1,1-Dichloroethane
2.064 1.960 1.907 1.825 2.019 1.860 1.709 1.565 1.470 1.820 11.12

38) 2-Butanone
0.379 0.346 0.436 0.444 0.507 0.469 0.442 0.425 0.406 0.428 11.11

39) Hexane
0.748 0.896 0.891 0.840 0.939 0.858 0.766 0.688 0.625 0.806 13.07

40) cis-1,2-Dichloroethene
1.521 1.466 1.458 1.427 1.601 1.475 1.366 1.278 1.212 1.423 8.46

41) Di-isopropyl Ether
0.776 0.812 0.830 0.836 0.895 0.854 0.799 0.742 0.708 0.806 7.15

42) Ethyl Acetate
0.208 0.310 0.322 0.371 0.343 0.307 0.273 0.255 0.299 17.34

43) Methyl Acrylate
1.400 1.543 1.584 1.601 1.835 1.692 1.517 1.366 1.248 1.532 11.56

44) Chloroform
2.661 2.657 2.527 2.470 2.671 2.484 2.306 2.144 2.049 2.441 9.37

45) 2,4-Dimethylpentane
2.109 1.903 1.822 1.746 1.946 1.778 1.632 1.462 1.351 1.750 13.61

46) Tetrahydrofuran
0.379 0.494 0.457 0.493 0.536 0.488 0.442 0.392 0.360 0.449 13.45

47) 1,1,1-Trichloroethane
2.643 2.448 2.401 2.321 2.470 2.295 2.145 2.025 1.941 2.299 9.81

48) 1,2-Dichloroethane
1.445 1.351 1.340 1.338 1.467 1.360 1.237 1.193 1.159 1.321 7.99

49) Benzene
4.664 3.811 3.750 3.476 3.528 3.238 2.862 2.363 2.171 3.318 23.23

50) Carbon Tetrachloride
2.491 2.385 2.409 2.367 2.624 2.454 2.292 2.133 2.022 2.353 7.79

51) Cyclohexane
1.725 1.601 1.543 1.517 1.667 1.525 1.398 1.285 1.211 1.497 11.37

52) 2,3-Dimethylpentane
0.661 0.674 0.676 0.652 0.755 0.710 0.653 0.596 0.564 0.660 8.56

Initial Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V5W1966-ICC1966
Lab FileID: 5W47597.D

53) I 1,4-Difluorobenzene ----------ISTD----------
54) 2,2,4-Trimethylpentane
1.382 1.325 1.276 1.228 1.349 1.252 1.185 1.132 1.094 1.247 7.83
55) Heptane
0.238 0.255 0.258 0.259 0.281 0.267 0.244 0.217 0.207 0.247 9.58
56) Trichloroethene
0.300 0.269 0.279 0.259 0.280 0.269 0.254 0.252 0.248 0.268 6.24
57) 1,2-Dichloropropane
0.360 0.322 0.331 0.324 0.347 0.325 0.298 0.277 0.264 0.316 9.84
58) Dibromomethane
0.515 0.431 0.413 0.395 0.400 0.399 0.386 0.384 0.381 0.412 10.17
59) Ethyl Acrylate
0.503 0.515 0.554 0.637 0.602 0.556 0.520 0.494 0.548 9.16
60) Methyl Methacrylate
0.243 0.249 0.277 0.319 0.302 0.294 0.290 0.284 0.282 9.10
61) 1,4-Dioxane
0.213 0.238 0.242 0.250 0.206 0.202 0.194 0.195 0.194 0.215 10.45
62) Bromodichloromethane
0.711 0.664 0.646 0.644 0.708 0.678 0.648 0.642 0.640 0.665 4.24
63) cis-1,3-Dichloropropene
0.670 0.577 0.545 0.504 0.557 0.544 0.522 0.520 0.524 0.551 8.98
64) 4-Methyl-2-pentanone
0.147 0.206 0.231 0.250 0.263 0.256 0.241 0.234 0.230 0.229 15.26
65) trans-1,3-Dichloropropene
0.628 0.534 0.494 0.465 0.498 0.479 0.453 0.436 0.430 0.491 12.42
66) Toluene
1.176 1.078 1.058 1.041 1.093 1.047 1.006 0.981 0.967 1.050 6.03
67) 1,1,2-Trichloroethane
0.377 0.397 0.410 0.381 0.403 0.385 0.351 0.327 0.311 0.371 9.30
68) 1,3-Dichloropropane
0.517 0.507 0.473 0.483 0.516 0.490 0.468 0.467 0.470 0.488 4.22
69) 2-Hexanone
0.411 0.457 0.503 0.499 0.545 0.525 0.490 0.485 0.475 0.488 7.93
70) Ethyl Methacrylate
0.370 0.425 0.444 0.517 0.503 0.454 0.425 0.399 0.442 11.23
71) Dibromochloromethane
0.699 0.674 0.671 0.670 0.745 0.730 0.705 0.694 0.688 0.697 3.78
72) Tetrachloroethene
0.599 0.580 0.567 0.556 0.560 0.571 0.530 0.485 0.462 0.546 8.25
73) 1,2-Dibromoethane
0.621 0.608 0.612 0.586 0.624 0.610 0.587 0.579 0.578 0.601 3.01
74) Octane
0.566 0.551 0.622 0.576 0.530 0.498 0.478 0.546 8.95
75) 1,1,1,2-Tetrachloroethane
0.527 0.497 0.490 0.467 0.481 0.468 0.451 0.432 0.425 0.471 6.83

76) I Chlorobenzene-d5 ----------ISTD----------
77) Chlorobenzene
1.977 1.885 1.873 1.848 1.846 1.797 1.681 1.575 1.502 1.776 8.83
78) Ethylbenzene
3.089 2.951 2.948 2.868 2.888 2.843 2.564 2.394 2.302 2.761 9.89
79) m,p-Xylene
2.315 2.221 2.229 2.219 2.157 2.097 1.816 1.543 1.443 2.004 16.13
80) Styrene
1.295 1.311 1.419 1.530 1.634 1.667 1.512 1.401 1.338 1.456 9.40
81) Nonane
1.418 1.202 1.188 1.222 1.297 1.260 1.103 0.994 0.943 1.181 12.54
82) o-Xylene
2.213 2.154 2.260 2.220 2.200 2.199 2.000 1.890 1.833 2.108 7.50
83) Bromoform

```
           1.352 1.372 1.442 1.434 1.479 1.486 1.340 1.198 1.125   1.359    9.16
 84)  1,1,2,2-Tetrachloroethane
           1.878 1.785 1.782 1.767 1.704 1.698 1.509 1.378 1.305   1.645   12.13
 85)  1,2,3-Trichloropropane
           1.692 1.365 1.364 1.373 1.303 1.261 1.050 0.861 0.793   1.229   22.95
 86)  Isopropylbenzene
           3.135 2.983 3.079 3.164 3.081 3.045 2.695 2.511 2.335   2.892   10.44
 87)  Bromobenzene
           0.933 1.020 0.996 1.023 0.991 1.010 0.930 0.848 0.798   0.950    8.47
 88)  2-Chlorotoluene
           0.752 0.734 0.732 0.781 0.740 0.749 0.673 0.616 0.581   0.706    9.63
 89)  n-Propylbenzene
           0.625 0.660 0.695 0.774 0.782 0.798 0.723 0.651 0.614   0.703    9.99
 90)  4-Bromofluorobenzene
           1.133 1.162 1.205 1.227 1.245 1.313 1.317 1.342 1.427   1.263    7.44
 91)  4-Ethyltoluene
           2.503 2.360 2.452 2.767 2.798 2.863 2.580 2.359 2.243   2.547    8.63
 92)  1,3,5-Trimethylbenzene
           2.376 2.144 2.246 2.360 2.247 2.291 1.934 1.597 1.474   2.074   16.09
 93)  alpha-Methylstyrene
           0.868 0.930 0.882 0.999 1.102 1.207 1.101 1.045 0.996   1.014   11.00
 94)  tert-Butylbenzene
           0.547 0.496 0.508 0.513 0.467 0.490 0.430 0.396 0.367   0.468   12.62
 95)  1,2,4-Trimethylbenzene
           1.976 1.842 1.924 2.158 2.131 2.248 2.027 1.876 1.835   2.002    7.45
 96)  1,3-Dichlorobenzene
           1.180 1.124 1.215 1.347 1.363 1.489 1.377 1.237 1.231   1.285    9.01
 97)  1,2,3-trimethylbenzene
           1.906 1.825 1.910 2.097 1.941 2.109 1.892 1.605 1.579   1.874    9.88
 98)  Benzyl Chloride
           0.269 0.281 0.298 0.310 0.373 0.418 0.355 0.324 0.335   0.329   14.36
 99)  1,4-Dichlorobenzene
           1.312 1.044 1.097 1.275 1.293 1.443 1.320 1.081 1.065   1.214   11.84
100)  sec-Butylbenzene
           0.650 0.612 0.577 0.611 0.570 0.610 0.555 0.504 0.468   0.573   10.04
101)  p-Isopropyltoluene
           0.677 0.647 0.597 0.640 0.606 0.675 0.613 0.541 0.518   0.613    8.98
102)  1,2-Dichlorobenzene
           1.285 1.125 1.157 1.285 1.213 1.311 0.981 0.722 0.680   1.084   22.15
103)  n-Butylbenzene
           0.536 0.443 0.428 0.486 0.480 0.555 0.489 0.445 0.438   0.478    9.36
104)  Hexachloroethane
           0.977 0.907 0.945 0.940 0.831 0.803 0.609 0.466 0.442   0.769   27.28
105)  1,2,4-Trichlorobenzene
                 0.275 0.341 0.330 0.400 0.485 0.503 0.630 0.687   0.456   32.24
106)  Naphthalene
                 1.041 1.029 0.923 0.883 1.074 1.069 1.410 1.600   1.129   21.92
107)  Hexachlorobutadiene
           0.996 0.811 0.795 0.775 0.628 0.657 0.579 0.611 0.616   0.719   18.92

108) I   Bromochloromethane (A ----------------ISTD---------------------
109)  TVHC as equiv Pentane
                       0.993 0.914 1.084 1.014 0.914 0.863 0.805   0.941 E1   10.14
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          m5w1966.M         Thu Jan 27 08:43:26 2022
```

Initial Calibration Verification

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V5W1966-ICV1966
Lab FileID: 5W47603.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\5w47603.D Vial: 4
Acq On : 26 Jan 2022 11:30 pm Operator: danat
Sample : icv1966-10 Inst : Air5w
Misc : ms56359,v5w1966,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m5w1966.M (RTE Integrator)
Title : TO-15 Full Scan Mode
Last Update : Thu Jan 27 08:25:36 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Bromochloromethane	1.000	1.000	0.0	102	0.00	11.34
2	Freon 152A	0.490	0.602	-22.9	131	0.00	4.38
3	Chlorodifluoromethane	0.205	0.243	-18.5	121	0.00	4.45
4	Propene	0.472	0.606	-28.4	139	0.00	4.29
5	Chlorotrifluoroethene	1.285	1.490	-16.0	122	0.00	4.34
6	Dichlorodifluoromethane	2.714	3.111	-14.6	123	0.00	4.38
7	1-Chloro-1,1-difluoroetha	1.615	1.866	-15.5	124	0.00	4.79
8	Chloromethane	0.690	0.819	-18.7	139	0.00	4.78
9	Dichlorotetrafluoroethane	2.452	2.879	-17.4	129	0.00	4.69
10	Vinyl Chloride	0.842	0.989	-17.5	121	0.00	5.00
11	1,3-Butadiene	0.541	0.612	-13.1	115	0.00	5.05
12	n-Butane	0.115	0.145	-26.1	131	0.00	4.89
13	Bromomethane	0.722	0.701	2.9	104	0.00	5.71
14	Chloroethane	0.452	0.485	-7.3	104	0.00	6.01
15	Dichlorofluoromethane	2.293	2.300	-0.3	101	0.00	6.45
16	Acetonitrile	0.656	0.641	2.3	98	0.00	9.44
17	Freon 123	2.334	2.463	-5.5	104	0.00	7.55
18	Freon 123A	1.227	1.390	-13.3	113	0.00	7.43
19	Bromoethene	1.054	1.094	-3.8	102	0.00	6.27
20	Acrolein	0.392	0.389	0.8	96	0.00	8.06
21	Trichlorofluoromethane	2.633	2.725	-3.5	104	0.00	6.35
22	Acetone	0.409	0.419	-2.4	101	0.00	8.62
23	Pentane	0.235	0.253	-7.7	104	0.00	6.37
24	Iodomethane	3.022	3.068	-1.5	101	0.00	7.70
25	Isopropyl Alcohol	0.276	0.282	-2.2	101	0.00	8.44
26	1,1-Dichloroethene	1.603	1.679	-4.7	103	0.00	7.43
27	Freon 113	2.347	2.357	-0.4	99	0.00	7.55
28	Methylene Chloride	1.027	0.973	5.3	100	0.00	8.56
29	Carbon Disulfide	3.251	3.167	2.6	96	0.00	7.48
30	Ethanol	0.335	0.377	-12.5	110	0.00	7.33
31	Acrylonitrile	0.665	0.709	-6.6	104	0.00	10.04
32	3-Chloropropene	0.467	0.506	-8.4	104	0.00	8.37
33	trans-1,2-Dichloroethene	1.543	1.565	-1.4	100	0.00	8.91
34	tert-Butyl Alcohol	2.010	1.845	8.2	92	0.00	9.29
35	Methyl tert-Butyl Ether	2.905	2.876	1.0	102	0.00	9.14
36	Vinyl Acetate	2.242	2.232	0.4	101	0.00	10.48
37	1,1-Dichloroethane	1.820	1.942	-6.7	106	0.00	10.03
38	2-Butanone	0.428	0.476	-11.2	103	0.00	11.97
39	Hexane	0.806	0.880	-9.2	104	0.00	9.12
40	cis-1,2-Dichloroethene	1.423	1.483	-4.2	102	0.00	11.00
41	Di-isopropyl Ether	0.806	0.833	-3.3	99	0.00	9.87
42	Ethyl Acetate	0.299	0.343	-14.7	102	0.00	11.67

Initial Calibration Verification

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V5W1966-ICV1966
Lab FileID: 5W47603.D

43		Methyl Acrylate	1.532	1.663	-8.6	100	0.00	11.68
44		Chloroform	2.441	2.430	0.5	100	0.00	11.48
45		2,4-Dimethylpentane	1.750	1.844	-5.4	106	0.00	10.17
46		Tetrahydrofuran	0.449	0.485	-8.0	101	0.00	11.77
47		1,1,1-Trichloroethane	2.299	2.270	1.3	101	0.00	11.87
48		1,2-Dichloroethane	1.321	1.347	-2.0	101	0.00	12.82
49		Benzene	3.318	3.201	3.5	101	0.00	12.50
50		Carbon Tetrachloride	2.353	2.451	-4.2	102	0.00	11.78
51		Cyclohexane	1.497	1.554	-3.8	104	0.00	11.43
52		2,3-Dimethylpentane	0.660	0.721	-9.2	103	0.00	11.60
53	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00	13.54
54		2,2,4-Trimethylpentane	1.247	1.263	-1.3	104	0.00	12.32
55		Heptane	0.247	0.265	-7.3	102	0.00	12.50
56		Trichloroethene	0.268	0.262	2.2	101	0.00	13.53
57		1,2-Dichloropropane	0.316	0.319	-0.9	102	0.00	14.39
58		Dibromomethane	0.412	0.381	7.5	99	0.00	14.23
59		Ethyl Acrylate	0.548	0.583	-6.4	100	0.00	14.39
60		Methyl Methacrylate	0.282	0.297	-5.3	101	0.00	14.75
61		1,4-Dioxane	0.215	0.195	9.3	100	0.00	14.83
62		Bromodichloromethane	0.665	0.662	0.5	101	0.00	14.51
63		cis-1,3-Dichloropropene	0.551	0.560	-1.6	106	0.00	15.61
64		4-Methyl-2-pentanone	0.229	0.254	-10.9	102	0.00	16.67
65		trans-1,3-Dichloropropene	0.491	0.461	6.1	99	0.00	16.76
66		Toluene	1.050	1.055	-0.5	104	0.00	16.06
67		1,1,2-Trichloroethane	0.371	0.371	0.0	100	0.00	17.06
68		1,3-Dichloropropane	0.488	0.480	1.6	101	0.00	17.56
69		2-Hexanone	0.488	0.520	-6.6	102	0.00	18.21
70		Ethyl Methacrylate	0.442	0.488	-10.4	100	0.00	17.04
71		Dibromochloromethane	0.697	0.710	-1.9	100	0.00	17.41
72		Tetrachloroethene	0.546	0.561	-2.7	102	0.00	16.79
73		1,2-Dibromoethane	0.601	0.597	0.7	101	0.00	17.86
74		Octane	0.546	0.583	-6.8	105	0.00	15.76
75		1,1,1,2-Tetrachloroethane	0.471	0.459	2.5	101	0.00	18.95
76	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00	18.80
77		Chlorobenzene	1.776	1.771	0.3	103	0.00	18.84
78		Ethylbenzene	2.761	2.799	-1.4	103	0.00	18.88
79		m,p-Xylene	2.004	2.086	-4.1	104	0.00	19.14
80		Styrene	1.456	1.641	-12.7	103	0.00	19.94
81		Nonane	1.181	1.264	-7.0	105	0.00	18.74
82		o-Xylene	2.108	2.201	-4.4	105	0.00	19.86
83		Bromoform	1.359	1.435	-5.6	101	0.00	19.99
84		1,1,2,2-Tetrachloroethane	1.645	1.673	-1.7	103	0.00	21.05
85		1,2,3-Trichloropropane	1.229	1.220	0.7	101	0.00	21.25
86		Isopropylbenzene	2.892	2.975	-2.9	102	0.00	20.36
87		Bromobenzene	0.950	0.976	-2.7	101	0.00	20.95
88		2-Chlorotoluene	0.706	0.731	-3.5	102	0.00	21.21
89		n-Propylbenzene	0.703	0.793	-12.8	104	0.00	20.98
90	S	4-Bromofluorobenzene	1.263	1.289	-2.1	103	0.00	20.78
91		4-Ethyltoluene	2.547	2.889	-13.4	106	0.00	21.14
92		1,3,5-Trimethylbenzene	2.074	2.290	-10.4	105	0.00	21.25
93		alpha-Methylstyrene	1.014	1.167	-15.1	101	0.00	21.60
94		tert-Butylbenzene	0.468	0.484	-3.4	103	0.00	21.70
95		1,2,4-Trimethylbenzene	2.002	2.313	-15.5	108	0.00	21.79
96		1,3-Dichlorobenzene	1.285	1.493	-16.2	105	0.00	22.23
97		1,2,3-trimethylbenzene	1.874	2.166	-15.6	108	0.00	22.37
98		Benzyl Chloride	0.329	0.389	-18.2	97	0.00	22.63
99		1,4-Dichlorobenzene	1.214	1.439	-18.5	104	0.00	22.34
100		sec-Butylbenzene	0.573	0.624	-8.9	107	0.00	21.94

Initial Calibration Verification

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V5W1966-ICV1966
Lab FileID: 5W47603.D

101		p-Isopropyltoluene	0.613	0.674	-10.0	104	0.00	22.12
102		1,2-Dichlorobenzene	1.084	1.323	-22.0	106	0.00	22.87
103		n-Butylbenzene	0.478	0.593	-24.1	112	0.00	22.66
104		Hexachloroethane	0.769	0.787	-2.3	103	0.00	22.87
105		1,2,4-Trichlorobenzene	0.456	0.569	-24.8	123	0.00	24.67
106		Naphthalene	1.129	1.153	-2.1	112	0.00	25.09
107		Hexachlorobutadiene	0.719	0.817	-13.6	130	0.00	24.62
108	I	Bromochloromethane (A)	1.000	1.000	0.0	102	0.00	11.34
109		TVHC as equiv Pentane	9.410	10.330	-9.8	104	0.00	6.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w47597.D m5w1966.M Thu Jan 27 08:43:44 2022

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V5W1967-CC1966
Lab FileID: 5W47608.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\5w47608.D Vial: 2
Acq On : 27 Jan 2022 11:42 am Operator: thomash
Sample : cc1966-10 Inst : Air5w
Misc : ms56359,v5w1967,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m5w1966.M (RTE Integrator)
Title : TO-15 Full Scan Mode
Last Update : Thu Jan 27 08:25:36 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Bromochloromethane	1.000	1.000	0.0	99	0.00	11.34
2	Freon 152A	0.490	0.552	-12.7	117	0.00	4.38
3	Chlorodifluoromethane	0.205	0.235	-14.6	113	0.00	4.45
4	Propene	0.472	0.546	-15.7	121	0.00	4.29
5	Chlorotrifluoroethene	1.285	1.448	-12.7	115	0.00	4.34
6	Dichlorodifluoromethane	2.714	2.937	-8.2	112	0.00	4.38
7	1-Chloro-1,1-difluoroetha	1.615	1.752	-8.5	113	0.00	4.79
8	Chloromethane	0.690	0.736	-6.7	121	0.00	4.78
9	Dichlorotetrafluoroethane	2.452	2.712	-10.6	118	0.00	4.69
10	Vinyl Chloride	0.842	0.922	-9.5	109	0.00	5.00
11	1,3-Butadiene	0.541	0.569	-5.2	104	0.00	5.06
12	n-Butane	0.115	0.136	-18.3	119	0.00	4.89
13	Bromomethane	0.722	0.656	9.1	94	0.00	5.71
14	Chloroethane	0.452	0.467	-3.3	96	0.00	6.01
15	Dichlorofluoromethane	2.293	2.262	1.4	97	0.00	6.46
16	Acetonitrile	0.656	0.615	6.3	91	0.00	9.44
17	Freon 123	2.334	2.324	0.4	95	0.00	7.55
18	Freon 123A	1.227	1.240	-1.1	97	0.00	7.43
19	Bromoethene	1.054	1.076	-2.1	97	0.00	6.27
20	Acrolein	0.392	0.395	-0.8	94	0.00	8.06
21	Trichlorofluoromethane	2.633	2.615	0.7	96	0.00	6.35
22	Acetone	0.409	0.395	3.4	92	0.00	8.63
23	Pentane	0.235	0.237	-0.9	95	0.00	6.37
24	Iodomethane	3.022	3.063	-1.4	97	0.00	7.70
25	Isopropyl Alcohol	0.276	0.267	3.3	93	0.00	8.44
26	1,1-Dichloroethene	1.603	1.618	-0.9	96	0.00	7.43
27	Freon 113	2.347	2.346	0.0	96	0.00	7.54
28	Methylene Chloride	1.027	0.966	5.9	96	0.00	8.56
29	Carbon Disulfide	3.251	3.275	-0.7	96	0.00	7.48
30	Ethanol	0.335	0.334	0.3	94	0.00	7.33
31	Acrylonitrile	0.665	0.651	2.1	92	0.00	10.04
32	3-Chloropropene	0.467	0.486	-4.1	97	0.00	8.37
33	trans-1,2-Dichloroethene	1.543	1.523	1.3	95	0.00	8.91
34	tert-Butyl Alcohol	2.010	1.934	3.8	93	0.00	9.29
35	Methyl tert-Butyl Ether	2.905	2.734	5.9	94	0.00	9.14
36	Vinyl Acetate	2.242	2.132	4.9	93	0.00	10.48
37	1,1-Dichloroethane	1.820	1.760	3.3	93	0.00	10.03
38	2-Butanone	0.428	0.452	-5.6	95	0.00	11.97
39	Hexane	0.806	0.809	-0.4	93	0.00	9.12
40	cis-1,2-Dichloroethene	1.423	1.404	1.3	94	0.00	11.00
41	Di-isopropyl Ether	0.806	0.823	-2.1	95	0.00	9.87
42	Ethyl Acetate	0.299	0.321	-7.4	92	0.00	11.67

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V5W1967-CC1966
Lab FileID: 5W47608.D

43		Methyl Acrylate	1.532	1.595	-4.1	93	0.00	11.68
44		Chloroform	2.441	2.372	2.8	94	0.00	11.48
45		2,4-Dimethylpentane	1.750	1.652	5.6	92	0.00	10.18
46		Tetrahydrofuran	0.449	0.478	-6.5	97	0.00	11.77
47		1,1,1-Trichloroethane	2.299	2.210	3.9	95	0.00	11.87
48		1,2-Dichloroethane	1.321	1.281	3.0	93	0.00	12.82
49		Benzene	3.318	3.066	7.6	93	0.00	12.50
50		Carbon Tetrachloride	2.353	2.409	-2.4	97	0.00	11.78
51		Cyclohexane	1.497	1.438	3.9	93	0.00	11.43
52		2,3-Dimethylpentane	0.660	0.674	-2.1	94	0.00	11.60
53	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00	13.54
54		2,2,4-Trimethylpentane	1.247	1.200	3.8	93	0.00	12.32
55		Heptane	0.247	0.255	-3.2	93	0.00	12.50
56		Trichloroethene	0.268	0.260	3.0	94	0.00	13.53
57		1,2-Dichloropropane	0.316	0.307	2.8	92	0.00	14.39
58		Dibromomethane	0.412	0.393	4.6	96	0.00	14.23
59		Ethyl Acrylate	0.548	0.570	-4.0	92	0.00	14.39
60		Methyl Methacrylate	0.282	0.296	-5.0	95	0.00	14.76
61		1,4-Dioxane	0.215	0.196	8.8	95	0.00	14.83
62		Bromodichloromethane	0.665	0.657	1.2	94	0.00	14.51
63		cis-1,3-Dichloropropene	0.551	0.523	5.1	94	0.00	15.61
64		4-Methyl-2-pentanone	0.229	0.240	-4.8	91	0.00	16.67
65		trans-1,3-Dichloropropene	0.491	0.462	5.9	94	0.00	16.76
66		Toluene	1.050	1.027	2.2	96	0.00	16.06
67		1,1,2-Trichloroethane	0.371	0.374	-0.8	95	0.00	17.06
68		1,3-Dichloropropane	0.488	0.475	2.7	94	0.00	17.56
69		2-Hexanone	0.488	0.484	0.8	90	0.00	18.21
70		Ethyl Methacrylate	0.442	0.483	-9.3	93	0.00	17.04
71		Dibromochloromethane	0.697	0.714	-2.4	95	0.00	17.41
72		Tetrachloroethene	0.546	0.566	-3.7	97	0.00	16.79
73		1,2-Dibromoethane	0.601	0.597	0.7	95	0.00	17.85
74		Octane	0.546	0.551	-0.9	93	0.00	15.77
75		1,1,1,2-Tetrachloroethane	0.471	0.457	3.0	95	0.00	18.95
76	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00	18.80
77		Chlorobenzene	1.776	1.773	0.2	96	0.00	18.84
78		Ethylbenzene	2.761	2.759	0.1	95	0.00	18.89
79		m,p-Xylene	2.004	2.019	-0.7	94	0.00	19.14
80		Styrene	1.456	1.621	-11.3	95	0.00	19.94
81		Nonane	1.181	1.188	-0.6	92	0.00	18.74
82		o-Xylene	2.108	2.146	-1.8	95	0.00	19.86
83		Bromoform	1.359	1.459	-7.4	96	0.00	19.99
84		1,1,2,2-Tetrachloroethane	1.645	1.642	0.2	94	0.00	21.05
85		1,2,3-Trichloropropane	1.229	1.209	1.6	93	0.00	21.25
86		Isopropylbenzene	2.892	2.956	-2.2	95	0.00	20.36
87		Bromobenzene	0.950	1.004	-5.7	97	0.00	20.95
88		2-Chlorotoluene	0.706	0.731	-3.5	95	0.00	21.21
89		n-Propylbenzene	0.703	0.777	-10.5	95	0.00	20.98
90	S	4-Bromofluorobenzene	1.263	1.313	-4.0	97	0.00	20.78
91		4-Ethyltoluene	2.547	2.762	-8.4	94	0.00	21.14
92		1,3,5-Trimethylbenzene	2.074	2.210	-6.6	94	0.00	21.25
93		alpha-Methylstyrene	1.014	1.174	-15.8	95	0.00	21.60
94		tert-Butylbenzene	0.468	0.484	-3.4	96	0.00	21.70
95		1,2,4-Trimethylbenzene	2.002	2.198	-9.8	95	0.00	21.79
96		1,3-Dichlorobenzene	1.285	1.479	-15.1	97	0.00	22.23
97		1,2,3-trimethylbenzene	1.874	2.072	-10.6	96	0.00	22.37
98		Benzyl Chloride	0.329	0.411	-24.9	96	0.00	22.63
99		1,4-Dichlorobenzene	1.214	1.432	-18.0	97	0.00	22.34
100		sec-Butylbenzene	0.573	0.602	-5.1	96	0.00	21.94

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V5W1967-CC1966
Lab FileID: 5W47608.D

101		p-Isopropyltoluene	0.613	0.661	-7.8	95	0.00	22.12
102		1,2-Dichlorobenzene	1.084	1.286	-18.6	95	0.00	22.87
103		n-Butylbenzene	0.478	0.552	-15.5	97	0.00	22.66
104		Hexachloroethane	0.769	0.780	-1.4	95	0.00	22.87
105		1,2,4-Trichlorobenzene	0.456	0.544	-19.3	109	0.00	24.67
106		Naphthalene	1.129	1.227	-8.7	111	0.00	25.09
107		Hexachlorobutadiene	0.719	0.741	-3.1	110	0.00	24.62
108	I	Bromochloromethane (A)	1.000	1.000	0.0	99	0.00	11.34
109		TVHC as equiv Pentane	9.410	9.743	-3.5	95	0.00	6.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w47597.D m5w1966.M Fri Jan 28 10:27:02 2022

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V5W1967-ECC1966
Lab FileID: 5W47627.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\5w47627.D Vial: 2
Acq On : 28 Jan 2022 4:56 am Operator: thomash
Sample : ecc1966-10 Inst : Air5w
Misc : ms56243,v5w1967,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m5w1966.M (RTE Integrator)
Title : TO-15 Full Scan Mode
Last Update : Thu Jan 27 08:25:36 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Bromochloromethane	1.000	1.000	0.0	101	0.00	11.34
2		Freon 152A	0.490	0.630	-28.6	137	0.00	4.38
3		Chlorodifluoromethane	0.205	0.257	-25.4	127	0.00	4.45
4		Propene	0.472	0.660	-39.8#	150#	0.00	4.29
5		Chlorotrifluoroethene	1.285	1.492	-16.1	122	0.00	4.34
6		Dichlorodifluoromethane	2.714	3.174	-16.9	124	0.00	4.38
7		1-Chloro-1,1-difluoroetha	1.615	1.943	-20.3	128	0.00	4.78
8		Chloromethane	0.690	0.881	-27.7	148#	0.00	4.78
9		Dichlorotetrafluoroethane	2.452	2.978	-21.5	132	-0.01	4.68
10		Vinyl Chloride	0.842	1.045	-24.1	127	0.00	5.00
11		1,3-Butadiene	0.541	0.672	-24.2	125	0.00	5.05
12		n-Butane	0.115	0.155	-34.8#	139	-0.01	4.89
13		Bromomethane	0.722	0.732	-1.4	108	0.00	5.71
14		Chloroethane	0.452	0.499	-10.4	106	-0.01	6.01
15		Dichlorofluoromethane	2.293	2.444	-6.6	107	0.00	6.45
16		Acetonitrile	0.656	0.750	-14.3	114	0.00	9.44
17		Freon 123	2.334	2.435	-4.3	102	0.00	7.55
18		Freon 123A	1.227	1.243	-1.3	100	0.00	7.42
19		Bromoethene	1.054	1.059	-0.5	98	0.00	6.26
20		Acrolein	0.392	0.435	-11.0	106	-0.01	8.05
21		Trichlorofluoromethane	2.633	2.702	-2.6	102	-0.01	6.34
22		Acetone	0.409	0.454	-11.0	109	0.00	8.62
23		Pentane	0.235	0.267	-13.6	109	-0.01	6.36
24		Iodomethane	3.022	2.955	2.2	96	-0.01	7.69
25		Isopropyl Alcohol	0.276	0.307	-11.2	110	0.00	8.44
26		1,1-Dichloroethene	1.603	1.793	-11.9	109	0.00	7.43
27		Freon 113	2.347	2.393	-2.0	100	0.00	7.54
28		Methylene Chloride	1.027	1.003	2.3	102	0.00	8.56
29		Carbon Disulfide	3.251	3.458	-6.4	104	-0.01	7.47
30		Ethanol	0.335	0.388	-15.8	112	0.00	7.32
31		Acrylonitrile	0.665	0.755	-13.5	110	0.00	10.04
32		3-Chloropropene	0.467	0.513	-9.9	104	0.00	8.37
33		trans-1,2-Dichloroethene	1.543	1.689	-9.5	108	0.00	8.91
34		tert-Butyl Alcohol	2.010	2.160	-7.5	107	0.00	9.29
35		Methyl tert-Butyl Ether	2.905	2.964	-2.0	104	0.00	9.14
36		Vinyl Acetate	2.242	2.527	-12.7	113	0.00	10.47
37		1,1-Dichloroethane	1.820	1.973	-8.4	107	0.00	10.03
38		2-Butanone	0.428	0.490	-14.5	106	0.00	11.96
39		Hexane	0.806	0.916	-13.6	108	0.00	9.11
40		cis-1,2-Dichloroethene	1.423	1.558	-9.5	107	0.00	11.00
41		Di-isopropyl Ether	0.806	0.858	-6.5	102	0.00	9.87
42		Ethyl Acetate	0.299	0.360	-20.4	106	0.00	11.67

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V5W1967-ECC1966
Lab FileID: 5W47627.D

43		Methyl Acrylate	1.532	1.797	-17.3	107	0.00	11.68
44		Chloroform	2.441	2.552	-4.5	104	0.00	11.48
45		2,4-Dimethylpentane	1.750	1.928	-10.2	110	0.00	10.17
46		Tetrahydrofuran	0.449	0.511	-13.8	106	0.00	11.77
47		1,1,1-Trichloroethane	2.299	2.326	-1.2	102	0.00	11.87
48		1,2-Dichloroethane	1.321	1.427	-8.0	106	0.00	12.82
49		Benzene	3.318	3.331	-0.4	104	0.00	12.50
50		Carbon Tetrachloride	2.353	2.469	-4.9	102	0.00	11.78
51		Cyclohexane	1.497	1.660	-10.9	110	0.00	11.43
52		2,3-Dimethylpentane	0.660	0.740	-12.1	105	0.00	11.60
53	I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00	13.54
54		2,2,4-Trimethylpentane	1.247	1.358	-8.9	111	0.00	12.32
55		Heptane	0.247	0.277	-12.1	106	0.00	12.49
56		Trichloroethene	0.268	0.266	0.7	101	0.00	13.53
57		1,2-Dichloropropane	0.316	0.339	-7.3	106	0.00	14.39
58		Dibromomethane	0.412	0.370	10.2	95	0.00	14.23
59		Ethyl Acrylate	0.548	0.633	-15.5	107	0.00	14.39
60		Methyl Methacrylate	0.282	0.316	-12.1	106	0.00	14.75
61		1,4-Dioxane	0.215	0.198	7.9	100	0.00	14.83
62		Bromodichloromethane	0.665	0.687	-3.3	103	0.00	14.51
63		cis-1,3-Dichloropropene	0.551	0.551	0.0	103	0.00	15.61
64		4-Methyl-2-pentanone	0.229	0.265	-15.7	106	0.00	16.67
65		trans-1,3-Dichloropropene	0.491	0.483	1.6	103	0.00	16.76
66		Toluene	1.050	1.056	-0.6	103	0.00	16.06
67		1,1,2-Trichloroethane	0.371	0.383	-3.2	101	0.00	17.06
68		1,3-Dichloropropane	0.488	0.498	-2.0	104	0.00	17.56
69		2-Hexanone	0.488	0.565	-15.8	110	0.00	18.20
70		Ethyl Methacrylate	0.442	0.515	-16.5	104	0.00	17.04
71		Dibromochloromethane	0.697	0.708	-1.6	99	0.00	17.41
72		Tetrachloroethene	0.546	0.542	0.7	97	0.00	16.79
73		1,2-Dibromoethane	0.601	0.594	1.2	99	0.00	17.85
74		Octane	0.546	0.637	-16.7	113	0.00	15.77
75		1,1,1,2-Tetrachloroethane	0.471	0.451	4.2	98	0.00	18.95
76	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00	18.80
77		Chlorobenzene	1.776	1.658	6.6	100	0.00	18.84
78		Ethylbenzene	2.761	2.672	3.2	102	0.00	18.88
79		m,p-Xylene	2.004	1.992	0.6	103	0.00	19.14
80		Styrene	1.456	1.523	-4.6	99	0.00	19.94
81		Nonane	1.181	1.306	-10.6	112	0.00	18.74
82		o-Xylene	2.108	2.053	2.6	101	0.00	19.86
83		Bromoform	1.359	1.311	3.5	95	0.00	19.99
84		1,1,2,2-Tetrachloroethane	1.645	1.587	3.5	101	0.00	21.05
85		1,2,3-Trichloropropane	1.229	1.191	3.1	102	0.00	21.25
86		Isopropylbenzene	2.892	2.826	2.3	100	0.00	20.36
87		Bromobenzene	0.950	0.889	6.4	95	0.00	20.95
88		2-Chlorotoluene	0.706	0.672	4.8	97	0.00	21.21
89		n-Propylbenzene	0.703	0.724	-3.0	98	0.00	20.98
90	S	4-Bromofluorobenzene	1.263	1.237	2.1	102	0.00	20.78
91		4-Ethyltoluene	2.547	2.629	-3.2	99	0.00	21.14
92		1,3,5-Trimethylbenzene	2.074	2.078	-0.2	98	0.00	21.25
93		alpha-Methylstyrene	1.014	1.071	-5.6	96	0.00	21.60
94		tert-Butylbenzene	0.468	0.439	6.2	97	0.00	21.70
95		1,2,4-Trimethylbenzene	2.002	2.049	-2.3	99	0.00	21.79
96		1,3-Dichlorobenzene	1.285	1.311	-2.0	95	0.00	22.23
97		1,2,3-trimethylbenzene	1.874	1.937	-3.4	99	0.00	22.37
98		Benzyl Chloride	0.329	0.367	-11.6	95	0.00	22.63
99		1,4-Dichlorobenzene	1.214	1.274	-4.9	96	0.00	22.34
100		sec-Butylbenzene	0.573	0.555	3.1	98	0.00	21.94

Continuing Calibration Summary

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V5W1967-ECC1966
Lab FileID: 5W47627.D

101		p-Isopropyltoluene	0.613	0.601	2.0	96	0.00	22.12
102		1,2-Dichlorobenzene	1.084	1.165	-7.5	96	0.00	22.87
103		n-Butylbenzene	0.478	0.503	-5.2	98	0.00	22.66
104		Hexachloroethane	0.769	0.678	11.8	91	0.00	22.87
105		1,2,4-Trichlorobenzene	0.456	0.426	6.6	95	0.00	24.67
106		Naphthalene	1.129	0.902	20.1	91	0.00	25.09
107		Hexachlorobutadiene	0.719	0.606	15.7	100	0.00	24.63
108	I	Bromochloromethane (A)	1.000	1.000	0.0	101	0.00	11.34
109		TVHC as equiv Pentane	9.410	10.683	-13.5	106	0.00	6.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w47597.D m5w1966.M Fri Jan 28 10:24:34 2022

Run Sequence Report

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V2W2529 **Method:** TO-15 **Instrument ID:** GCMS2W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2W2529-BFB	2W56779.D	12/20/21 11:24	n/a	BFB Tune
V2W2529-IC2529	2W56780.D	12/20/21 12:01	n/a	Initial cal 0.5
V2W2529-IC2529	2W56781.D	12/20/21 12:37	n/a	Initial cal 0.2
V2W2529-IC2529	2W56782.D	12/20/21 13:12	n/a	Initial cal 0.1
V2W2529-IC2529	2W56783.D	12/20/21 13:48	n/a	Initial cal 0.04
V2W2529-IC2529	2W56784.D	12/20/21 14:23	n/a	Initial cal 5
V2W2529-ICC2529	2W56785.D	12/20/21 14:59	n/a	Initial cal 10
V2W2529-IC2529	2W56786.D	12/20/21 15:36	n/a	Initial cal 20
V2W2529-IC2529	2W56787.D	12/20/21 16:18	n/a	Initial cal 40
V2W2529-IC2529	2W56788.D	12/20/21 17:01	n/a	Initial cal 50
V2W2529-ICV2529	2W56791.D	12/20/21 18:48	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V2W2532	**Method:** TO-15	**Instrument ID:** GCMS2W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2W2532-BFB	2W56842.D	12/22/21 06:54	n/a	BFB Tune
V2W2532-CC2529	2W56843.D	12/22/21 07:30	n/a	Continuing cal 10
V2W2532-BS	2W56844.D	12/22/21 08:12	n/a	Blank Spike
V2W2532-BSD	2W56845.D	12/22/21 08:47	n/a	Blank Spike Duplicate
V2W2532-MB	2W56847.D	12/22/21 10:13	n/a	Method Blank
V2W2532-SCC	2W56848.D	12/22/21 11:17	n/a	Summa Cleaning Certification
V2W2532-SCC	2W56849.D	12/22/21 11:59	n/a	Summa Cleaning Certification
ZZZZZZ	2W56850.D	12/22/21 13:52	n/a	(unrelated sample)
ZZZZZZ	2W56851.D	12/22/21 14:31	n/a	(unrelated sample)
ZZZZZZ	2W56852.D	12/22/21 15:02	n/a	(unrelated sample)
ZZZZZZ	2W56854.D	12/22/21 16:15	n/a	(unrelated sample)
JD36677-1	2W56855.D	12/22/21 16:51	n/a	(used for QC only; not part of job JD38291R)
JD36677-1DUP	2W56856.D	12/22/21 17:27	n/a	Duplicate
ZZZZZZ	2W56857.D	12/22/21 18:04	n/a	(unrelated sample)
ZZZZZZ	2W56858.D	12/22/21 18:39	n/a	(unrelated sample)
ZZZZZZ	2W56859.D	12/22/21 19:14	n/a	(unrelated sample)
ZZZZZZ	2W56860.D	12/22/21 19:51	n/a	(unrelated sample)
ZZZZZZ	2W56861.D	12/22/21 20:27	n/a	(unrelated sample)
ZZZZZZ	2W56862.D	12/22/21 21:03	n/a	(unrelated sample)
ZZZZZZ	2W56863.D	12/22/21 21:40	n/a	(unrelated sample)
ZZZZZZ	2W56864.D	12/22/21 22:22	n/a	(unrelated sample)
ZZZZZZ	2W56865.D	12/22/21 22:58	n/a	(unrelated sample)
ZZZZZZ	2W56866.D	12/22/21 23:34	n/a	(unrelated sample)
V2W2532-SCC	2W56867.D	12/23/21 00:16	n/a	Summa Cleaning Certification
V2W2532-SCC	2W56868.D	12/23/21 00:56	n/a	Summa Cleaning Certification

Run Sequence Report

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V2W2533 **Method:** TO-15 **Instrument ID:** GCMS2W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2W2533-BFB	2W56870.D	12/23/21 07:44	n/a	BFB Tune
V2W2533-CC2529	2W56871.D	12/23/21 08:19	n/a	Continuing cal 10
V2W2533-BS	2W56872.D	12/23/21 08:59	n/a	Blank Spike
V2W2533-BSD	2W56873.D	12/23/21 09:35	n/a	Blank Spike Duplicate
V2W2533-MB	2W56875.D	12/23/21 11:05	n/a	Method Blank
ZZZZZZ	2W56876.D	12/23/21 11:45	n/a	(unrelated sample)
ZZZZZZ	2W56877.D	12/23/21 12:21	n/a	(unrelated sample)
JD37175-1	2W56878.D	12/23/21 14:00	n/a	(used for QC only; not part of job JD38291R)
JD37175-1DUP	2W56879.D	12/23/21 14:15	n/a	Duplicate
ZZZZZZ	2W56880.D	12/23/21 14:51	n/a	(unrelated sample)
ZZZZZZ	2W56881.D	12/23/21 15:28	n/a	(unrelated sample)
ZZZZZZ	2W56882.D	12/23/21 16:04	n/a	(unrelated sample)
ZZZZZZ	2W56883.D	12/23/21 16:40	n/a	(unrelated sample)
ZZZZZZ	2W56884.D	12/23/21 17:22	n/a	(unrelated sample)
ZZZZZZ	2W56885.D	12/23/21 18:04	n/a	(unrelated sample)
ZZZZZZ	2W56886.D	12/23/21 18:54	n/a	(unrelated sample)
ZZZZZZ	2W56887.D	12/23/21 19:30	n/a	(unrelated sample)
ZZZZZZ	2W56888.D	12/23/21 20:07	n/a	(unrelated sample)
ZZZZZZ	2W56889.D	12/23/21 20:43	n/a	(unrelated sample)
ZZZZZZ	2W56890.D	12/23/21 21:20	n/a	(unrelated sample)
ZZZZZZ	2W56896.D	12/24/21 00:56	n/a	(unrelated sample)
ZZZZZZ	2W56898.D	12/24/21 02:14	n/a	(unrelated sample)
ZZZZZZ	2W56899.D	12/24/21 02:56	n/a	(unrelated sample)
ZZZZZZ	2W56900.D	12/24/21 03:31	n/a	(unrelated sample)
ZZZZZZ	2W56901.D	12/24/21 04:07	n/a	(unrelated sample)

Run Sequence Report

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V2W2534 **Method:** TO-15 **Instrument ID:** GCMS2W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2W2534-BFB	2W56902.D	12/27/21 07:21	n/a	BFB Tune
V2W2534-CC2529	2W56903.D	12/27/21 07:56	n/a	Continuing cal 10
V2W2534-BS	2W56904.D	12/27/21 09:06	n/a	Blank Spike
V2W2534-BSD	2W56905.D	12/27/21 09:42	n/a	Blank Spike Duplicate
V2W2534-MB	2W56907.D	12/27/21 11:06	n/a	Method Blank
V2W2534-SCC	2W56908.D	12/27/21 12:56	n/a	Summa Cleaning Certification
ZZZZZZ	2W56910.D	12/27/21 14:17	n/a	(unrelated sample)
ZZZZZZ	2W56911.D	12/27/21 15:03	n/a	(unrelated sample)
ZZZZZZ	2W56912.D	12/27/21 15:47	n/a	(unrelated sample)
ZZZZZZ	2W56913.D	12/27/21 16:30	n/a	(unrelated sample)
ZZZZZZ	2W56914.D	12/27/21 17:14	n/a	(unrelated sample)
ZZZZZZ	2W56915.D	12/27/21 17:58	n/a	(unrelated sample)
ZZZZZZ	2W56916.D	12/27/21 18:44	n/a	(unrelated sample)
JD36671-8	2W56917.D	12/27/21 19:28	n/a	(used for QC only; not part of job JD38291R)
JD36671-8DUP	2W56918.D	12/27/21 20:15	n/a	Duplicate
ZZZZZZ	2W56919.D	12/27/21 20:58	n/a	(unrelated sample)
ZZZZZZ	2W56920.D	12/27/21 21:41	n/a	(unrelated sample)
ZZZZZZ	2W56922.D	12/27/21 22:53	n/a	(unrelated sample)
ZZZZZZ	2W56924.D	12/28/21 00:04	n/a	(unrelated sample)
ZZZZZZ	2W56926.D	12/28/21 01:15	n/a	(unrelated sample)
ZZZZZZ	2W56927.D	12/28/21 01:51	n/a	(unrelated sample)
ZZZZZZ	2W56928.D	12/28/21 02:27	n/a	(unrelated sample)

Run Sequence Report

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V2W2535	**Method:** TO-15	**Instrument ID:** GCMS2W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2W2535-BFB	2W56929.D	12/28/21 07:11	n/a	BFB Tune
V2W2535-CC2529	2W56930.D	12/28/21 07:47	n/a	Continuing cal 10
V2W2535-BS	2W56931.D	12/28/21 08:28	n/a	Blank Spike
V2W2535-BSD	2W56932.D	12/28/21 09:04	n/a	Blank Spike Duplicate
V2W2535-MB	2W56934.D	12/28/21 10:27	n/a	Method Blank
ZZZZZZ	2W56936.D	12/28/21 12:08	n/a	(unrelated sample)
ZZZZZZ	2W56937.D	12/28/21 12:55	n/a	(unrelated sample)
JD36669-2	2W56938.D	12/28/21 13:40	n/a	(used for QC only; not part of job JD38291R)
JD36669-2DUP	2W56939.D	12/28/21 14:27	n/a	Duplicate
ZZZZZZ	2W56940.D	12/28/21 15:11	n/a	(unrelated sample)
ZZZZZZ	2W56941.D	12/28/21 15:54	n/a	(unrelated sample)
ZZZZZZ	2W56942.D	12/28/21 16:37	n/a	(unrelated sample)
ZZZZZZ	2W56943.D	12/28/21 17:13	n/a	(unrelated sample)
ZZZZZZ	2W56944.D	12/28/21 17:49	n/a	(unrelated sample)
ZZZZZZ	2W56945.D	12/28/21 18:26	n/a	(unrelated sample)
ZZZZZZ	2W56946.D	12/28/21 19:01	n/a	(unrelated sample)
ZZZZZZ	2W56947.D	12/28/21 19:38	n/a	(unrelated sample)
ZZZZZZ	2W56948.D	12/28/21 20:15	n/a	(unrelated sample)
ZZZZZZ	2W56949.D	12/28/21 20:50	n/a	(unrelated sample)
ZZZZZZ	2W56950.D	12/28/21 21:27	n/a	(unrelated sample)
V2W2535-SCC	2W56952.D	12/28/21 22:39	n/a	Summa Cleaning Certification
V2W2535-SCC	2W56953.D	12/28/21 23:15	n/a	Summa Cleaning Certification
V2W2535-SCC	2W56954.D	12/28/21 23:51	n/a	Summa Cleaning Certification
V2W2535-SCC	2W56955.D	12/29/21 00:33	n/a	Summa Cleaning Certification
ZZZZZZ	2W56956.D	12/29/21 01:07	n/a	(unrelated sample)
ZZZZZZ	2W56957.D	12/29/21 01:43	n/a	(unrelated sample)

Run Sequence Report

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V2W2536 **Method:** TO-15 **Instrument ID:** GCMS2W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2W2536-BFB	2W56958.D	12/29/21 07:02	n/a	BFB Tune
V2W2536-CC2529	2W56959.D	12/29/21 07:39	n/a	Continuing cal 10
V2W2536-BS	2W56960.D	12/29/21 08:25	n/a	Blank Spike
V2W2536-BSD	2W56961.D	12/29/21 09:01	n/a	Blank Spike Duplicate
V2W2536-MB	2W56963.D	12/29/21 10:25	n/a	Method Blank
V2W2536-SCC	2W56964.D	12/29/21 11:28	n/a	Summa Cleaning Certification
V2W2536-SCC	2W56965.D	12/29/21 12:09	n/a	Summa Cleaning Certification
ZZZZZZ	2W56966.D	12/29/21 13:59	n/a	(unrelated sample)
ZZZZZZ	2W56967.D	12/29/21 14:34	n/a	(unrelated sample)
ZZZZZZ	2W56968.D	12/29/21 15:09	n/a	(unrelated sample)
ZZZZZZ	2W56969.D	12/29/21 15:43	n/a	(unrelated sample)
ZZZZZZ	2W56970.D	12/29/21 16:18	n/a	(unrelated sample)
ZZZZZZ	2W56971.D	12/29/21 16:52	n/a	(unrelated sample)
ZZZZZZ	2W56972.D	12/29/21 17:28	n/a	(unrelated sample)
ZZZZZZ	2W56973.D	12/29/21 18:04	n/a	(unrelated sample)
ZZZZZZ	2W56974.D	12/29/21 18:40	n/a	(unrelated sample)
ZZZZZZ	2W56975.D	12/29/21 19:22	n/a	(unrelated sample)
ZZZZZZ	2W56976.D	12/29/21 20:04	n/a	(unrelated sample)
JD36855-2	2W56977.D	12/29/21 20:46	n/a	(used for QC only; not part of job JD38291R)
JD36855-2DUP	2W56978.D	12/29/21 21:30	n/a	Duplicate
ZZZZZZ	2W56979.D	12/29/21 22:14	n/a	(unrelated sample)
ZZZZZZ	2W56980.D	12/29/21 22:57	n/a	(unrelated sample)
ZZZZZZ	2W56981.D	12/29/21 23:44	n/a	(unrelated sample)
ZZZZZZ	2W56982.D	12/30/21 00:29	n/a	(unrelated sample)
ZZZZZZ	2W56983.D	12/30/21 01:13	n/a	(unrelated sample)
ZZZZZZ	2W56984.D	12/30/21 01:58	n/a	(unrelated sample)
ZZZZZZ	2W56985.D	12/30/21 02:44	n/a	(unrelated sample)
ZZZZZZ	2W56986.D	12/30/21 03:26	n/a	(unrelated sample)
ZZZZZZ	2W56987.D	12/30/21 04:00	n/a	(unrelated sample)
ZZZZZZ	2W56988.D	12/30/21 04:35	n/a	(unrelated sample)
ZZZZZZ	2W56989.D	12/30/21 05:11	n/a	(unrelated sample)

Run Sequence Report

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V2W2539	**Method:** TO-15	**Instrument ID:** GCMS2W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2W2539-BFB	2W57041.D	01/04/22 12:27	n/a	BFB Tune
V2W2539-CC2529	2W57042.D	01/04/22 13:03	n/a	Continuing cal 10
V2W2539-BS	2W57043.D	01/04/22 13:47	n/a	Blank Spike
V2W2539-BSD	2W57044.D	01/04/22 14:24	n/a	Blank Spike Duplicate
V2W2539-MB	2W57046.D	01/04/22 15:47	n/a	Method Blank
V2W2539-SCC	2W57047.D	01/04/22 16:28	n/a	Summa Cleaning Certification
ZZZZZZ	2W57048.D	01/04/22 17:05	n/a	(unrelated sample)
ZZZZZZ	2W57049.D	01/04/22 17:40	n/a	(unrelated sample)
ZZZZZZ	2W57050.D	01/04/22 18:15	n/a	(unrelated sample)
ZZZZZZ	2W57051.D	01/04/22 18:52	n/a	(unrelated sample)
ZZZZZZ	2W57054.D	01/04/22 20:40	n/a	(unrelated sample)
ZZZZZZ	2W57055.D	01/04/22 21:16	n/a	(unrelated sample)
ZZZZZZ	2W57056.D	01/04/22 21:52	n/a	(unrelated sample)
JD37430-7	2W57057.D	01/04/22 22:28	n/a	(used for QC only; not part of job JD38291R)
JD37430-7DUP	2W57058.D	01/04/22 23:05	n/a	Duplicate
ZZZZZZ	2W57059.D	01/04/22 23:42	n/a	(unrelated sample)
ZZZZZZ	2W57060.D	01/05/22 00:18	n/a	(unrelated sample)
ZZZZZZ	2W57061.D	01/05/22 00:54	n/a	(unrelated sample)
ZZZZZZ	2W57062.D	01/05/22 01:31	n/a	(unrelated sample)
ZZZZZZ	2W57063.D	01/05/22 02:08	n/a	(unrelated sample)
V2W2539-SCC	2W57064.D	01/05/22 02:49	n/a	Summa Cleaning Certification

Run Sequence Report

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V2W2558 **Method:** TO-15 **Instrument ID:** GCMS2W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2W2558-BFB	2W57472.D	01/28/22 07:47	n/a	BFB Tune
V2W2558-CC2529	2W57473.D	01/28/22 08:24	n/a	Continuing cal 10
V2W2558-BS	2W57474.D	01/28/22 09:43	n/a	Blank Spike
V2W2558-BSD	2W57475.D	01/28/22 10:20	n/a	Blank Spike Duplicate
V2W2558-MB	2W57477.D	01/28/22 11:41	n/a	Method Blank
ZZZZZZ	2W57478.D	01/28/22 12:46	n/a	(unrelated sample)
ZZZZZZ	2W57479.D	01/28/22 13:29	n/a	(unrelated sample)
ZZZZZZ	2W57480.D	01/28/22 14:12	n/a	(unrelated sample)
ZZZZZZ	2W57481.D	01/28/22 14:55	n/a	(unrelated sample)
ZZZZZZ	2W57482.D	01/28/22 15:37	n/a	(unrelated sample)
JD38683-5	2W57483.D	01/28/22 16:18	n/a	(used for QC only; not part of job JD38291R)
JD38683-5DUP	2W57484.D	01/28/22 17:00	n/a	Duplicate
ZZZZZZ	2W57485.D	01/28/22 17:42	n/a	(unrelated sample)
ZZZZZZ	2W57486.D	01/28/22 18:23	n/a	(unrelated sample)
ZZZZZZ	2W57487.D	01/28/22 19:05	n/a	(unrelated sample)
ZZZZZZ	2W57488.D	01/28/22 19:40	n/a	(unrelated sample)
ZZZZZZ	2W57489.D	01/28/22 20:17	n/a	(unrelated sample)
V2W2558-SCC	2W57490.D	01/28/22 20:57	n/a	Summa Cleaning Certification
V2W2558-SCC	2W57491.D	01/28/22 21:38	n/a	Summa Cleaning Certification
V2W2558-SCC	2W57492.D	01/28/22 22:19	n/a	Summa Cleaning Certification
ZZZZZZ	2W57493.D	01/28/22 23:00	n/a	(unrelated sample)
JD38291-4R	2W57493R.D	01/28/22 23:00	n/a	785-OA-1_011422
ZZZZZZ	2W57494.D	01/28/22 23:36	n/a	(unrelated sample)
JD38291-16R	2W57494R.D	01/28/22 23:36	n/a	776-VMP-3_011422
ZZZZZZ	2W57495.D	01/29/22 00:18	n/a	(unrelated sample)
JD38291-18R	2W57495R.D	01/29/22 00:18	n/a	774-OA-1_011422
ZZZZZZ	2W57496.D	01/29/22 00:54	n/a	(unrelated sample)
JD38291-19R	2W57496R.D	01/29/22 00:54	n/a	776-VMP-2_011422_A
V2W2558-SCC	2W57497.D	01/29/22 01:36	n/a	Summa Cleaning Certification
V2W2558-ECC2529	2W57498.D	01/29/22 02:12	n/a	Ending cal 10

Run Sequence Report

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V5W1966	**Method:** TO-15	**Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W1966-BFB	5W47591.D	01/26/22 13:33	n/a	BFB Tune
V5W1966-IC1966	5W47592.D	01/26/22 14:24	n/a	Initial cal 0.5
V5W1966-IC1966	5W47593.D	01/26/22 15:12	n/a	Initial cal 0.2
V5W1966-IC1966	5W47594.D	01/26/22 15:59	n/a	Initial cal 0.1
V5W1966-IC1966	5W47595.D	01/26/22 16:47	n/a	Initial cal 0.04
V5W1966-IC1966	5W47596.D	01/26/22 17:35	n/a	Initial cal 5
V5W1966-ICC1966	5W47597.D	01/26/22 18:24	n/a	Initial cal 10
V5W1966-IC1966	5W47598.D	01/26/22 19:14	n/a	Initial cal 20
V5W1966-IC1966	5W47599.D	01/26/22 20:07	n/a	Initial cal 40
V5W1966-IC1966	5W47600.D	01/26/22 21:03	n/a	Initial cal 50
V5W1966-ICV1966	5W47603.D	01/26/22 23:30	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JD38291R
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V5W1967 **Method:** TO-15 **Instrument ID:** GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W1967-BFB	5W47605.D	01/27/22 09:04	n/a	BFB Tune
V5W1967-CC1966	5W47608.D	01/27/22 11:42	n/a	Continuing cal 10
V5W1967-BS	5W47609.D	01/27/22 12:31	n/a	Blank Spike
V5W1967-BSD	5W47610.D	01/27/22 13:24	n/a	Blank Spike Duplicate
V5W1967-MB	5W47614.D	01/27/22 18:20	n/a	Method Blank
JD38291-2	5W47615.D	01/27/22 19:09	n/a	(used for QC only; not part of job JD38291R)
JD38291-2R	5W47615R.D	01/27/22 19:09	n/a	786-VMP-2_011422
JD38291-2DUP	5W47616.D	01/27/22 19:57	n/a	Duplicate
ZZZZZZ	5W47617.D	01/27/22 20:46	n/a	(unrelated sample)
JD38291-3R	5W47617R.D	01/27/22 20:46	n/a	786-VMP-3_011422
ZZZZZZ	5W47618.D	01/27/22 21:35	n/a	(unrelated sample)
JD38291-6R	5W47618R.D	01/27/22 21:35	n/a	785-VMP-2_011422
ZZZZZZ	5W47619.D	01/27/22 22:24	n/a	(unrelated sample)
JD38291-7R	5W47619R.D	01/27/22 22:24	n/a	785-VMP-4_011422
ZZZZZZ	5W47620.D	01/27/22 23:13	n/a	(unrelated sample)
JD38291-8R	5W47620R.D	01/27/22 23:13	n/a	785-VMP-5_011422
ZZZZZZ	5W47621.D	01/28/22 00:02	n/a	(unrelated sample)
JD38291-9R	5W47621R.D	01/28/22 00:02	n/a	785-VMP-2_011422-A
ZZZZZZ	5W47622.D	01/28/22 00:52	n/a	(unrelated sample)
JD38291-10R	5W47622R.D	01/28/22 00:52	n/a	774-VMP-1_011422
ZZZZZZ	5W47623.D	01/28/22 01:41	n/a	(unrelated sample)
JD38291-11R	5W47623R.D	01/28/22 01:41	n/a	774-VMP-2_011422
ZZZZZZ	5W47624.D	01/28/22 02:29	n/a	(unrelated sample)
JD38291-12R	5W47624R.D	01/28/22 02:29	n/a	774-VMP-3_011422
ZZZZZZ	5W47625.D	01/28/22 03:19	n/a	(unrelated sample)
JD38291-14R	5W47625R.D	01/28/22 03:19	n/a	776-VMP-1_011422
ZZZZZZ	5W47626.D	01/28/22 04:07	n/a	(unrelated sample)
JD38291-15R	5W47626R.D	01/28/22 04:07	n/a	776-VMP-2_011422
V5W1967-ECC1966	5W47627.D	01/28/22 04:56	n/a	Ending cal 10

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47615r.D
Acq On : 27 Jan 2022 7:09 pm
Operator : thomash
Sample : jd38291-2r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 28 10:43:40 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

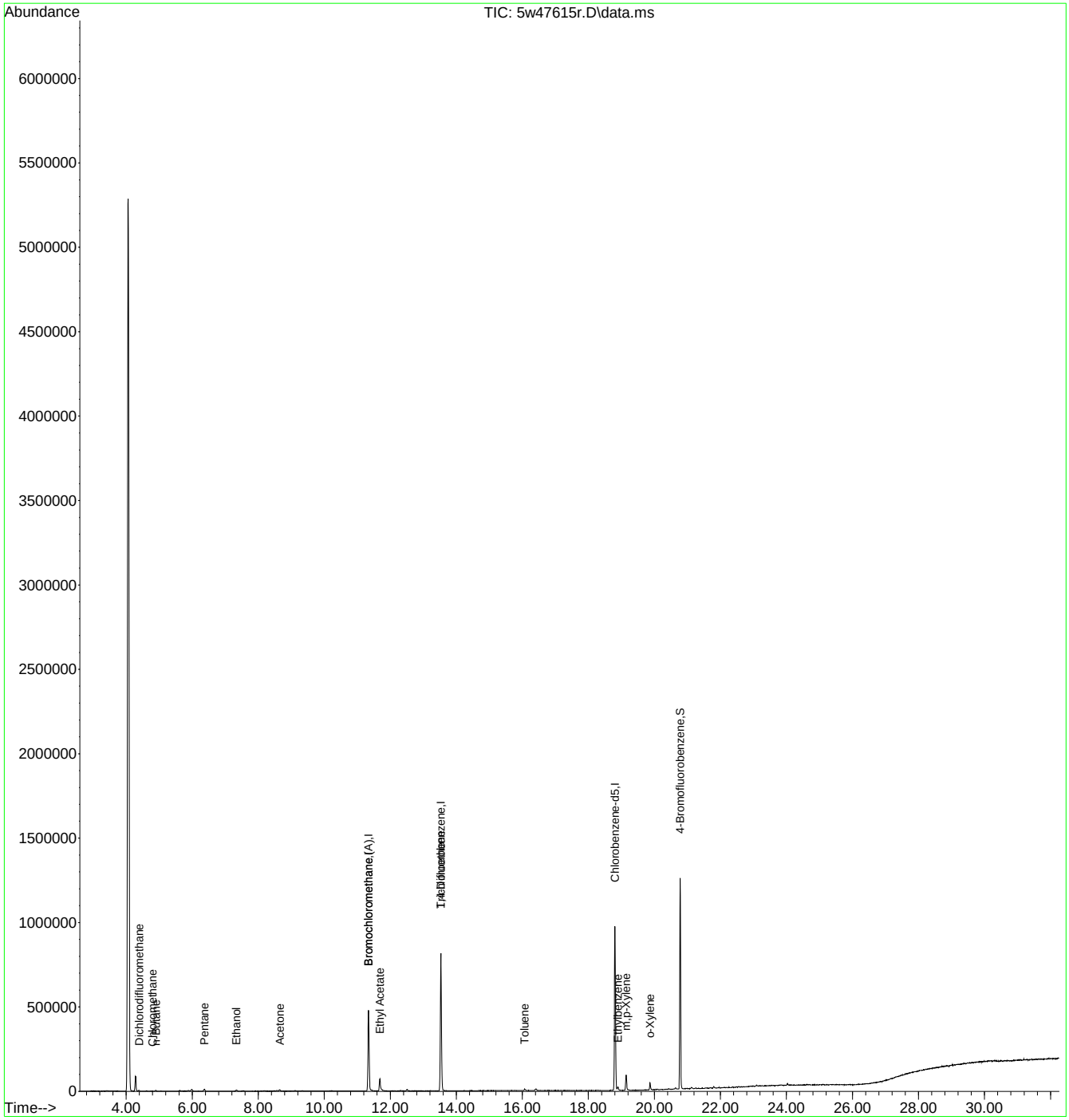
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	11.341	130	227707	10.00 ppb(v	# 0.00
53) 1,4-Difluorobenzene	13.531	114	891821	10.00 ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	406084	10.00 ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	227707	10.00 ppb(v	# 0.00
System Monitoring Compounds					
90) 4-Bromofluorobenzene	20.781	95	486951	9.49 ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 94.90%		
Target Compounds					Qvalue
6) Dichlorodifluoromethane	4.391	85	6737	0.11 ppb(v	96
8) Chloromethane	4.795	50	1502	0.10 ppb(v	87
12) n-Butane	4.899	58	569	0.22 ppb(v#	62
22) Acetone	8.649	58	4074	0.44 ppb(v	89
23) Pentane	6.368	57	1468	0.27 ppb(v	90
30) Ethanol	7.340	45	10699	1.40 ppb(v	96
42) Ethyl Acetate	11.684	61	18856	2.77 ppb(v	99
56) Trichloroethene	13.531	97	2387	0.10 ppb(v#	1
66) Toluene	16.070	91	11622	0.12 ppb(v	97
78) Ethylbenzene	18.890	91	22225	0.20 ppb(v	96
79) m,p-Xylene	19.141	91	73330	0.90 ppb(v	97
82) o-Xylene	19.869	91	31666	0.37 ppb(v	97

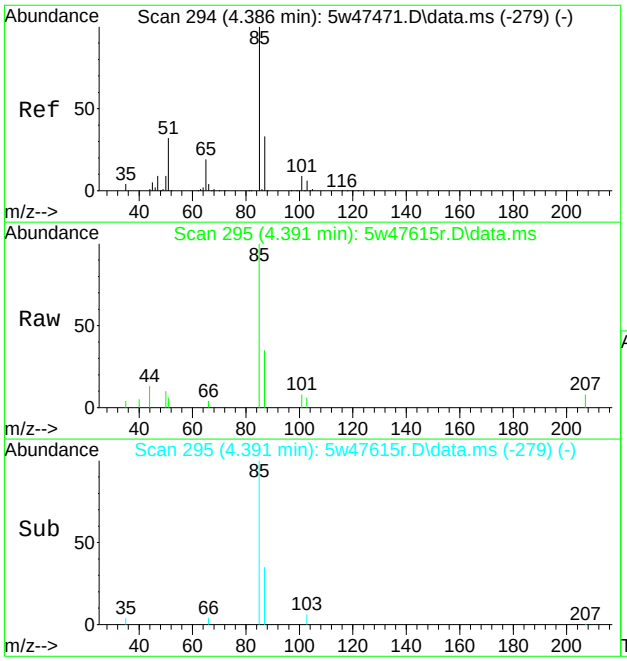
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47615r.D
Acq On : 27 Jan 2022 7:09 pm
Operator : thomash
Sample : jd38291-2r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 28 10:43:40 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

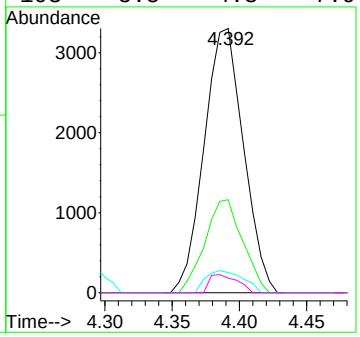


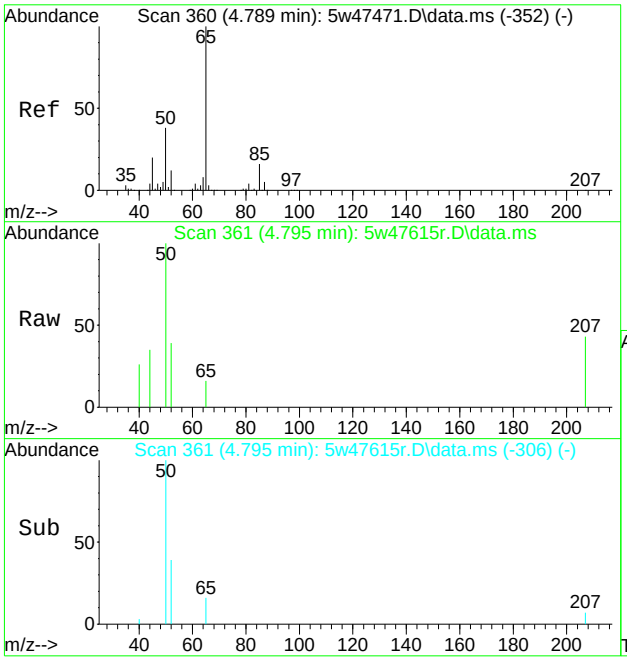


#6
Dichlorodifluoromethane
Concen: 0.11 ppb(v)
RT: 4.391 min Scan# 295
Delta R.T. 0.006 min
Lab File: 5w47615r.D
Acq: 27 Jan 2022 7:09 pm

Tgt Ion: 85 Resp: 6737

Ion	Ratio	Lower	Upper
85	100		
87	35.2	23.0	42.8
101	7.7	6.5	12.1
103	5.5	4.3	7.9

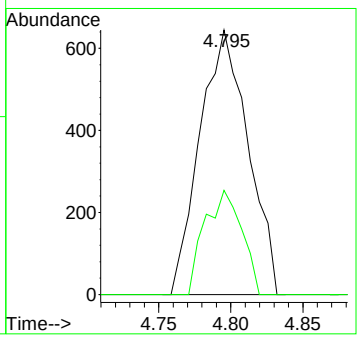


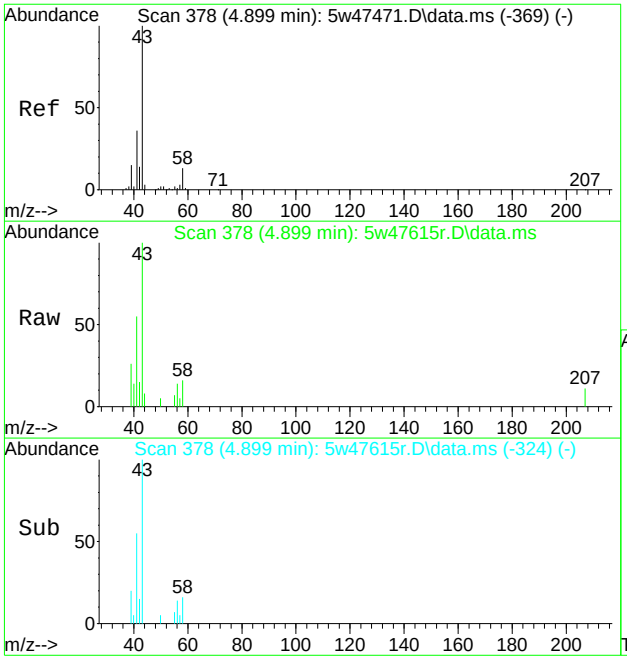


#8
Chloromethane
Concen: 0.10 ppb(v)
RT: 4.795 min Scan# 361
Delta R.T. 0.006 min
Lab File: 5w47615r.D
Acq: 27 Jan 2022 7:09 pm

Tgt Ion: 50 Resp: 1502

Ion	Ratio	Lower	Upper
50	100		
52	39.4	22.4	41.6

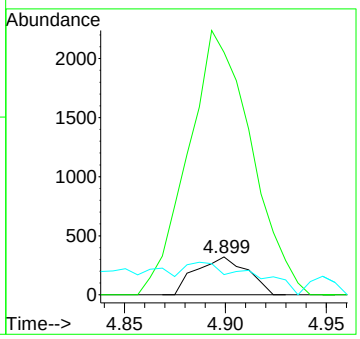


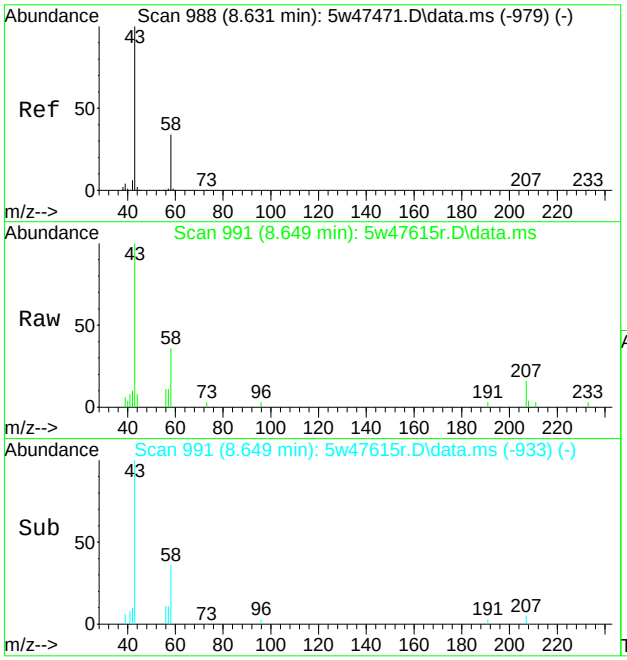


#12
n-Butane
Concen: 0.22 ppb(v)
RT: 4.899 min Scan# 378
Delta R.T. -0.000 min
Lab File: 5w47615r.D
Acq: 27 Jan 2022 7:09 pm

Tgt Ion: 58 Resp: 569

Ion	Ratio	Lower	Upper
58	100		
43	639.3	547.0	1015.8
44	53.6	18.8	35.0#

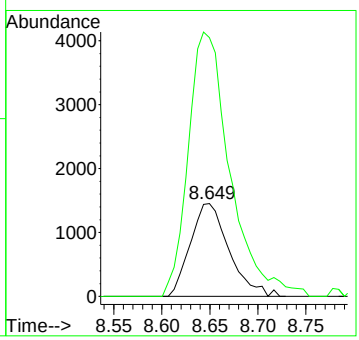


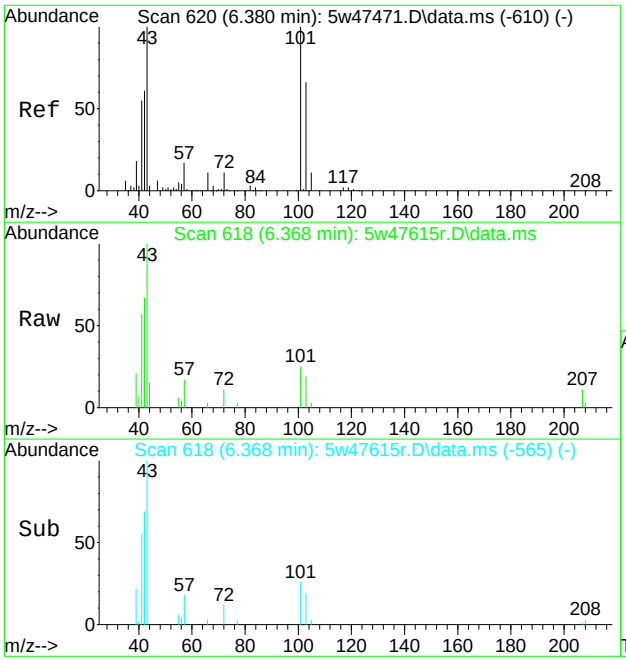


#22
Acetone
Concen: 0.44 ppb(v)
RT: 8.649 min Scan# 991
Delta R.T. 0.024 min
Lab File: 5w47615r.D
Acq: 27 Jan 2022 7:09 pm

Tgt Ion: 58 Resp: 4074

Ion	Ratio	Lower	Upper
58	100		
43	278.4	210.1	390.1

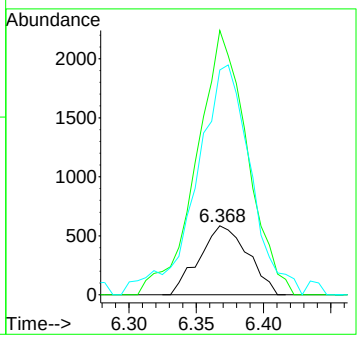


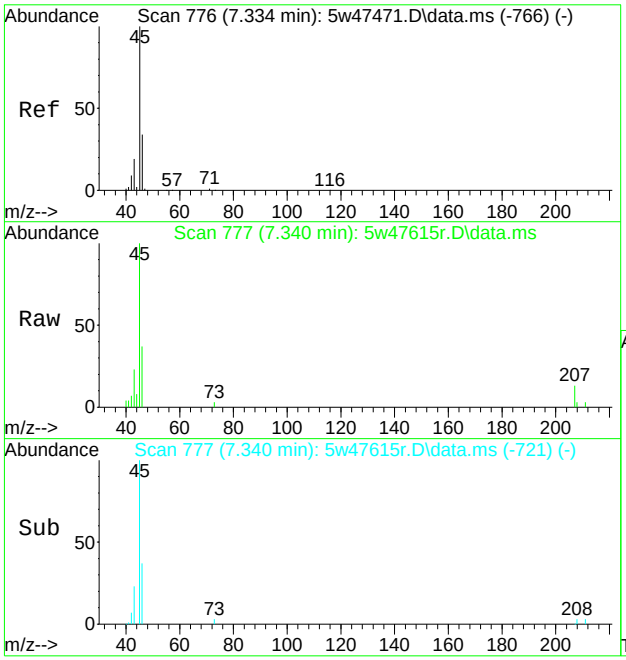


#23
Pentane
Concen: 0.27 ppb(v)
RT: 6.368 min Scan# 618
Delta R.T. -0.006 min
Lab File: 5w47615r.D
Acq: 27 Jan 2022 7:09 pm

Tgt Ion: 57 Resp: 1468

Ion	Ratio	Lower	Upper
57	100		
42	383.7	245.1	455.1
41	326.4	221.8	412.0

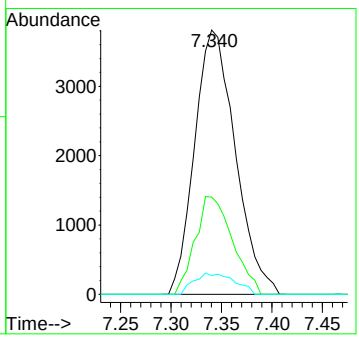


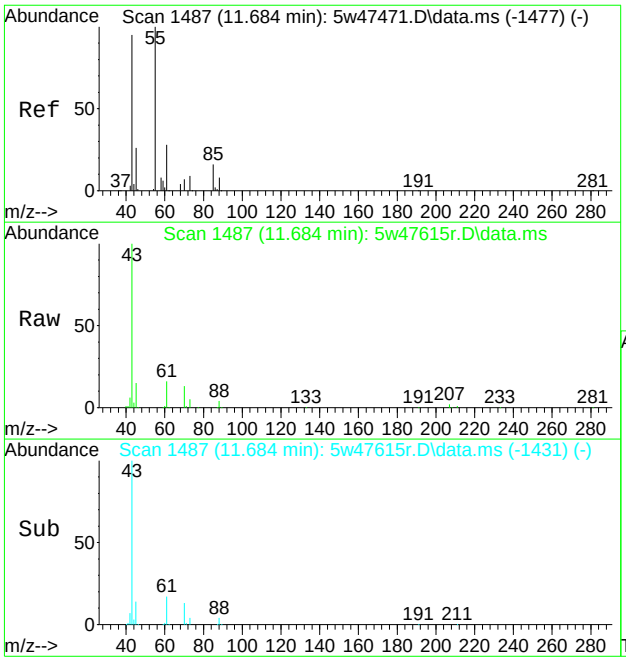


#30
Ethanol
Concen: 1.40 ppb(v)
RT: 7.340 min Scan# 777
Delta R.T. 0.012 min
Lab File: 5w47615r.D
Acq: 27 Jan 2022 7:09 pm

Tgt Ion: 45 Resp: 10699

Ion	Ratio	Lower	Upper
45	100		
46	36.8	23.9	44.5
42	7.2	6.1	11.3

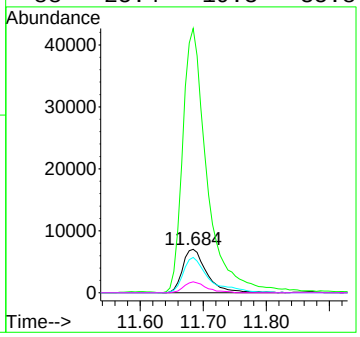


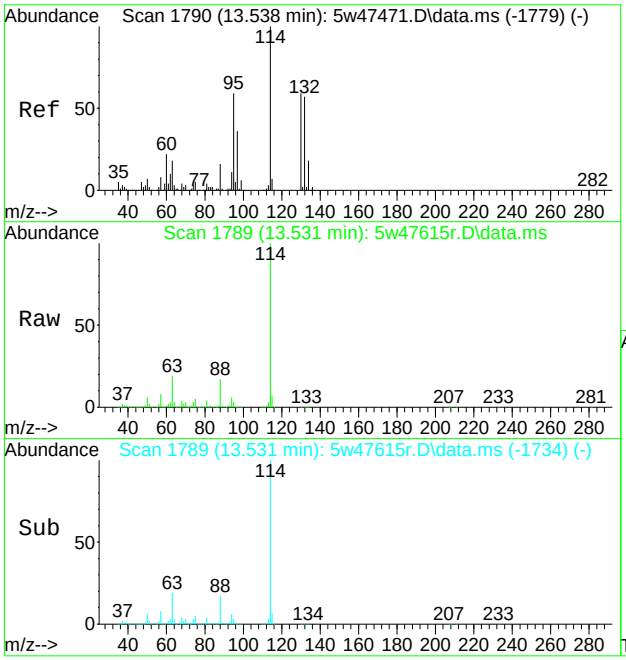


#42
Ethyl Acetate
Concen: 2.77 ppb(v)
RT: 11.684 min Scan# 1487
Delta R.T. 0.012 min
Lab File: 5w47615r.D
Acq: 27 Jan 2022 7:09 pm

Tgt Ion: 61 Resp: 18856

Ion	Ratio	Lower	Upper
61	100		
43	606.4	421.6	783.0
70	81.4	57.0	105.8
88	25.4	19.3	35.8

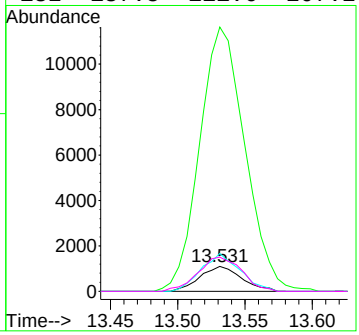


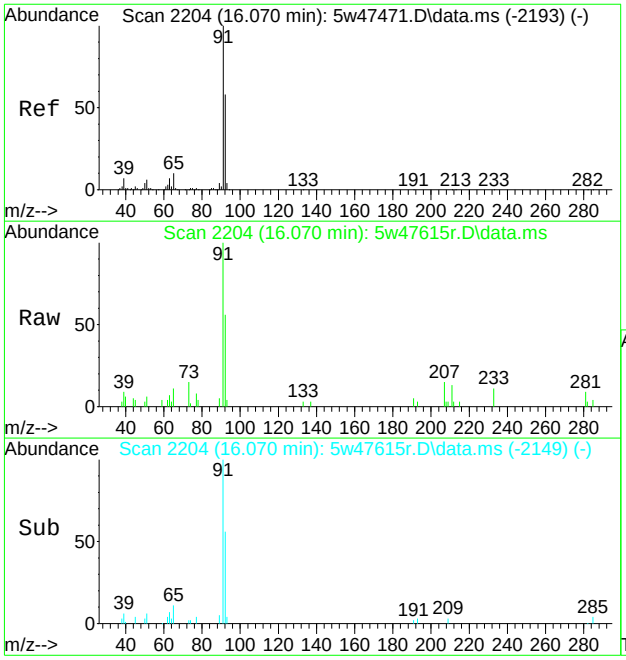


#56
Trichloroethene
Concen: 0.10 ppb(v)
RT: 13.531 min Scan# 1789
Delta R.T. 0.006 min
Lab File: 5w47615r.D
Acq: 27 Jan 2022 7:09 pm

Tgt Ion: 97 Resp: 2387

Ion	Ratio	Lower	Upper
97	100		
95	1063.0	114.4	212.6#
130	152.4	115.1	213.8
132	137.5	111.6	207.2

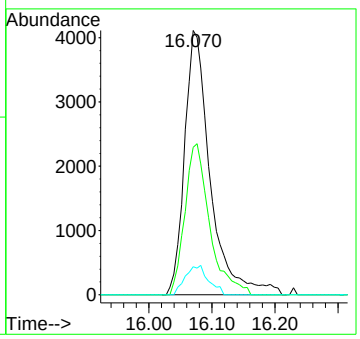


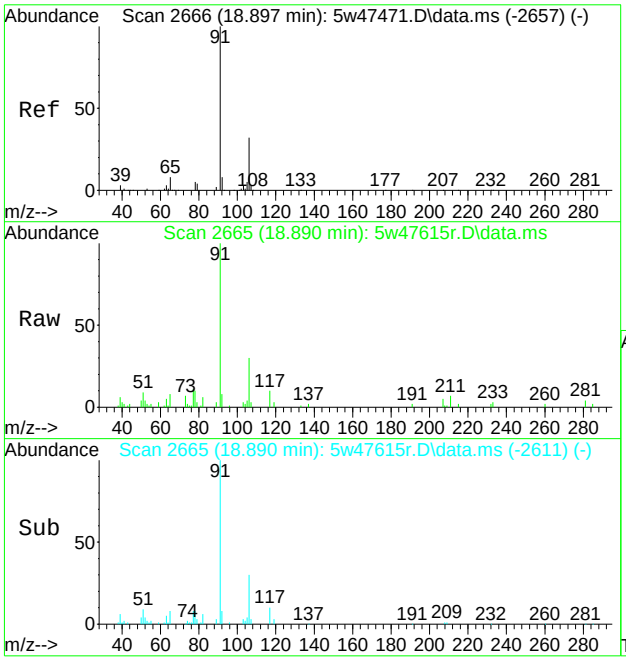


#66
Toluene
Concen: 0.12 ppb(v)
RT: 16.070 min Scan# 2204
Delta R.T. 0.006 min
Lab File: 5w47615r.D
Acq: 27 Jan 2022 7:09 pm

Tgt Ion: 91 Resp: 11622

Ion	Ratio	Lower	Upper
91	100		
92	55.7	40.9	75.9
65	10.6	7.3	13.5

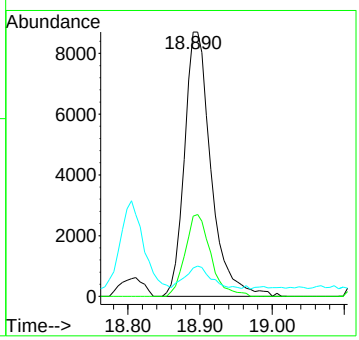


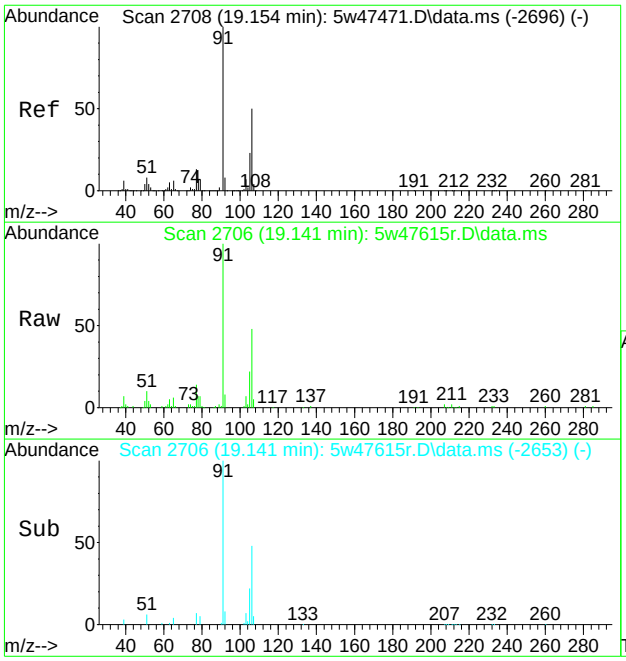


#78
Ethylbenzene
Concen: 0.20 ppb(v)
RT: 18.890 min Scan# 2665
Delta R.T. -0.000 min
Lab File: 5w47615r.D
Acq: 27 Jan 2022 7:09 pm

Tgt Ion: 91 Resp: 22225

Ion	Ratio	Lower	Upper
91	100		
106	30.3	22.5	41.7
77	10.7	6.1	11.3

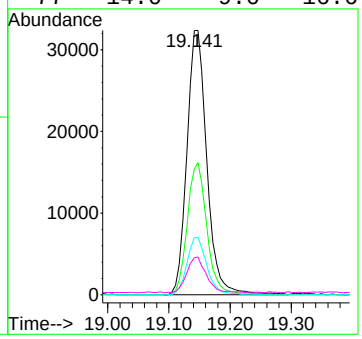


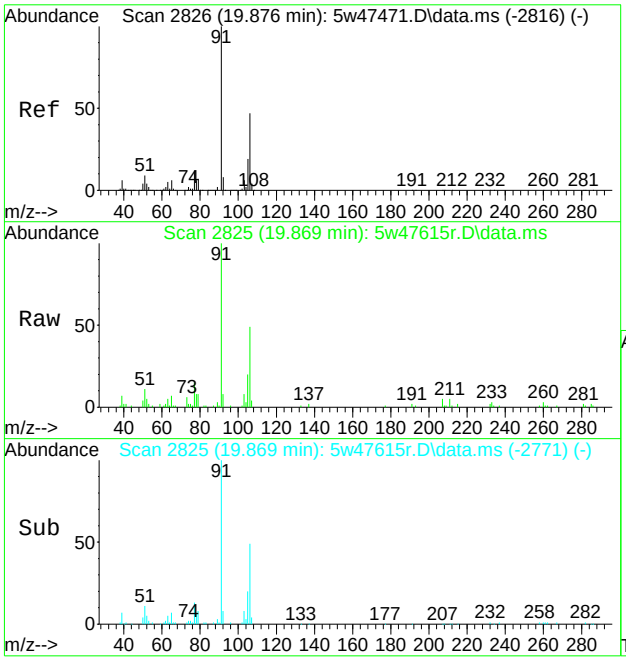


#79
m,p-Xylene
Concen: 0.90 ppb(v)
RT: 19.141 min Scan# 2706
Delta R.T. -0.006 min
Lab File: 5w47615r.D
Acq: 27 Jan 2022 7:09 pm

Tgt Ion: 91 Resp: 73330

Ion	Ratio	Lower	Upper
91	100		
106	47.6	35.3	65.5
105	21.7	15.9	29.5
77	14.0	9.0	16.6

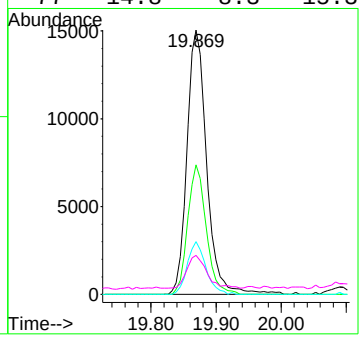




#82
o-Xylene
Concen: 0.37 ppb(v)
RT: 19.869 min Scan# 2825
Delta R.T. -0.000 min
Lab File: 5w47615r.D
Acq: 27 Jan 2022 7:09 pm

Tgt Ion: 91 Resp: 31666

Ion	Ratio	Lower	Upper
91	100		
106	49.0	33.2	61.7
105	20.0	13.5	25.1
77	14.8	8.3	15.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47617r.D
Acq On : 27 Jan 2022 8:46 pm
Operator : thomash
Sample : jd38291-3r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 28 10:50:30 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

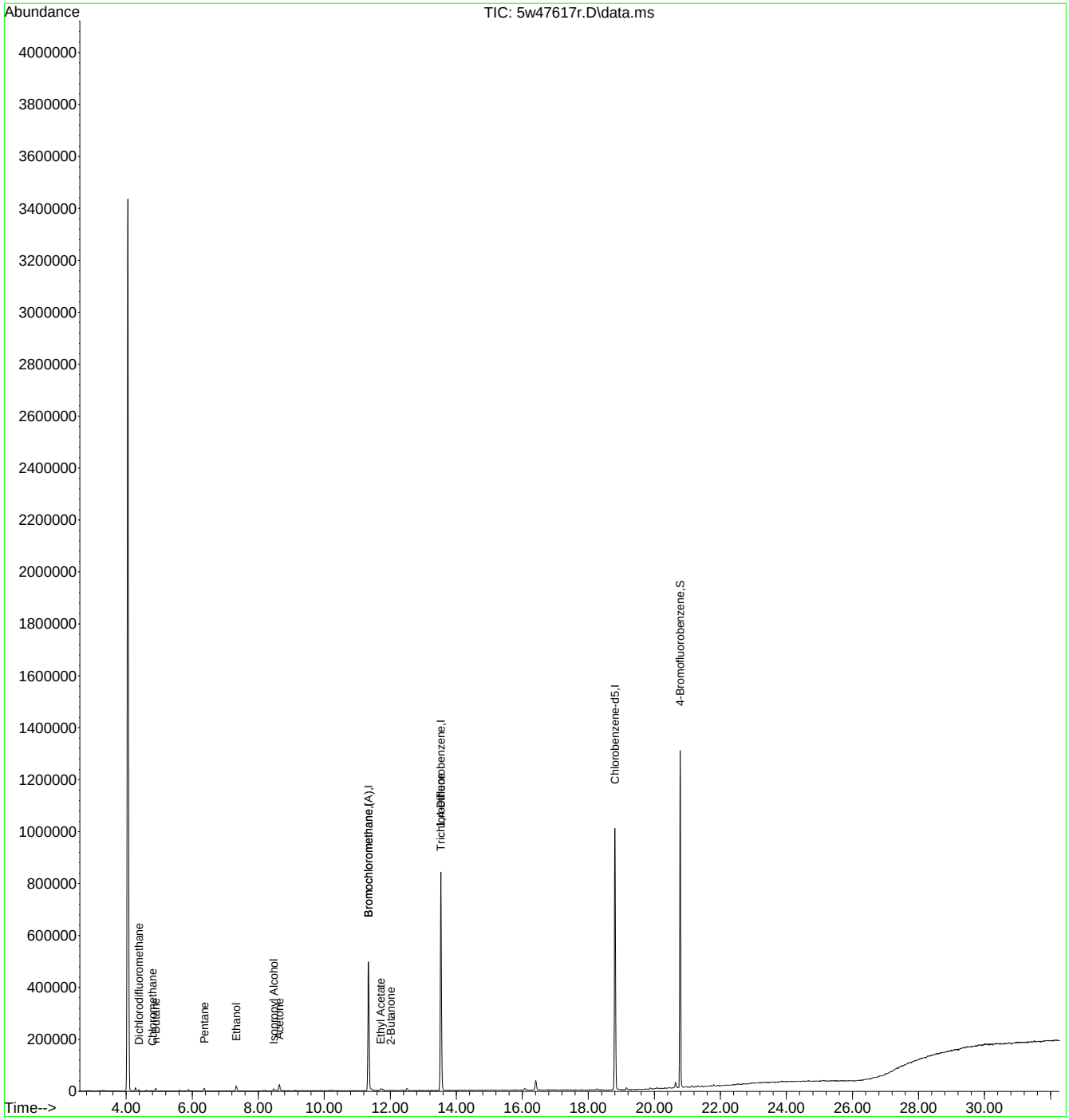
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	233754	10.00	ppb(v	# 0.00
53) 1,4-Difluorobenzene	13.531	114	919543	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	422981	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	233754	10.00	ppb(v	# 0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	497298	9.31	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 93.10%			
Target Compounds						Qvalue
6) Dichlorodifluoromethane	4.385	85	6716	0.11	ppb(v	95
8) Chloromethane	4.795	50	2951	0.18	ppb(v	94
12) n-Butane	4.893	58	1328	0.49	ppb(v#	92
22) Acetone	8.637	58	14036	1.47	ppb(v	99
23) Pentane	6.367	57	1360	0.25	ppb(v	93
25) Isopropyl Alcohol	8.466	43	3002	0.47	ppb(v	95
30) Ethanol	7.334	45	32854	4.20	ppb(v	96
38) 2-Butanone	12.014	72	1270	0.13	ppb(v	95
42) Ethyl Acetate	11.708	61	1912	0.27	ppb(v#	91
56) Trichloroethene	13.525	97	1643	0.07	ppb(v#	1

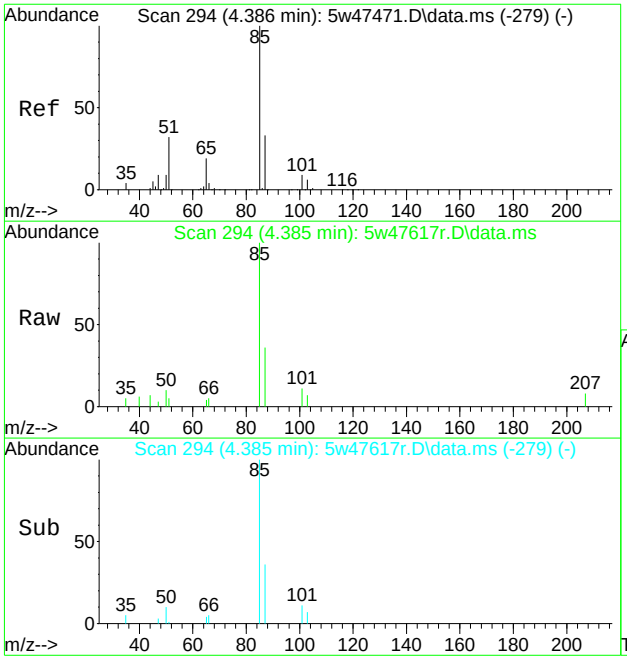
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47617r.D
Acq On : 27 Jan 2022 8:46 pm
Operator : thomash
Sample : jd38291-3r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 28 10:50:30 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

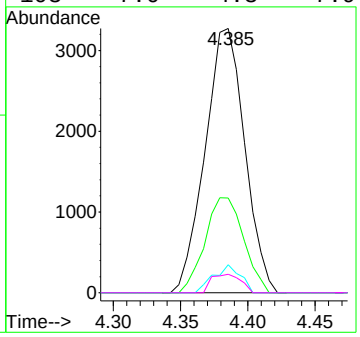


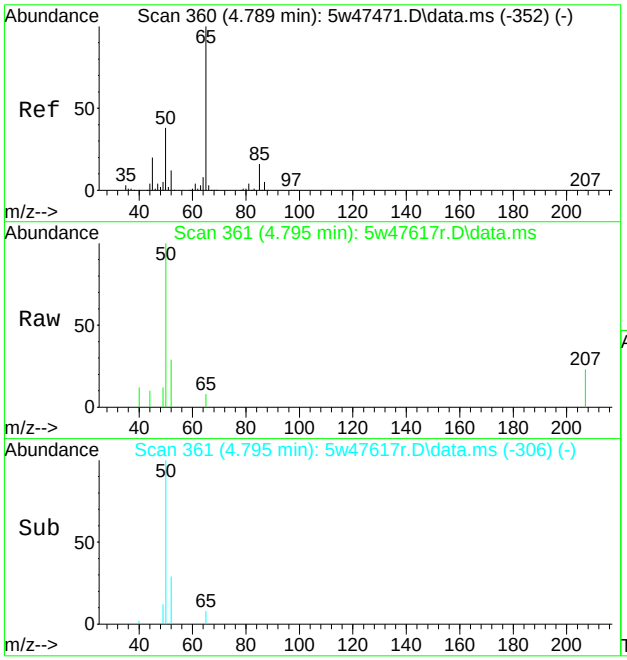


#6
Dichlorodifluoromethane
Concen: 0.11 ppb(v)
RT: 4.385 min Scan# 294
Delta R.T. -0.000 min
Lab File: 5w47617r.D
Acq: 27 Jan 2022 8:46 pm

Tgt Ion: 85 Resp: 6716

Ion	Ratio	Lower	Upper
85	100		
87	35.8	23.0	42.8
101	10.6	6.5	12.1
103	7.0	4.3	7.9

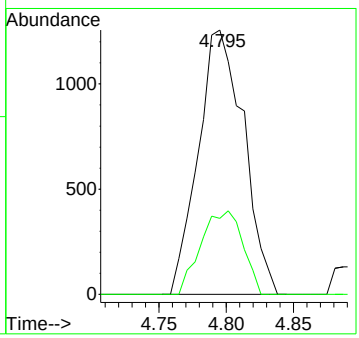


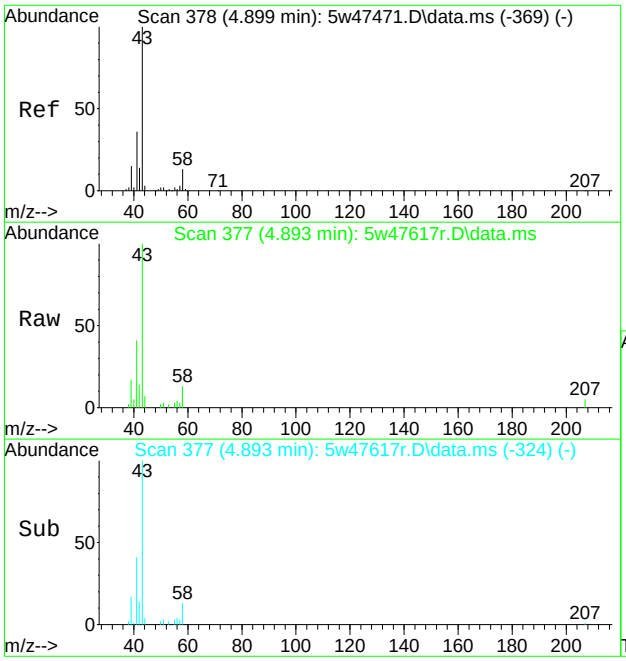


#8
Chloromethane
Concen: 0.18 ppb(v)
RT: 4.795 min Scan# 361
Delta R.T. 0.006 min
Lab File: 5w47617r.D
Acq: 27 Jan 2022 8:46 pm

Tgt Ion: 50 Resp: 2951

Ion	Ratio	Lower	Upper
50	100		
52	28.7	22.4	41.6

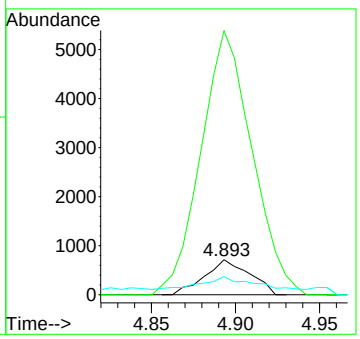


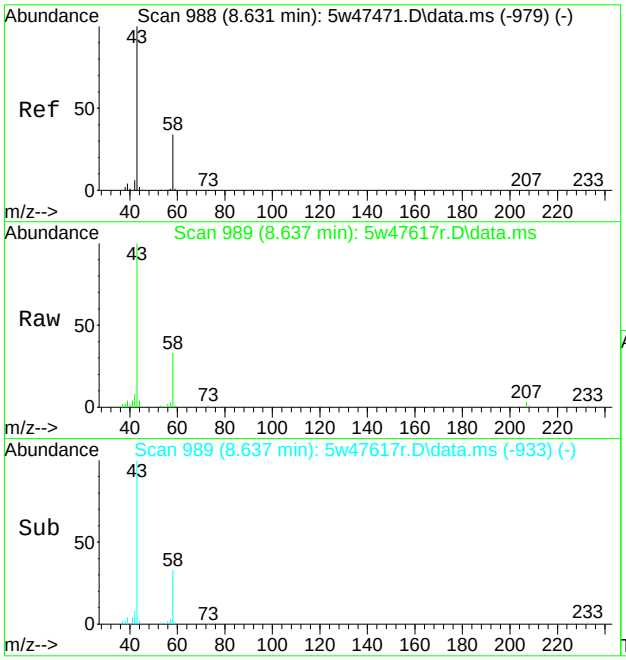


#12
n-Butane
Concen: 0.49 ppb(v)
RT: 4.893 min Scan# 377
Delta R.T. -0.006 min
Lab File: 5w47617r.D
Acq: 27 Jan 2022 8:46 pm

Tgt Ion: 58 Resp: 1328

Ion	Ratio	Lower	Upper
58	100		
43	756.9	547.0	1015.8
44	52.7	18.8	35.0#

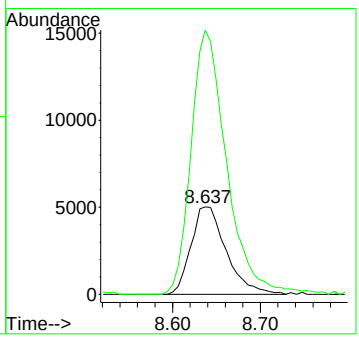


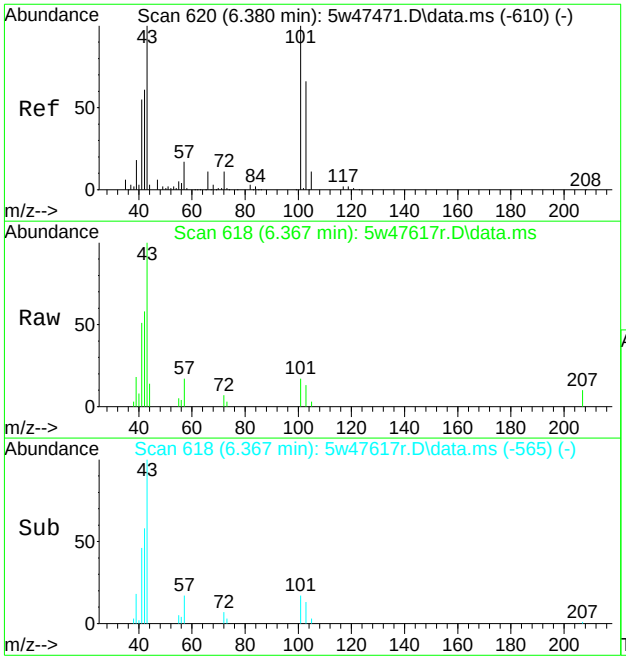


#22
Acetone
Concen: 1.47 ppb(v)
RT: 8.637 min Scan# 989
Delta R.T. 0.012 min
Lab File: 5w47617r.D
Acq: 27 Jan 2022 8:46 pm

Tgt Ion: 58 Resp: 14036

Ion	Ratio	Lower	Upper
58	100		
43	302.6	210.1	390.1

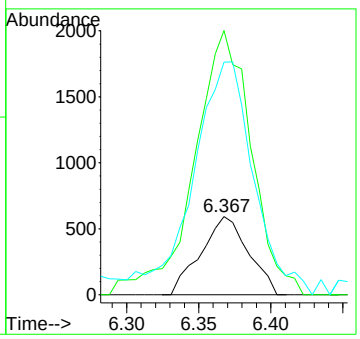


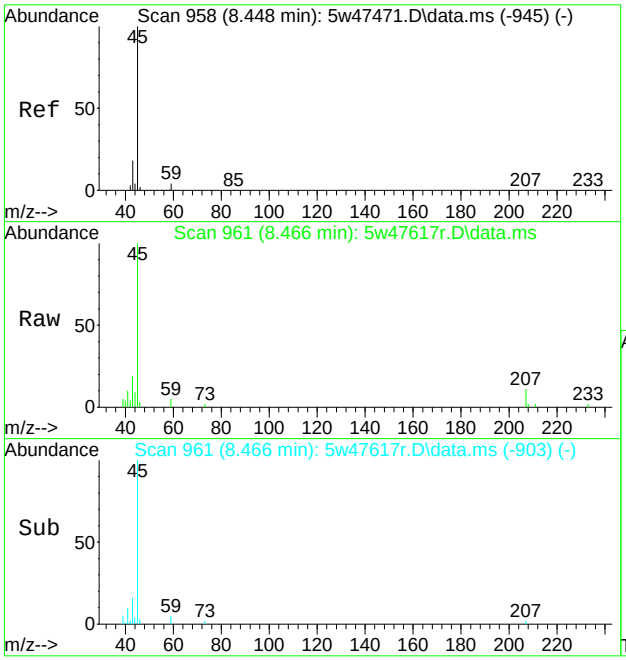


#23
Pentane
Concen: 0.25 ppb(v)
RT: 6.367 min Scan# 618
Delta R.T. -0.006 min
Lab File: 5w47617r.D
Acq: 27 Jan 2022 8:46 pm

Tgt Ion: 57 Resp: 1360

Ion	Ratio	Lower	Upper
57	100		
42	338.5	245.1	455.1
41	297.8	221.8	412.0

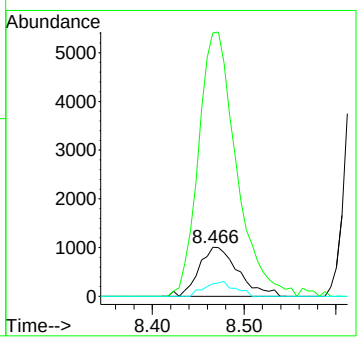


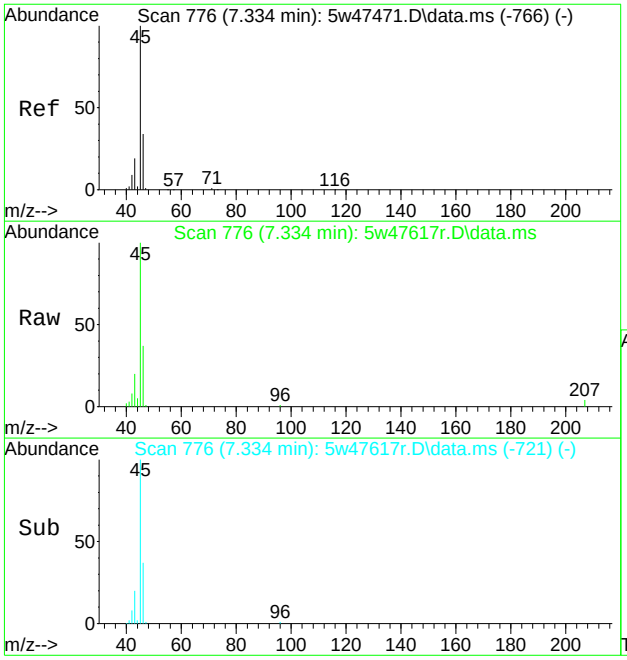


#25
Isopropyl Alcohol
Concen: 0.47 ppb(v)
RT: 8.466 min Scan# 961
Delta R.T. 0.024 min
Lab File: 5w47617r.D
Acq: 27 Jan 2022 8:46 pm

Tgt Ion: 43 Resp: 3002

Ion	Ratio	Lower	Upper
43	100		
45	536.8	387.0	718.6
59	25.9	17.4	32.2

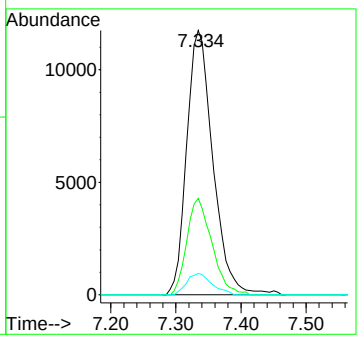


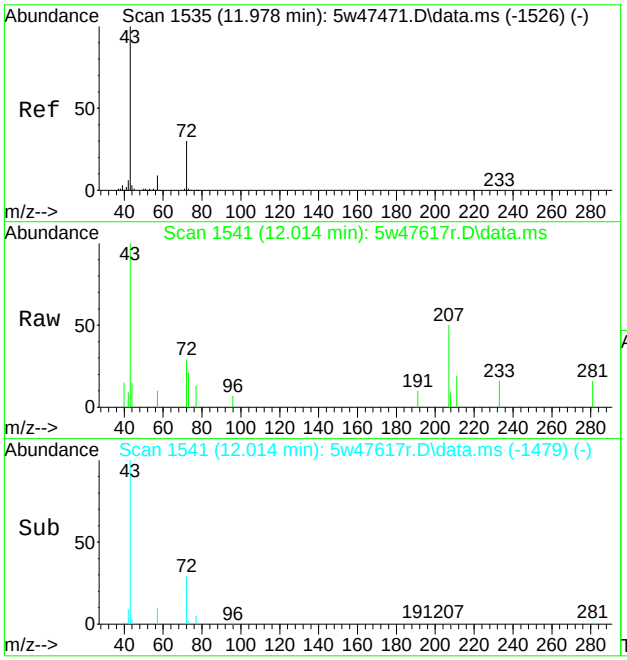


#30
Ethanol
Concen: 4.20 ppb(v)
RT: 7.334 min Scan# 776
Delta R.T. 0.006 min
Lab File: 5w47617r.D
Acq: 27 Jan 2022 8:46 pm

Tgt Ion: 45 Resp: 32854

Ion	Ratio	Lower	Upper
45	100		
46	36.5	23.9	44.5
42	8.1	6.1	11.3

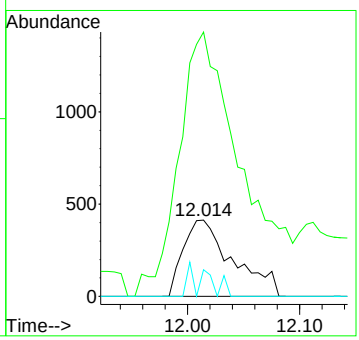


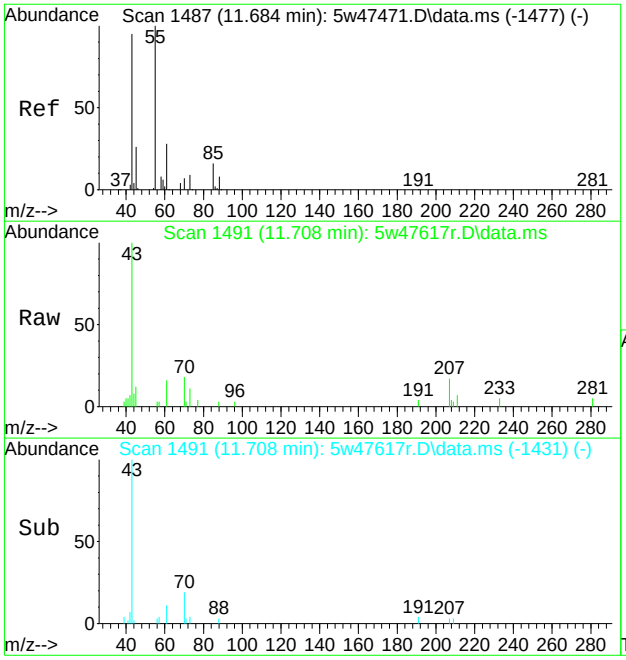


#38
2-Butanone
Concen: 0.13 ppb(v)
RT: 12.014 min Scan# 1541
Delta R.T. 0.049 min
Lab File: 5w47617r.D
Acq: 27 Jan 2022 8:46 pm

Tgt Ion: 72 Resp: 1270

Ion	Ratio	Lower	Upper
72	100		
43	347.0	236.3	438.9
57	34.9	20.6	38.2

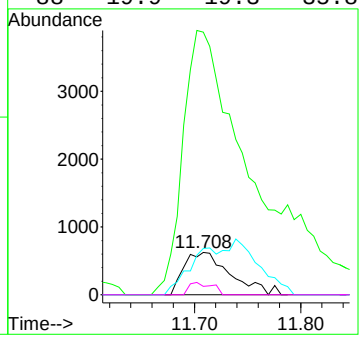


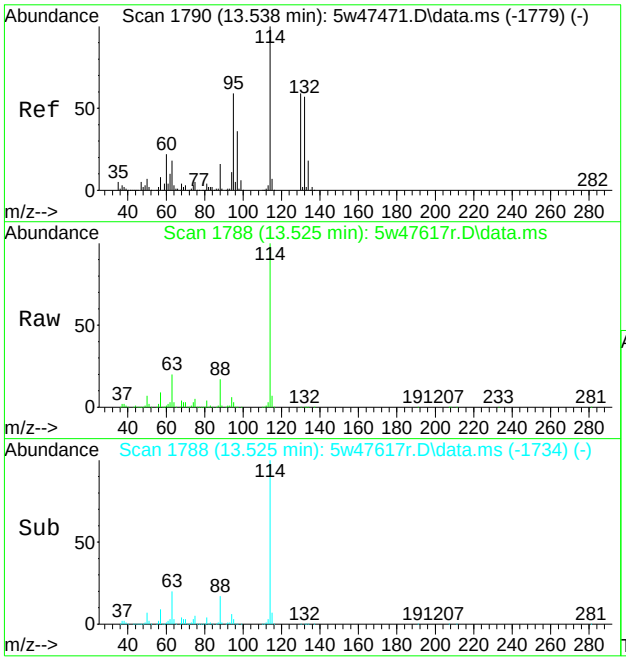


#42
Ethyl Acetate
Concen: 0.27 ppb(v)
RT: 11.708 min Scan# 1491
Delta R.T. 0.037 min
Lab File: 5w47617r.D
Acq: 27 Jan 2022 8:46 pm

Tgt Ion: 61 Resp: 1912

Ion	Ratio	Lower	Upper
61	100		
43	620.7	421.6	783.0
70	109.1	57.0	105.8#
88	19.9	19.3	35.8

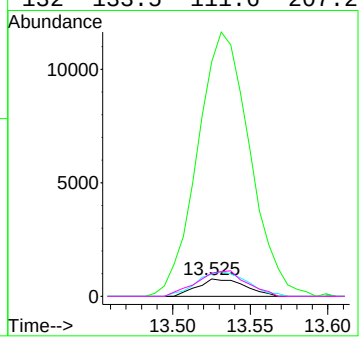




#56
Trichloroethene
Concen: 0.07 ppb(v)
RT: 13.525 min Scan# 1788
Delta R.T. -0.000 min
Lab File: 5w47617r.D
Acq: 27 Jan 2022 8:46 pm

Tgt Ion: 97 Resp: 1643

Ion	Ratio	Lower	Upper
97	100		
95	1347.7	114.4	212.6#
130	126.9	115.1	213.8
132	133.5	111.6	207.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57493r.D
Acq On : 28 Jan 2022 11:00 pm
Operator : thomash
Sample : jd38291-4r
Misc : MS56243,V2w2558,400,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 14:59:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

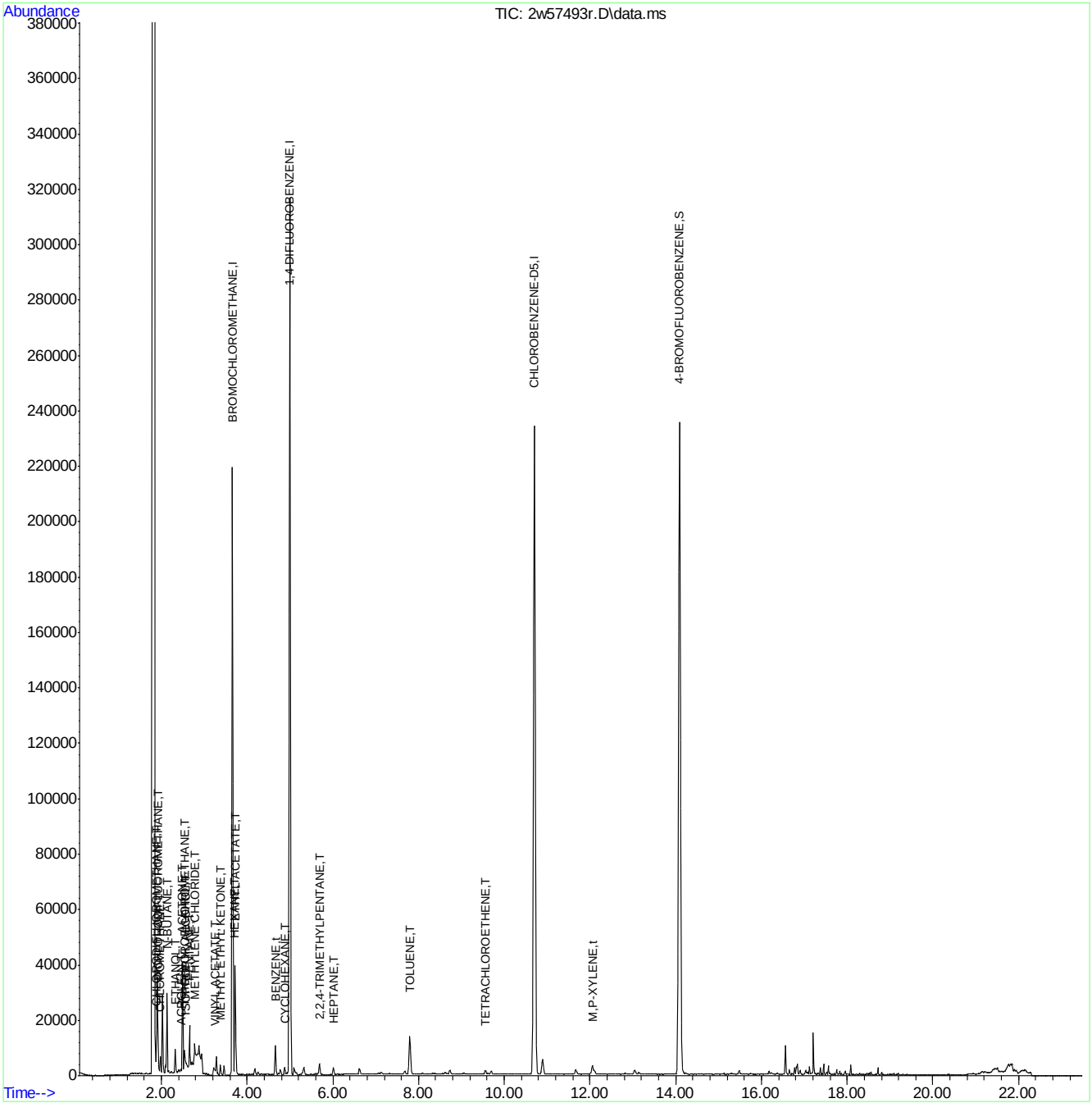
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.657	128	48460	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.994	114	264225	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.698	117	235172	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.087	95	159271	10.14	PPBV		0.00
Target Compounds							Qvalue
4) CHLORODIFLUOROMETHANE	1.885	67	397	0.22	PPBV		97
6) DICHLORODIFLUOROMETHANE	1.920	85	8969	0.51	PPBV		100
10) CHLOROMETHANE	1.978	52	1124	0.67	PPBV		99
13) N-BUTANE	2.133	43	17101	1.98	PPBV	#	95
18) ACROLEIN	2.451	56	487	0.16	PPBV		100
21) TRICHLOROFLUOROMETHANE	2.544	101	3678	0.24	PPBV		97
22) ISOPROPYL ALCOHOL	2.567	45	2941	0.32	PPBV	#	95
23) ACETONE	2.490	58	8026	2.50	PPBV	#	70
24) PENTANE	2.657	42	3263	0.72	PPBV		89
28) ETHANOL	2.322	45	7406	2.87	PPBV		99
31) METHYLENE CHLORIDE	2.779	84	1474	0.22	PPBV		90
38) HEXANE	3.715	57	2118	0.19	PPBV		92
39) VINYL ACETATE	3.261	86	306	0.16	PPBV	#	1
41) METHYL ETHYL KETONE	3.377	72	963	0.25	PPBV	#	68
44) ETHYL ACETATE	3.718	61	4988	2.45	PPBV	#	1
51) BENZENE	4.660	78	9278	0.38	PPBV		99
53) CYCLOHEXANE	4.882	84	1124	0.10	PPBV		90
60) 2,2,4-TRIMETHYLPENTANE	5.692	57	4332	0.11	PPBV	#	97
62) HEPTANE	6.013	43	1308	0.11	PPBV	#	79
66) TOLUENE	7.792	91	15060	0.50	PPBV		100
72) TETRACHLOROETHENE	9.550	164	560	0.05	PPBV		97
80) M,P-XYLENE	12.058	91	5137	0.19	PPBV		94

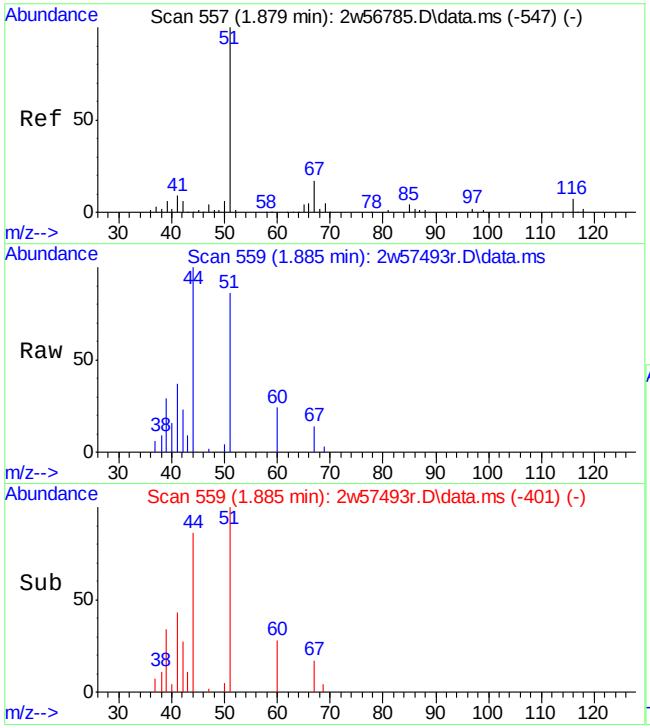
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57493r.D
Acq On : 28 Jan 2022 11:00 pm
Operator : thomash
Sample : jd38291-4r
Misc : MS56243,V2w2558,400,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 14:59:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

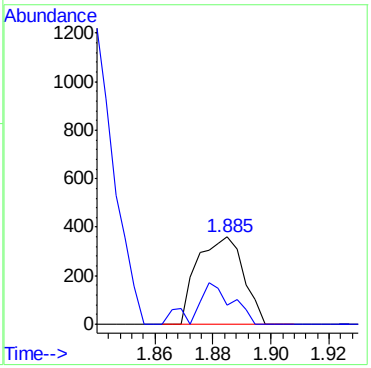


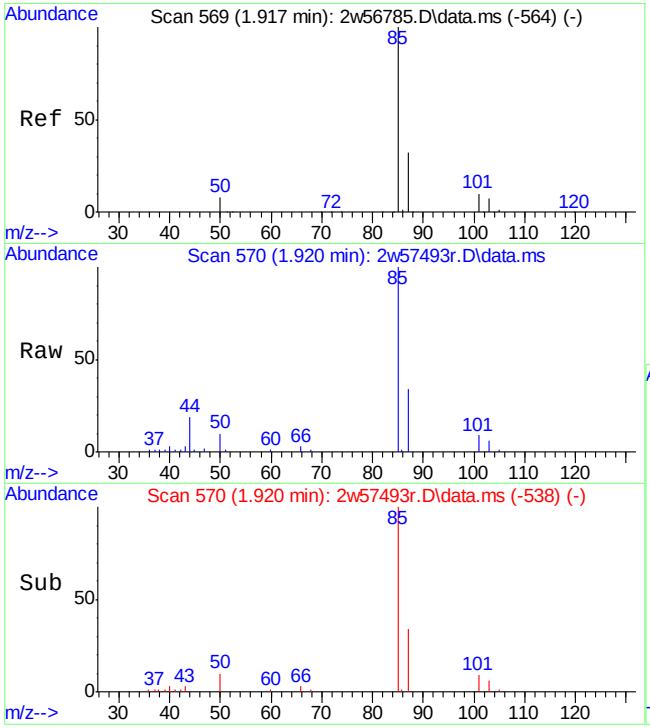


#4
CHLORODIFLUOROMETHANE
Concen: 0.22 PPBV
RT: 1.885 min Scan# 559
Delta R.T. 0.006 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 67 Resp: 397

Ion	Ratio	Lower	Upper
67	100		
69	37.8	28.8	43.2

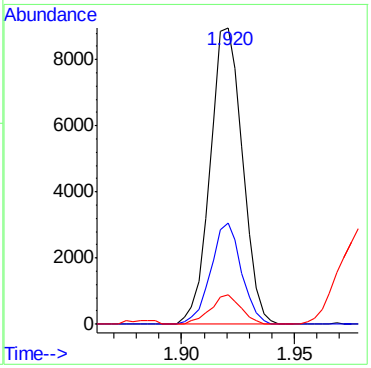


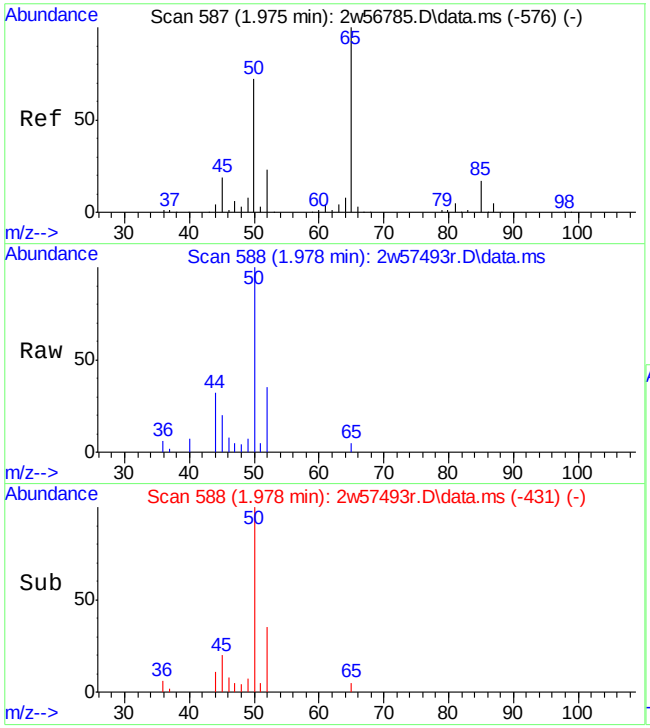


#6
DICHLORODIFLUOROMETHANE
Concen: 0.51 PPBV
RT: 1.920 min Scan# 570
Delta R.T. 0.003 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 85 Resp: 8969

Ion	Ratio	Lower	Upper
85	100		
87	32.2	25.8	38.6
50	9.3	7.4	11.2

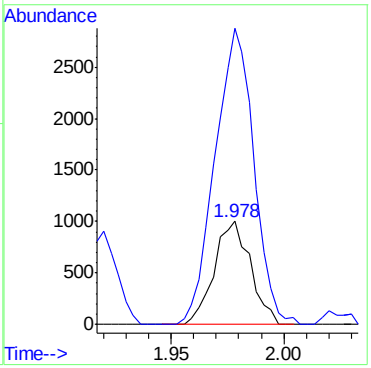


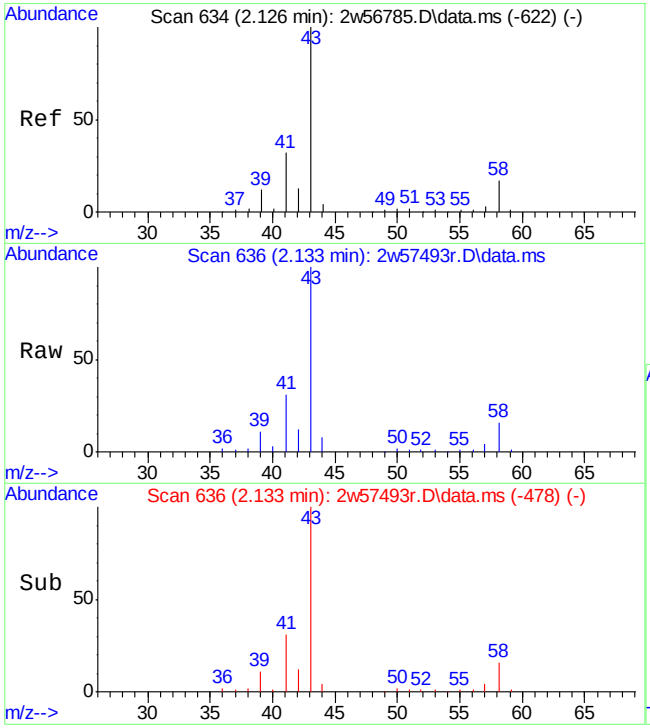


#10
CHLOROMETHANE
Concen: 0.67 PPBV
RT: 1.978 min Scan# 588
Delta R.T. 0.003 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 52 Resp: 1124

Ion	Ratio	Lower	Upper
52	100		
50	308.1	248.2	372.2

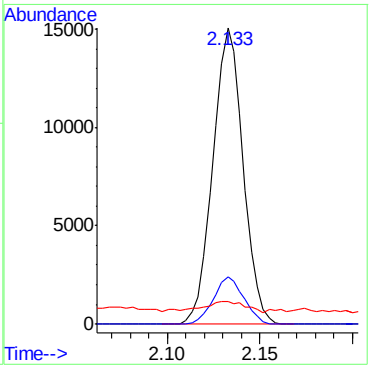


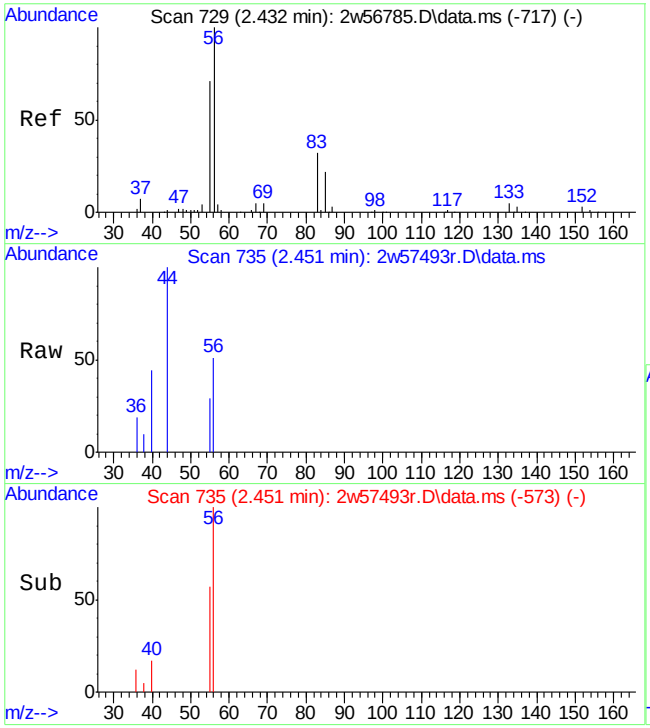


#13
N-BUTANE
Concen: 1.98 PPBV
RT: 2.133 min Scan# 636
Delta R.T. 0.006 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 43 Resp: 17101

Ion	Ratio	Lower	Upper
43	100		
58	16.0	14.2	21.2
44	8.5	4.2	6.4#

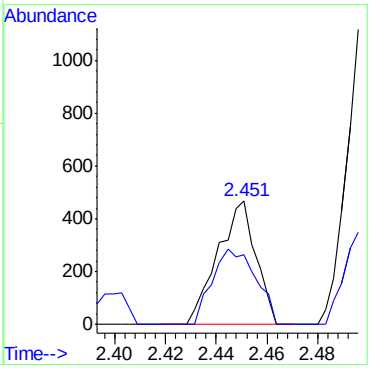


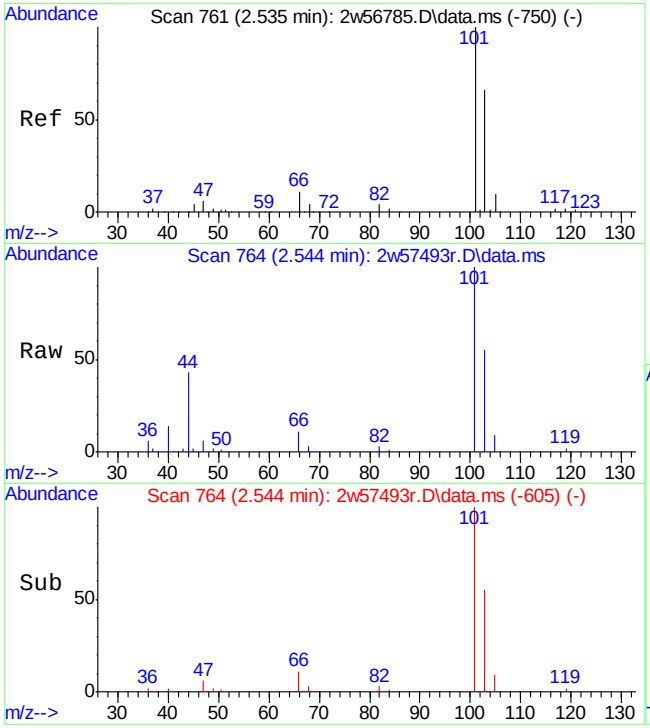


#18
ACROLEIN
Concen: 0.16 PPBV
RT: 2.451 min Scan# 735
Delta R.T. 0.019 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 56 Resp: 487

Ion	Ratio	Lower	Upper
56	100		
55	69.6	56.0	84.0

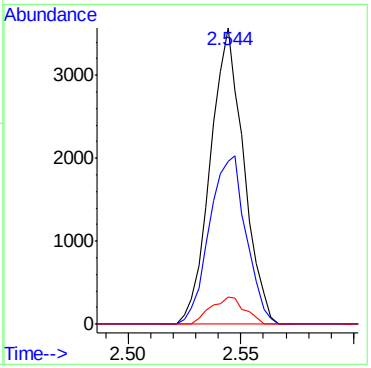


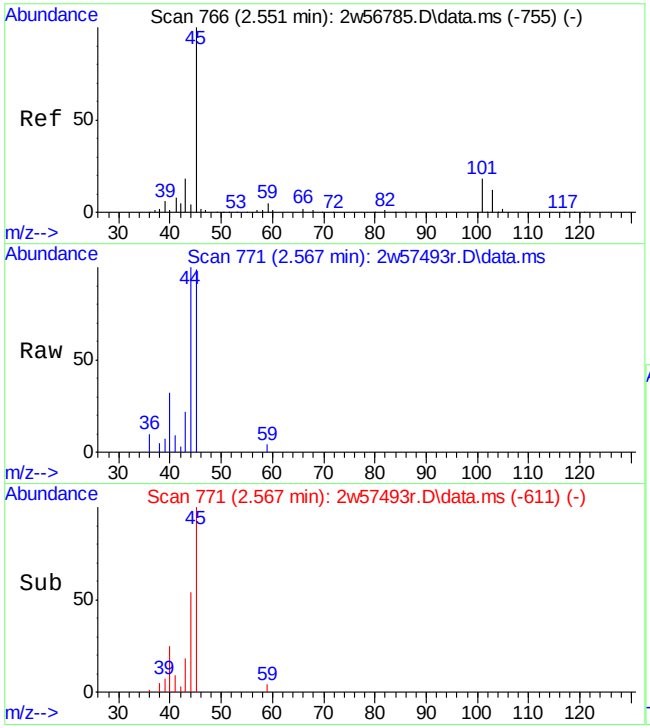


#21
TRICHLOROFLUOROMETHANE
Concen: 0.24 PPBV
RT: 2.544 min Scan# 764
Delta R.T. 0.010 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion:101 Resp: 3678

Ion	Ratio	Lower	Upper
101	100		
103	62.3	51.8	77.6
105	9.2	8.4	12.6

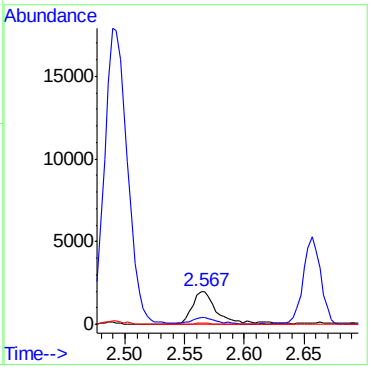


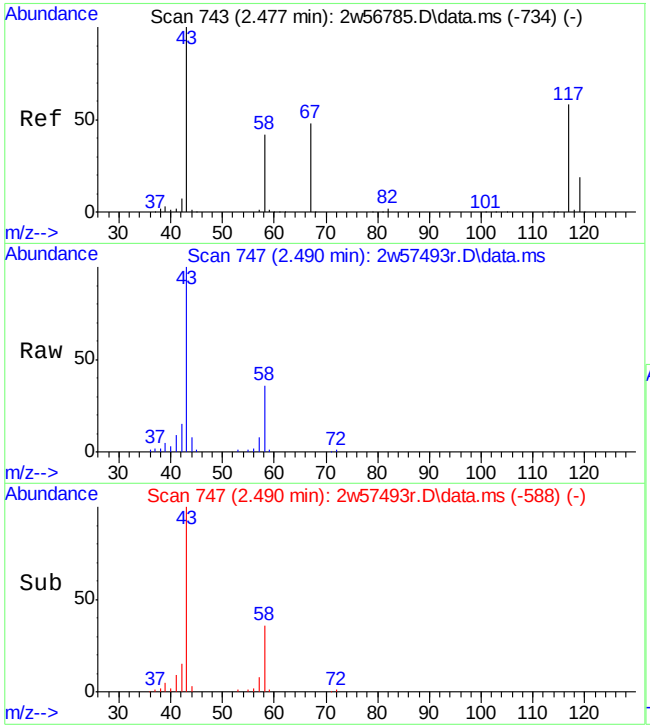


#22
ISOPROPYL ALCOHOL
Concen: 0.32 PPBV
RT: 2.567 min Scan# 771
Delta R.T. 0.016 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 45 Resp: 2941

Ion	Ratio	Lower	Upper
45	100		
43	20.4	15.5	23.3
59	0.0	4.1	6.1#

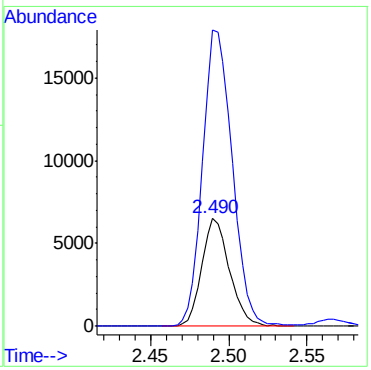


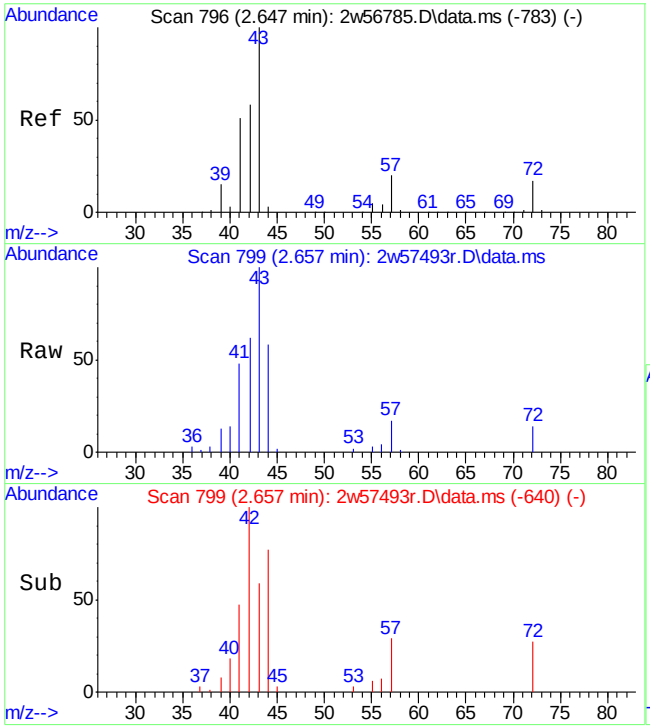


#23
ACETONE
Concen: 2.50 PPBV
RT: 2.490 min Scan# 747
Delta R.T. 0.013 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 58 Resp: 8026

Ion	Ratio	Lower	Upper
58	100		
43	295.8	195.9	293.9#

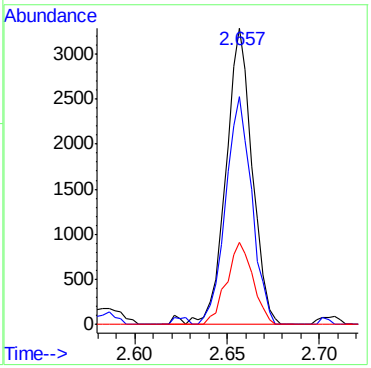


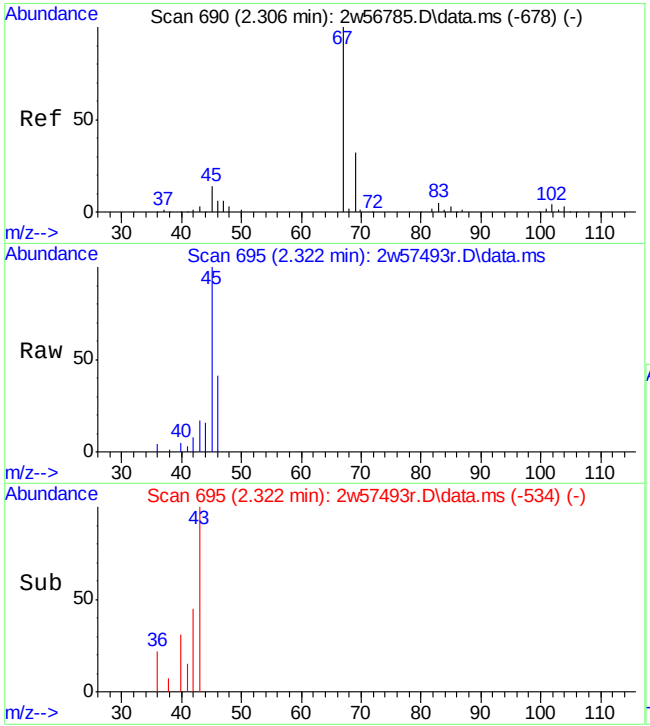


#24
PENTANE
Concen: 0.72 PPBV
RT: 2.657 min Scan# 799
Delta R.T. 0.010 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 42 Resp: 3263

Ion	Ratio	Lower	Upper
42	100		
41	77.3	69.5	104.3
57	27.6	27.4	41.0

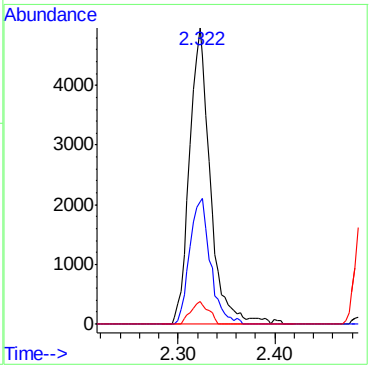


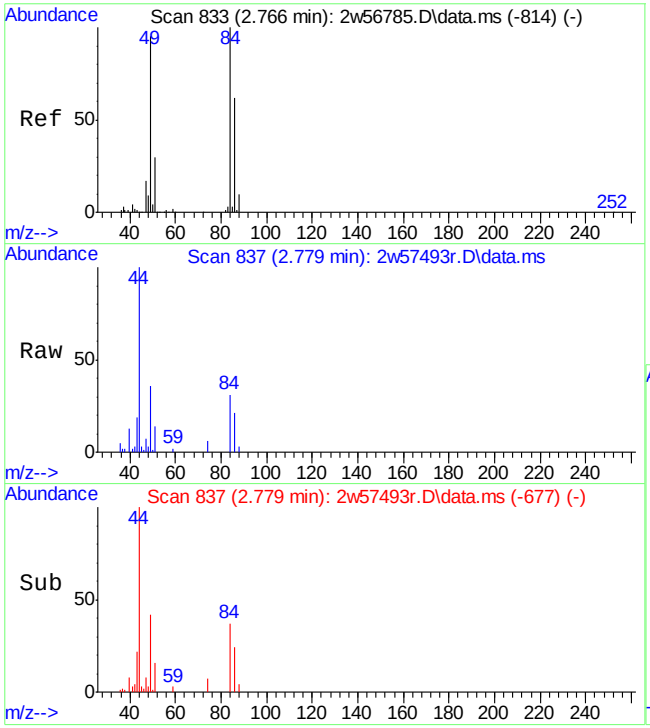


#28
ETHANOL
Concen: 2.87 PPBV
RT: 2.322 min Scan# 695
Delta R.T. 0.016 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 45 Resp: 7406

Ion	Ratio	Lower	Upper
45	100		
46	42.1	34.1	51.1
42	6.5	6.1	9.1

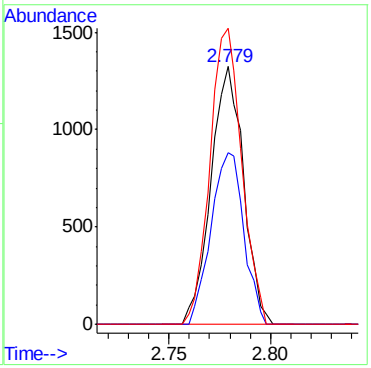


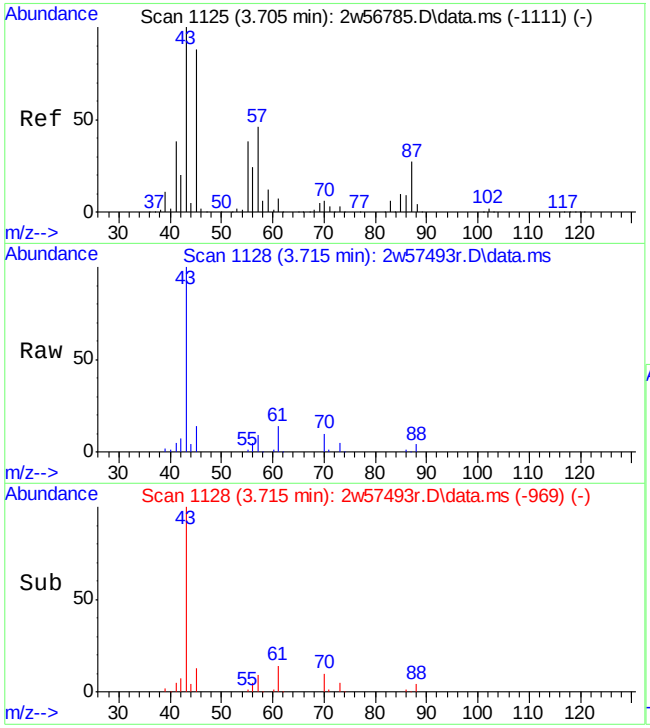


#31
METHYLENE CHLORIDE
Concen: 0.22 PPBV
RT: 2.779 min Scan# 837
Delta R.T. 0.013 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 84 Resp: 1474

Ion	Ratio	Lower	Upper
84	100		
86	67.0	50.9	76.3
49	112.4	78.6	118.0

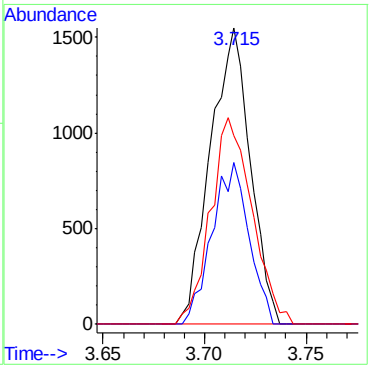


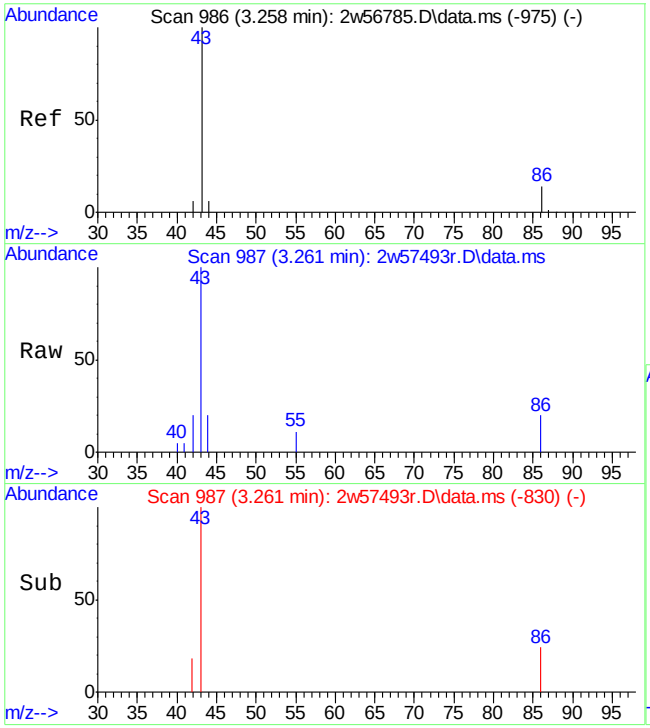


#38
HEXANE
Concen: 0.19 PPBV
RT: 3.715 min Scan# 1128
Delta R.T. 0.010 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 57 Resp: 2118

Ion	Ratio	Lower	Upper
57	100		
56	50.3	42.0	63.0
41	72.3	66.2	99.2

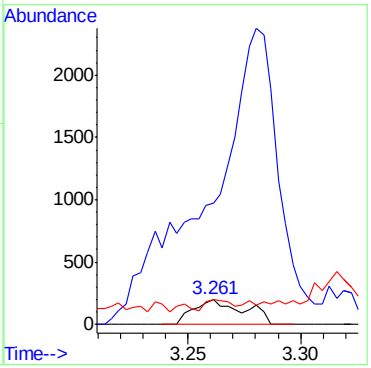


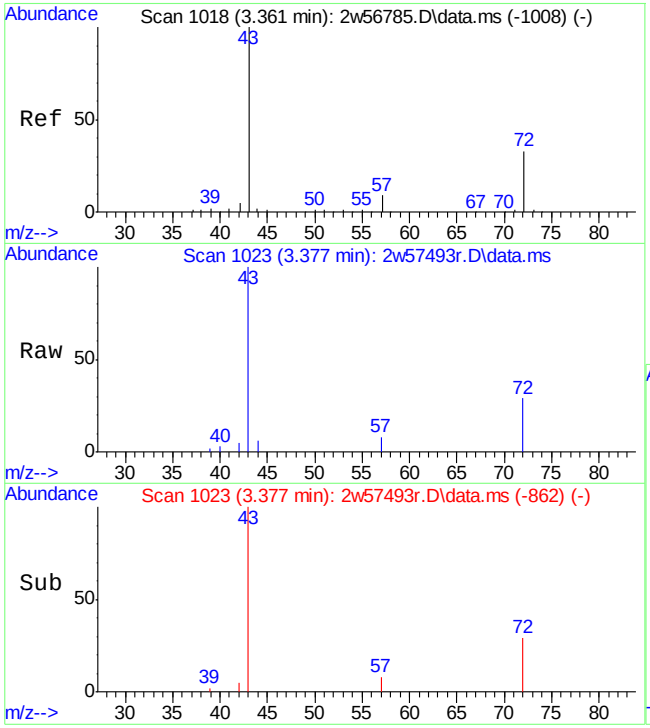


#39
VINYL ACETATE
Concen: 0.16 PPBV
RT: 3.261 min Scan# 987
Delta R.T. 0.003 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 86 Resp: 306

Ion	Ratio	Lower	Upper
86	100		
43	1777.1	626.3	939.5#
44	0.0	34.5	51.7#

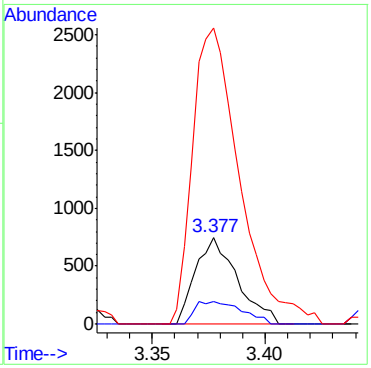


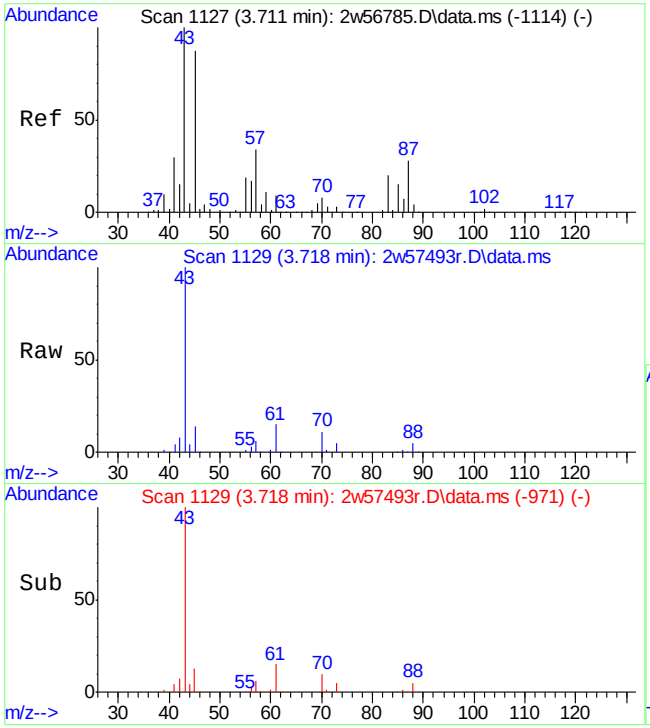


#41
METHYL ETHYL KETONE
Concen: 0.25 PPBV
RT: 3.377 min Scan# 1023
Delta R.T. 0.016 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 72 Resp: 963

Ion	Ratio	Lower	Upper
72	100		
57	29.4	22.2	33.4
43	385.5	252.6	378.8#

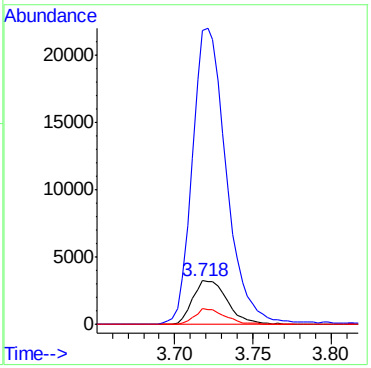


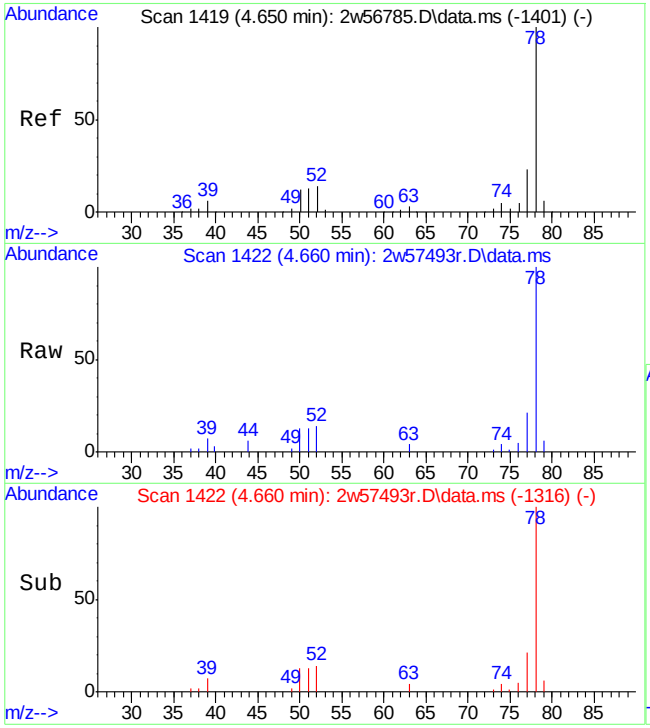


#44
ETHYL ACETATE
Concen: 2.45 PPBV
RT: 3.718 min Scan# 1129
Delta R.T. 0.006 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 61 Resp: 4988

Ion	Ratio	Lower	Upper
61	100		
43	673.7	986.2	1479.2#
88	31.2	38.8	58.2#

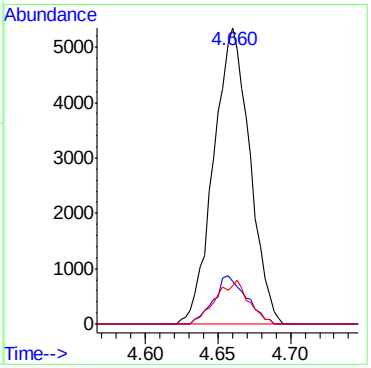


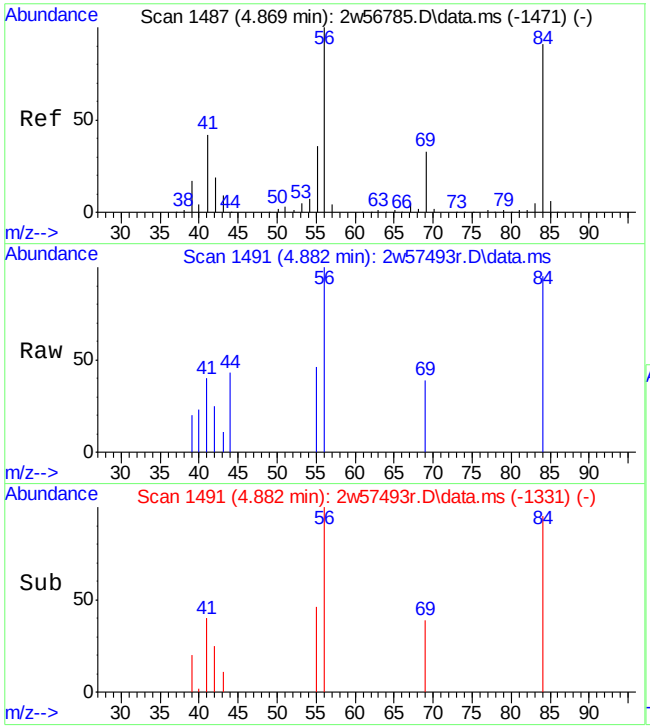


#51
BENZENE
Concen: 0.38 PPBV
RT: 4.660 min Scan# 1422
Delta R.T. 0.010 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 78 Resp: 9278

Ion	Ratio	Lower	Upper
78	100		
52	14.6	0.0	34.0
51	13.5	0.0	33.5

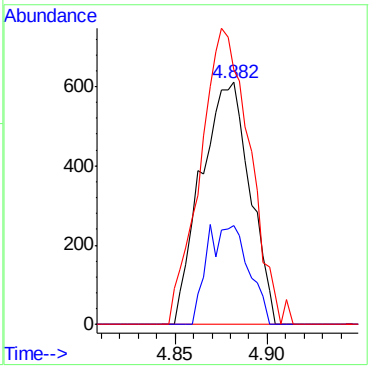


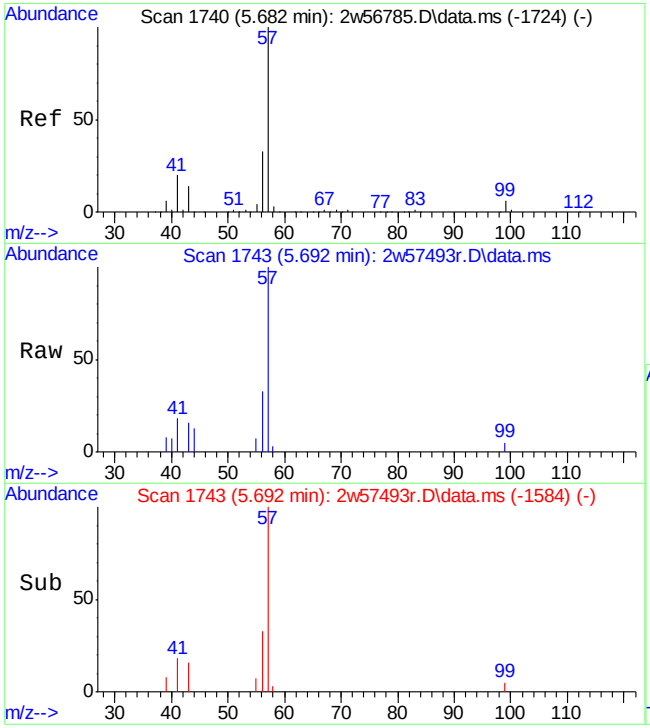


#53
CYCLOHEXANE
Concen: 0.10 PPBV
RT: 4.882 min Scan# 1491
Delta R.T. 0.013 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 84 Resp: 1124

Ion	Ratio	Lower	Upper
84	100		
69	34.7	28.2	42.2
56	123.9	88.1	132.1

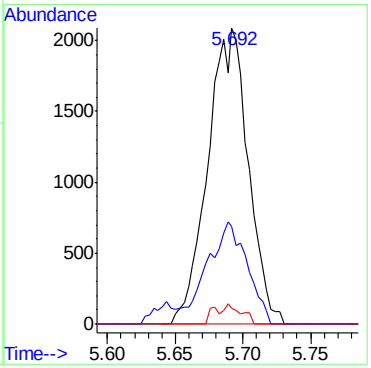


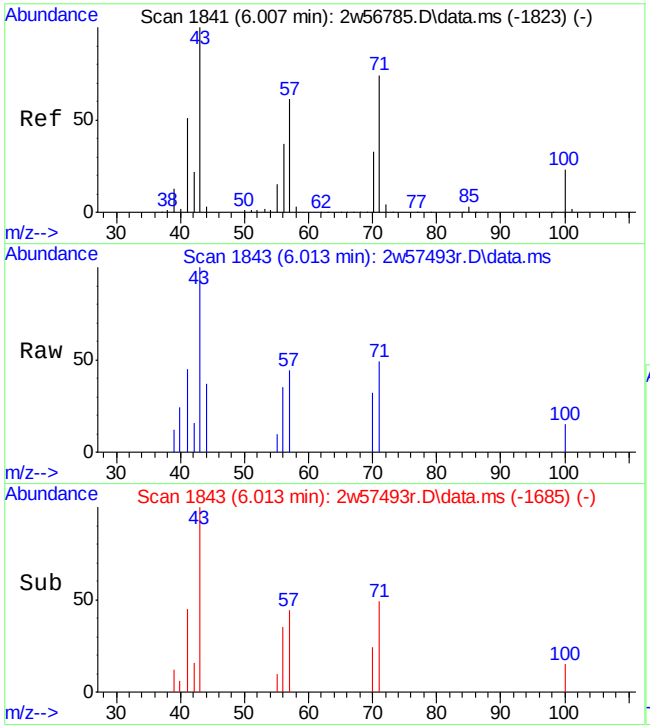


#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 5.692 min Scan# 1743
Delta R.T. 0.010 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 57 Resp: 4332

Ion	Ratio	Lower	Upper
57	100		
56	34.1	26.3	39.5
99	4.4	5.0	7.6#

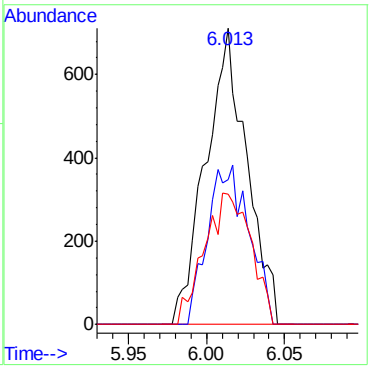


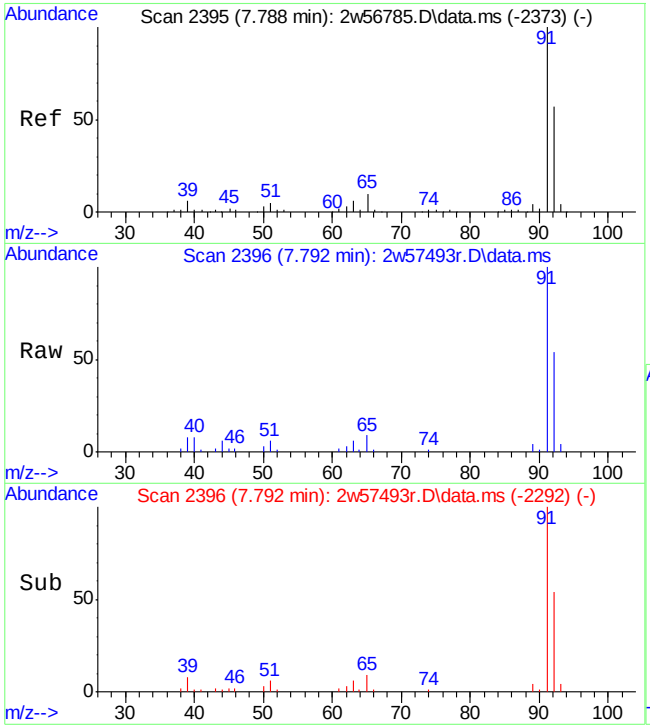


#62
HEPTANE
Concen: 0.11 PPBV
RT: 6.013 min Scan# 1843
Delta R.T. 0.006 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 43 Resp: 1308

Ion	Ratio	Lower	Upper
43	100		
71	54.4	60.6	90.8#
57	50.1	50.2	75.4#

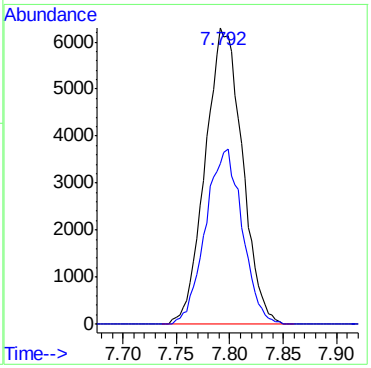


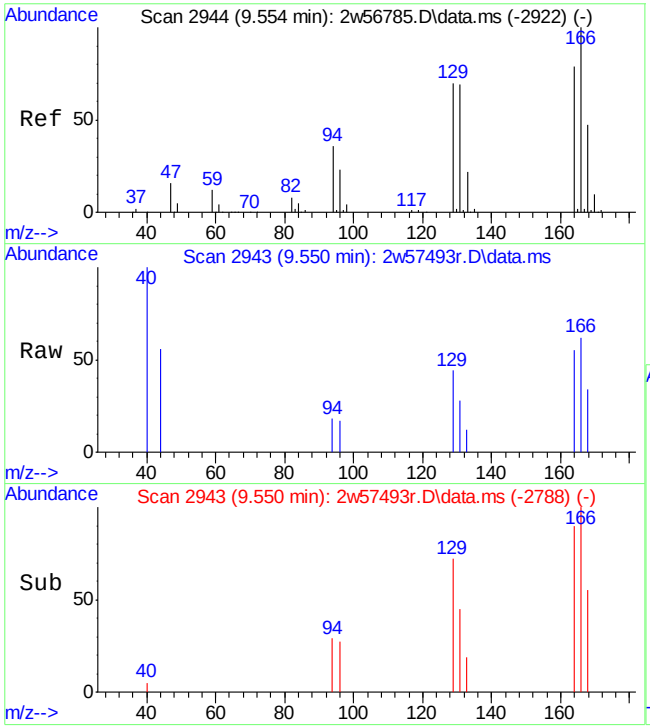


#66
TOLUENE
Concen: 0.50 PPBV
RT: 7.792 min Scan# 2396
Delta R.T. 0.003 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 91 Resp: 15060

Ion	Ratio	Lower	Upper
91	100		
92	58.6	38.9	78.9

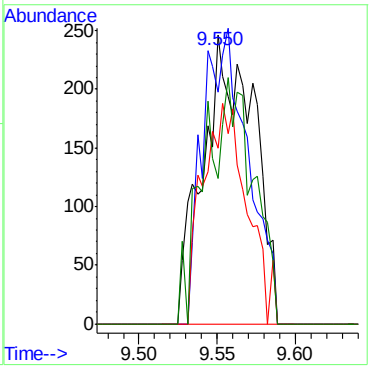


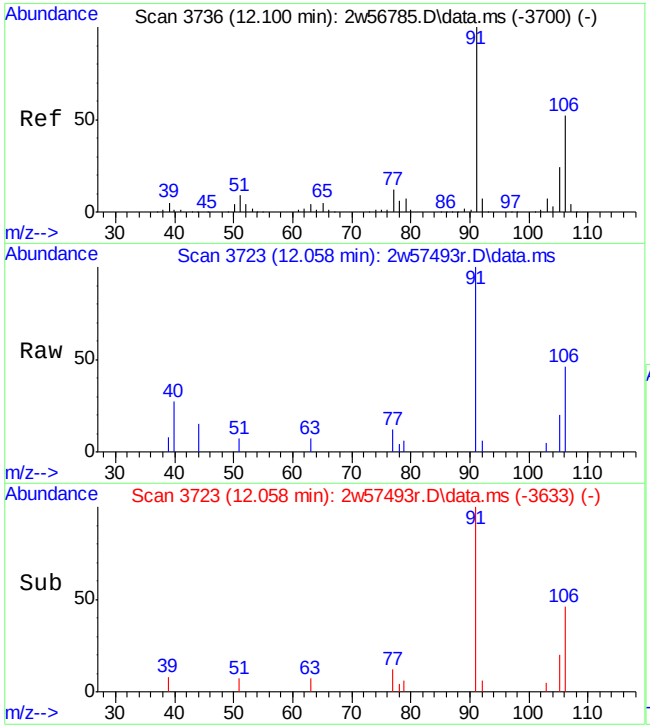


#72
TETRACHLOROETHENE
Concen: 0.05 PPBV
RT: 9.550 min Scan# 2943
Delta R.T. -0.003 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion:164 Resp: 560

Ion	Ratio	Lower	Upper
164	100		
129	90.0	72.0	108.0
168	66.4	48.6	72.8
131	82.7	69.0	103.6

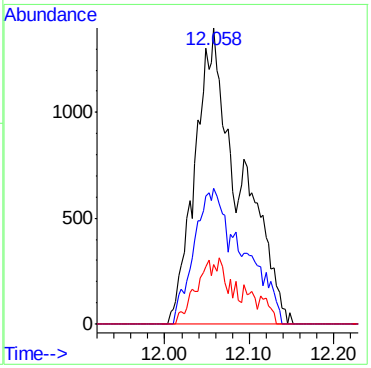




#80
M,P-XYLENE
Concen: 0.19 PPBV
RT: 12.058 min Scan# 3723
Delta R.T. -0.042 min
Lab File: 2w57493r.D
Acq: 28 Jan 2022 11:00 pm

Tgt Ion: 91 Resp: 5137

Ion	Ratio	Lower	Upper
91	100		
106	50.3	31.5	71.5
105	15.9	3.6	43.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47618r.D
Acq On : 27 Jan 2022 9:35 pm
Operator : thomash
Sample : jd38291-6r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 10:52:10 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

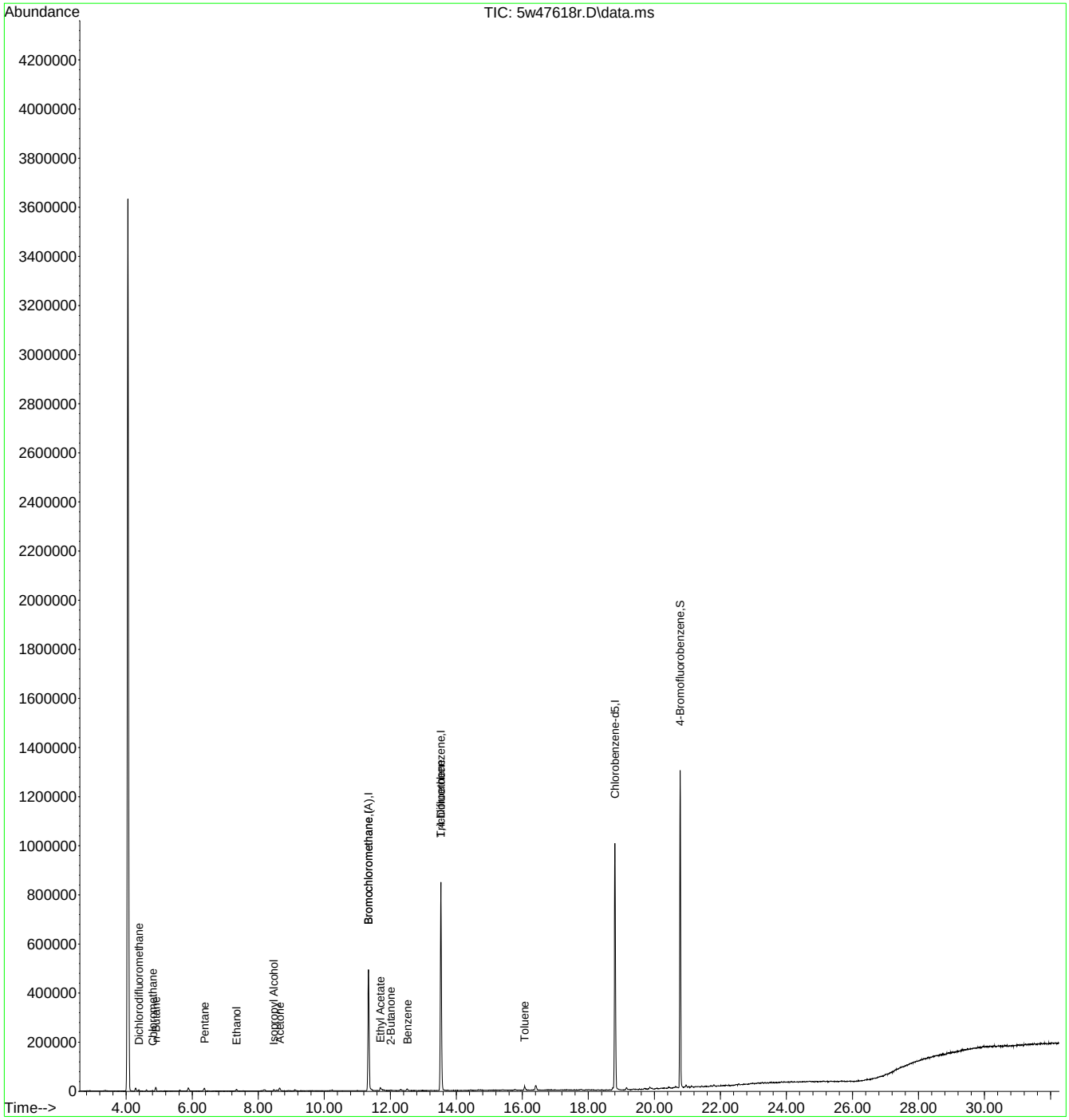
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	235393	10.00	ppb(v	# 0.00
53) 1,4-Difluorobenzene	13.531	114	925495	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	422830	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	235393	10.00	ppb(v	# 0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	501698	9.39	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 93.90%			
Target Compounds						Qvalue
6) Dichlorodifluoromethane	4.385	85	6707	0.10	ppb(v	96
8) Chloromethane	4.801	50	3663	0.23	ppb(v	99
12) n-Butane	4.899	58	1914	0.71	ppb(v#	98
22) Acetone	8.649	58	6156	0.64	ppb(v	93
23) Pentane	6.374	57	1652	0.30	ppb(v	91
25) Isopropyl Alcohol	8.466	43	1921	0.30	ppb(v	67
30) Ethanol	7.346	45	10506	1.33	ppb(v	96
38) 2-Butanone	12.020	72	1861	0.18	ppb(v	87
42) Ethyl Acetate	11.702	61	3798	0.54	ppb(v	81
49) Benzene	12.516	78	8376	0.11	ppb(v	94
56) Trichloroethene	13.531	97	3551	0.14	ppb(v#	1
66) Toluene	16.070	91	19045	0.20	ppb(v	100

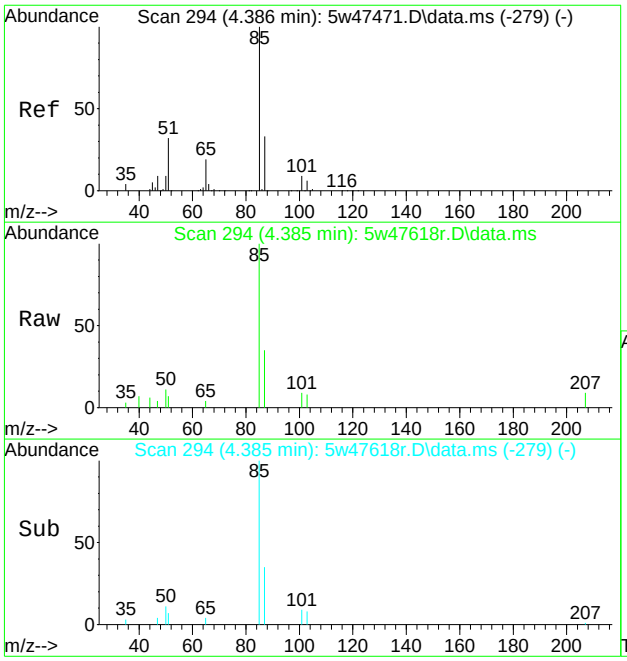
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47618r.D
Acq On : 27 Jan 2022 9:35 pm
Operator : thomash
Sample : jd38291-6r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 10:52:10 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

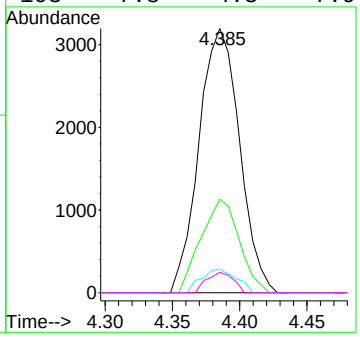


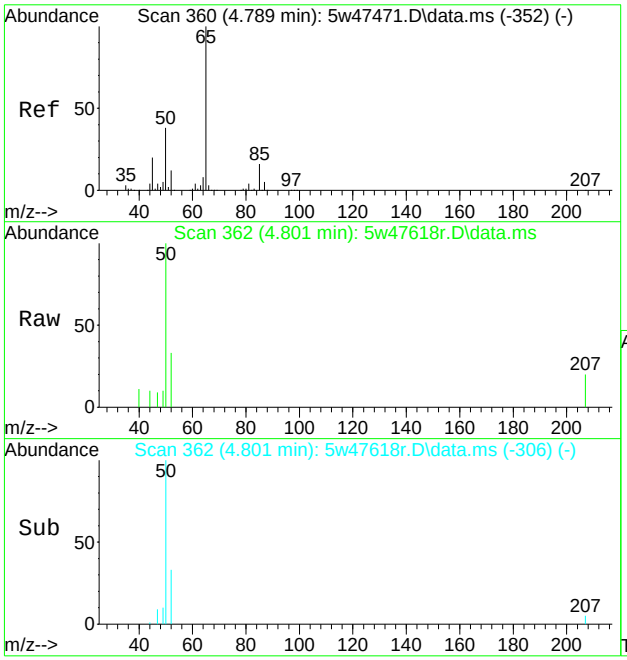


#6
Dichlorodifluoromethane
Concen: 0.10 ppb(v)
RT: 4.385 min Scan# 294
Delta R.T. -0.000 min
Lab File: 5w47618r.D
Acq: 27 Jan 2022 9:35 pm

Tgt Ion: 85 Resp: 6707

Ion	Ratio	Lower	Upper
85	100		
87	35.4	23.0	42.8
101	8.9	6.5	12.1
103	7.8	4.3	7.9

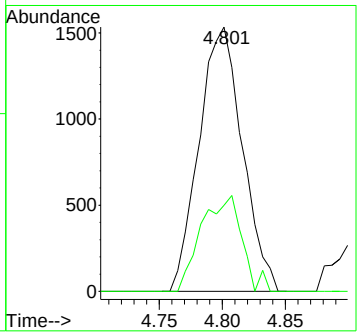


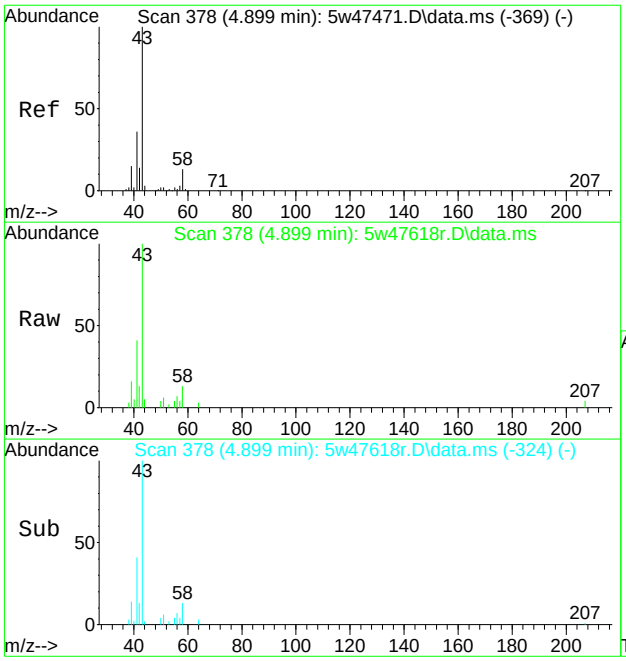


#8
Chloromethane
Concen: 0.23 ppb(v)
RT: 4.801 min Scan# 362
Delta R.T. 0.012 min
Lab File: 5w47618r.D
Acq: 27 Jan 2022 9:35 pm

Tgt Ion: 50 Resp: 3663

Ion	Ratio	Lower	Upper
50	100		
52	32.6	22.4	41.6

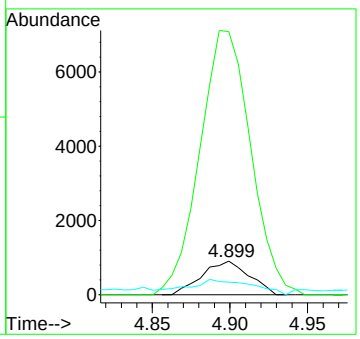


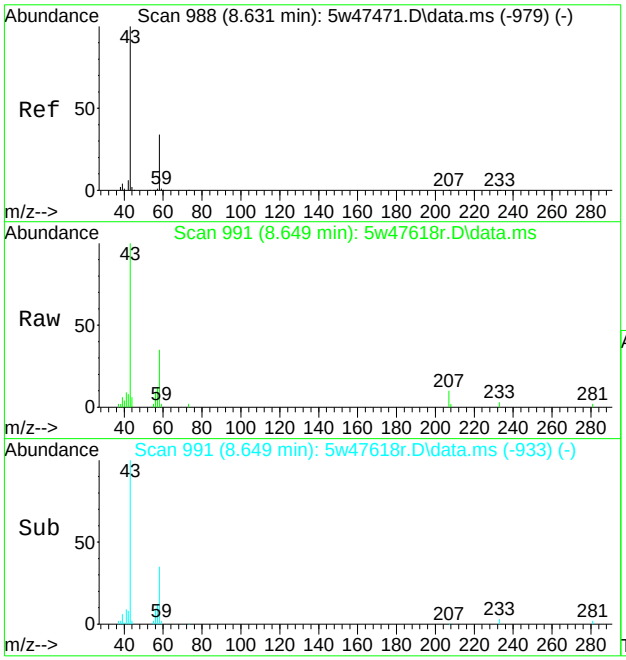


#12
n-Butane
Concen: 0.71 ppb(v)
RT: 4.899 min Scan# 378
Delta R.T. -0.000 min
Lab File: 5w47618r.D
Acq: 27 Jan 2022 9:35 pm

Tgt Ion: 58 Resp: 1914

Ion	Ratio	Lower	Upper
58	100		
43	784.6	547.0	1015.8
44	37.7	18.8	35.0#

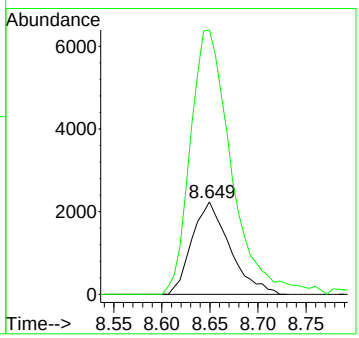


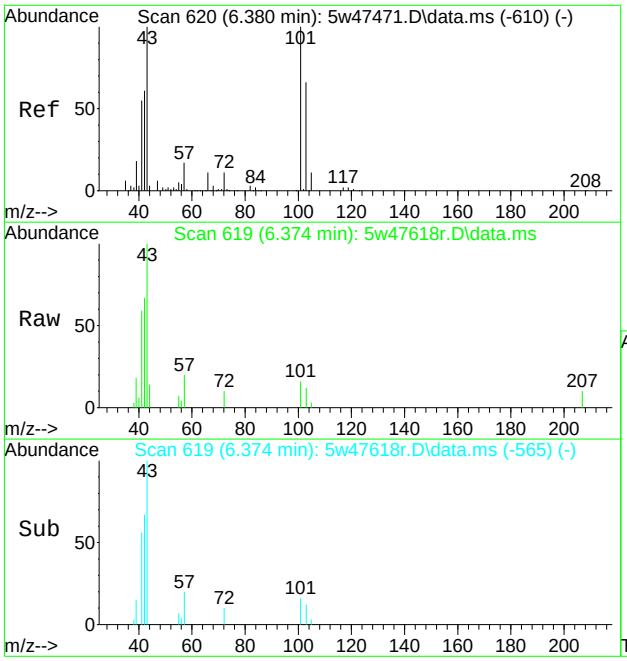


#22
Acetone
Concen: 0.64 ppb(v)
RT: 8.649 min Scan# 991
Delta R.T. 0.024 min
Lab File: 5w47618r.D
Acq: 27 Jan 2022 9:35 pm

Tgt Ion: 58 Resp: 6156

Ion	Ratio	Lower	Upper
58	100		
43	286.1	210.1	390.1

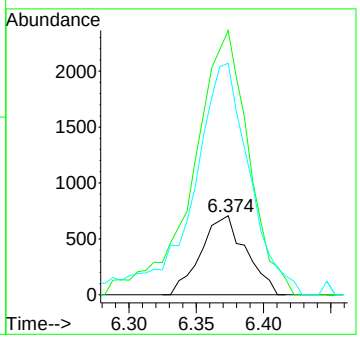


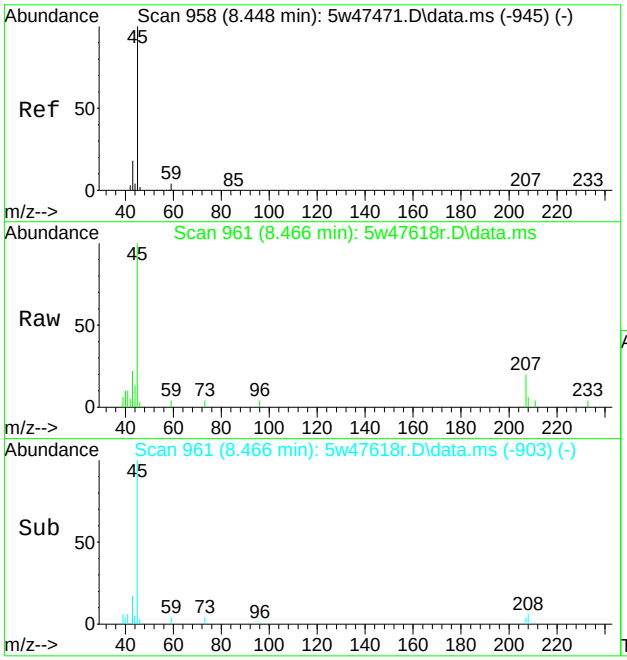


#23
Pentane
Concen: 0.30 ppb(v)
RT: 6.374 min Scan# 619
Delta R.T. -0.000 min
Lab File: 5w47618r.D
Acq: 27 Jan 2022 9:35 pm

Tgt Ion: 57 Resp: 1652

Ion	Ratio	Lower	Upper
57	100		
42	334.5	245.1	455.1
41	292.8	221.8	412.0

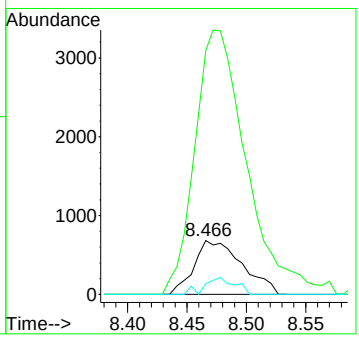


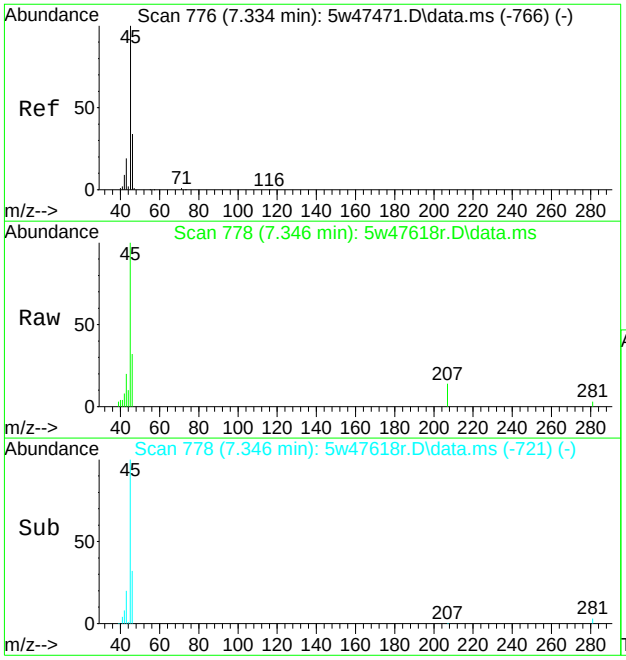


#25
Isopropyl Alcohol
Concen: 0.30 ppb(v)
RT: 8.466 min Scan# 961
Delta R.T. 0.024 min
Lab File: 5w47618r.D
Acq: 27 Jan 2022 9:35 pm

Tgt Ion: 43 Resp: 1921

Ion	Ratio	Lower	Upper
43	100		
45	452.9	387.0	718.6
59	19.9	17.4	32.2

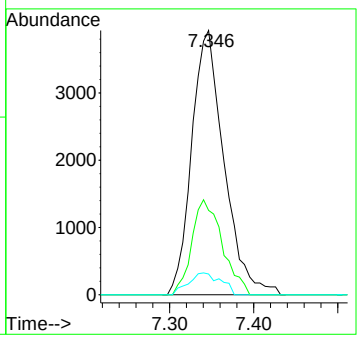


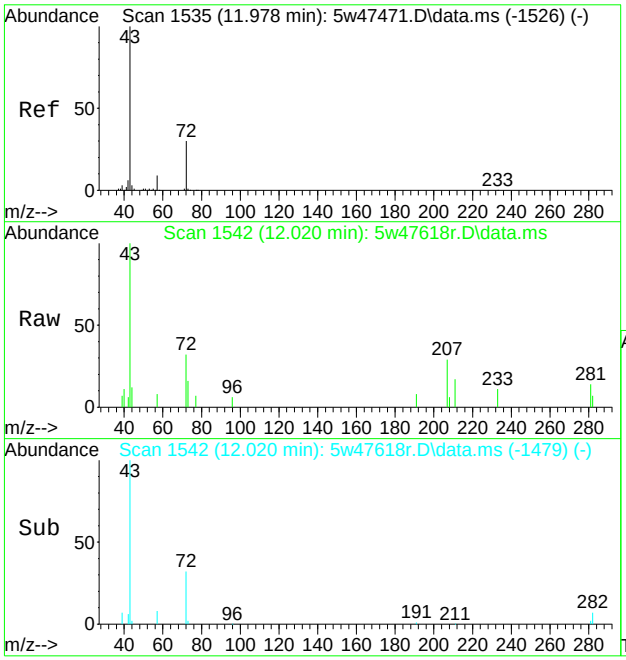


#30
Ethanol
Concen: 1.33 ppb(v)
RT: 7.346 min Scan# 778
Delta R.T. 0.018 min
Lab File: 5w47618r.D
Acq: 27 Jan 2022 9:35 pm

Tgt Ion: 45 Resp: 10506

Ion	Ratio	Lower	Upper
45	100		
46	31.9	23.9	44.5
42	7.8	6.1	11.3

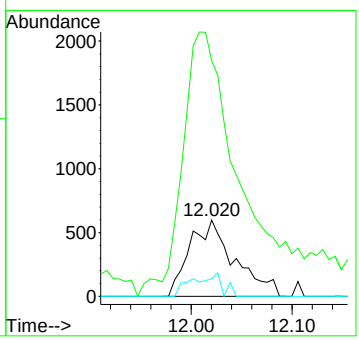


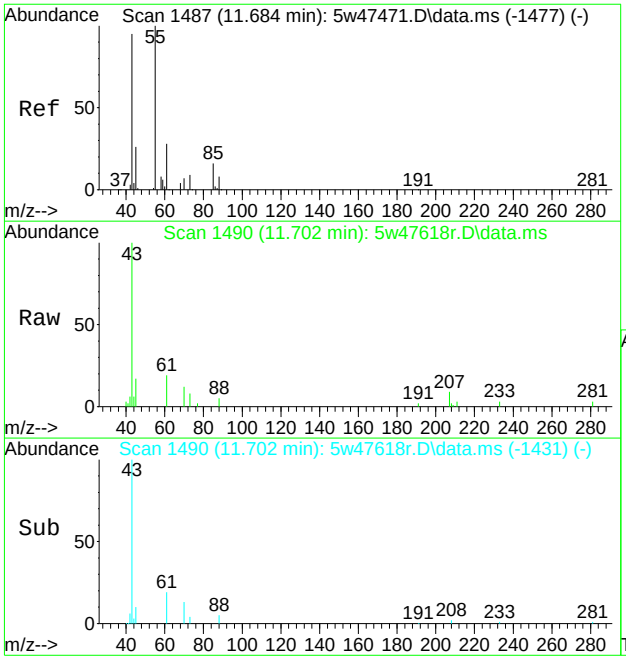


#38
2-Butanone
Concen: 0.18 ppb(v)
RT: 12.020 min Scan# 1542
Delta R.T. 0.055 min
Lab File: 5w47618r.D
Acq: 27 Jan 2022 9:35 pm

Tgt Ion: 72 Resp: 1861

Ion	Ratio	Lower	Upper
72	100		
43	308.7	236.3	438.9
57	23.4	20.6	38.2

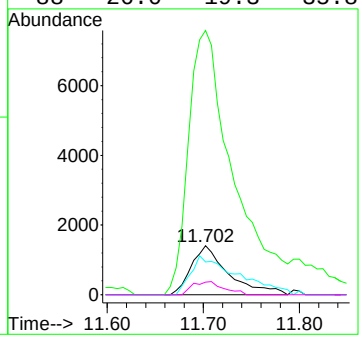


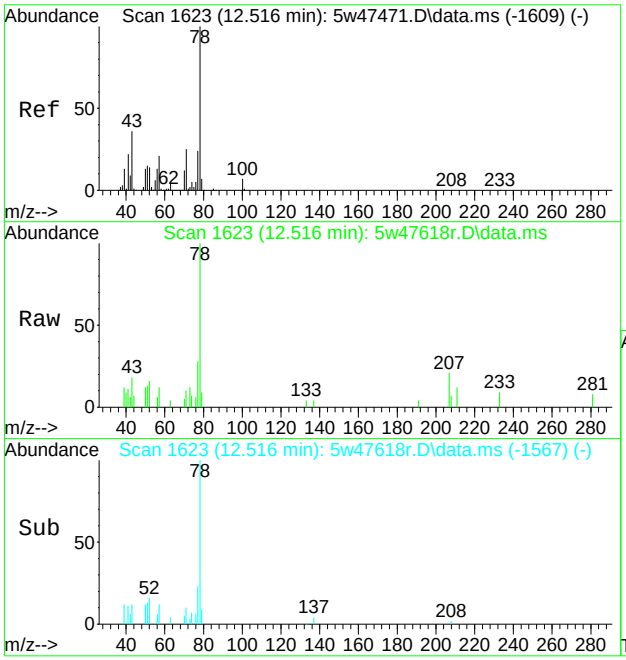


#42
Ethyl Acetate
Concen: 0.54 ppb(v)
RT: 11.702 min Scan# 1490
Delta R.T. 0.030 min
Lab File: 5w47618r.D
Acq: 27 Jan 2022 9:35 pm

Tgt Ion: 61 Resp: 3798

Ion	Ratio	Lower	Upper
61	100		
43	538.1	421.6	783.0
70	66.6	57.0	105.8
88	26.0	19.3	35.8

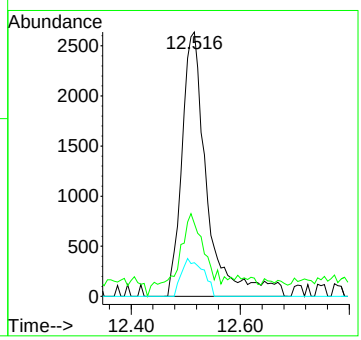


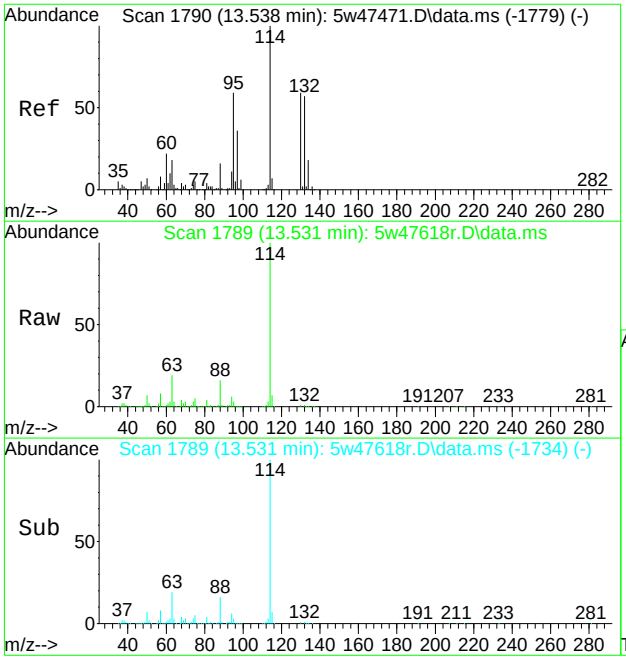


#49
Benzene
Concen: 0.11 ppb(v)
RT: 12.516 min Scan# 1623
Delta R.T. 0.012 min
Lab File: 5w47618r.D
Acq: 27 Jan 2022 9:35 pm

Tgt Ion: 78 Resp: 8376

Ion	Ratio	Lower	Upper
78	100		
77	27.5	16.7	31.1
51	12.7	10.1	18.9

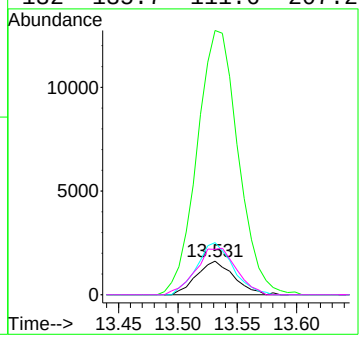


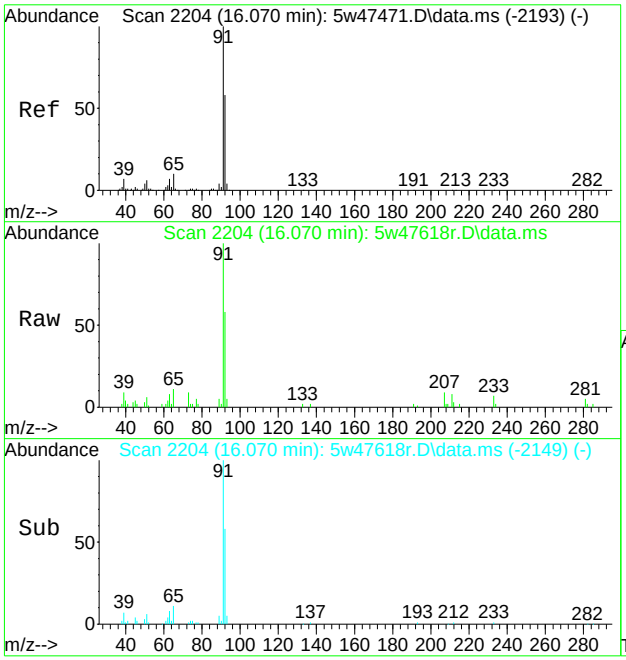


#56
Trichloroethene
Concen: 0.14 ppb(v)
RT: 13.531 min Scan# 1789
Delta R.T. 0.006 min
Lab File: 5w47618r.D
Acq: 27 Jan 2022 9:35 pm

Tgt Ion: 97 Resp: 3551

Ion	Ratio	Lower	Upper
97	100		
95	787.5	114.4	212.6#
130	155.7	115.1	213.8
132	135.7	111.6	207.2

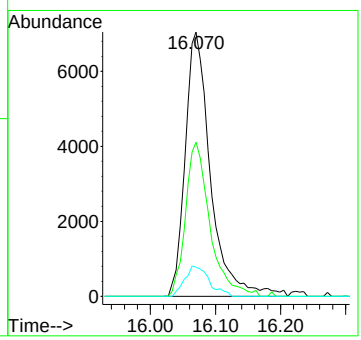




#66
Toluene
Concen: 0.20 ppb(v)
RT: 16.070 min Scan# 2204
Delta R.T. 0.006 min
Lab File: 5w47618r.D
Acq: 27 Jan 2022 9:35 pm

Tgt Ion: 91 Resp: 19045

Ion	Ratio	Lower	Upper
91	100		
92	58.3	40.9	75.9
65	11.1	7.3	13.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47619r.D
Acq On : 27 Jan 2022 10:24 pm
Operator : thomash
Sample : jd38291-7r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 28 10:53:40 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

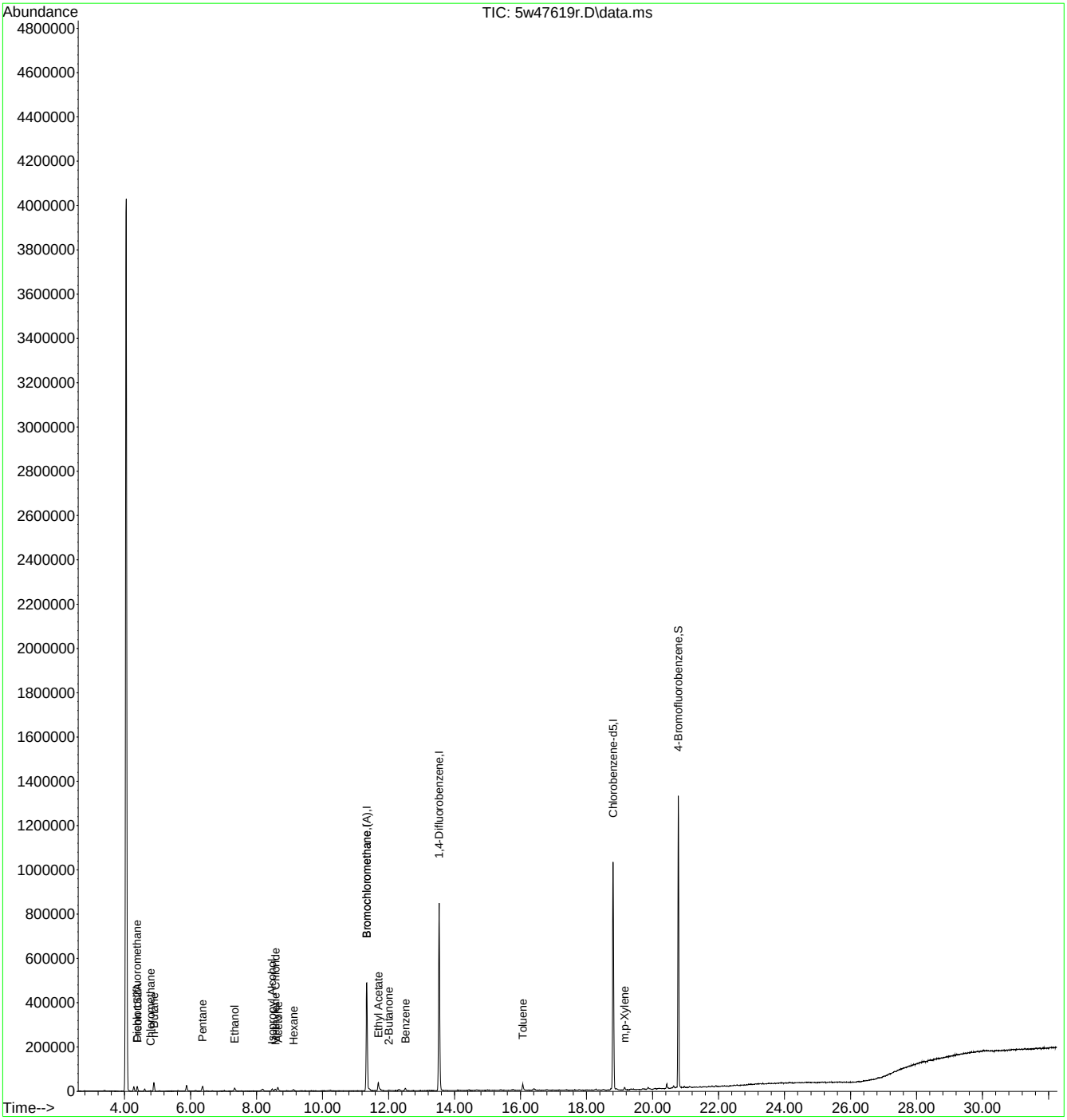
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	236895	10.00	ppb(v	# 0.00
53) 1,4-Difluorobenzene	13.531	114	929318	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	434565	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	236895	10.00	ppb(v	# 0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	511758	9.32	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 93.20%			
Target Compounds						Qvalue
2) Freon 152A	4.391	65	9869	0.85	ppb(v	96
6) Dichlorodifluoromethane	4.379	85	6889	0.11	ppb(v	98
8) Chloromethane	4.789	50	3555	0.22	ppb(v	100
12) n-Butane	4.893	58	5125	1.88	ppb(v	98
22) Acetone	8.649	58	7694	0.79	ppb(v	90
23) Pentane	6.361	57	3064	0.55	ppb(v	96
25) Isopropyl Alcohol	8.472	43	3024	0.46	ppb(v	96
28) Methylene Chloride	8.576	84	5141	0.21	ppb(v	93
30) Ethanol	7.340	45	21929	2.77	ppb(v	99
38) 2-Butanone	12.002	72	1749	0.17	ppb(v#	78
39) Hexane	9.120	56	2950	0.15	ppb(v	78
42) Ethyl Acetate	11.690	61	10493	1.48	ppb(v	93
49) Benzene	12.510	78	11046	0.14	ppb(v	96
66) Toluene	16.070	91	32294	0.33	ppb(v	97
79) m,p-Xylene	19.147	91	10865	0.12	ppb(v#	94

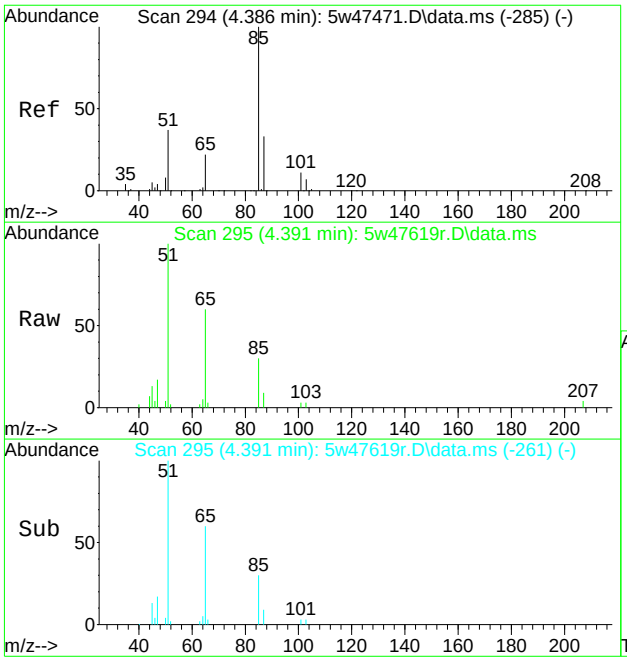
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47619r.D
Acq On : 27 Jan 2022 10:24 pm
Operator : thomash
Sample : jd38291-7r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 28 10:53:40 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

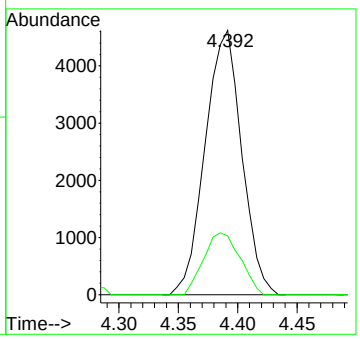


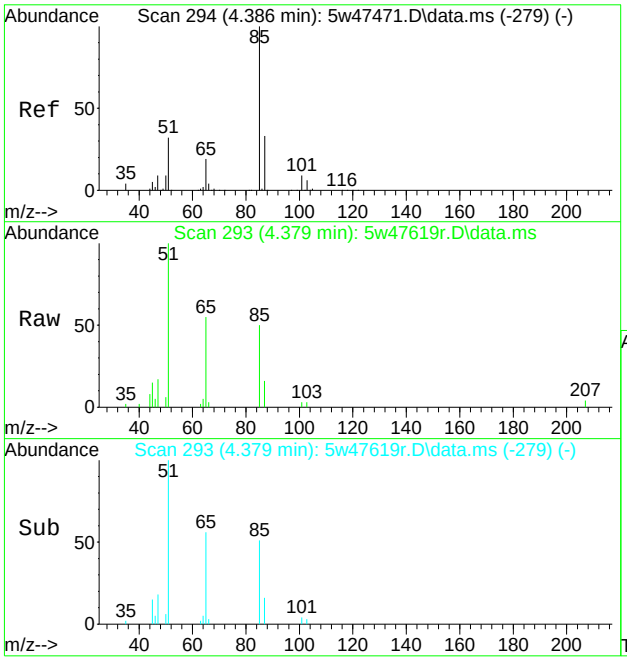


#2
Freon 152A
Concen: 0.85 ppb(v)
RT: 4.391 min Scan# 295
Delta R.T. 0.006 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 65 Resp: 9869

Ion	Ratio	Lower	Upper
65	100		
45	22.3	17.1	31.7

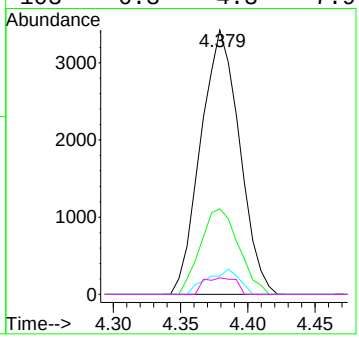


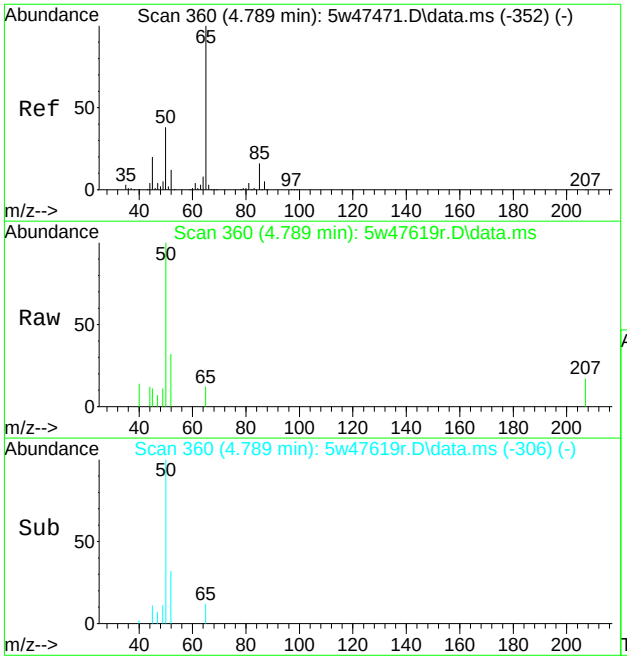


#6
Dichlorodifluoromethane
Concen: 0.11 ppb(v)
RT: 4.379 min Scan# 293
Delta R.T. -0.006 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 85 Resp: 6889

Ion	Ratio	Lower	Upper
85	100		
87	32.4	23.0	42.8
101	6.9	6.5	12.1
103	6.3	4.3	7.9

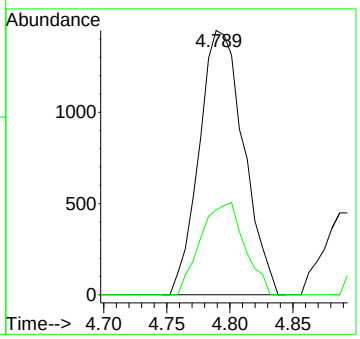


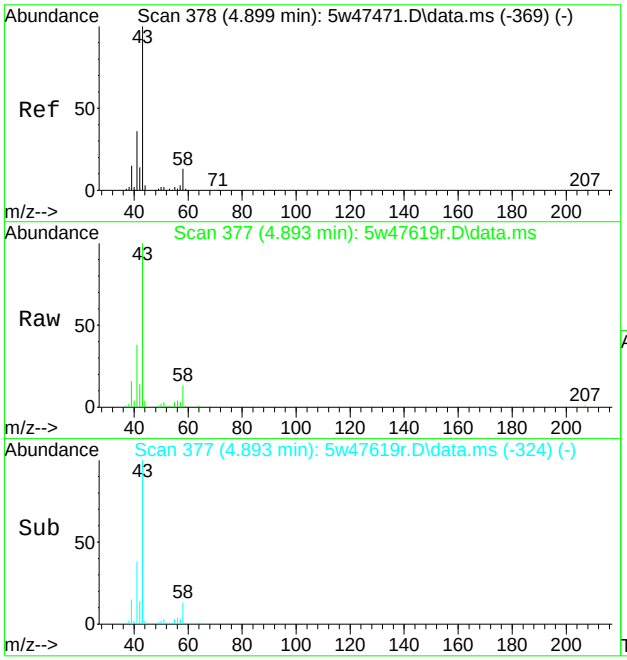


#8
Chloromethane
Concen: 0.22 ppb(v)
RT: 4.789 min Scan# 360
Delta R.T. -0.000 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 50 Resp: 3555

Ion	Ratio	Lower	Upper
50	100		
52	32.1	22.4	41.6

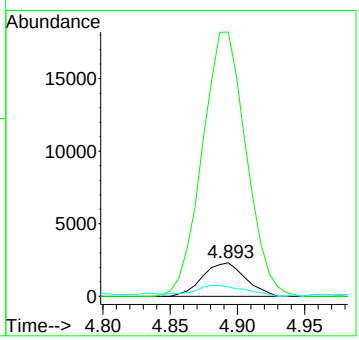


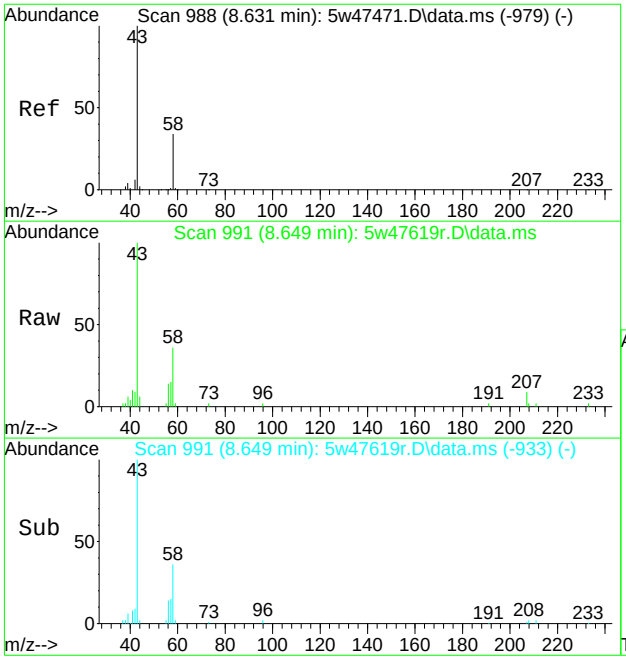


#12
n-Butane
Concen: 1.88 ppb(v)
RT: 4.893 min Scan# 377
Delta R.T. -0.006 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 58 Resp: 5125

Ion	Ratio	Lower	Upper
58	100		
43	787.5	547.0	1015.8
44	28.7	18.8	35.0

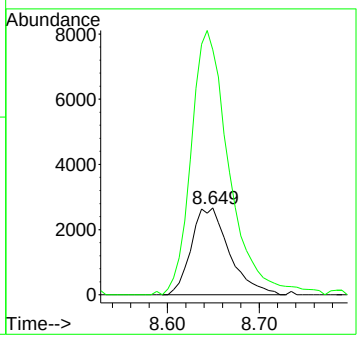


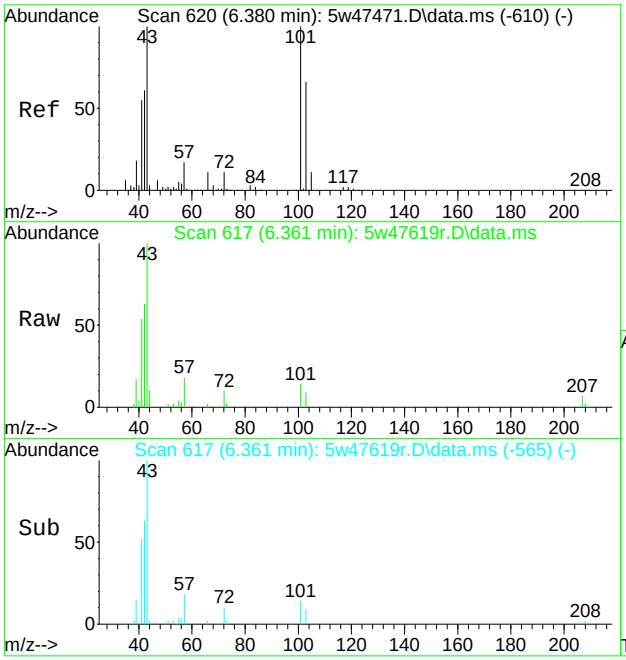


#22
Acetone
Concen: 0.79 ppb(v)
RT: 8.649 min Scan# 991
Delta R.T. 0.024 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 58 Resp: 7694

Ion	Ratio	Lower	Upper
58	100		
43	281.3	210.1	390.1

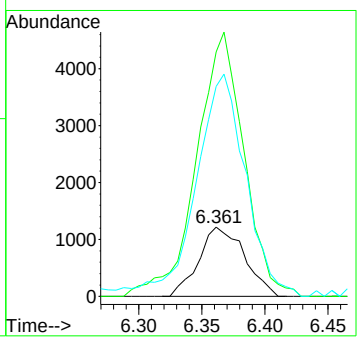


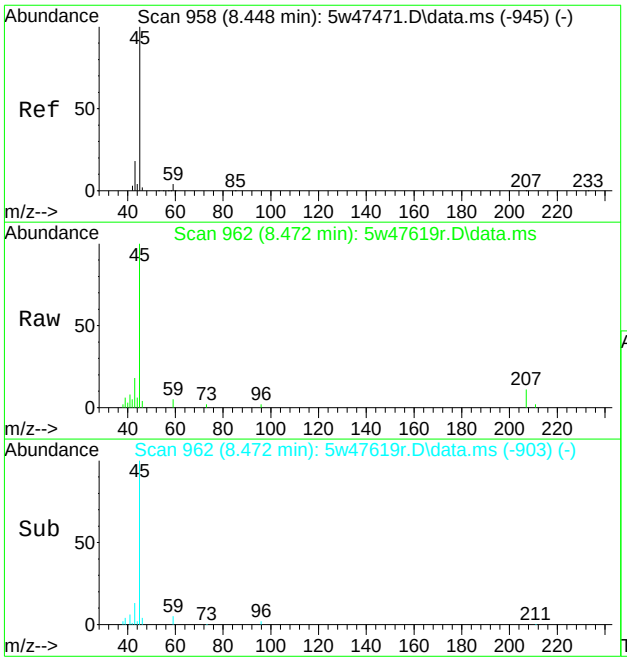


#23
Pentane
Concen: 0.55 ppb(v)
RT: 6.361 min Scan# 617
Delta R.T. -0.012 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 57 Resp: 3064

Ion	Ratio	Lower	Upper
57	100		
42	353.0	245.1	455.1
41	303.4	221.8	412.0

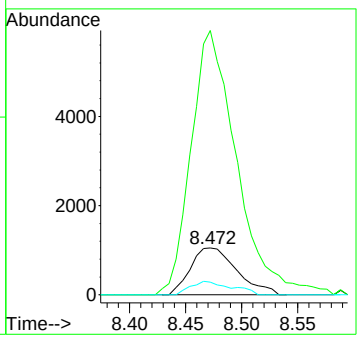


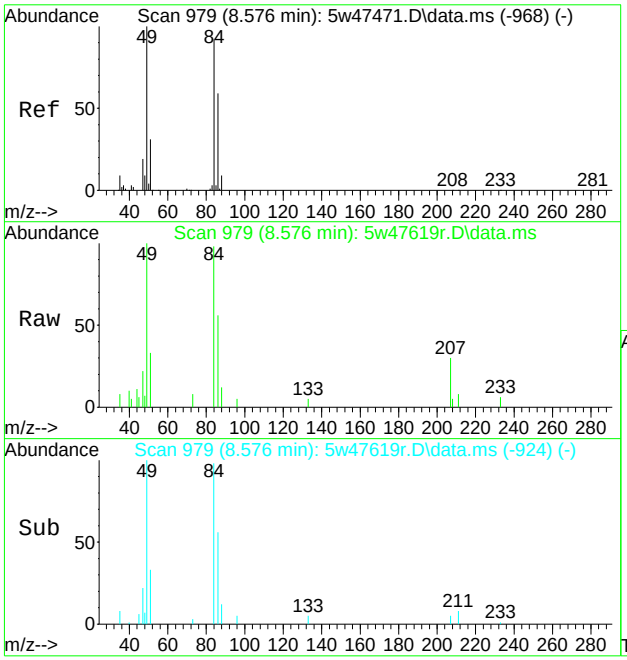


#25
Isopropyl Alcohol
Concen: 0.46 ppb(v)
RT: 8.472 min Scan# 962
Delta R.T. 0.031 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 43 Resp: 3024

Ion	Ratio	Lower	Upper
43	100		
45	565.3	387.0	718.6
59	26.9	17.4	32.2

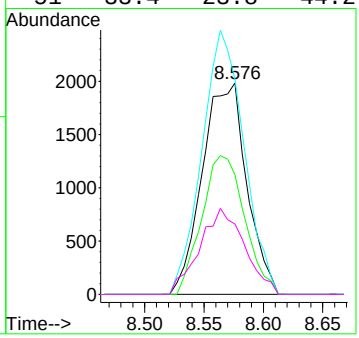


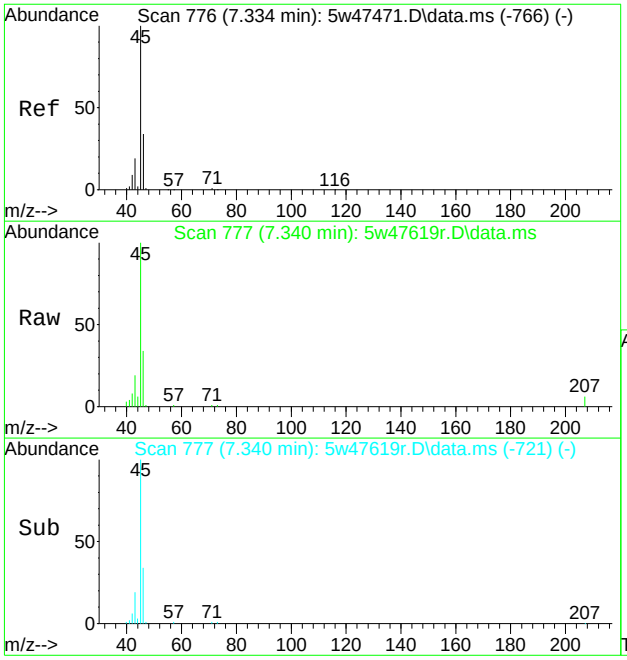


#28
Methylene Chloride
Concen: 0.21 ppb(v)
RT: 8.576 min Scan# 979
Delta R.T. 0.006 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 84 Resp: 5141

Ion	Ratio	Lower	Upper
84	100		
86	56.7	44.7	83.1
49	101.8	76.2	141.6
51	33.4	23.8	44.2

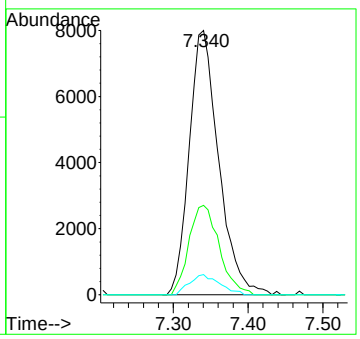


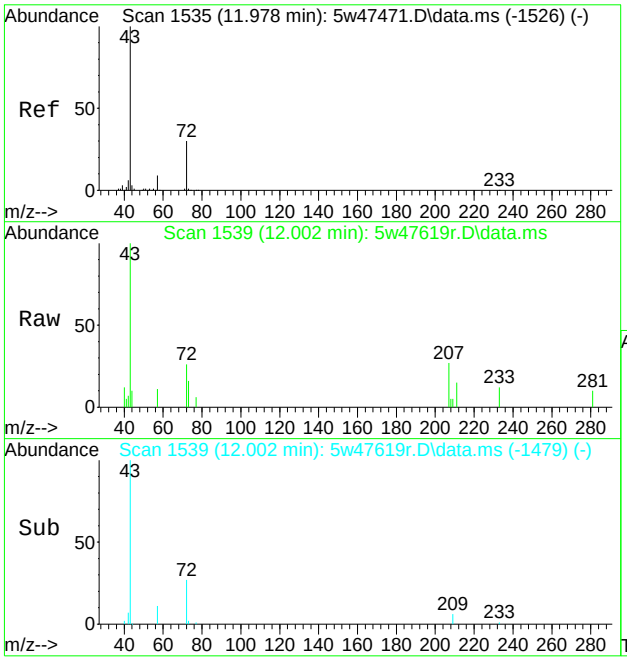


#30
Ethanol
Concen: 2.77 ppb(v)
RT: 7.340 min Scan# 777
Delta R.T. 0.012 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 45 Resp: 21929

Ion	Ratio	Lower	Upper
45	100		
46	33.8	23.9	44.5
42	7.6	6.1	11.3

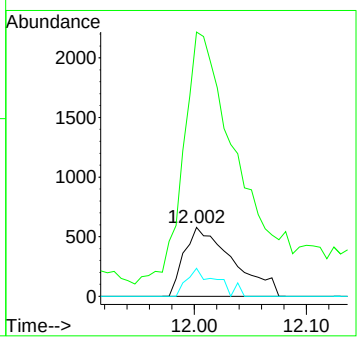


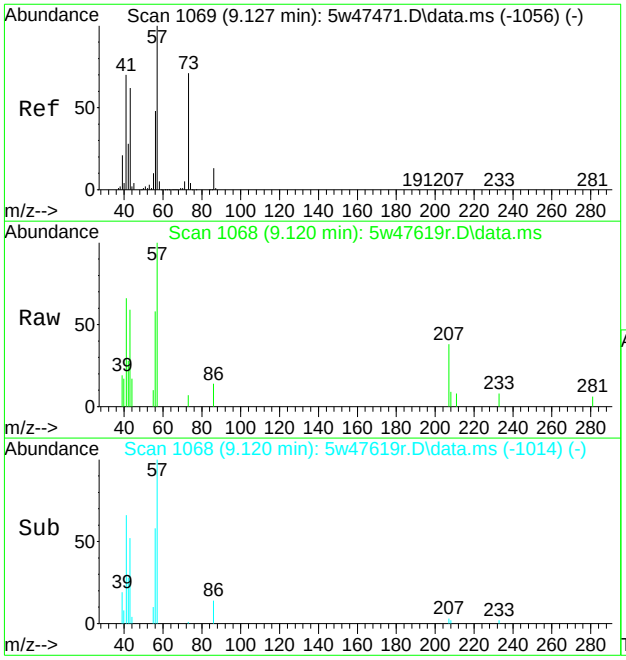


#38
2-Butanone
Concen: 0.17 ppb(v)
RT: 12.002 min Scan# 1539
Delta R.T. 0.037 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 72 Resp: 1749

Ion	Ratio	Lower	Upper
72	100		
43	383.7	236.3	438.9
57	40.7	20.6	38.2#

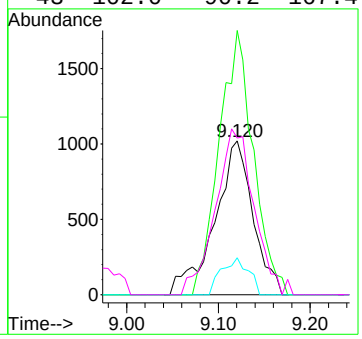


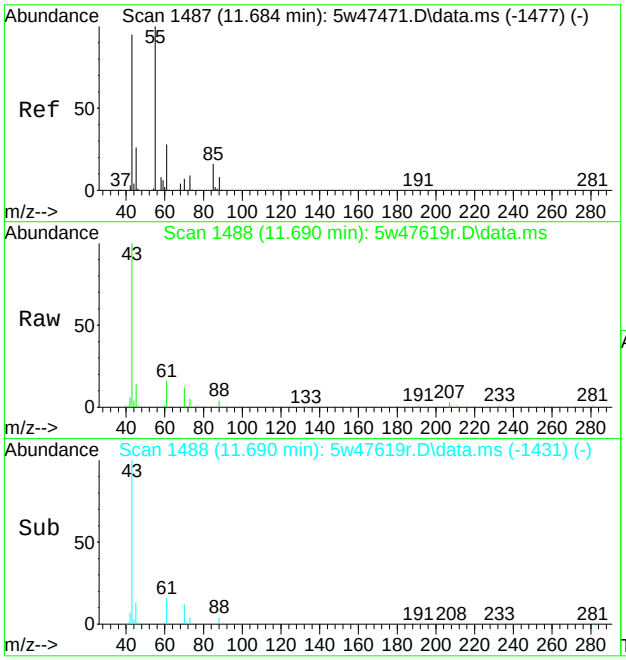


#39
Hexane
Concen: 0.15 ppb(v)
RT: 9.120 min Scan# 1068
Delta R.T. -0.000 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 56 Resp: 2950

Ion	Ratio	Lower	Upper
56	100		
57	172.0	146.2	271.4
86	24.1	18.6	34.6
43	102.0	90.2	167.4

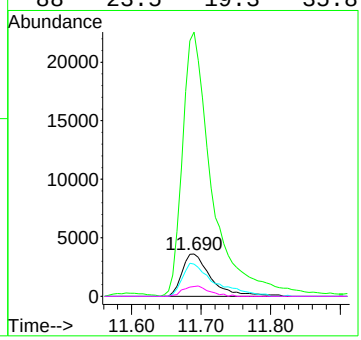


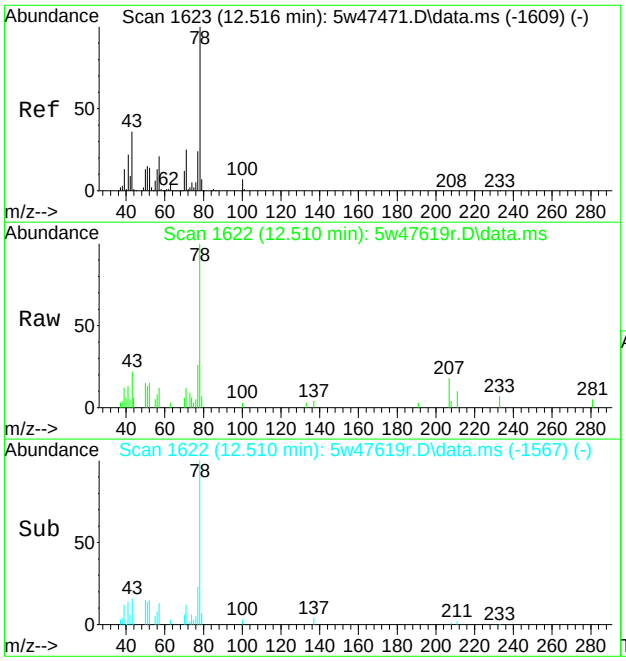


#42
Ethyl Acetate
Concen: 1.48 ppb(v)
RT: 11.690 min Scan# 1488
Delta R.T. 0.018 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 61 Resp: 10493

Ion	Ratio	Lower	Upper
61	100		
43	624.4	421.6	783.0
70	76.1	57.0	105.8
88	23.5	19.3	35.8

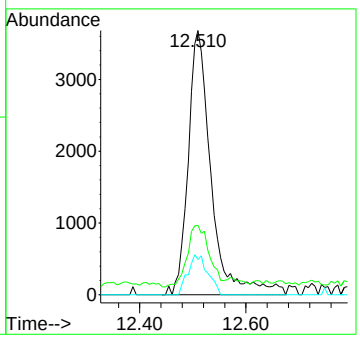


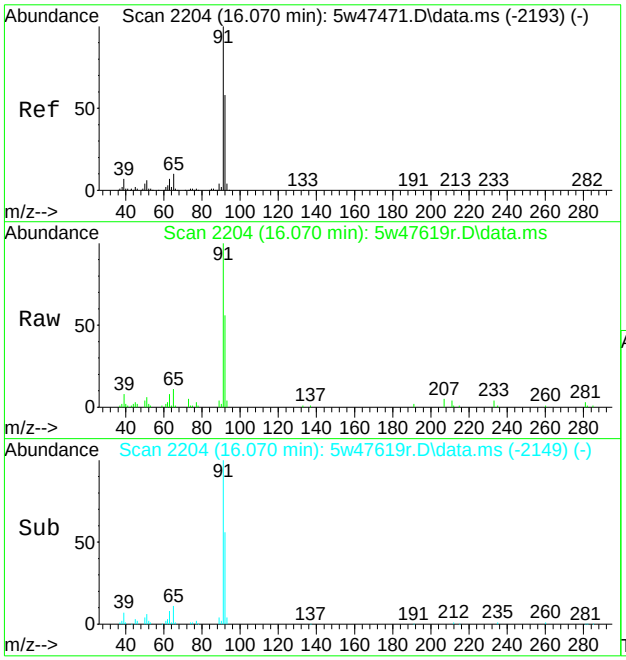


#49
Benzene
Concen: 0.14 ppb(v)
RT: 12.510 min Scan# 1622
Delta R.T. 0.006 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 78 Resp: 11046

Ion	Ratio	Lower	Upper
78	100		
77	26.3	16.7	31.1
51	13.4	10.1	18.9

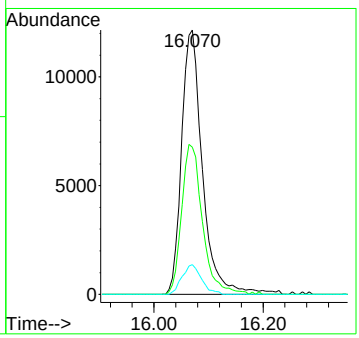


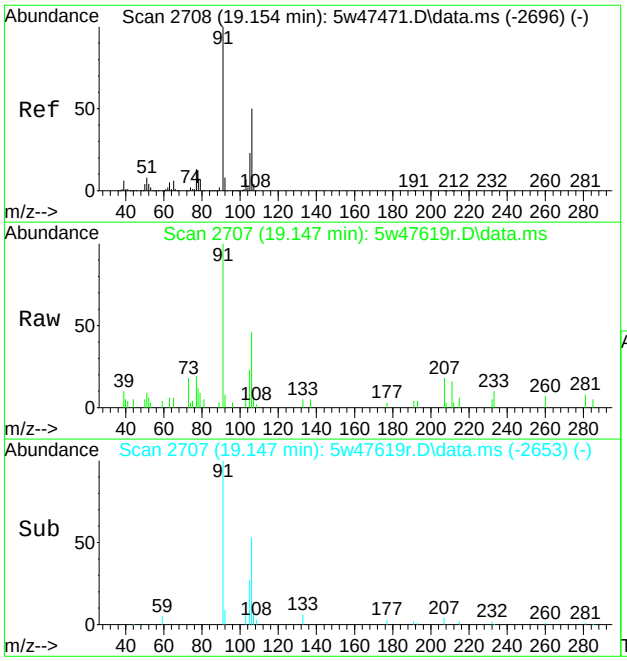


#66
Toluene
Concen: 0.33 ppb(v)
RT: 16.070 min Scan# 2204
Delta R.T. 0.006 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 91 Resp: 32294

Ion	Ratio	Lower	Upper
91	100		
92	55.7	40.9	75.9
65	11.3	7.3	13.5

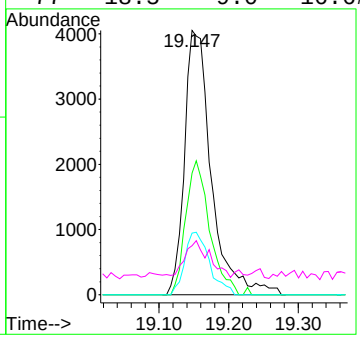




#79
m,p-Xylene
Concen: 0.12 ppb(v)
RT: 19.147 min Scan# 2707
Delta R.T. -0.000 min
Lab File: 5w47619r.D
Acq: 27 Jan 2022 10:24 pm

Tgt Ion: 91 Resp: 10865

Ion	Ratio	Lower	Upper
91	100		
106	46.0	35.3	65.5
105	23.3	15.9	29.5
77	18.5	9.0	16.6#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47620r.D
Acq On : 27 Jan 2022 11:13 pm
Operator : thomash
Sample : jd38291-8r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 28 10:55:01 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

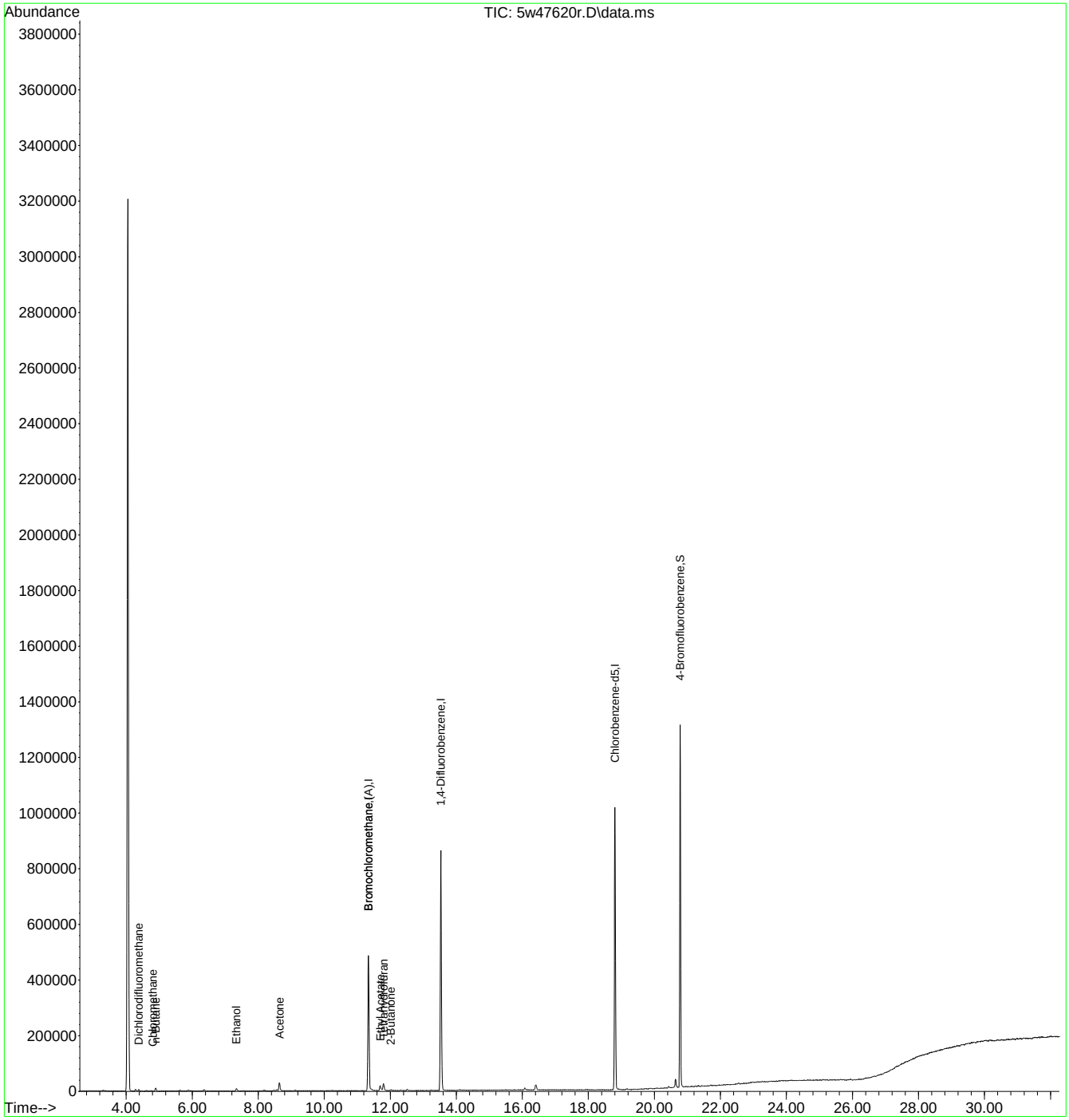
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	11.341	130	235999	10.00 ppb(v	# 0.00
53) 1,4-Difluorobenzene	13.531	114	927197	10.00 ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	423789	10.00 ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	235999	10.00 ppb(v	# 0.00
System Monitoring Compounds					
90) 4-Bromofluorobenzene	20.781	95	501879	9.37 ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 93.70%		
Target Compounds					Qvalue
6) Dichlorodifluoromethane	4.379	85	7497	0.12 ppb(v	98
8) Chloromethane	4.802	50	1758	0.11 ppb(v	98
12) n-Butane	4.893	58	693	0.26 ppb(v#	65
22) Acetone	8.643	58	16625	1.72 ppb(v	92
30) Ethanol	7.340	45	13882	1.76 ppb(v	90
38) 2-Butanone	12.014	72	1590	0.16 ppb(v	88
42) Ethyl Acetate	11.696	61	5388	0.76 ppb(v	87
46) Tetrahydrofuran	11.794	72	9119	0.86 ppb(v	91

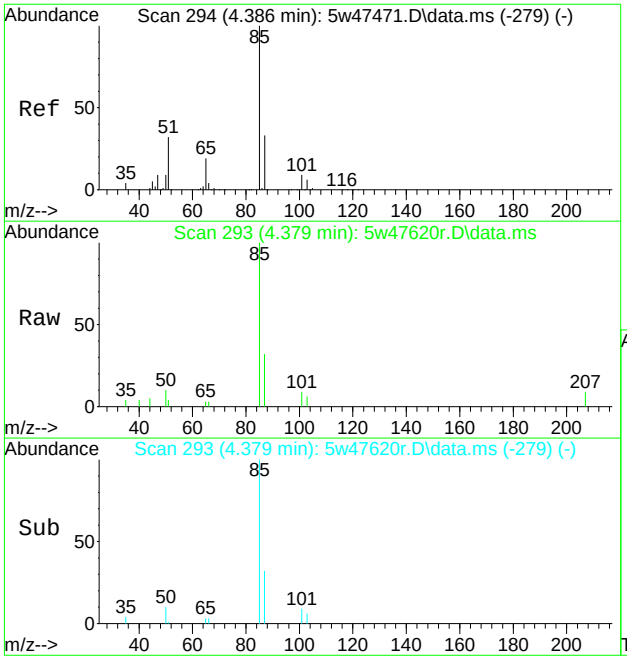
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47620r.D
Acq On : 27 Jan 2022 11:13 pm
Operator : thomash
Sample : jd38291-8r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 28 10:55:01 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

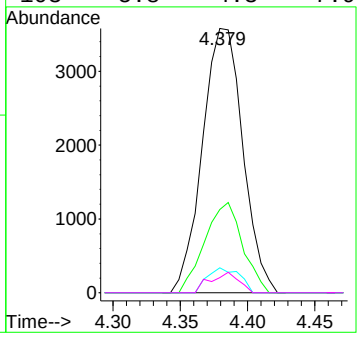


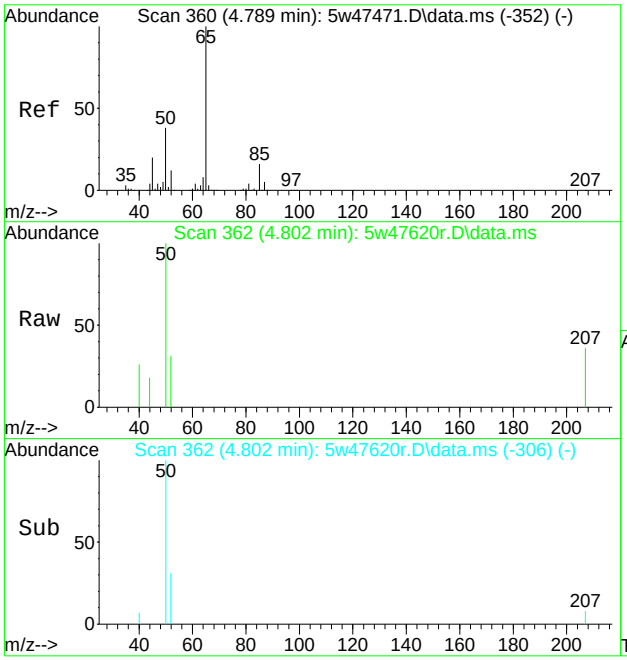


#6
Dichlorodifluoromethane
Concen: 0.12 ppb(v)
RT: 4.379 min Scan# 293
Delta R.T. -0.006 min
Lab File: 5w47620r.D
Acq: 27 Jan 2022 11:13 pm

Tgt Ion: 85 Resp: 7497

Ion	Ratio	Lower	Upper
85	100		
87	31.5	23.0	42.8
101	9.4	6.5	12.1
103	5.8	4.3	7.9

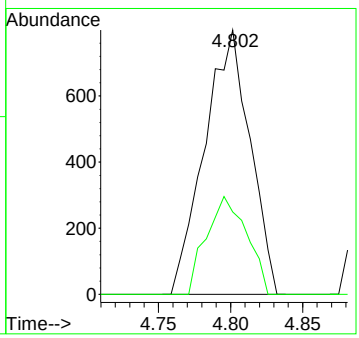


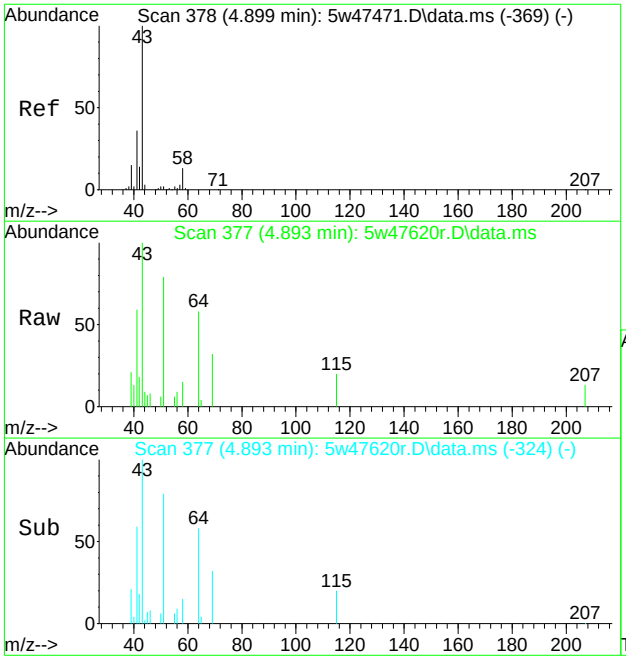


#8
Chloromethane
Concen: 0.11 ppb(v)
RT: 4.802 min Scan# 362
Delta R.T. 0.012 min
Lab File: 5w47620r.D
Acq: 27 Jan 2022 11:13 pm

Tgt Ion: 50 Resp: 1758

Ion	Ratio	Lower	Upper
50	100		
52	31.1	22.4	41.6

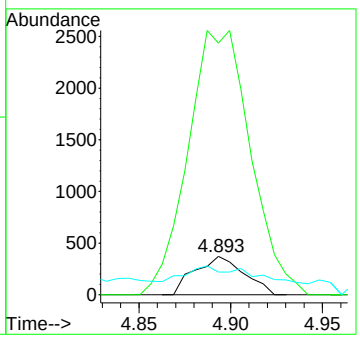


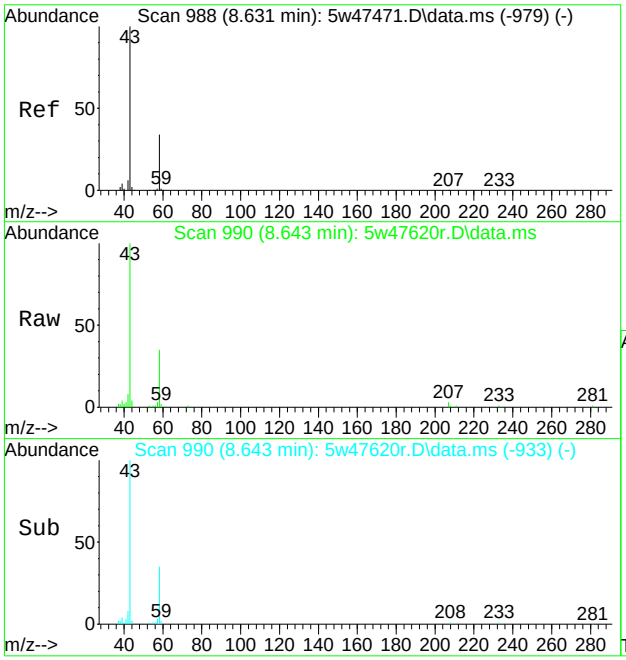


#12
n-Butane
Concen: 0.26 ppb(v)
RT: 4.893 min Scan# 377
Delta R.T. -0.006 min
Lab File: 5w47620r.D
Acq: 27 Jan 2022 11:13 pm

Tgt Ion: 58 Resp: 693

Ion	Ratio	Lower	Upper
58	100		
43	652.8	547.0	1015.8
44	59.0	18.8	35.0#

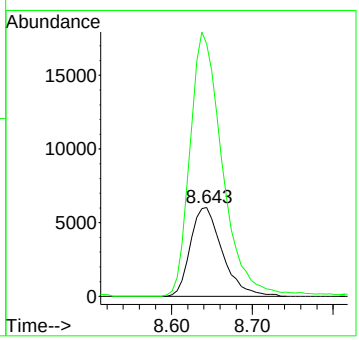


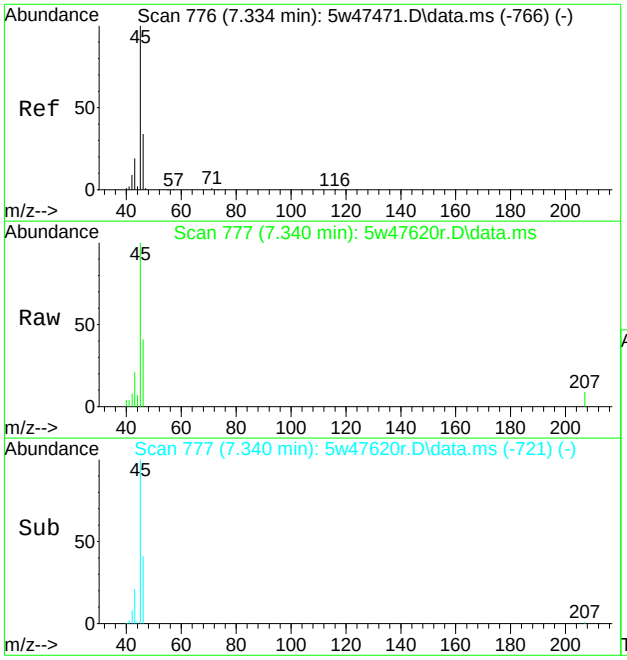


#22
Acetone
Concen: 1.72 ppb(v)
RT: 8.643 min Scan# 990
Delta R.T. 0.018 min
Lab File: 5w47620r.D
Acq: 27 Jan 2022 11:13 pm

Tgt Ion: 58 Resp: 16625

Ion	Ratio	Lower	Upper
58	100		
43	284.5	210.1	390.1

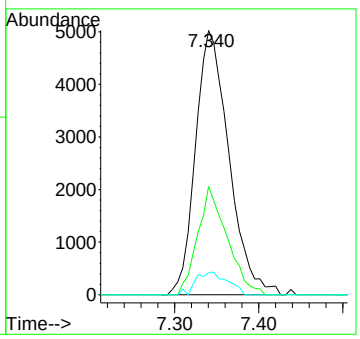


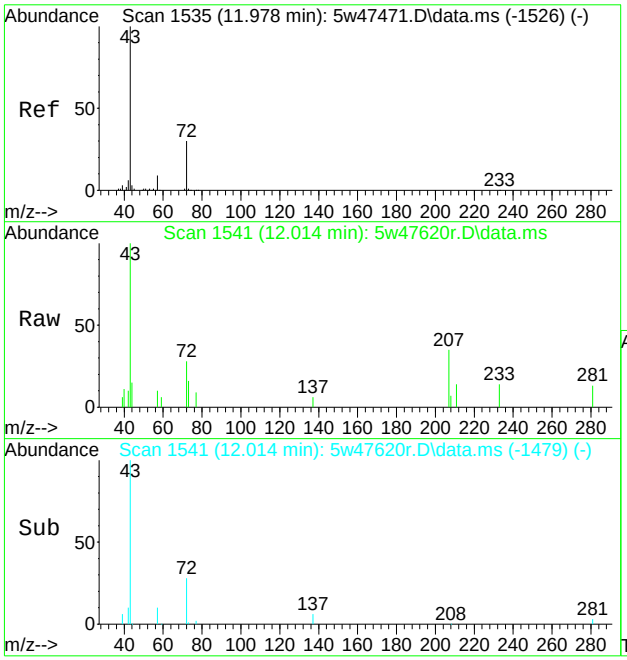


#30
Ethanol
Concen: 1.76 ppb(v)
RT: 7.340 min Scan# 777
Delta R.T. 0.012 min
Lab File: 5w47620r.D
Acq: 27 Jan 2022 11:13 pm

Tgt Ion: 45 Resp: 13882

Ion	Ratio	Lower	Upper
45	100		
46	41.0	23.9	44.5
42	8.4	6.1	11.3

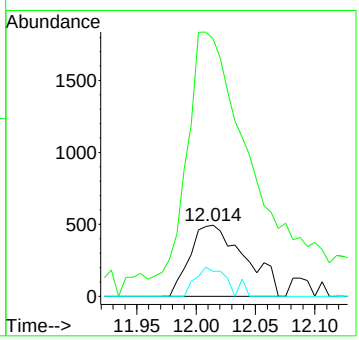


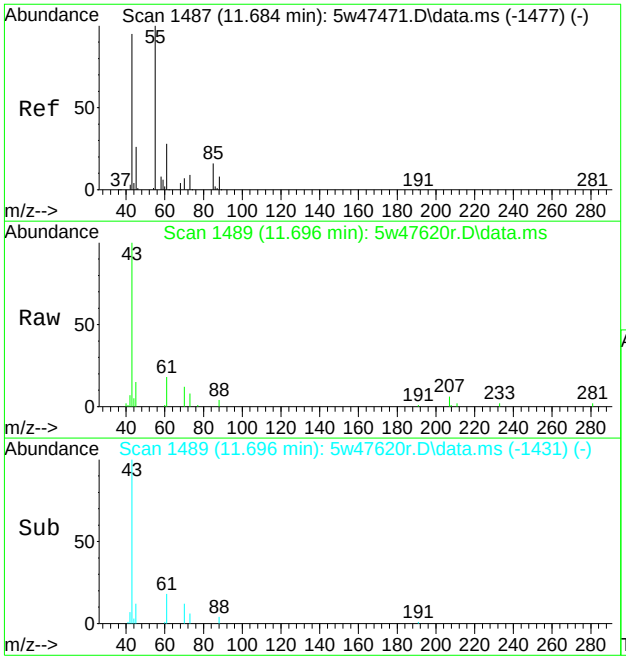


#38
2-Butanone
Concen: 0.16 ppb(v)
RT: 12.014 min Scan# 1541
Delta R.T. 0.049 min
Lab File: 5w47620r.D
Acq: 27 Jan 2022 11:13 pm

Tgt Ion: 72 Resp: 1590

Ion	Ratio	Lower	Upper
72	100		
43	362.3	236.3	438.9
57	35.2	20.6	38.2

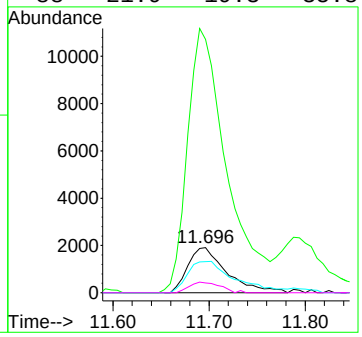


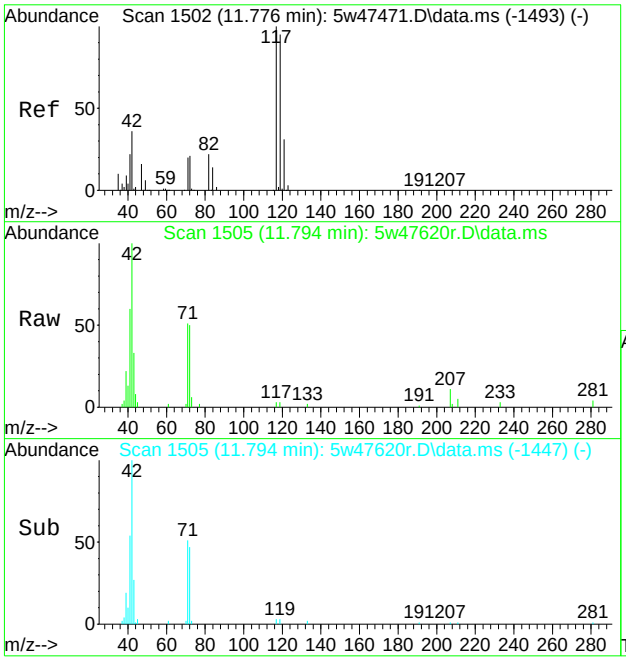


#42
Ethyl Acetate
Concen: 0.76 ppb(v)
RT: 11.696 min Scan# 1489
Delta R.T. 0.025 min
Lab File: 5w47620r.D
Acq: 27 Jan 2022 11:13 pm

Tgt Ion: 61 Resp: 5388

Ion	Ratio	Lower	Upper
61	100		
43	561.5	421.6	783.0
70	68.9	57.0	105.8
88	21.9	19.3	35.8

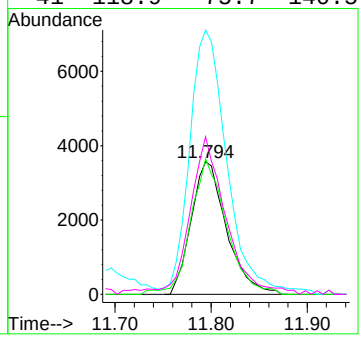




#46
Tetrahydrofuran
Concen: 0.86 ppb(v)
RT: 11.794 min Scan# 1505
Delta R.T. 0.025 min
Lab File: 5w47620r.D
Acq: 27 Jan 2022 11:13 pm

Tgt Ion: 72 Resp: 9119

Ion	Ratio	Lower	Upper
72	100		
71	102.4	68.7	127.5
42	199.4	128.2	238.2
41	118.9	75.7	140.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47621r.D
Acq On : 28 Jan 2022 12:02 am
Operator : thomash
Sample : jd38291-9r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 28 10:56:26 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

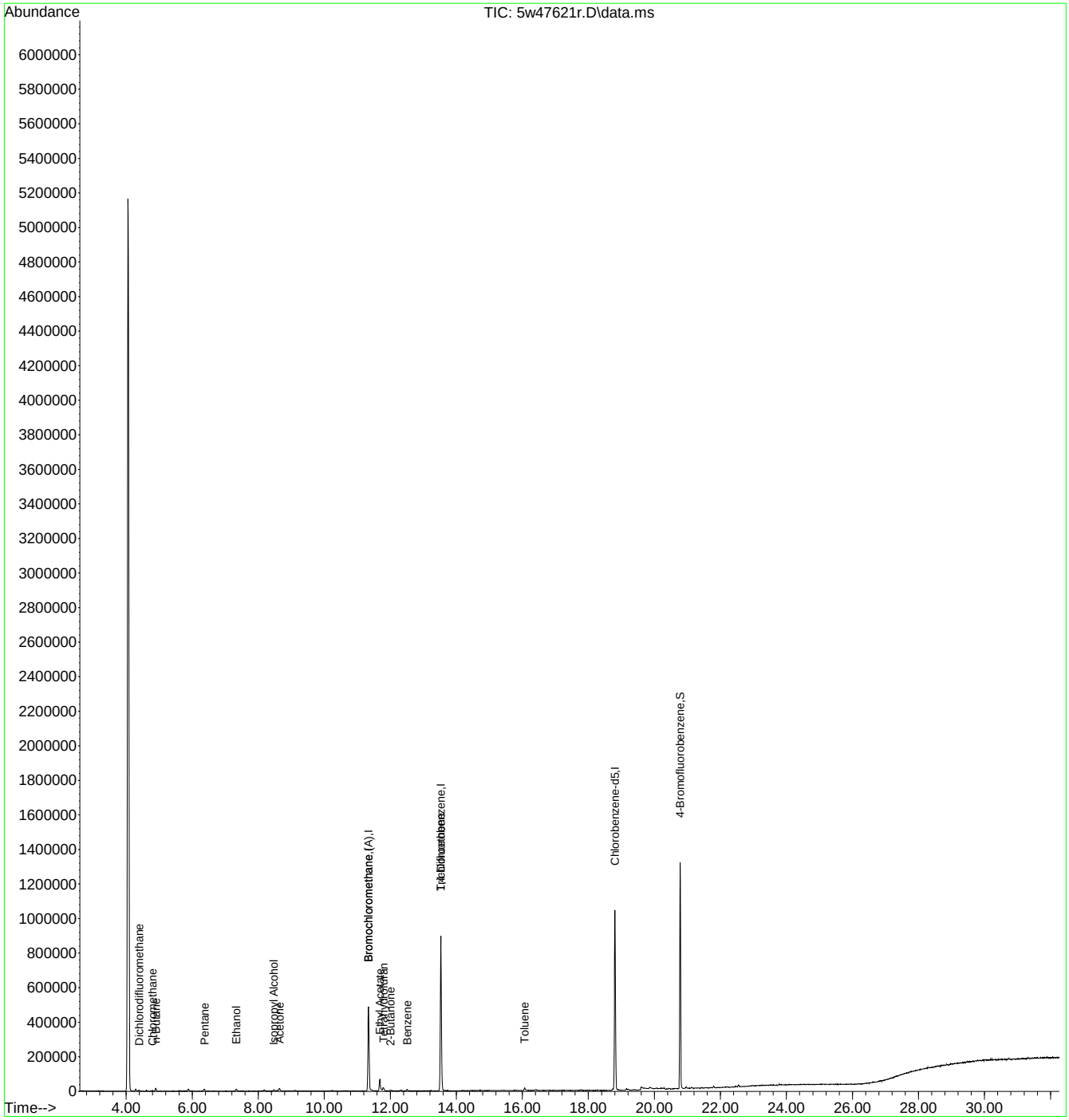
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	11.341	130	234026	10.00 ppb(v	# 0.00
53) 1,4-Difluorobenzene	13.531	114	934407	10.00 ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	432842	10.00 ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	234026	10.00 ppb(v	# 0.00
System Monitoring Compounds					
90) 4-Bromofluorobenzene	20.781	95	511118	9.35 ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 93.50%		
Target Compounds					Qvalue
6) Dichlorodifluoromethane	4.391	85	6930	0.11 ppb(v	98
8) Chloromethane	4.795	50	5474	0.34 ppb(v	98
12) n-Butane	4.899	58	1641	0.61 ppb(v#	96
22) Acetone	8.643	58	7969	0.83 ppb(v	97
23) Pentane	6.374	57	1551	0.28 ppb(v	90
25) Isopropyl Alcohol	8.466	43	2419	0.38 ppb(v	99
30) Ethanol	7.334	45	18860	2.41 ppb(v	98
38) 2-Butanone	12.002	72	2361	0.24 ppb(v	96
42) Ethyl Acetate	11.684	61	17880	2.56 ppb(v	96
46) Tetrahydrofuran	11.794	72	6957	0.66 ppb(v	94
49) Benzene	12.510	78	8652	0.11 ppb(v	95
56) Trichloroethene	13.531	97	9021	0.36 ppb(v#	24
66) Toluene	16.070	91	18793	0.19 ppb(v	97

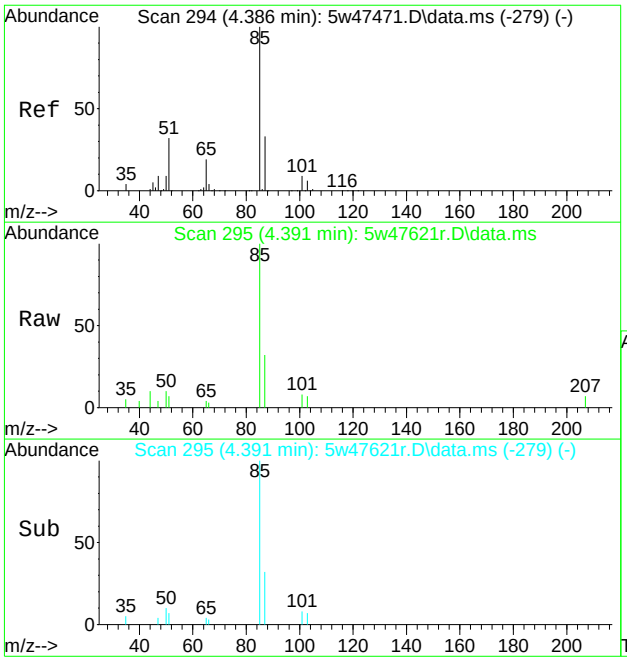
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47621r.D
Acq On : 28 Jan 2022 12:02 am
Operator : thomash
Sample : jd38291-9r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 28 10:56:26 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

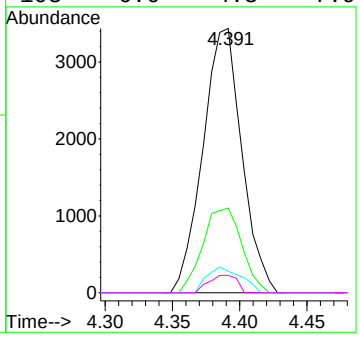


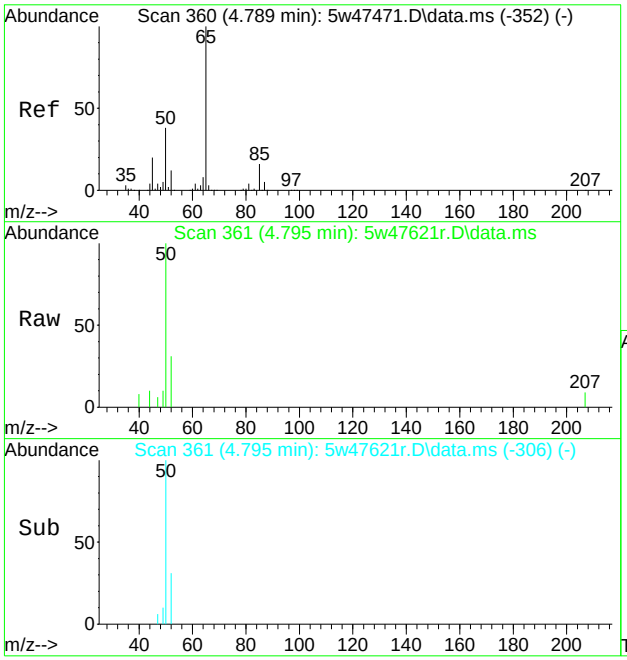


#6
Dichlorodifluoromethane
Concen: 0.11 ppb(v)
RT: 4.391 min Scan# 295
Delta R.T. 0.006 min
Lab File: 5w47621r.D
Acq: 28 Jan 2022 12:02 am

Tgt Ion: 85 Resp: 6930

Ion	Ratio	Lower	Upper
85	100		
87	32.1	23.0	42.8
101	8.2	6.5	12.1
103	6.6	4.3	7.9

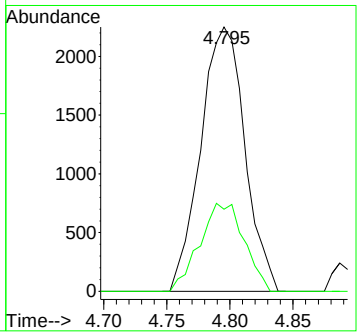


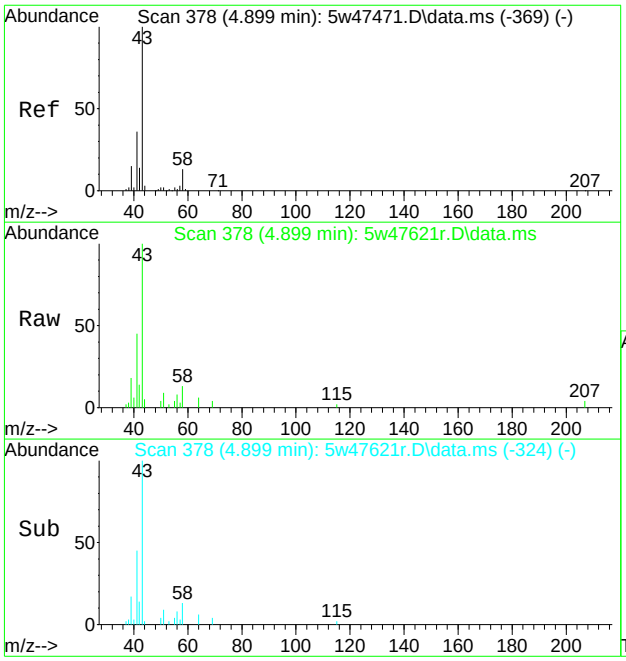


#8
Chloromethane
Concen: 0.34 ppb(v)
RT: 4.795 min Scan# 361
Delta R.T. 0.006 min
Lab File: 5w47621r.D
Acq: 28 Jan 2022 12:02 am

Tgt Ion: 50 Resp: 5474

Ion	Ratio	Lower	Upper
50	100		
52	31.0	22.4	41.6

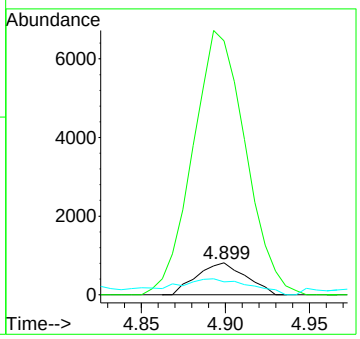


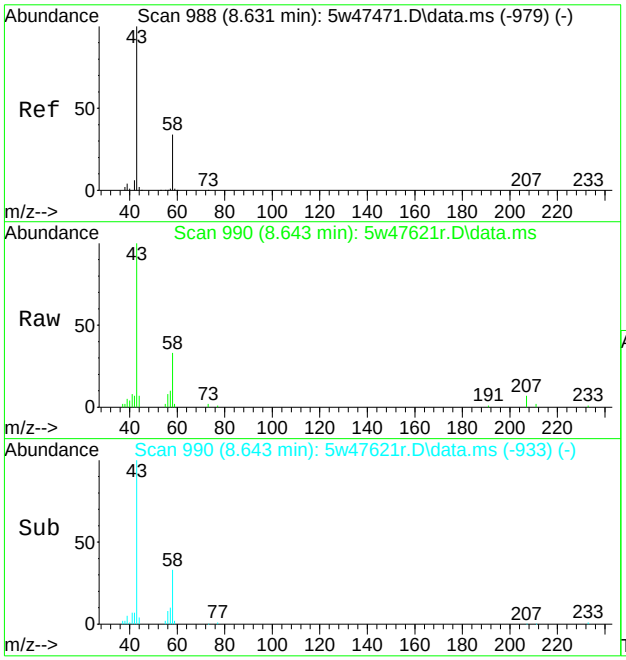


#12
n-Butane
Concen: 0.61 ppb(v)
RT: 4.899 min Scan# 378
Delta R.T. -0.000 min
Lab File: 5w47621r.D
Acq: 28 Jan 2022 12:02 am

Tgt Ion: 58 Resp: 1641

Ion	Ratio	Lower	Upper
58	100		
43	794.8	547.0	1015.8
44	40.6	18.8	35.0#

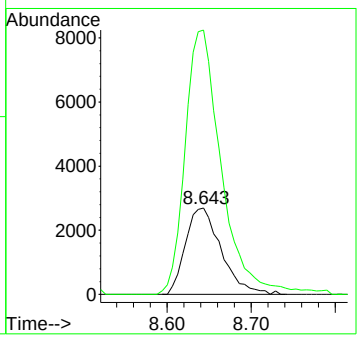


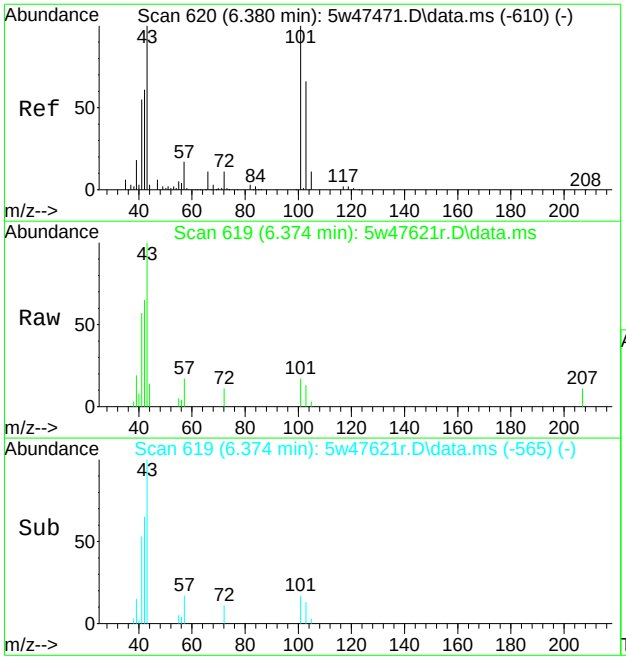


#22
Acetone
Concen: 0.83 ppb(v)
RT: 8.643 min Scan# 990
Delta R.T. 0.018 min
Lab File: 5w47621r.D
Acq: 28 Jan 2022 12:02 am

Tgt Ion: 58 Resp: 7969

Ion	Ratio	Lower	Upper
58	100		
43	306.5	210.1	390.1

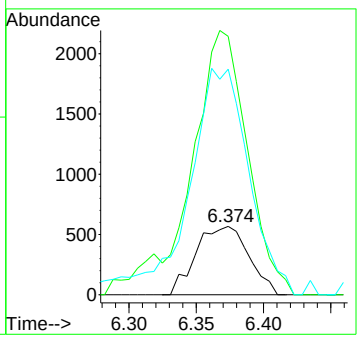


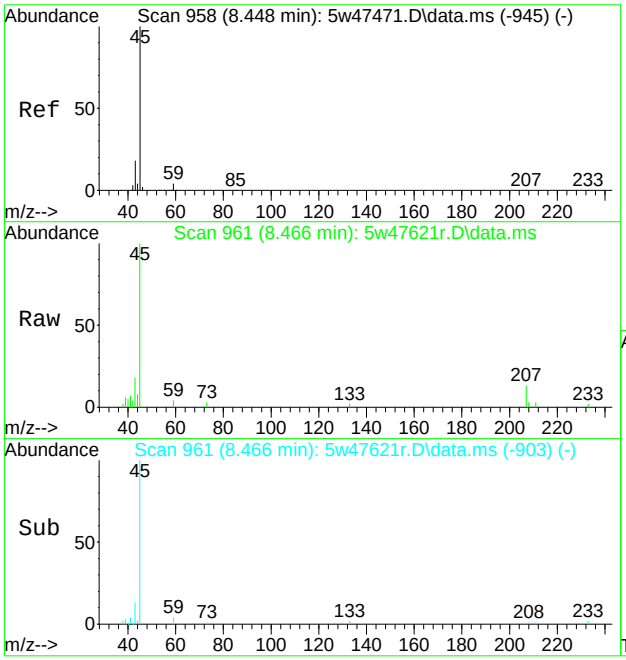


#23
Pentane
Concen: 0.28 ppb(v)
RT: 6.374 min Scan# 619
Delta R.T. -0.000 min
Lab File: 5w47621r.D
Acq: 28 Jan 2022 12:02 am

Tgt Ion: 57 Resp: 1551

Ion	Ratio	Lower	Upper
57	100		
42	378.5	245.1	455.1
41	330.3	221.8	412.0

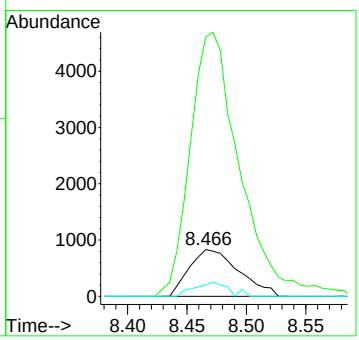


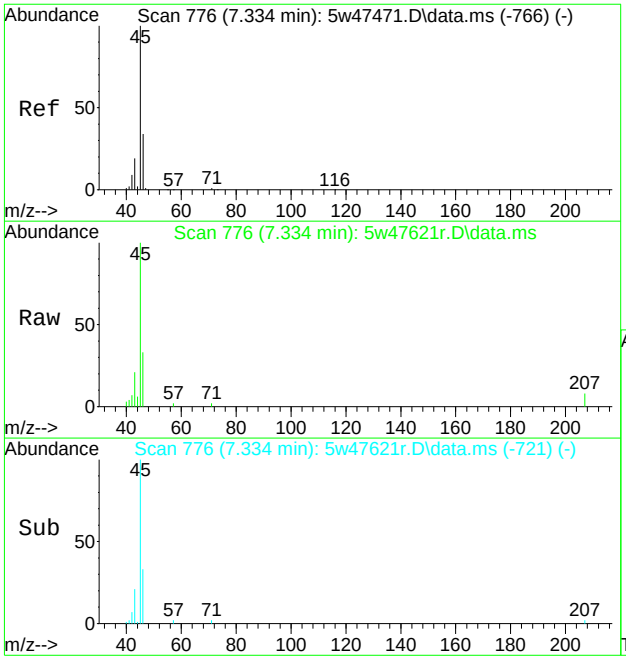


#25
Isopropyl Alcohol
Concen: 0.38 ppb(v)
RT: 8.466 min Scan# 961
Delta R.T. 0.024 min
Lab File: 5w47621r.D
Acq: 28 Jan 2022 12:02 am

Tgt Ion: 43 Resp: 2419

Ion	Ratio	Lower	Upper
43	100		
45	554.8	387.0	718.6
59	23.5	17.4	32.2

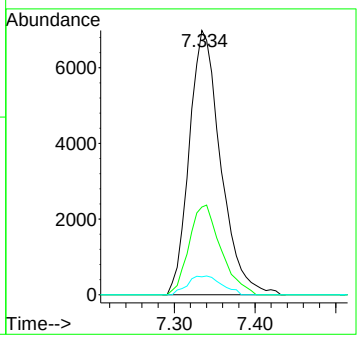


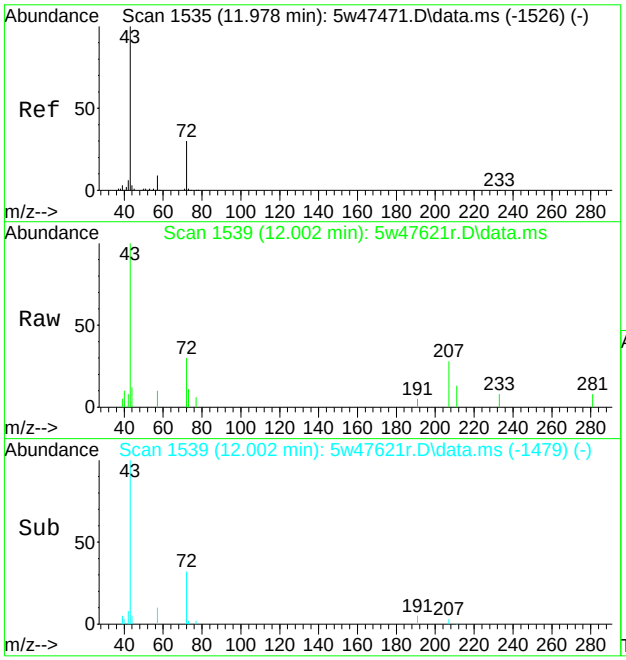


#30
Ethanol
Concen: 2.41 ppb(v)
RT: 7.334 min Scan# 776
Delta R.T. 0.006 min
Lab File: 5w47621r.D
Acq: 28 Jan 2022 12:02 am

Tgt Ion: 45 Resp: 18860

Ion	Ratio	Lower	Upper
45	100		
46	33.2	23.9	44.5
42	6.8	6.1	11.3

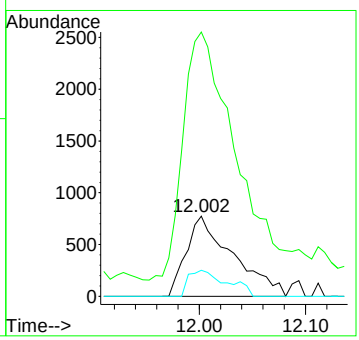


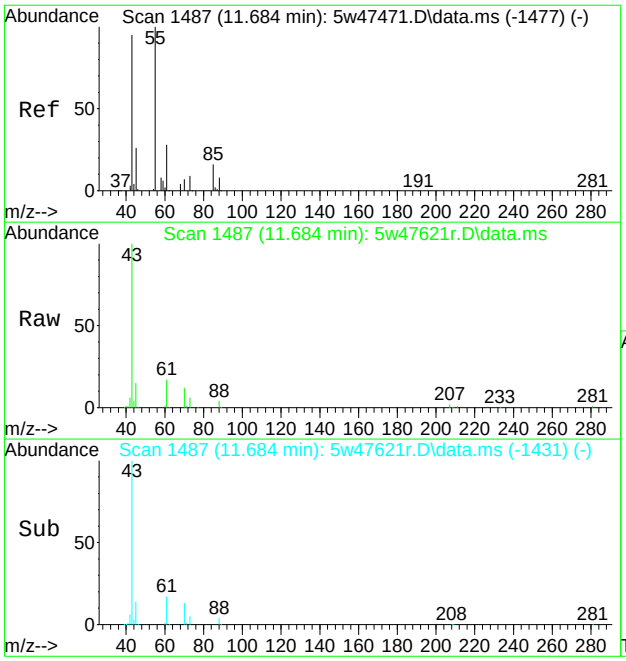


#38
2-Butanone
Concen: 0.24 ppb(v)
RT: 12.002 min Scan# 1539
Delta R.T. 0.037 min
Lab File: 5w47621r.D
Acq: 28 Jan 2022 12:02 am

Tgt Ion: 72 Resp: 2361

Ion	Ratio	Lower	Upper
72	100		
43	330.3	236.3	438.9
57	32.7	20.6	38.2

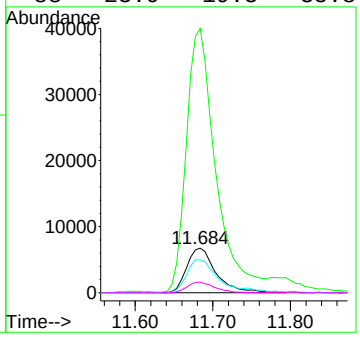


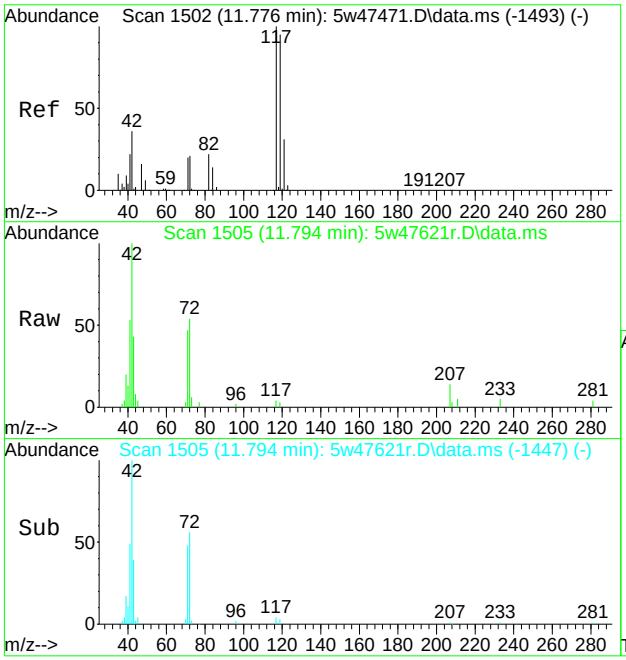


#42
Ethyl Acetate
Concen: 2.56 ppb(v)
RT: 11.684 min Scan# 1487
Delta R.T. 0.012 min
Lab File: 5w47621r.D
Acq: 28 Jan 2022 12:02 am

Tgt Ion: 61 Resp: 17880

Ion	Ratio	Lower	Upper
61	100		
43	593.8	421.6	783.0
70	74.0	57.0	105.8
88	23.9	19.3	35.8

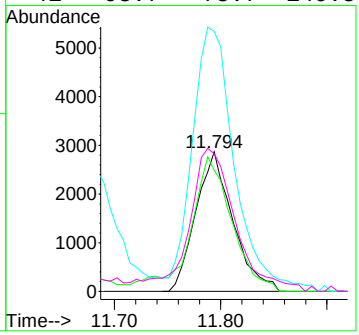


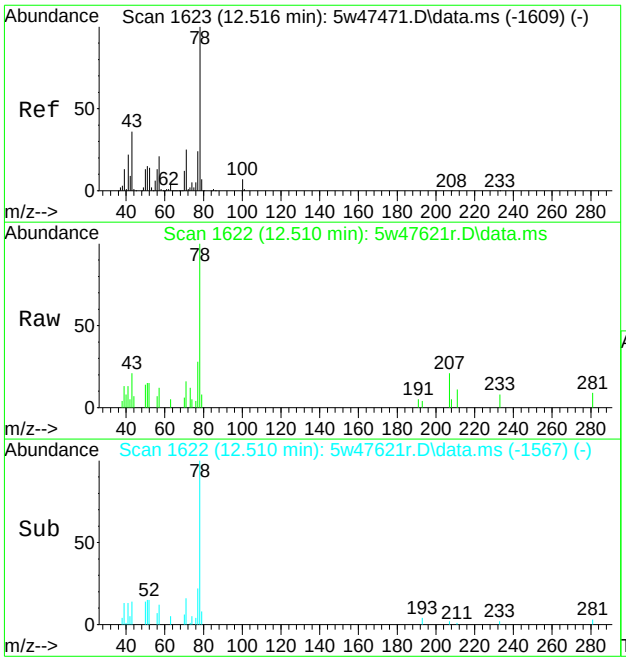


#46
Tetrahydrofuran
Concen: 0.66 ppb(v)
RT: 11.794 min Scan# 1505
Delta R.T. 0.024 min
Lab File: 5w47621r.D
Acq: 28 Jan 2022 12:02 am

Tgt Ion: 72 Resp: 6957

Ion	Ratio	Lower	Upper
72	100		
71	86.8	68.7	127.5
42	186.4	128.2	238.2
41	98.7	75.7	140.5

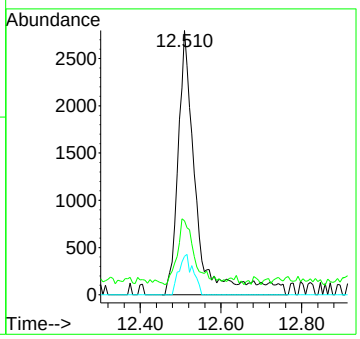


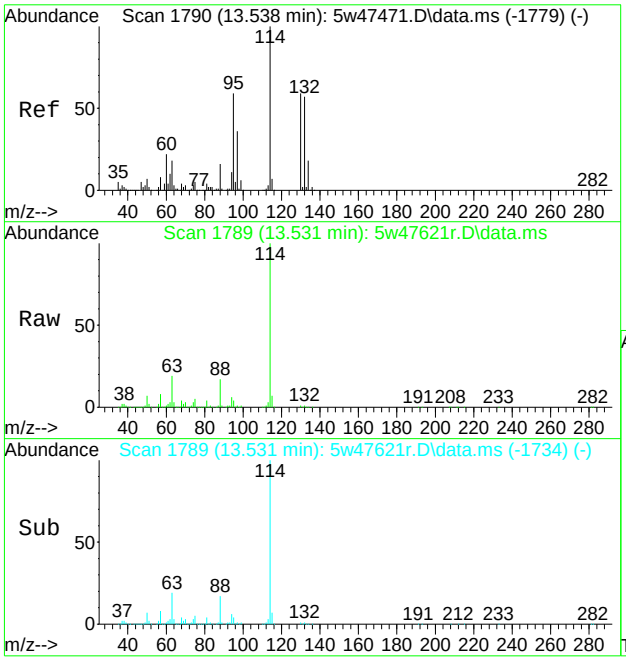


#49
Benzene
Concen: 0.11 ppb(v)
RT: 12.510 min Scan# 1622
Delta R.T. 0.006 min
Lab File: 5w47621r.D
Acq: 28 Jan 2022 12:02 am

Tgt Ion: 78 Resp: 8652

Ion	Ratio	Lower	Upper
78	100		
77	28.0	16.7	31.1
51	14.5	10.1	18.9

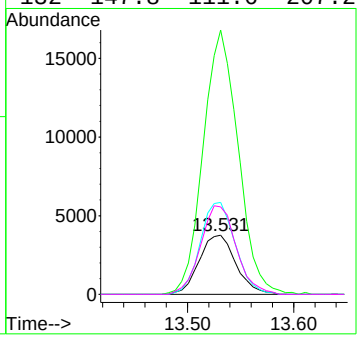


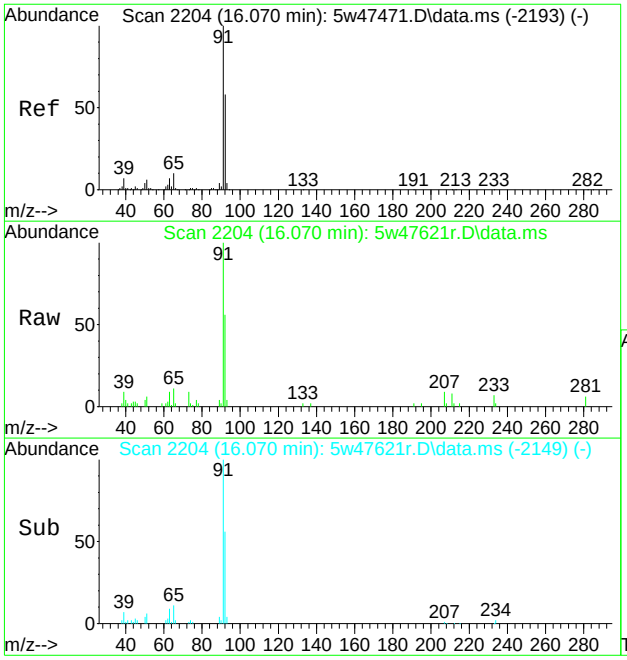


#56
Trichloroethene
Concen: 0.36 ppb(v)
RT: 13.531 min Scan# 1789
Delta R.T. 0.006 min
Lab File: 5w47621r.D
Acq: 28 Jan 2022 12:02 am

Tgt Ion: 97 Resp: 9021

Ion	Ratio	Lower	Upper
97	100		
95	446.5	114.4	212.6#
130	155.5	115.1	213.8
132	147.8	111.6	207.2

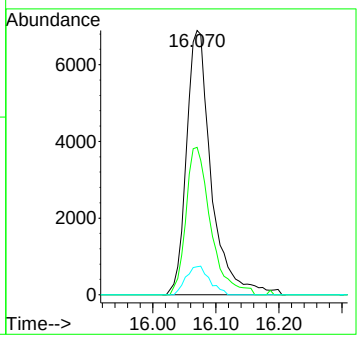




#66
Toluene
Concen: 0.19 ppb(v)
RT: 16.070 min Scan# 2204
Delta R.T. 0.006 min
Lab File: 5w47621r.D
Acq: 28 Jan 2022 12:02 am

Tgt Ion: 91 Resp: 18793

Ion	Ratio	Lower	Upper
91	100		
92	55.8	40.9	75.9
65	10.6	7.3	13.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47622r.D
Acq On : 28 Jan 2022 12:52 am
Operator : thomash
Sample : jd38291-10r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 28 10:57:53 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

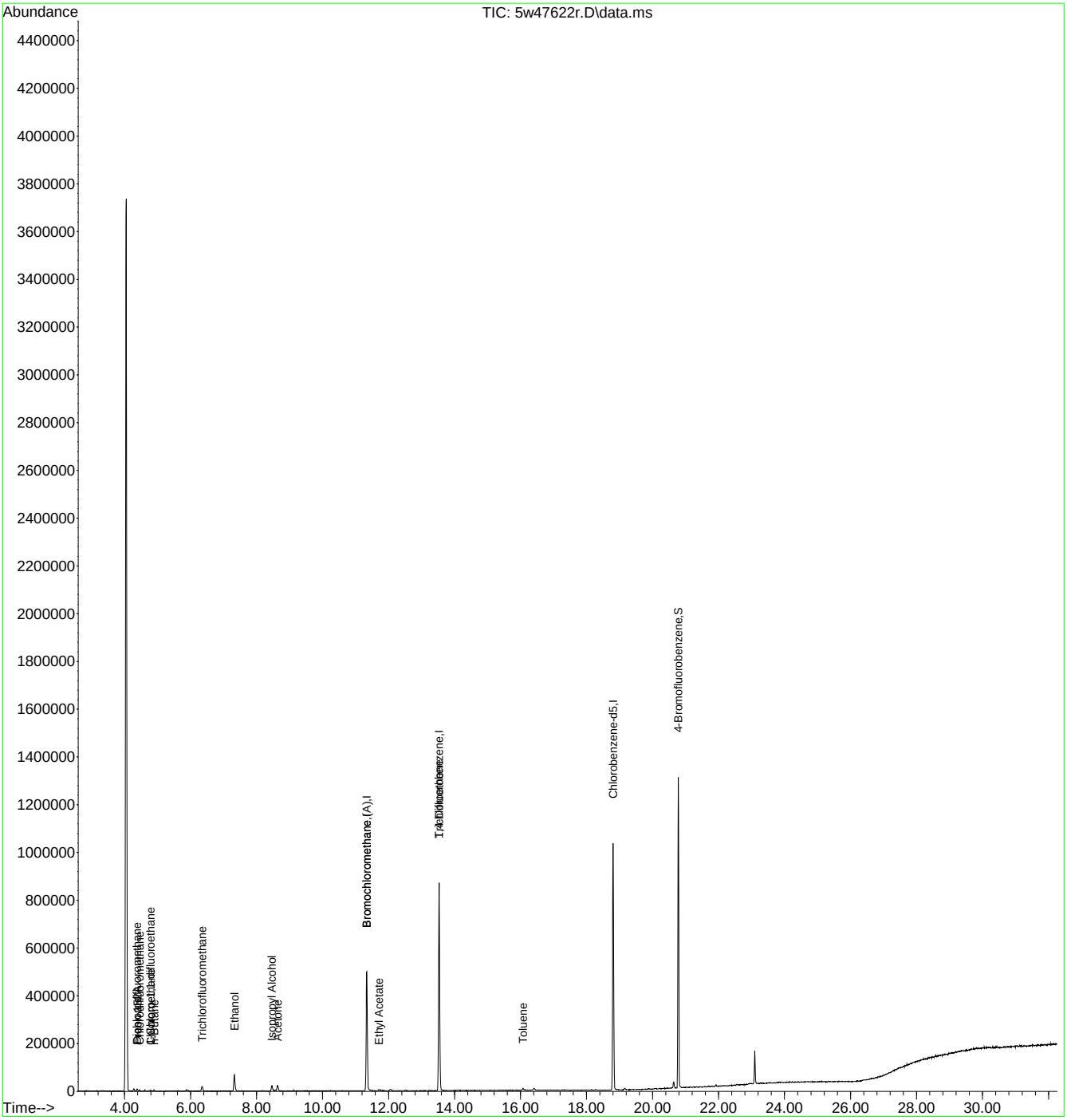
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	238618	10.00	ppb(v	# 0.00
53) 1,4-Difluorobenzene	13.531	114	942471	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	433749	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	238618	10.00	ppb(v	# 0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	504857	9.21	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 92.10%			
Target Compounds						Qvalue
2) Freon 152A	4.391	65	2537	0.22	ppb(v	97
3) Chlorodifluoromethane	4.459	67	1390	0.28	ppb(v	85
6) Dichlorodifluoromethane	4.379	85	7205	0.11	ppb(v	96
7) 1-Chloro-1,1-difluoroe...	4.789	65	4807	0.12	ppb(v#	25
8) Chloromethane	4.795	50	2816	0.17	ppb(v	91
12) n-Butane	4.899	58	615	0.22	ppb(v#	69
21) Trichlorofluoromethane	6.349	101	21990	0.35	ppb(v	98
22) Acetone	8.637	58	13516	1.39	ppb(v	93
25) Isopropyl Alcohol	8.460	43	7682	1.17	ppb(v	84
30) Ethanol	7.328	45	109599	13.72	ppb(v	98
42) Ethyl Acetate	11.708	61	1739	0.24	ppb(v	75
56) Trichloroethene	13.531	97	1823	0.07	ppb(v#	1
66) Toluene	16.076	91	10145	0.10	ppb(v	97

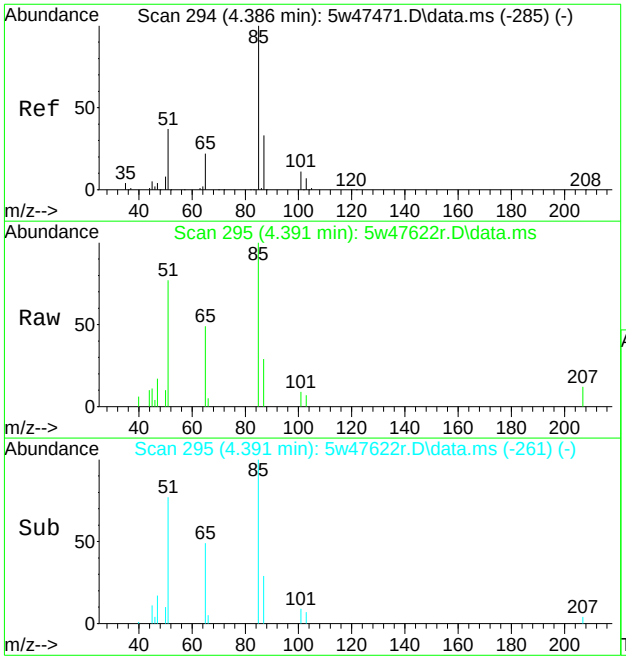
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47622r.D
Acq On : 28 Jan 2022 12:52 am
Operator : thomash
Sample : jd38291-10r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 28 10:57:53 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

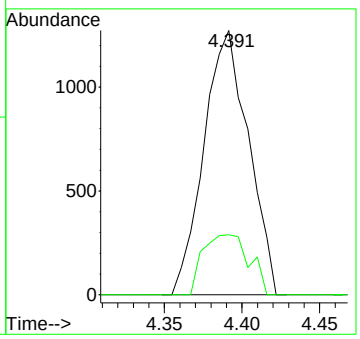


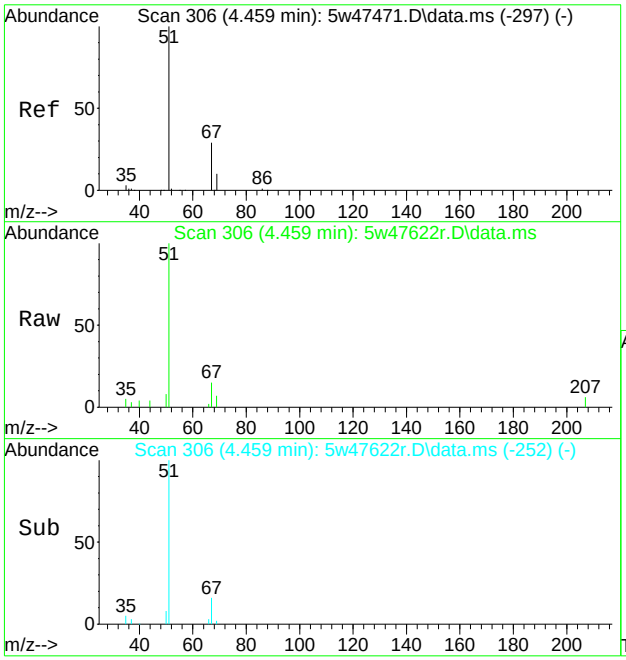


#2
Freon 152A
Concen: 0.22 ppb(v)
RT: 4.391 min Scan# 295
Delta R.T. 0.006 min
Lab File: 5w47622r.D
Acq: 28 Jan 2022 12:52 am

Tgt Ion: 65 Resp: 2537

Ion	Ratio	Lower	Upper
65	100		
45	22.7	17.1	31.7

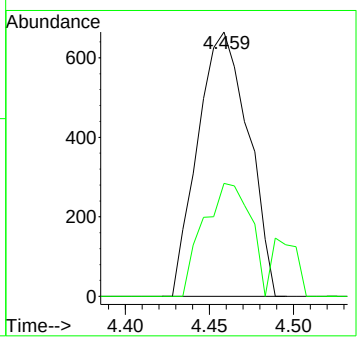


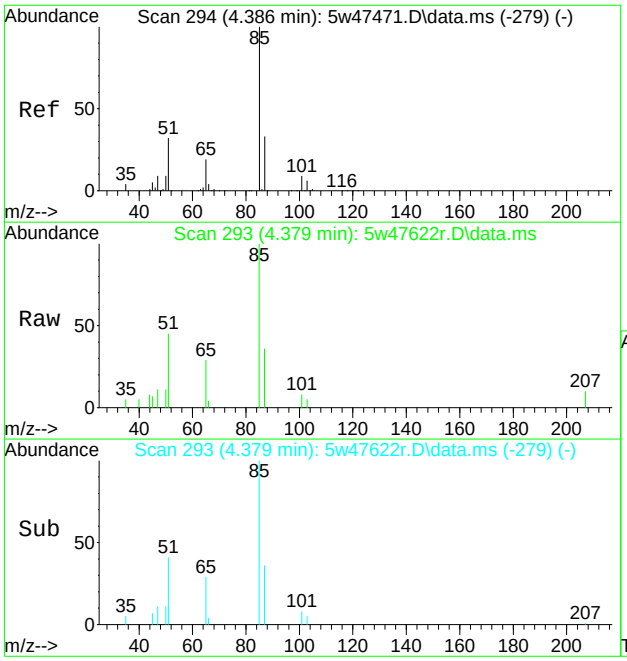


#3
Chlorodifluoromethane
Concen: 0.28 ppb(v)
RT: 4.459 min Scan# 306
Delta R.T. -0.000 min
Lab File: 5w47622r.D
Acq: 28 Jan 2022 12:52 am

Tgt Ion: 67 Resp: 1390

Ion	Ratio	Lower	Upper
67	100		
69	42.7	23.9	44.3

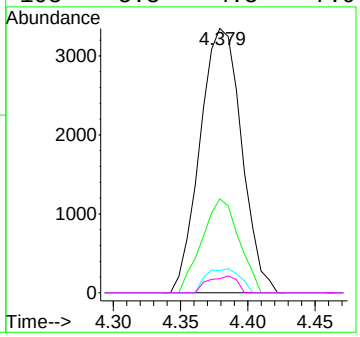


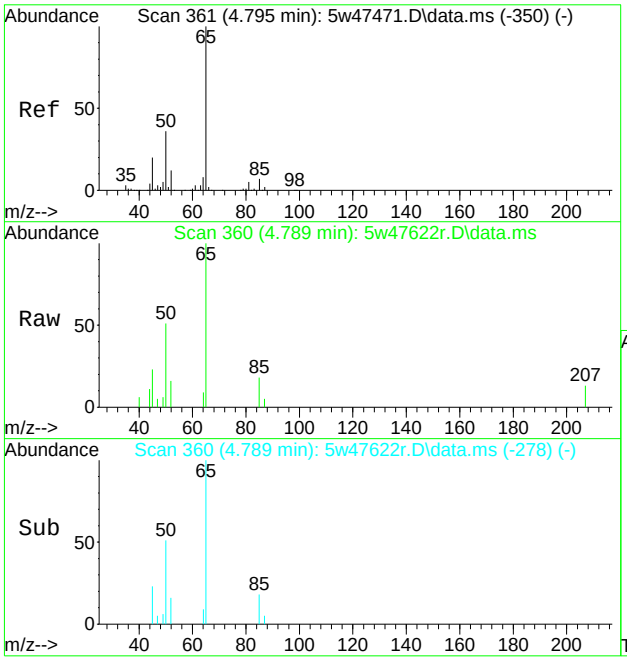


#6
Dichlorodifluoromethane
Concen: 0.11 ppb(v)
RT: 4.379 min Scan# 293
Delta R.T. -0.006 min
Lab File: 5w47622r.D
Acq: 28 Jan 2022 12:52 am

Tgt Ion: 85 Resp: 7205

Ion	Ratio	Lower	Upper
85	100		
87	35.6	23.0	42.8
101	8.5	6.5	12.1
103	5.3	4.3	7.9

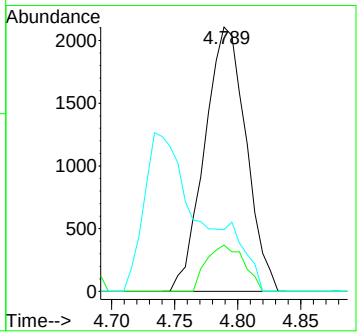


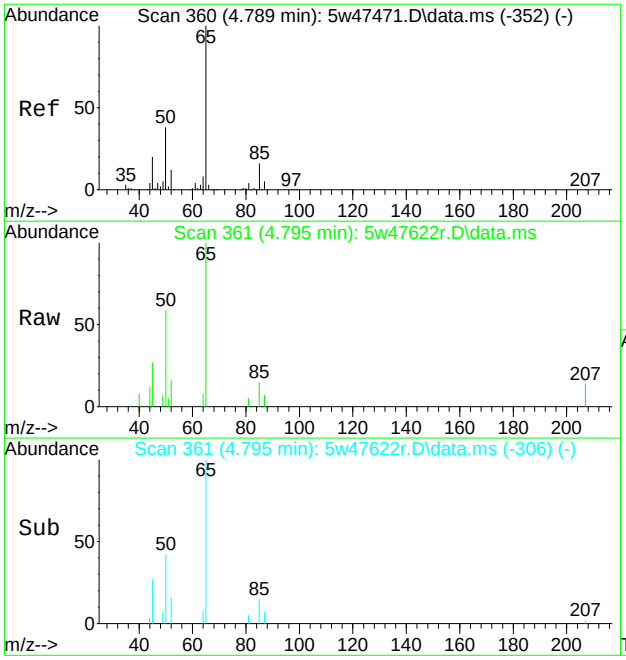


#7
1-Chloro-1,1-difluoroethane
Concen: 0.12 ppb(v)
RT: 4.789 min Scan# 360
Delta R.T. -0.000 min
Lab File: 5w47622r.D
Acq: 28 Jan 2022 12:52 am

Tgt Ion: 65 Resp: 4807

Ion	Ratio	Lower	Upper
65	100		
85	15.9	13.7	20.5
45	83.7	16.6	24.8#

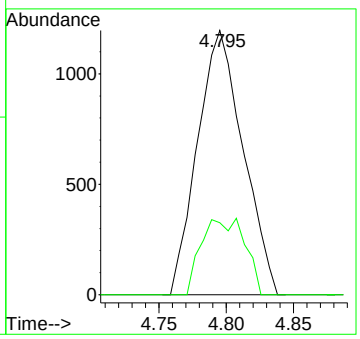


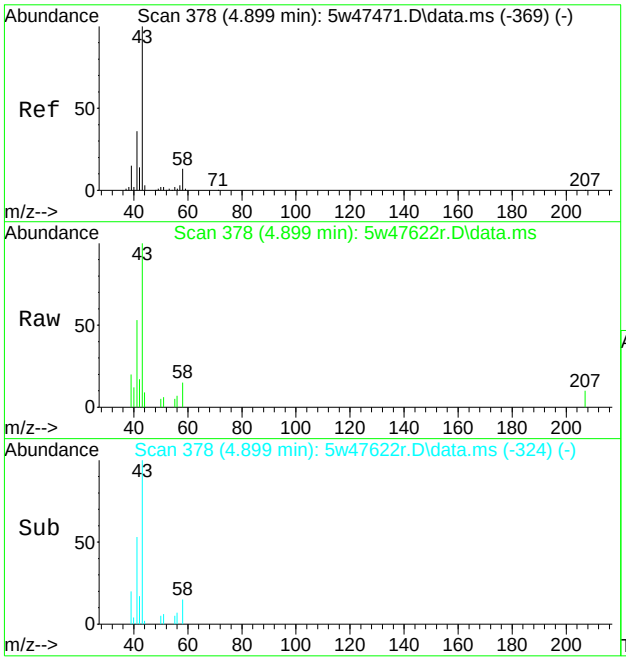


#8
Chloromethane
Concen: 0.17 ppb(v)
RT: 4.795 min Scan# 361
Delta R.T. 0.006 min
Lab File: 5w47622r.D
Acq: 28 Jan 2022 12:52 am

Tgt Ion: 50 Resp: 2816

Ion	Ratio	Lower	Upper
50	100		
52	27.2	22.4	41.6

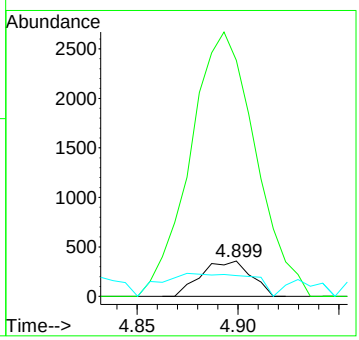


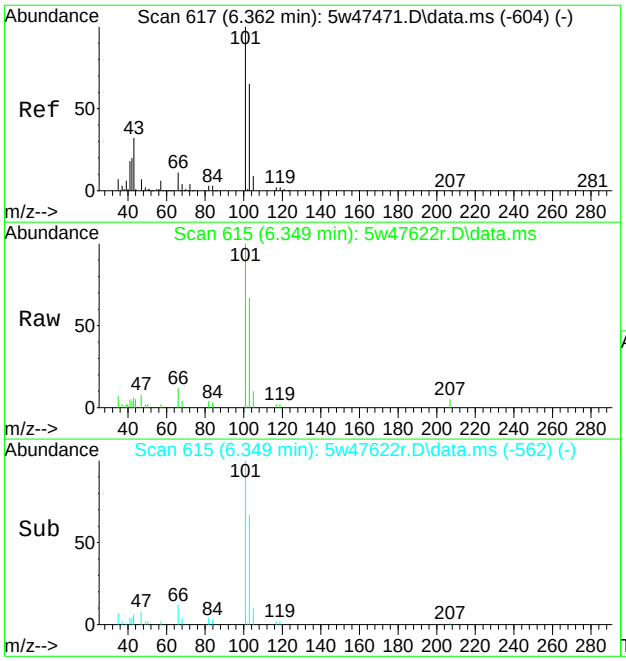


#12
n-Butane
Concen: 0.22 ppb(v)
RT: 4.899 min Scan# 378
Delta R.T. -0.000 min
Lab File: 5w47622r.D
Acq: 28 Jan 2022 12:52 am

Tgt Ion: 58 Resp: 615

Ion	Ratio	Lower	Upper
58	100		
43	669.4	547.0	1015.8
44	59.3	18.8	35.0#

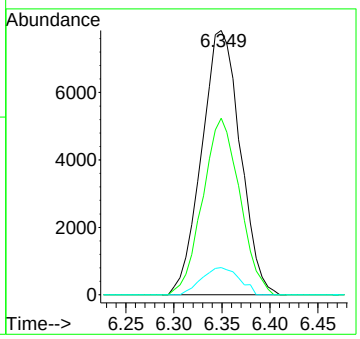


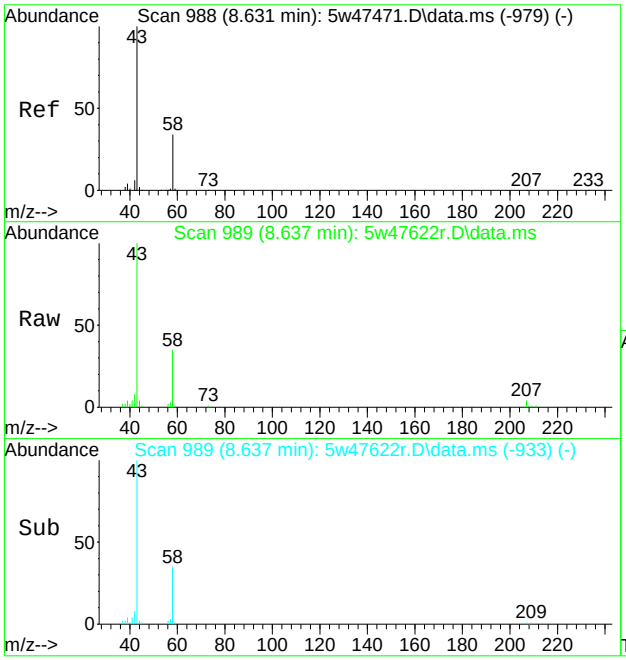


#21
Trichlorofluoromethane
Concen: 0.35 ppb(v)
RT: 6.349 min Scan# 615
Delta R.T. -0.006 min
Lab File: 5w47622r.D
Acq: 28 Jan 2022 12:52 am

Tgt Ion:101 Resp: 21990

Ion	Ratio	Lower	Upper
101	100		
103	66.8	45.5	84.5
105	10.3	7.6	14.0

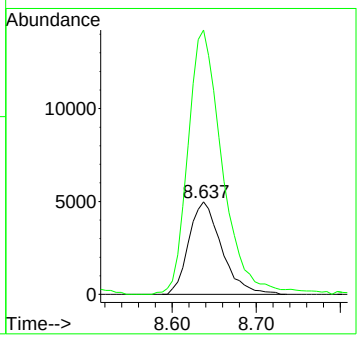


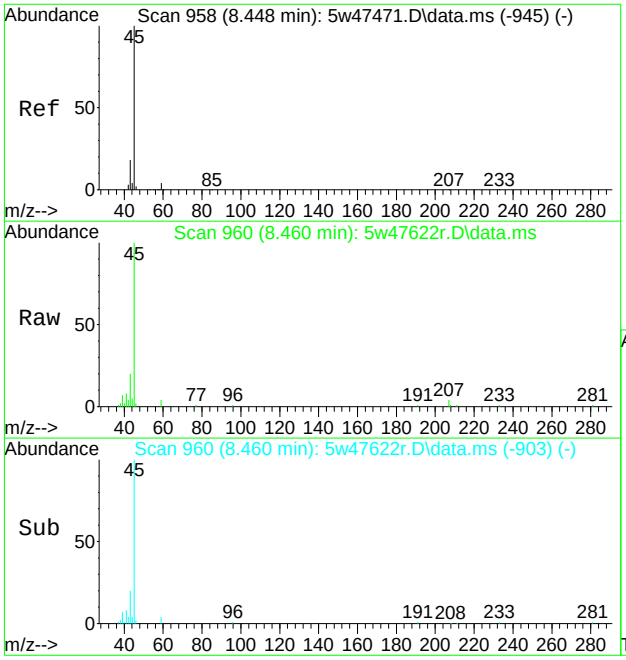


#22
Acetone
Concen: 1.39 ppb(v)
RT: 8.637 min Scan# 989
Delta R.T. 0.012 min
Lab File: 5w47622r.D
Acq: 28 Jan 2022 12:52 am

Tgt Ion: 58 Resp: 13516

Ion	Ratio	Lower	Upper
58	100		
43	286.2	210.1	390.1

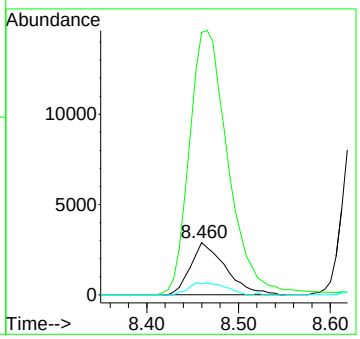


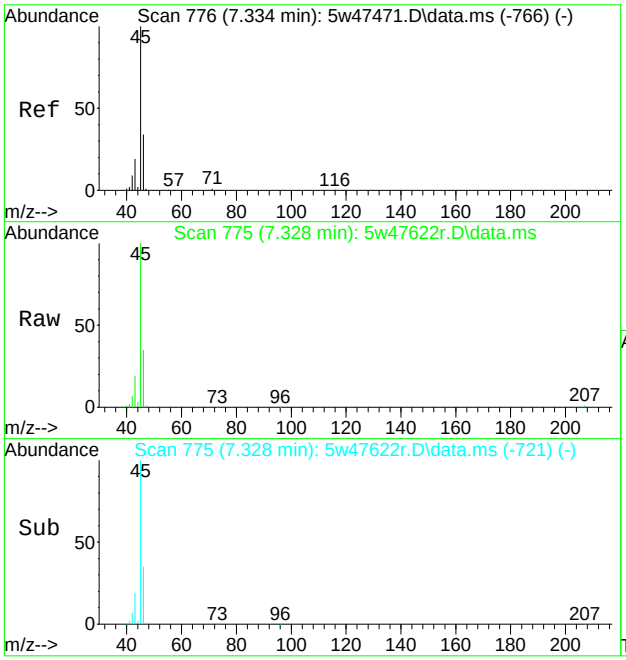


#25
Isopropyl Alcohol
Concen: 1.17 ppb(v)
RT: 8.460 min Scan# 960
Delta R.T. 0.018 min
Lab File: 5w47622r.D
Acq: 28 Jan 2022 12:52 am

Tgt Ion: 43 Resp: 7682

Ion	Ratio	Lower	Upper
43	100		
45	503.1	387.0	718.6
59	21.1	17.4	32.2

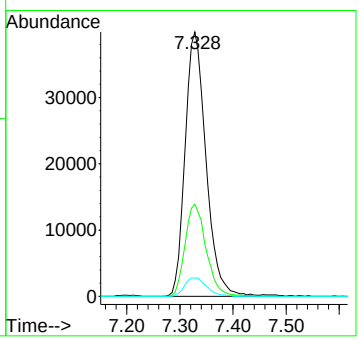


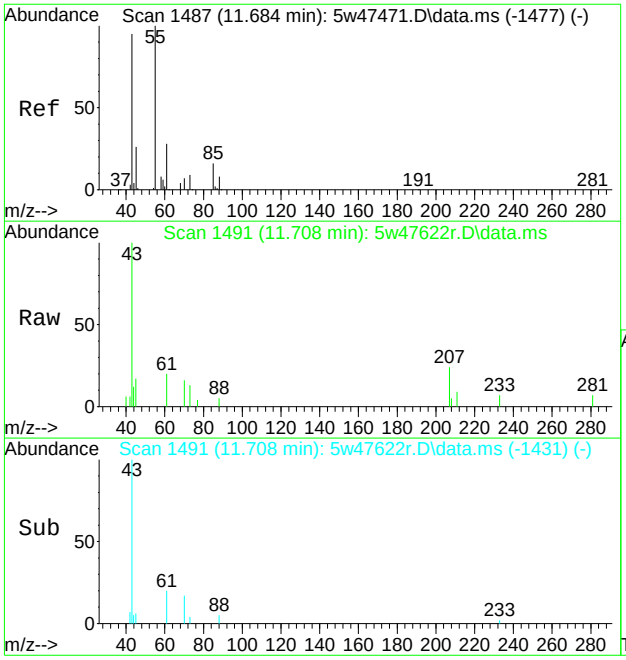


#30
Ethanol
Concen: 13.72 ppb(v)
RT: 7.328 min Scan# 775
Delta R.T. -0.000 min
Lab File: 5w47622r.D
Acq: 28 Jan 2022 12:52 am

Tgt Ion: 45 Resp: 109599

Ion	Ratio	Lower	Upper
45	100		
46	34.9	23.9	44.5
42	6.9	6.1	11.3

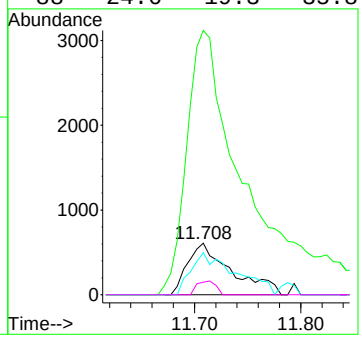


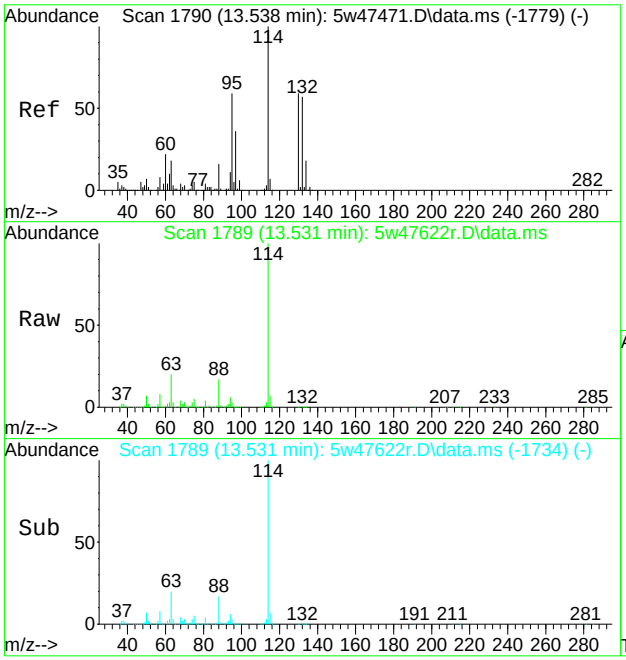


#42
Ethyl Acetate
Concen: 0.24 ppb(v)
RT: 11.708 min Scan# 1491
Delta R.T. 0.037 min
Lab File: 5w47622r.D
Acq: 28 Jan 2022 12:52 am

Tgt Ion: 61 Resp: 1739

Ion	Ratio	Lower	Upper
61	100		
43	511.3	421.6	783.0
70	81.5	57.0	105.8
88	24.6	19.3	35.8

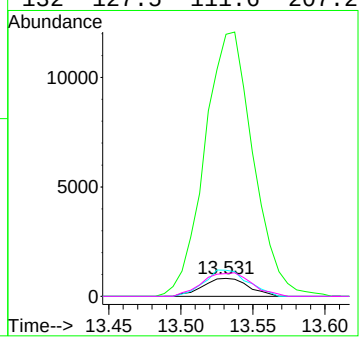


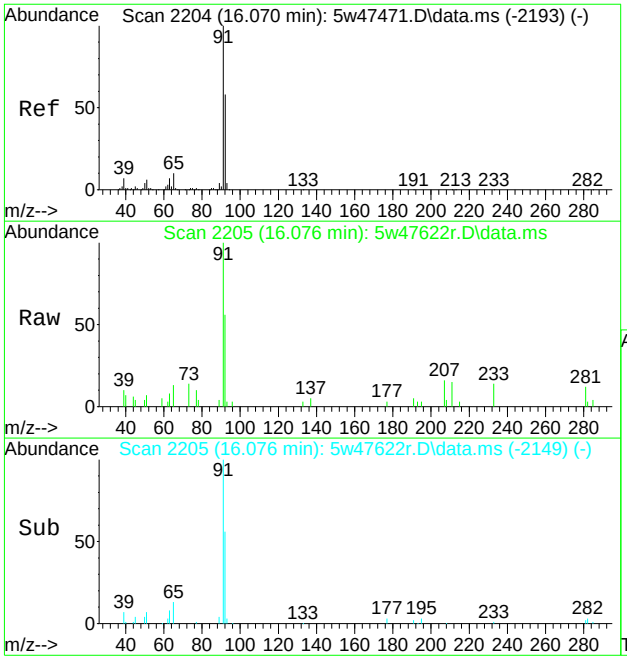


#56
Trichloroethene
Concen: 0.07 ppb(v)
RT: 13.531 min Scan# 1789
Delta R.T. 0.006 min
Lab File: 5w47622r.D
Acq: 28 Jan 2022 12:52 am

Tgt Ion: 97 Resp: 1823

Ion	Ratio	Lower	Upper
97	100		
95	1463.4	114.4	212.6#
130	145.5	115.1	213.8
132	127.5	111.6	207.2

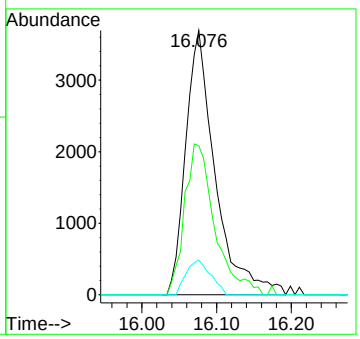




#66
Toluene
Concen: 0.10 ppb(v)
RT: 16.076 min Scan# 2205
Delta R.T. 0.012 min
Lab File: 5w47622r.D
Acq: 28 Jan 2022 12:52 am

Tgt Ion: 91 Resp: 10145

Ion	Ratio	Lower	Upper
91	100		
92	56.4	40.9	75.9
65	13.2	7.3	13.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47623r.D
Acq On : 28 Jan 2022 1:41 am
Operator : thomash
Sample : jd38291-11r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 28 10:59:36 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

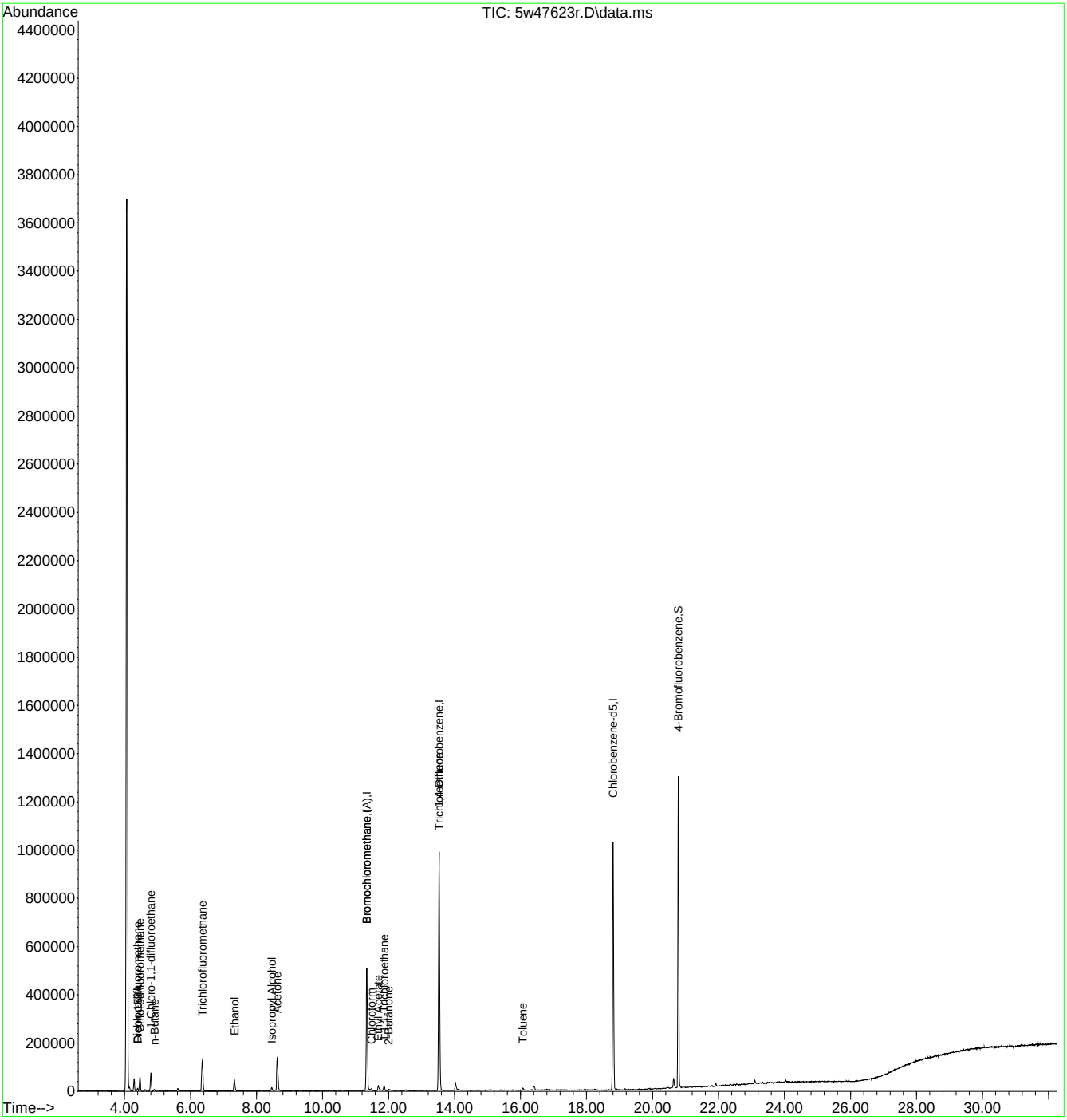
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	11.341	130	232770	10.00 ppb(v	# 0.00
53) 1,4-Difluorobenzene	13.531	114	918888	10.00 ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	429719	10.00 ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	232770	10.00 ppb(v	# 0.00
System Monitoring Compounds					
90) 4-Bromofluorobenzene	20.781	95	498340	9.18 ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 91.80%		
Target Compounds					Qvalue
2) Freon 152A	4.398	65	3616	0.32 ppb(v	99
3) Chlorodifluoromethane	4.465	67	14918	3.13 ppb(v	99
6) Dichlorodifluoromethane	4.392	85	7084	0.11 ppb(v	93
7) 1-Chloro-1,1-difluoroe...	4.795	65	91767	2.44 ppb(v	99
12) n-Butane	4.905	58	788	0.29 ppb(v#	78
21) Trichlorofluoromethane	6.355	101	150279	2.45 ppb(v	98
22) Acetone	8.625	58	78102	8.20 ppb(v	99
25) Isopropyl Alcohol	8.460	43	4267	0.67 ppb(v	99
30) Ethanol	7.328	45	75839	9.73 ppb(v	98
38) 2-Butanone	11.996	72	2965	0.30 ppb(v	81
42) Ethyl Acetate	11.684	61	6169	0.89 ppb(v	98
44) Chloroform	11.482	83	7839	0.14 ppb(v	95
47) 1,1,1-Trichloroethane	11.867	97	17205	0.32 ppb(v	98
56) Trichloroethene	13.525	97	45244	1.84 ppb(v	85
66) Toluene	16.070	91	10988	0.11 ppb(v	98

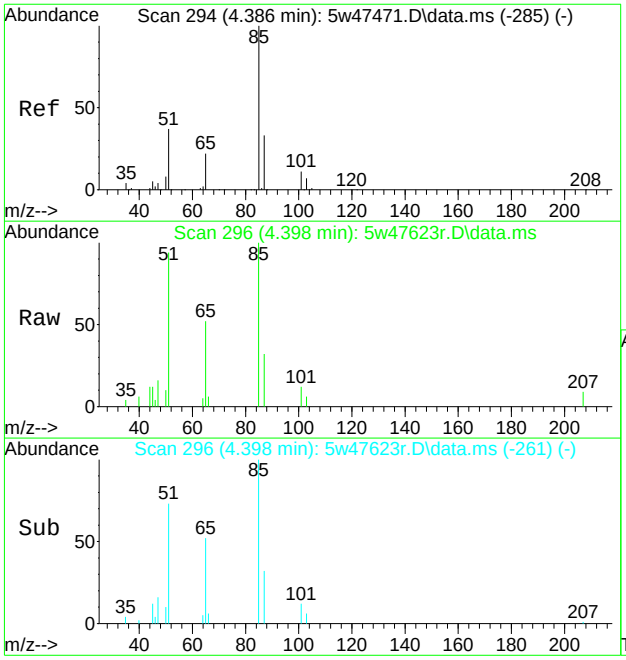
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47623r.D
Acq On : 28 Jan 2022 1:41 am
Operator : thomash
Sample : jd38291-11r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 28 10:59:36 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

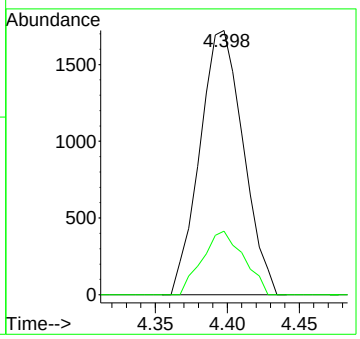


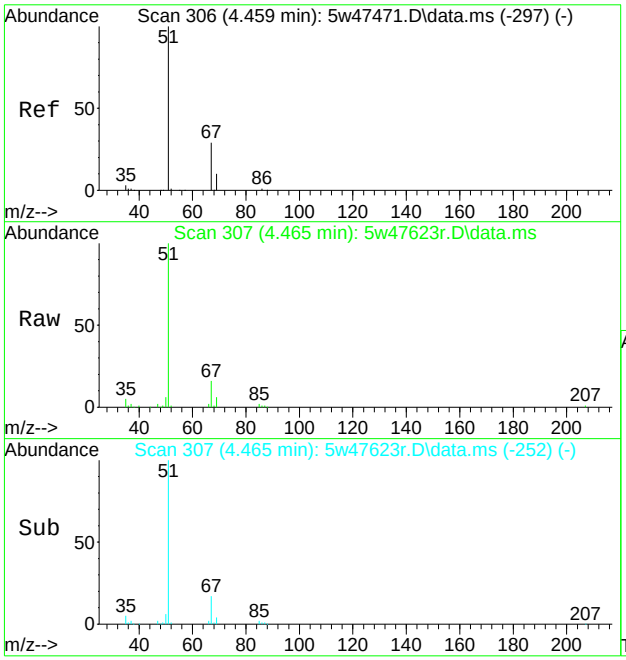


#2
Freon 152A
Concen: 0.32 ppb(v)
RT: 4.398 min Scan# 296
Delta R.T. 0.012 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 65 Resp: 3616

Ion	Ratio	Lower	Upper
65	100		
45	24.0	17.1	31.7

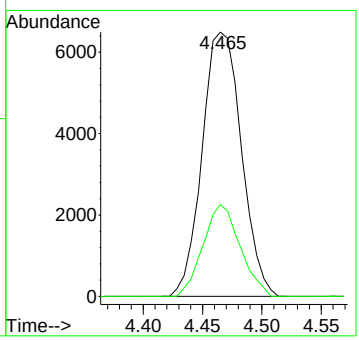


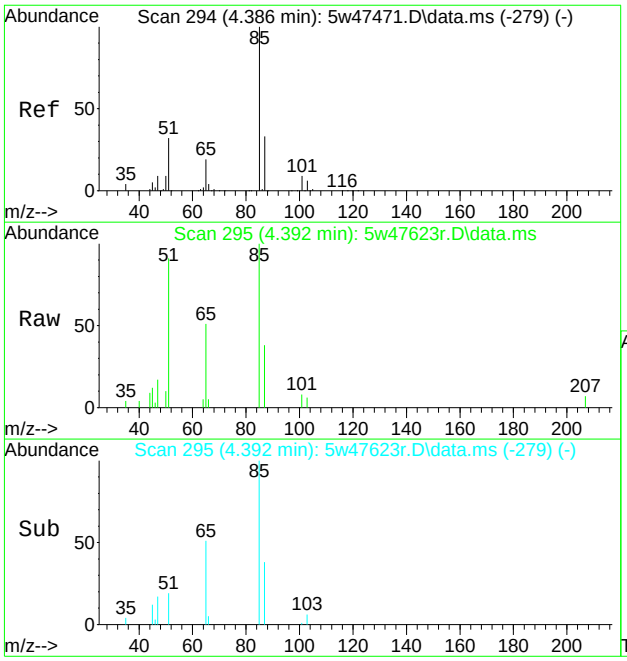


#3
Chlorodifluoromethane
Concen: 3.13 ppb(v)
RT: 4.465 min Scan# 307
Delta R.T. 0.006 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 67 Resp: 14918

Ion	Ratio	Lower	Upper
67	100		
69	34.7	23.9	44.3

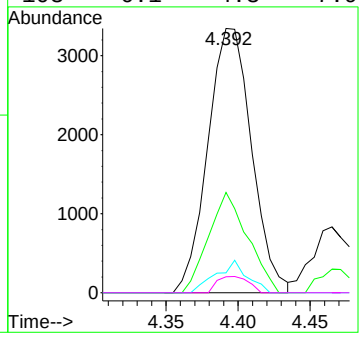


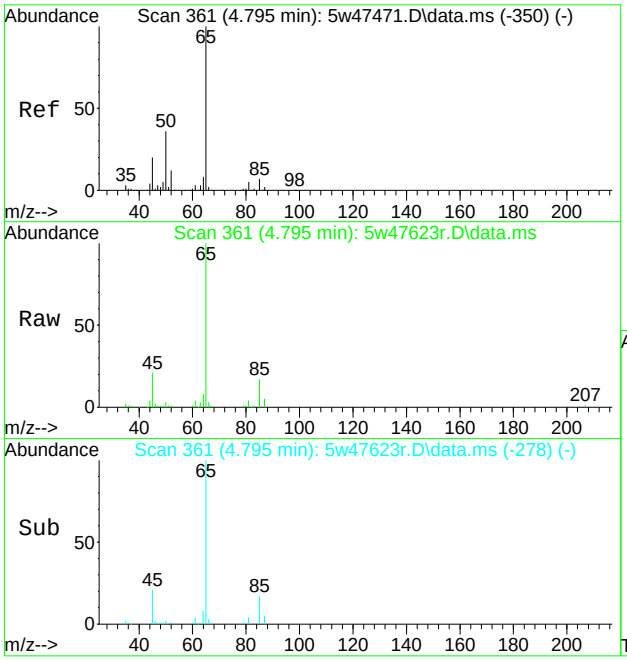


#6
Dichlorodifluoromethane
Concen: 0.11 ppb(v)
RT: 4.392 min Scan# 295
Delta R.T. 0.006 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 85 Resp: 7084

Ion	Ratio	Lower	Upper
85	100		
87	37.9	23.0	42.8
101	7.6	6.5	12.1
103	6.1	4.3	7.9

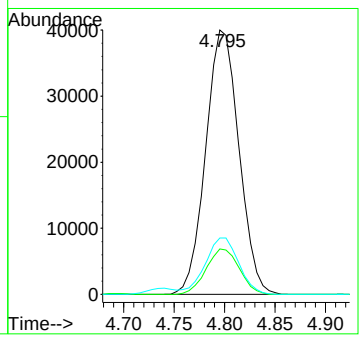


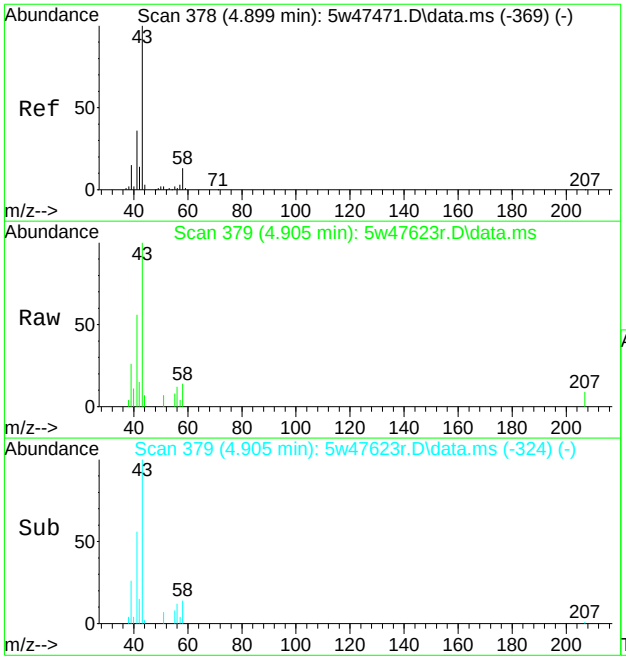


#7
1-Chloro-1,1-difluoroethane
Concen: 2.44 ppb(v)
RT: 4.795 min Scan# 361
Delta R.T. 0.006 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 65 Resp: 91767

Ion	Ratio	Lower	Upper
65	100		
85	17.1	13.7	20.5
45	21.7	16.6	24.8

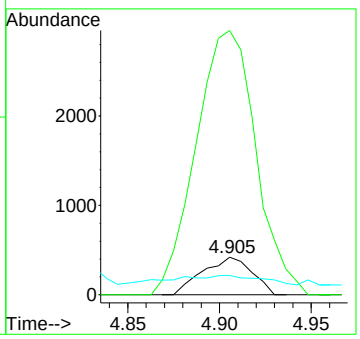


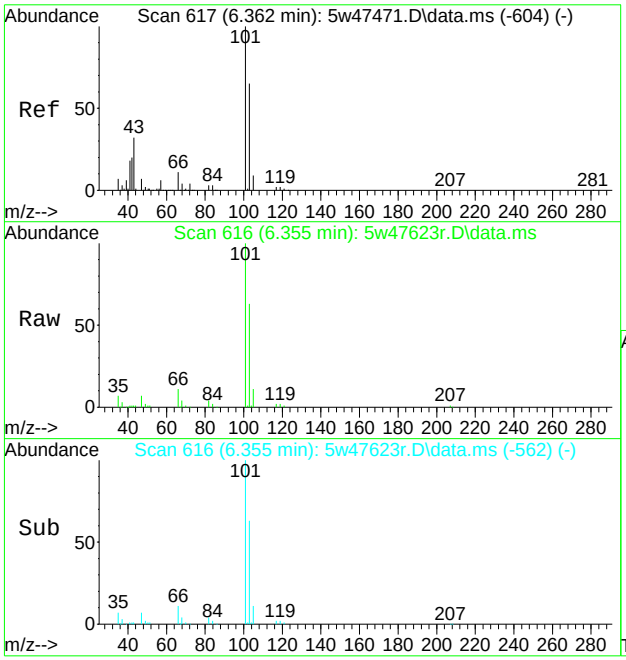


#12
n-Butane
Concen: 0.29 ppb(v)
RT: 4.905 min Scan# 379
Delta R.T. 0.006 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 58 Resp: 788

Ion	Ratio	Lower	Upper
58	100		
43	702.6	547.0	1015.8
44	51.3	18.8	35.0#

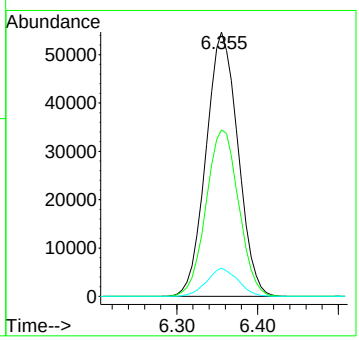


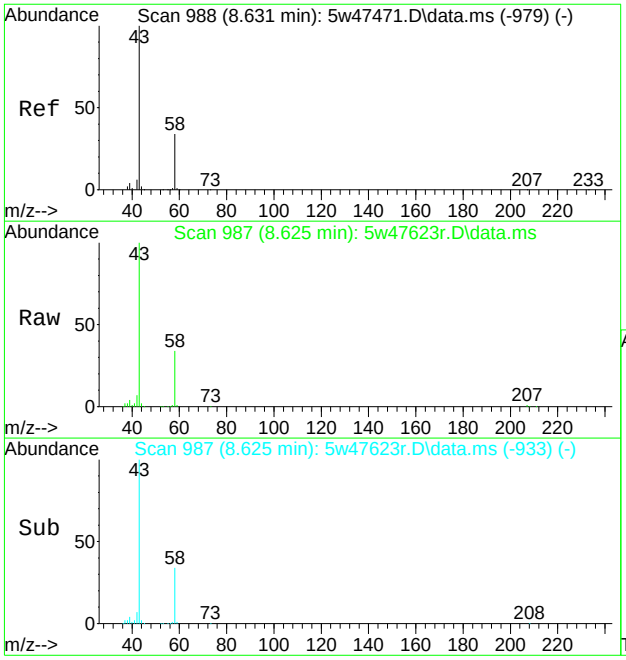


#21
Trichlorofluoromethane
Concen: 2.45 ppb(v)
RT: 6.355 min Scan# 616
Delta R.T. 0.000 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion:101 Resp: 150279

Ion	Ratio	Lower	Upper
101	100		
103	63.0	45.5	84.5
105	10.8	7.6	14.0

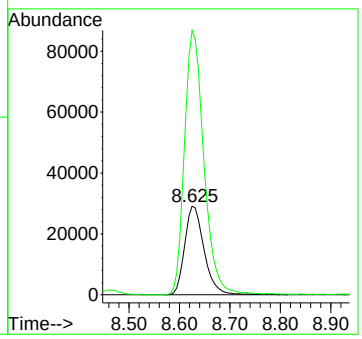


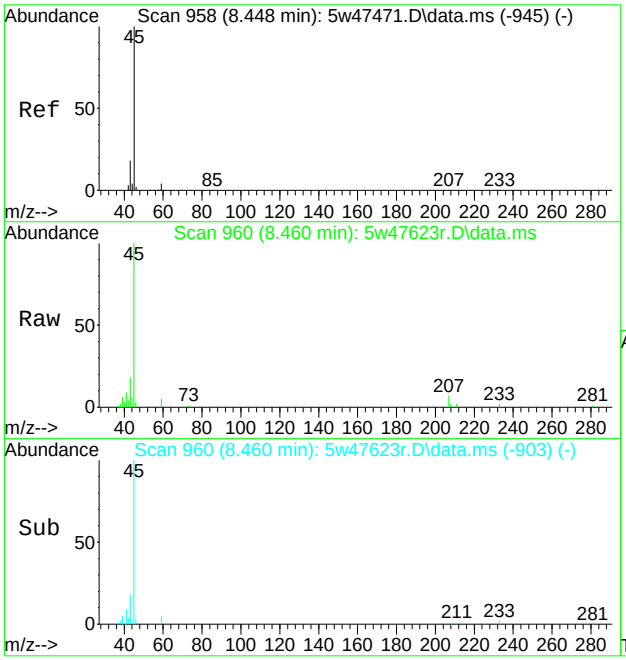


#22
Acetone
Concen: 8.20 ppb(v)
RT: 8.625 min Scan# 987
Delta R.T. 0.000 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 58 Resp: 78102

Ion	Ratio	Lower	Upper
58	100		
43	298.5	210.1	390.1

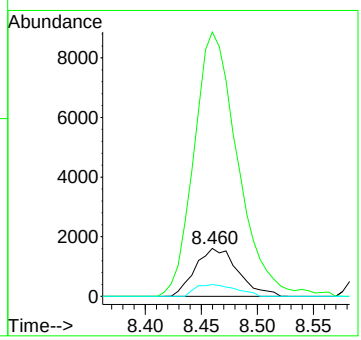


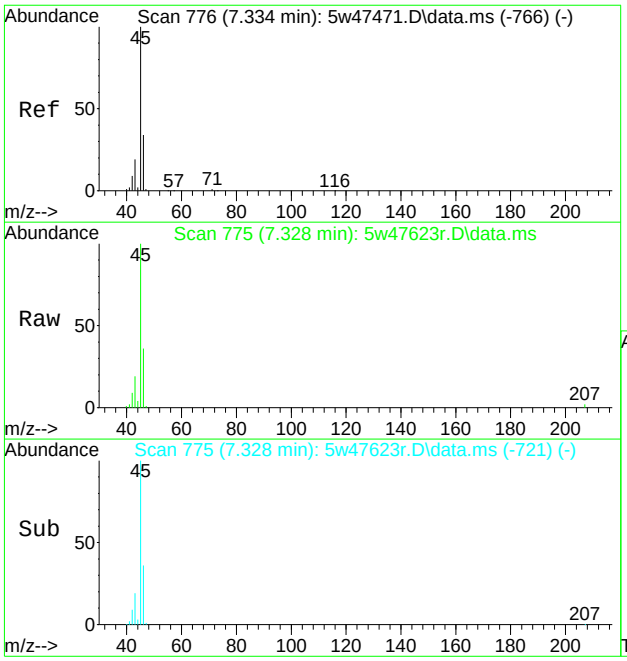


#25
Isopropyl Alcohol
Concen: 0.67 ppb(v)
RT: 8.460 min Scan# 960
Delta R.T. 0.018 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 43 Resp: 4267

Ion	Ratio	Lower	Upper
43	100		
45	549.9	387.0	718.6
59	24.8	17.4	32.2

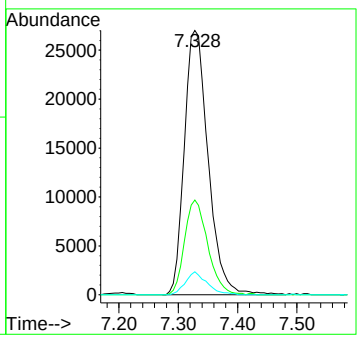


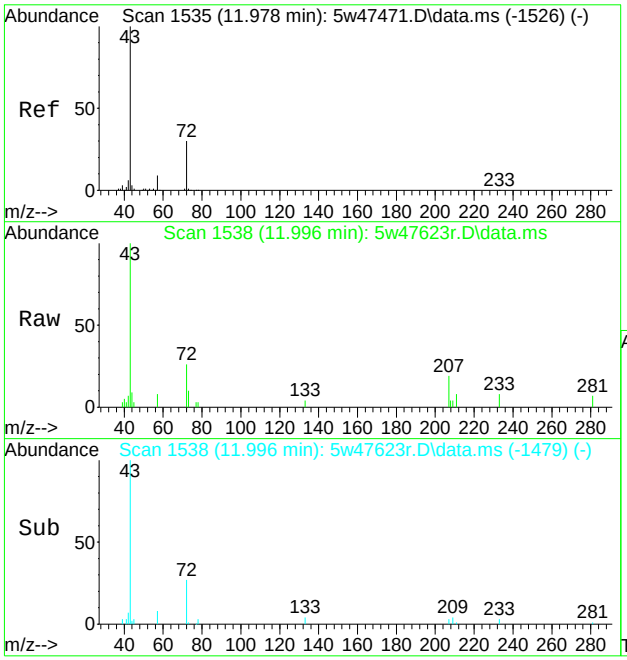


#30
Ethanol
Concen: 9.73 ppb(v)
RT: 7.328 min Scan# 775
Delta R.T. 0.000 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 45 Resp: 75839

Ion	Ratio	Lower	Upper
45	100		
46	35.8	23.9	44.5
42	8.7	6.1	11.3

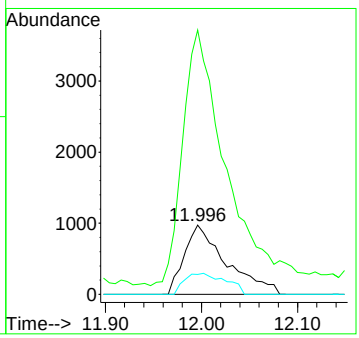


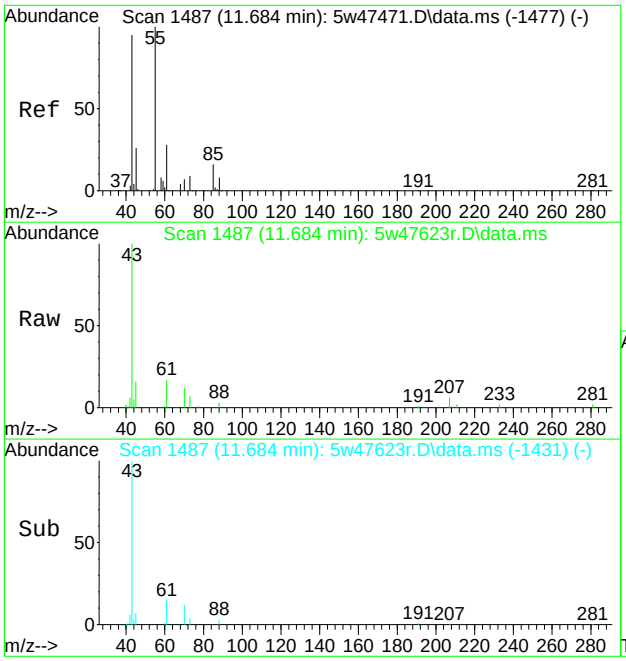


#38
2-Butanone
Concen: 0.30 ppb(v)
RT: 11.996 min Scan# 1538
Delta R.T. 0.031 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 72 Resp: 2965

Ion	Ratio	Lower	Upper
72	100		
43	381.8	236.3	438.9
57	29.0	20.6	38.2

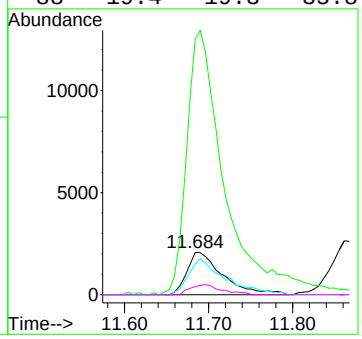


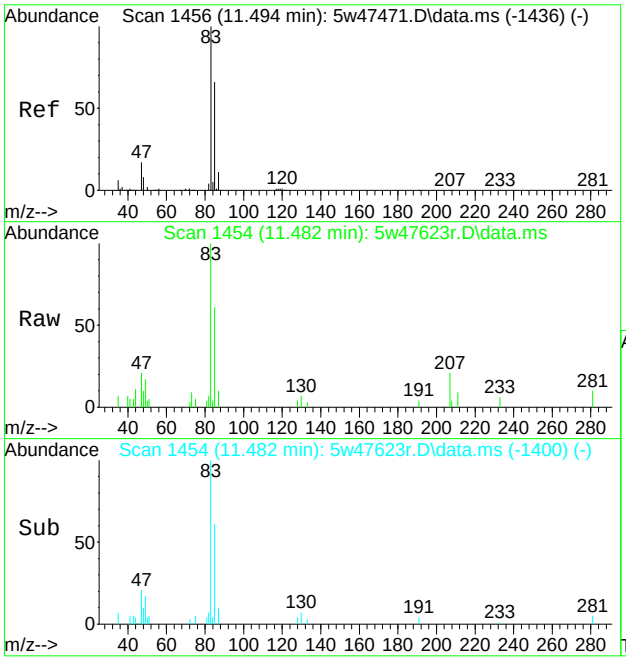


#42
Ethyl Acetate
Concen: 0.89 ppb(v)
RT: 11.684 min Scan# 1487
Delta R.T. 0.012 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 61 Resp: 6169

Ion	Ratio	Lower	Upper
61	100		
43	603.6	421.6	783.0
70	72.5	57.0	105.8
88	19.4	19.3	35.8

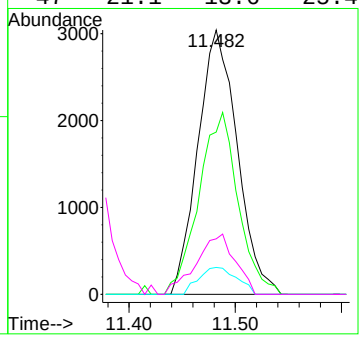


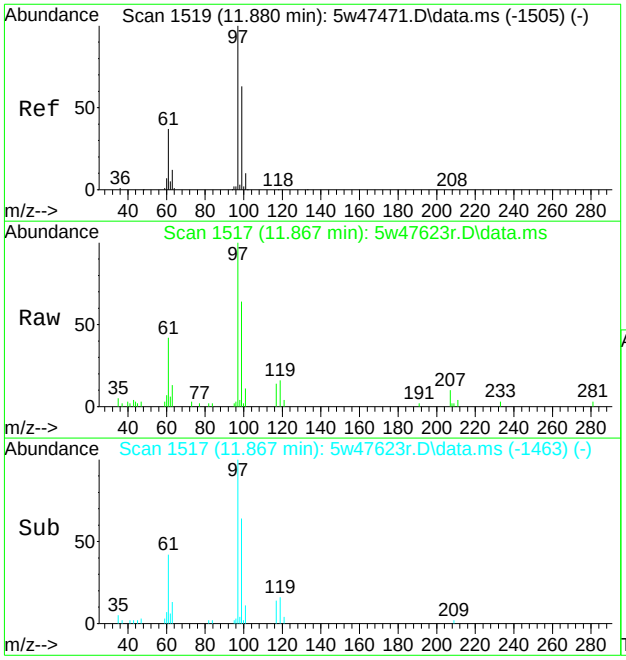


#44
Chloroform
Concen: 0.14 ppb(v)
RT: 11.482 min Scan# 1454
Delta R.T. 0.000 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 83 Resp: 7839

Ion	Ratio	Lower	Upper
83	100		
85	61.4	46.1	85.5
87	10.2	7.6	14.0
47	21.1	13.6	25.4

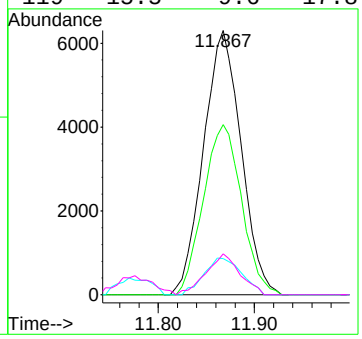


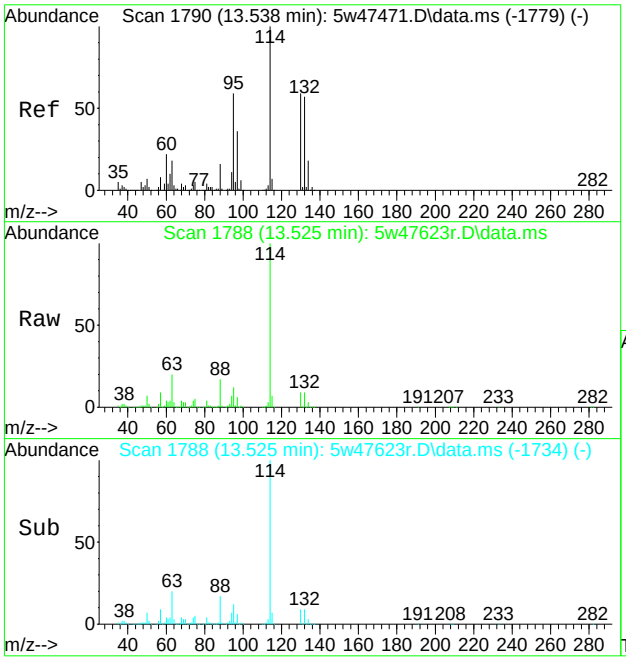


#47
1,1,1-Trichloroethane
Concen: 0.32 ppb(v)
RT: 11.867 min Scan# 1517
Delta R.T. 0.000 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 97 Resp: 17205

Ion	Ratio	Lower	Upper
97	100		
99	64.3	44.3	82.3
117	13.6	9.9	18.5
119	15.5	9.6	17.8

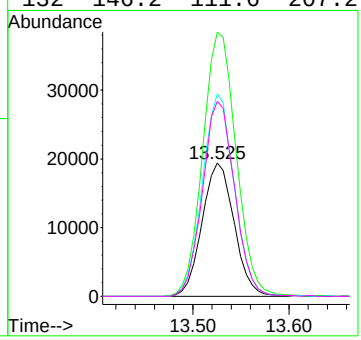


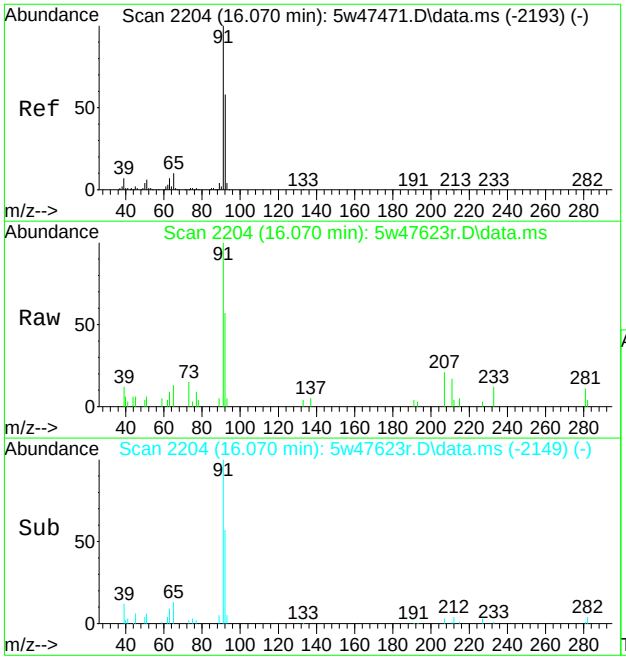


#56
Trichloroethene
Concen: 1.84 ppb(v)
RT: 13.525 min Scan# 1788
Delta R.T. 0.000 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 97 Resp: 45244

Ion	Ratio	Lower	Upper
97	100		
95	198.1	114.4	212.6
130	151.9	115.1	213.8
132	146.2	111.6	207.2

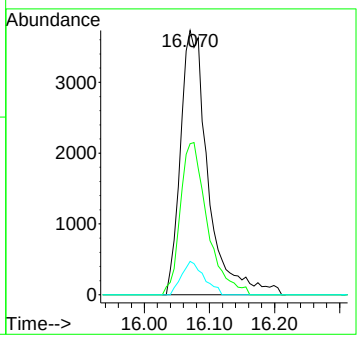




#66
Toluene
Concen: 0.11 ppb(v)
RT: 16.070 min Scan# 2204
Delta R.T. 0.006 min
Lab File: 5w47623r.D
Acq: 28 Jan 2022 1:41 am

Tgt Ion: 91 Resp: 10988

Ion	Ratio	Lower	Upper
91	100		
92	57.1	40.9	75.9
65	12.7	7.3	13.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47624r.D
Acq On : 28 Jan 2022 2:29 am
Operator : thomash
Sample : jd38291-12r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 28 11:00:54 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

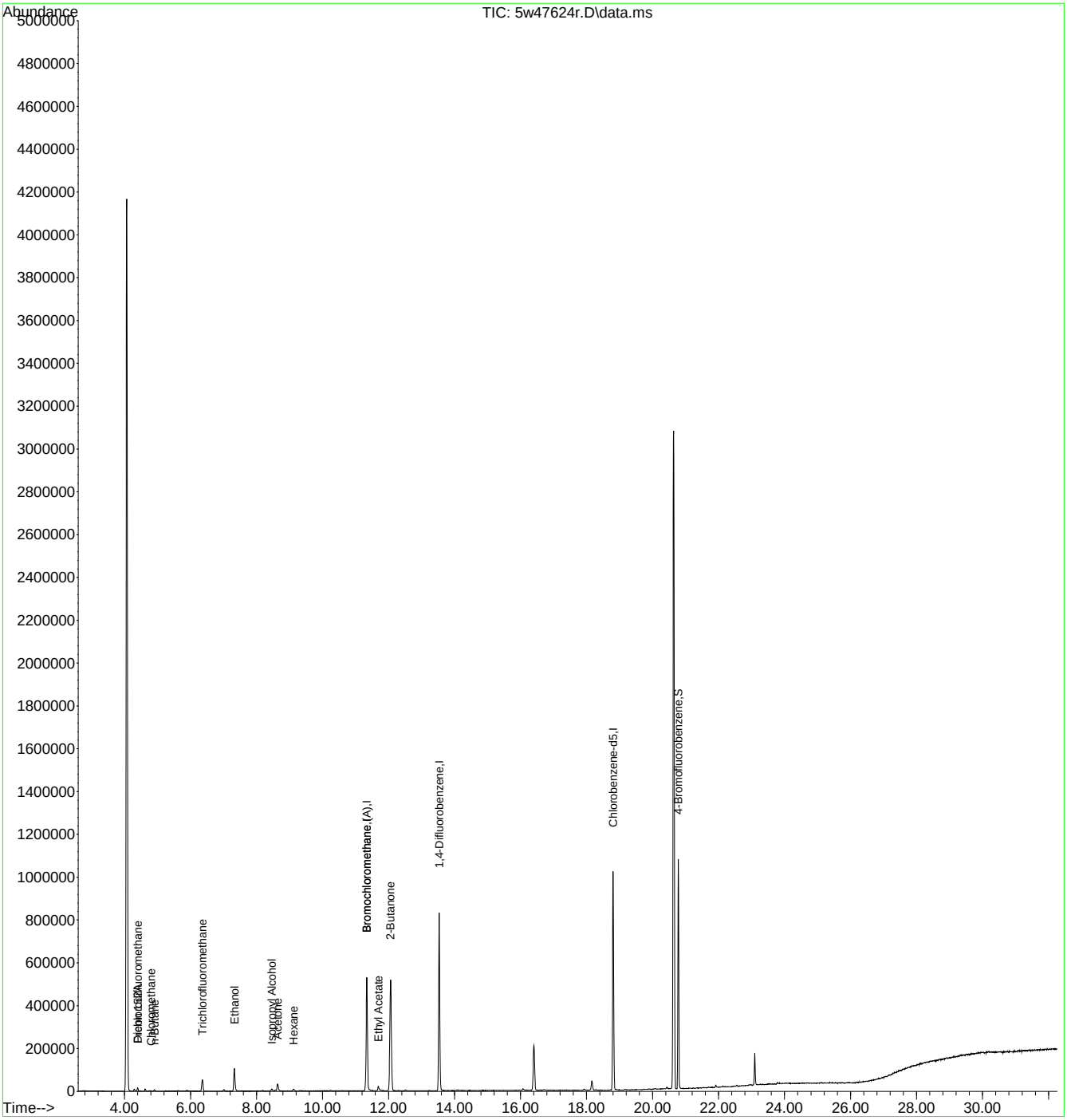
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	231528	10.00	ppb(v	# 0.00
53) 1,4-Difluorobenzene	13.538	114	911992	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	428425	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	231528	10.00	ppb(v	# 0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	412223	7.62	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 76.20%			
Target Compounds						Qvalue
2) Freon 152A	4.398	65	6006	0.53	ppb(v	95
6) Dichlorodifluoromethane	4.398	85	6870	0.11	ppb(v	98
8) Chloromethane	4.801	50	2941	0.18	ppb(v	93
12) n-Butane	4.912	58	792	0.30	ppb(v#	82
21) Trichlorofluoromethane	6.355	101	63067	1.03	ppb(v	98
22) Acetone	8.637	58	18359	1.94	ppb(v	98
25) Isopropyl Alcohol	8.460	43	3356	0.53	ppb(v	91
30) Ethanol	7.328	45	173196	22.35	ppb(v	98
38) 2-Butanone	12.057	72	11028	1.11	ppb(v#	20
39) Hexane	9.127	56	3101	0.17	ppb(v	81
42) Ethyl Acetate	11.690	61	6185	0.89	ppb(v	98

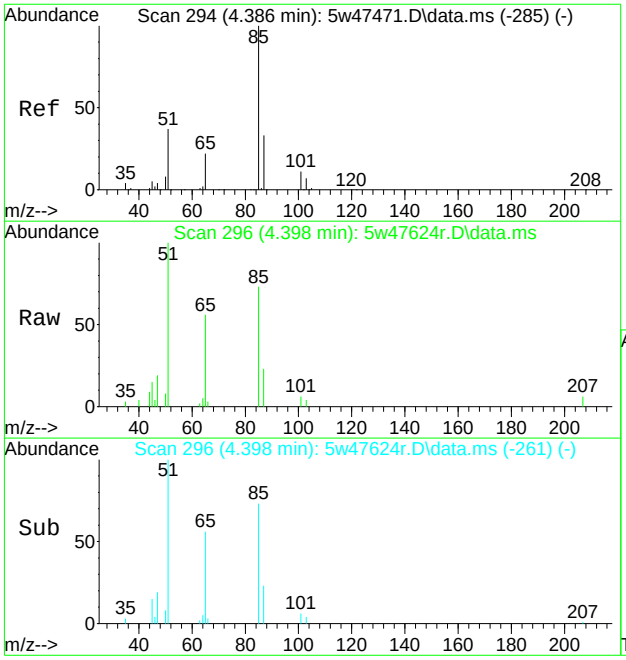
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47624r.D
Acq On : 28 Jan 2022 2:29 am
Operator : thomash
Sample : jd38291-12r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 28 11:00:54 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

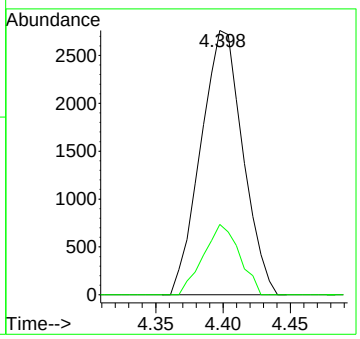


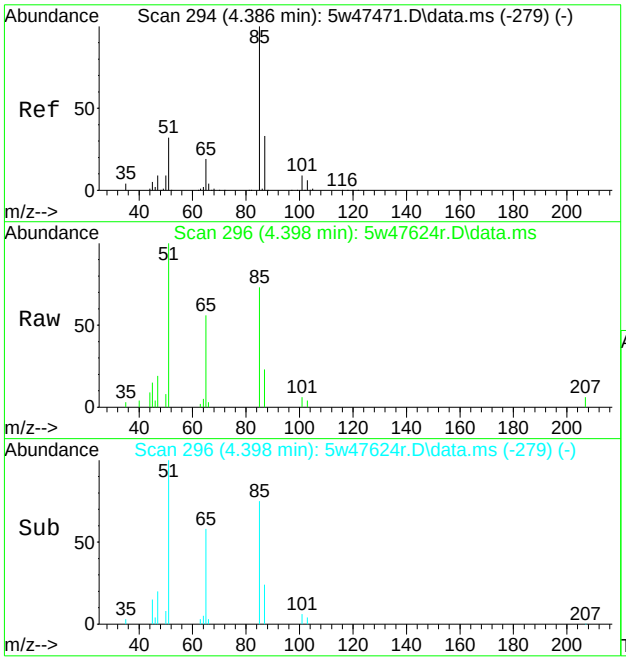


#2
Freon 152A
Concen: 0.53 ppb(v)
RT: 4.398 min Scan# 296
Delta R.T. 0.012 min
Lab File: 5w47624r.D
Acq: 28 Jan 2022 2:29 am

Tgt Ion: 65 Resp: 6006

Ion	Ratio	Lower	Upper
65	100		
45	26.6	17.1	31.7

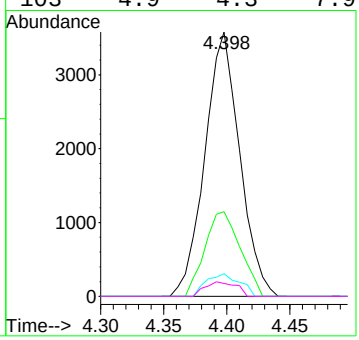


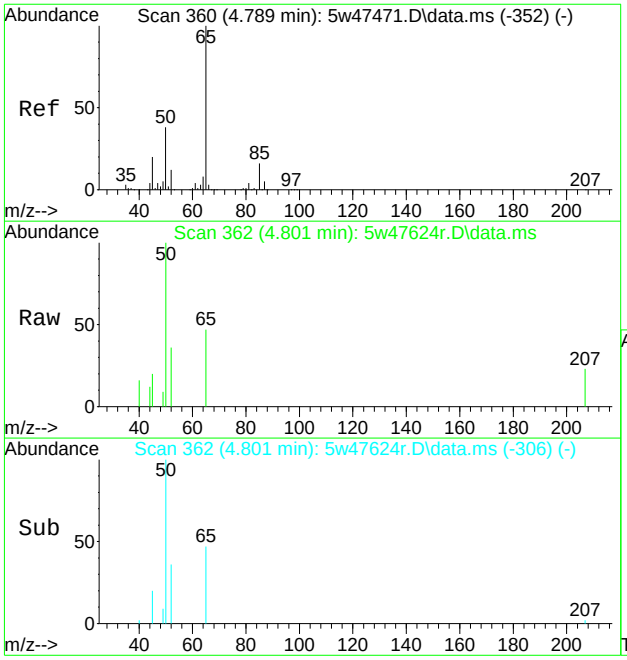


#6
Dichlorodifluoromethane
Concen: 0.11 ppb(v)
RT: 4.398 min Scan# 296
Delta R.T. 0.012 min
Lab File: 5w47624r.D
Acq: 28 Jan 2022 2:29 am

Tgt Ion: 85 Resp: 6870

Ion	Ratio	Lower	Upper
85	100		
87	32.0	23.0	42.8
101	8.7	6.5	12.1
103	4.9	4.3	7.9

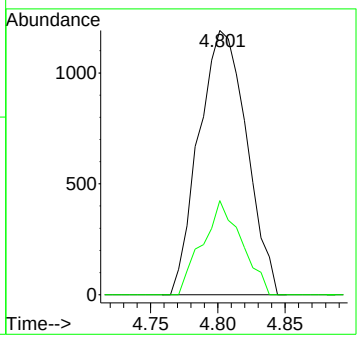


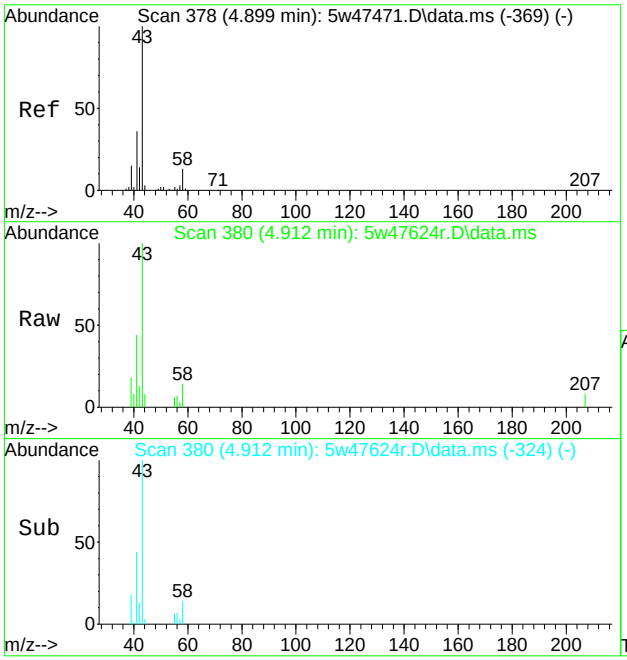


#8
Chloromethane
Concen: 0.18 ppb(v)
RT: 4.801 min Scan# 362
Delta R.T. 0.012 min
Lab File: 5w47624r.D
Acq: 28 Jan 2022 2:29 am

Tgt Ion: 50 Resp: 2941

Ion	Ratio	Lower	Upper
50	100		
52	35.7	22.4	41.6

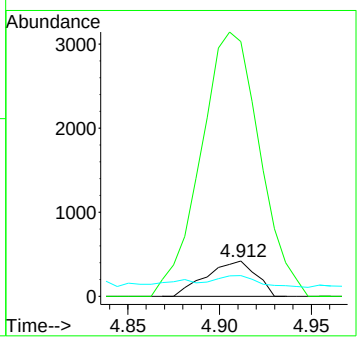


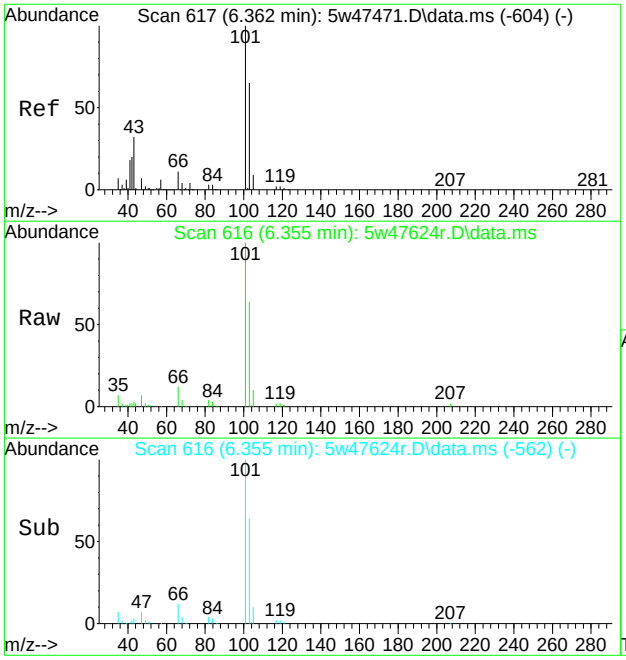


#12
n-Butane
Concen: 0.30 ppb(v)
RT: 4.912 min Scan# 380
Delta R.T. 0.012 min
Lab File: 5w47624r.D
Acq: 28 Jan 2022 2:29 am

Tgt Ion: 58 Resp: 792

Ion	Ratio	Lower	Upper
58	100		
43	720.0	547.0	1015.8
44	58.7	18.8	35.0#

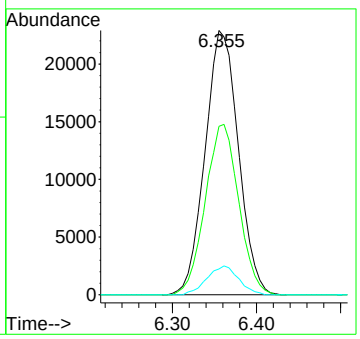


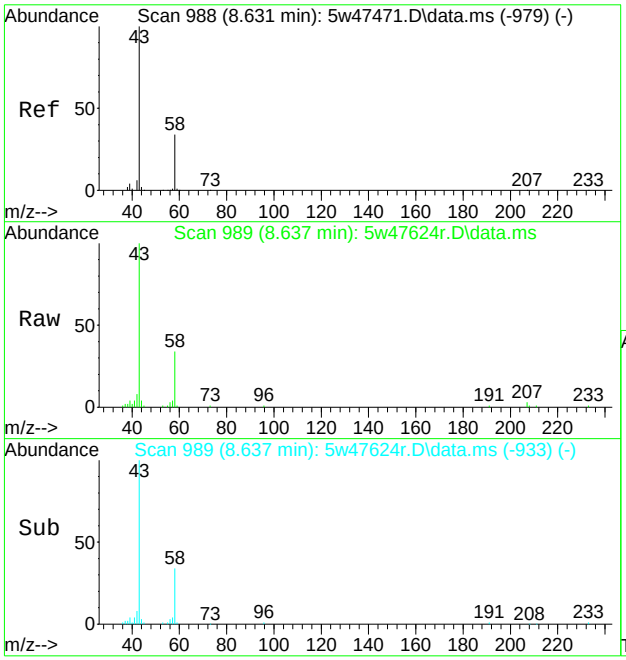


#21
Trichlorofluoromethane
Concen: 1.03 ppb(v)
RT: 6.355 min Scan# 616
Delta R.T. 0.000 min
Lab File: 5w47624r.D
Acq: 28 Jan 2022 2:29 am

Tgt Ion:101 Resp: 63067

Ion	Ratio	Lower	Upper
101	100		
103	63.7	45.5	84.5
105	9.8	7.6	14.0

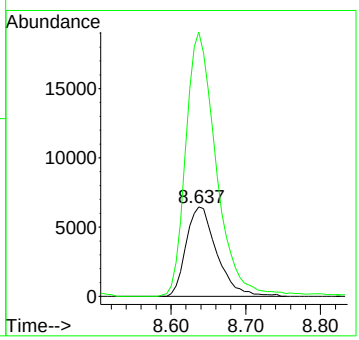


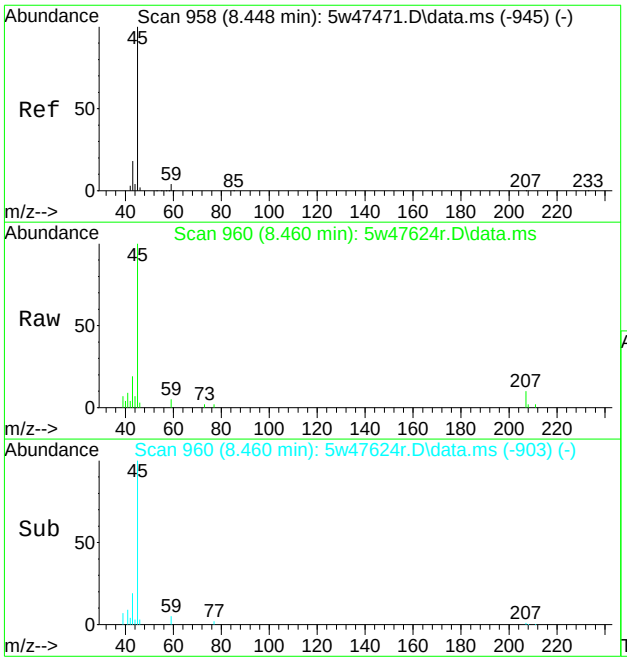


#22
Acetone
Concen: 1.94 ppb(v)
RT: 8.637 min Scan# 989
Delta R.T. 0.012 min
Lab File: 5w47624r.D
Acq: 28 Jan 2022 2:29 am

Tgt Ion: 58 Resp: 18359

Ion	Ratio	Lower	Upper
58	100		
43	296.1	210.1	390.1

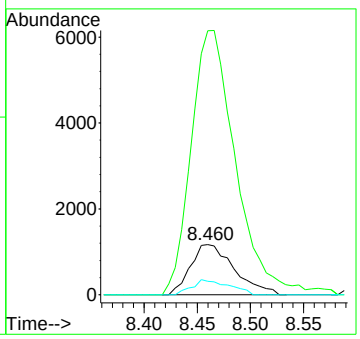


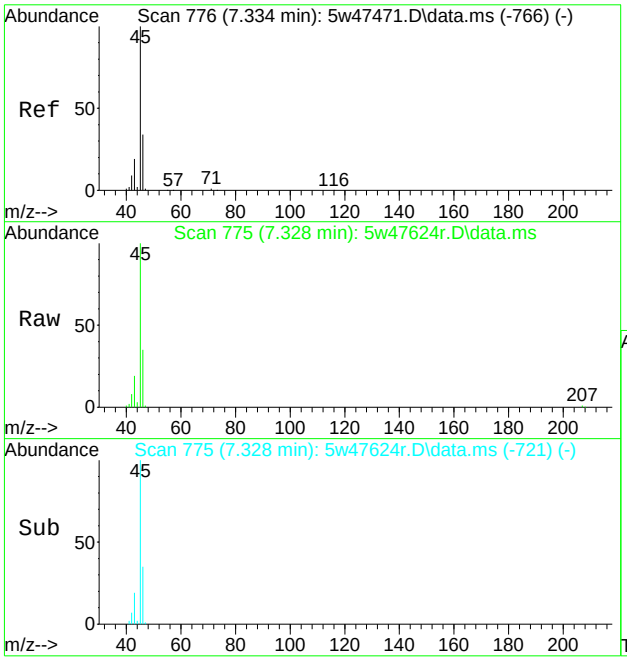


#25
Isopropyl Alcohol
Concen: 0.53 ppb(v)
RT: 8.460 min Scan# 960
Delta R.T. 0.018 min
Lab File: 5w47624r.D
Acq: 28 Jan 2022 2:29 am

Tgt Ion: 43 Resp: 3356

Ion	Ratio	Lower	Upper
43	100		
45	524.3	387.0	718.6
59	26.7	17.4	32.2

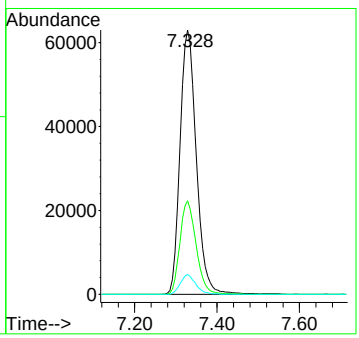


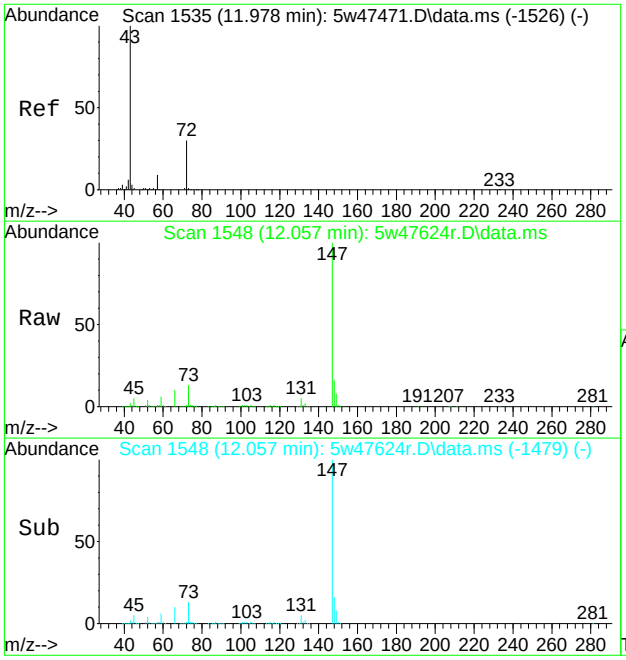


#30
Ethanol
Concen: 22.35 ppb(v)
RT: 7.328 min Scan# 775
Delta R.T. 0.000 min
Lab File: 5w47624r.D
Acq: 28 Jan 2022 2:29 am

Tgt Ion: 45 Resp: 173196

Ion	Ratio	Lower	Upper
45	100		
46	35.4	23.9	44.5
42	7.6	6.1	11.3

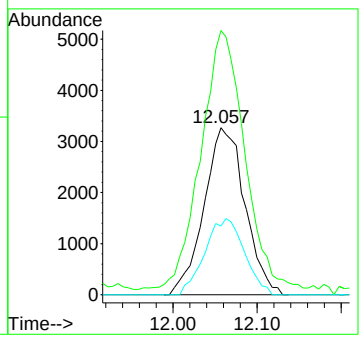


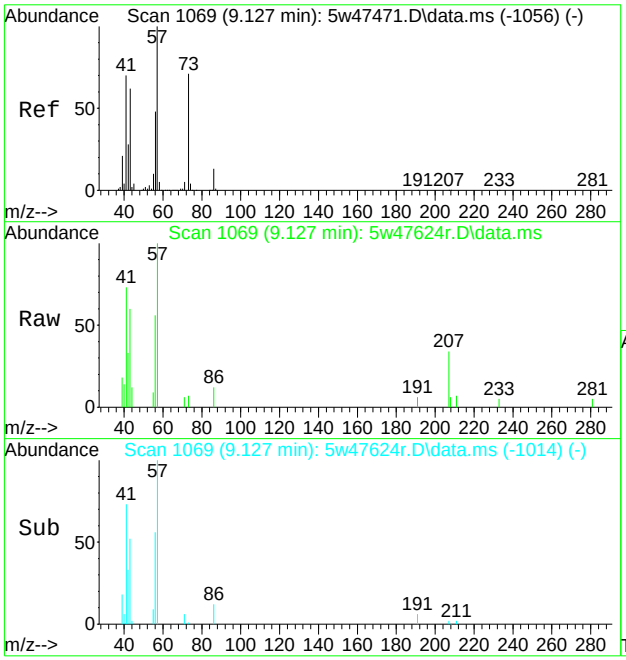


#38
2-Butanone
Concen: 1.11 ppb(v)
RT: 12.057 min Scan# 1548
Delta R.T. 0.092 min
Lab File: 5w47624r.D
Acq: 28 Jan 2022 2:29 am

Tgt Ion: 72 Resp: 11028

Ion	Ratio	Lower	Upper
72	100		
43	158.1	236.3	438.9#
57	41.1	20.6	38.2#

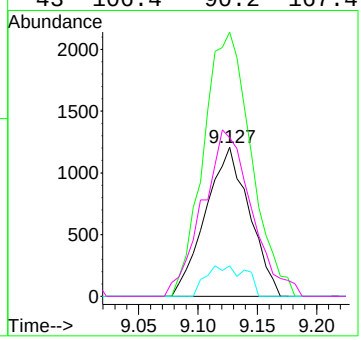


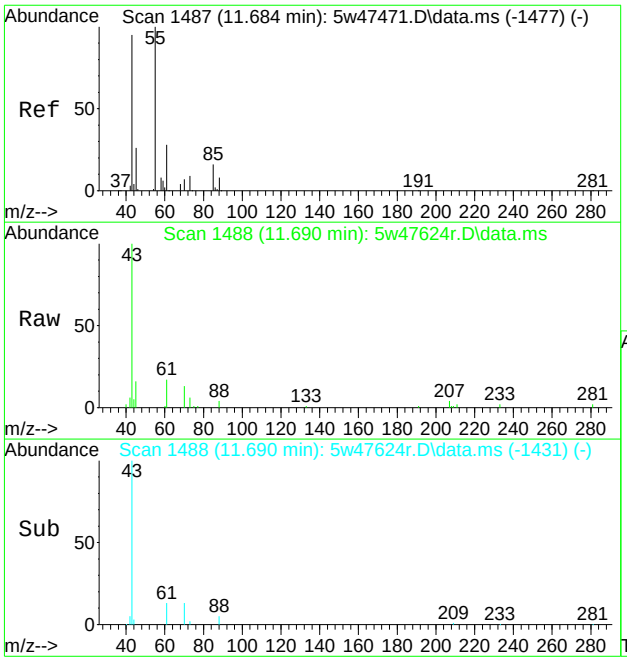


#39
Hexane
Concen: 0.17 ppb(v)
RT: 9.127 min Scan# 1069
Delta R.T. 0.006 min
Lab File: 5w47624r.D
Acq: 28 Jan 2022 2:29 am

Tgt Ion: 56 Resp: 3101

Ion	Ratio	Lower	Upper
56	100		
57	177.4	146.2	271.4
86	20.6	18.6	34.6
43	106.4	90.2	167.4

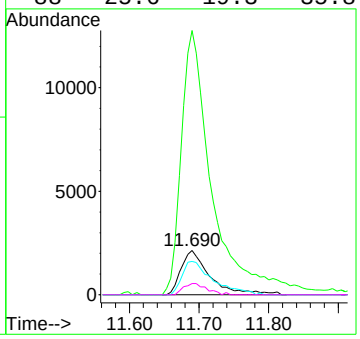




#42
Ethyl Acetate
Concen: 0.89 ppb(v)
RT: 11.690 min Scan# 1488
Delta R.T. 0.018 min
Lab File: 5w47624r.D
Acq: 28 Jan 2022 2:29 am

Tgt Ion: 61 Resp: 6185

Ion	Ratio	Lower	Upper
61	100		
43	598.2	421.6	783.0
70	75.5	57.0	105.8
88	25.6	19.3	35.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47625r.D
Acq On : 28 Jan 2022 3:19 am
Operator : thomash
Sample : jd38291-14r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 28 11:02:39 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

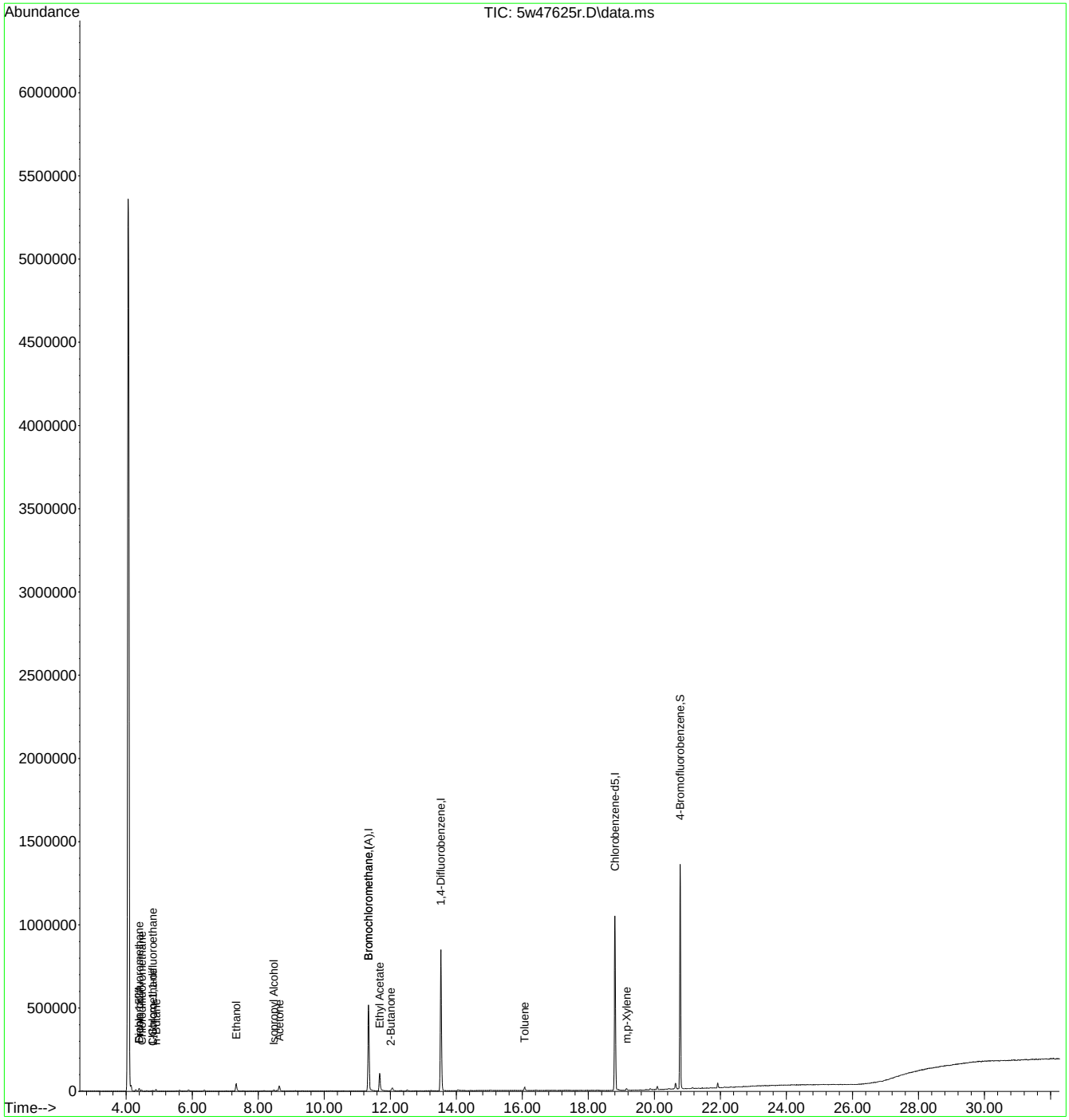
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	236106	10.00	ppb(v	# 0.00
53) 1,4-Difluorobenzene	13.531	114	933575	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	441437	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	236106	10.00	ppb(v	# 0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	520274	9.33	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 93.30%			
Target Compounds						Qvalue
2) Freon 152A	4.392	65	6797	0.59	ppb(v	99
3) Chlorodifluoromethane	4.471	67	2137	0.44	ppb(v	99
6) Dichlorodifluoromethane	4.392	85	7616	0.12	ppb(v	98
7) 1-Chloro-1,1-difluoroe...	4.801	65	4097	0.11	ppb(v#	89
8) Chloromethane	4.801	50	2391	0.15	ppb(v	97
12) n-Butane	4.905	58	1380	0.51	ppb(v#	92
22) Acetone	8.637	58	17677	1.83	ppb(v	99
25) Isopropyl Alcohol	8.466	43	2321	0.36	ppb(v	82
30) Ethanol	7.328	45	74441	9.42	ppb(v	97
38) 2-Butanone	12.008	72	1559	0.15	ppb(v	96
42) Ethyl Acetate	11.678	61	26997	3.83	ppb(v	96
66) Toluene	16.070	91	22366	0.23	ppb(v	99
79) m,p-Xylene	19.154	91	9684	0.11	ppb(v#	95

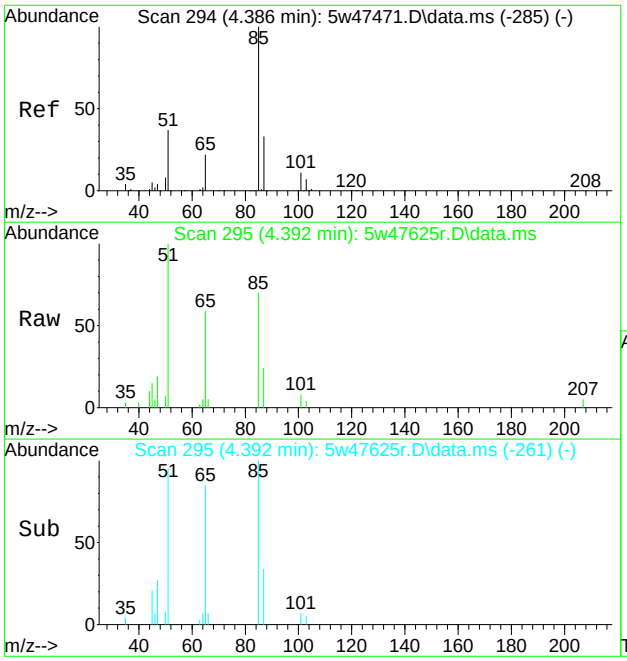
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47625r.D
Acq On : 28 Jan 2022 3:19 am
Operator : thomash
Sample : jd38291-14r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 28 11:02:39 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

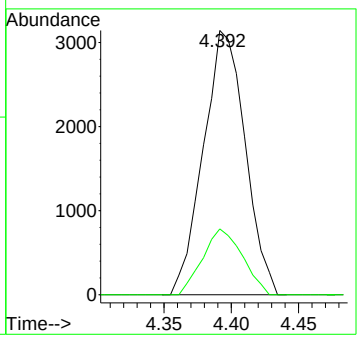


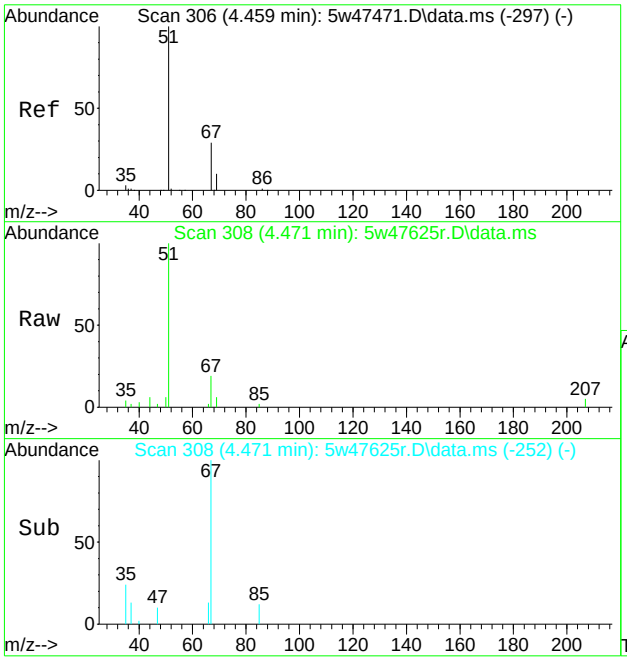


#2
Freon 152A
Concen: 0.59 ppb(v)
RT: 4.392 min Scan# 295
Delta R.T. 0.006 min
Lab File: 5w47625r.D
Acq: 28 Jan 2022 3:19 am

Tgt Ion: 65 Resp: 6797

Ion	Ratio	Lower	Upper
65	100		
45	24.9	17.1	31.7

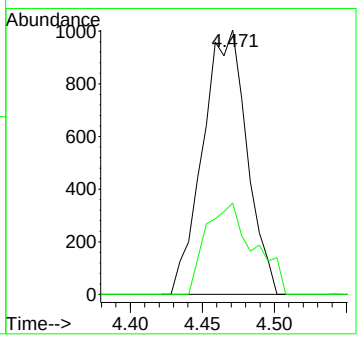


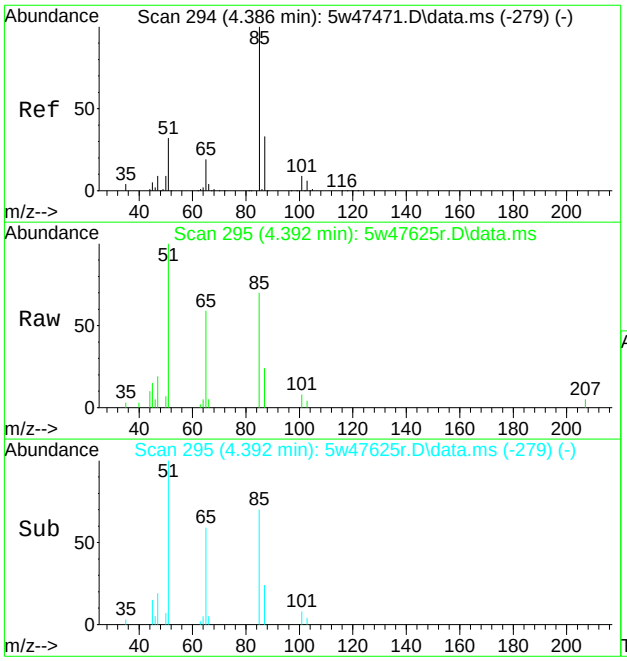


#3
Chlorodifluoromethane
Concen: 0.44 ppb(v)
RT: 4.471 min Scan# 308
Delta R.T. 0.012 min
Lab File: 5w47625r.D
Acq: 28 Jan 2022 3:19 am

Tgt Ion: 67 Resp: 2137

Ion	Ratio	Lower	Upper
67	100		
69	34.6	23.9	44.3

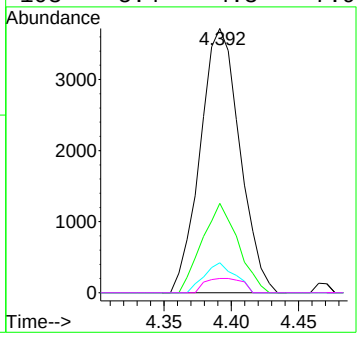


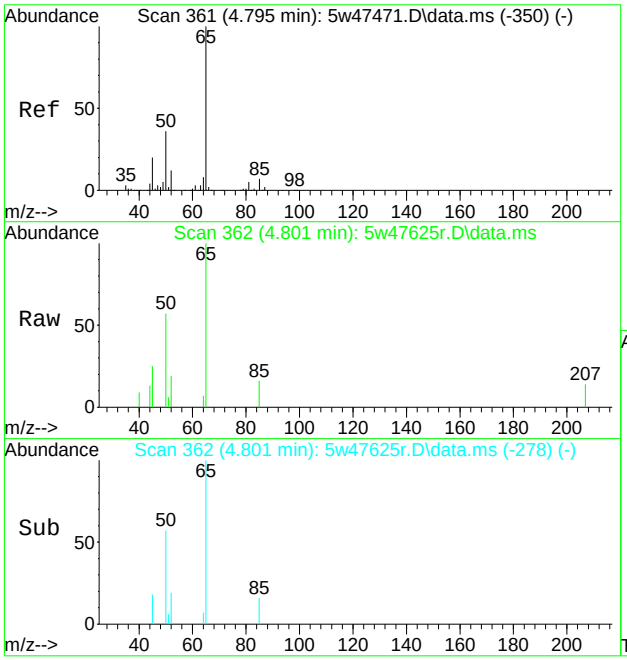


#6
Dichlorodifluoromethane
Concen: 0.12 ppb(v)
RT: 4.392 min Scan# 295
Delta R.T. 0.006 min
Lab File: 5w47625r.D
Acq: 28 Jan 2022 3:19 am

Tgt Ion: 85 Resp: 7616

Ion	Ratio	Lower	Upper
85	100		
87	33.8	23.0	42.8
101	11.3	6.5	12.1
103	5.4	4.3	7.9

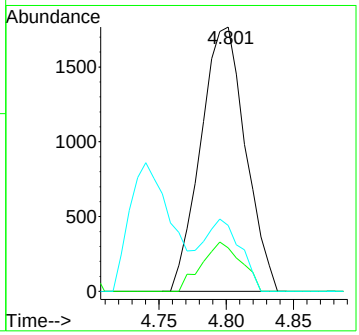


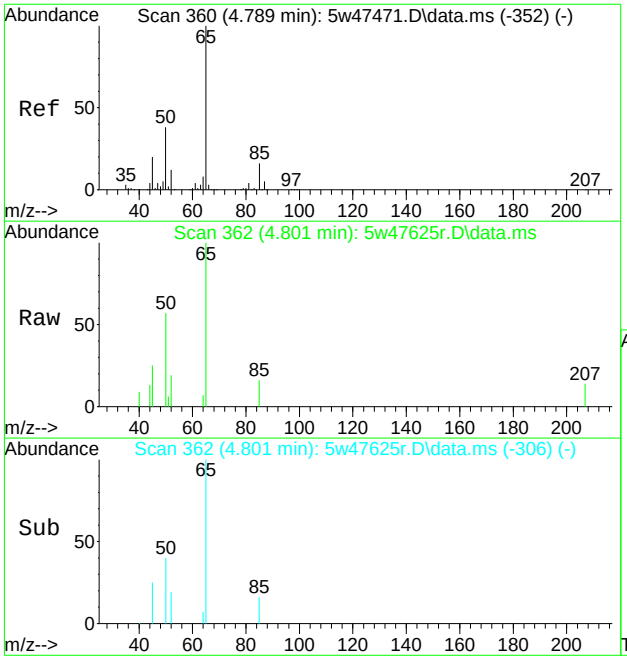


#7
1-Chloro-1,1-difluoroethane
Concen: 0.11 ppb(v)
RT: 4.801 min Scan# 362
Delta R.T. 0.012 min
Lab File: 5w47625r.D
Acq: 28 Jan 2022 3:19 am

Tgt Ion: 65 Resp: 4097

Ion	Ratio	Lower	Upper
65	100		
85	16.5	13.7	20.5
45	11.6	16.6	24.8#

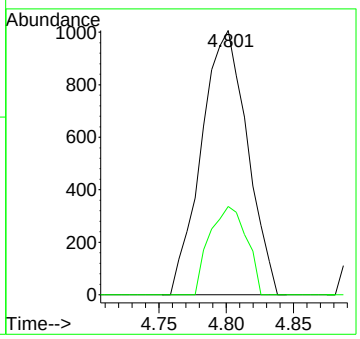


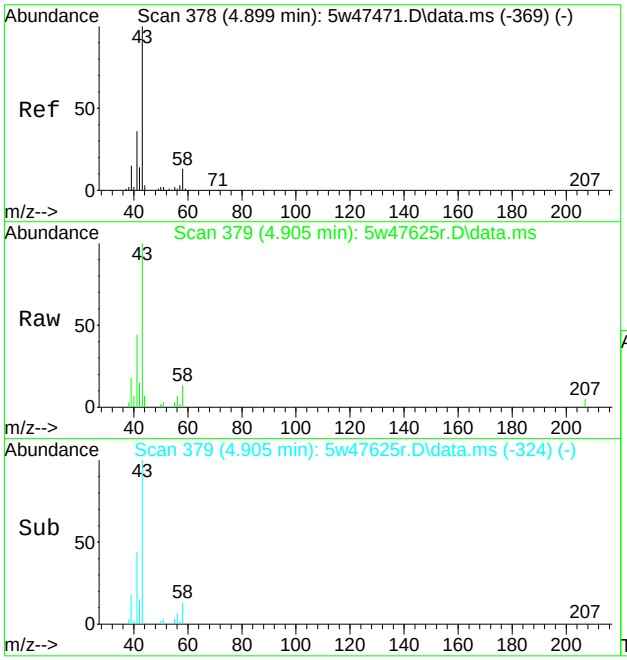


#8
Chloromethane
Concen: 0.15 ppb(v)
RT: 4.801 min Scan# 362
Delta R.T. 0.012 min
Lab File: 5w47625r.D
Acq: 28 Jan 2022 3:19 am

Tgt Ion: 50 Resp: 2391

Ion	Ratio	Lower	Upper
50	100		
52	33.5	22.4	41.6

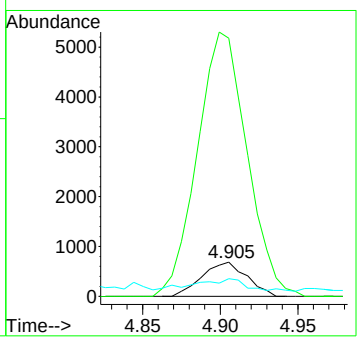


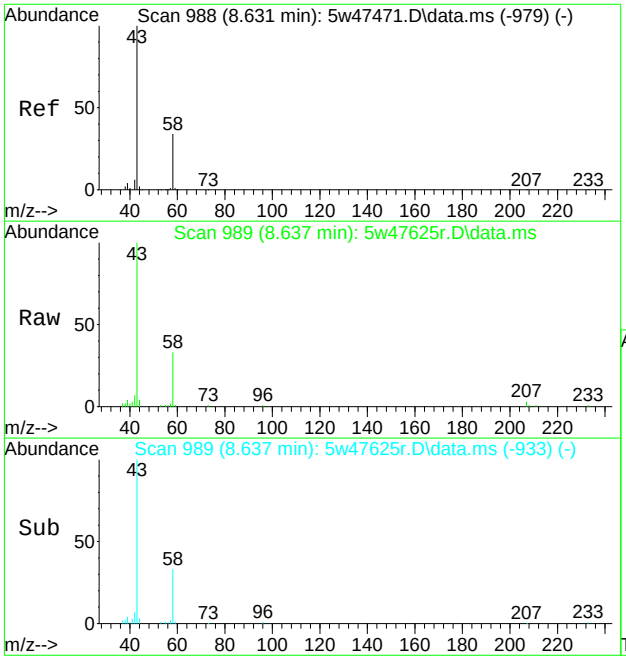


#12
n-Butane
Concen: 0.51 ppb(v)
RT: 4.905 min Scan# 379
Delta R.T. 0.006 min
Lab File: 5w47625r.D
Acq: 28 Jan 2022 3:19 am

Tgt Ion: 58 Resp: 1380

Ion	Ratio	Lower	Upper
58	100		
43	755.5	547.0	1015.8
44	52.0	18.8	35.0#

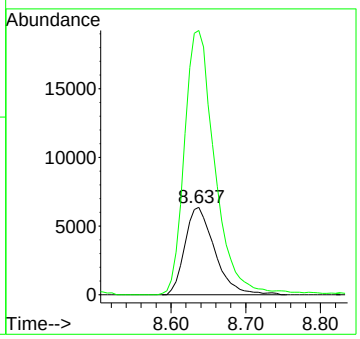


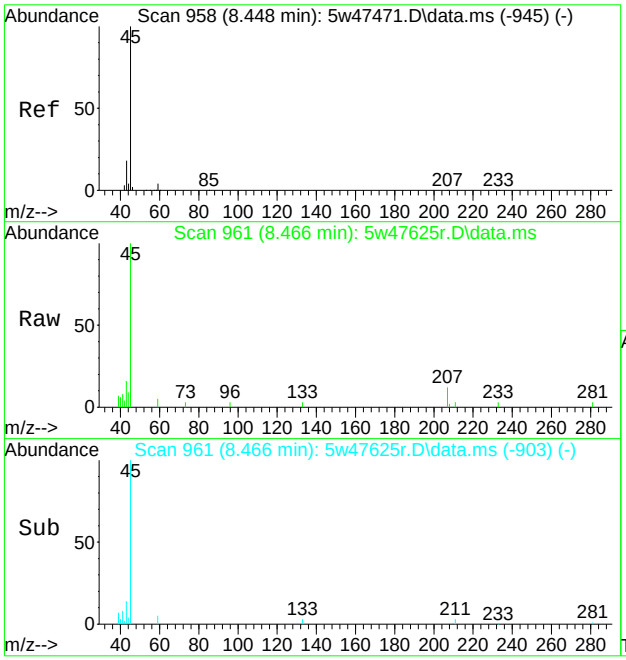


#22
Acetone
Concen: 1.83 ppb(v)
RT: 8.637 min Scan# 989
Delta R.T. 0.012 min
Lab File: 5w47625r.D
Acq: 28 Jan 2022 3:19 am

Tgt Ion: 58 Resp: 17677

Ion	Ratio	Lower	Upper
58	100		
43	302.7	210.1	390.1

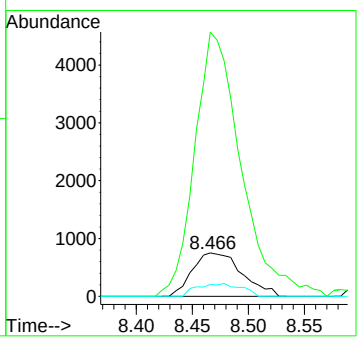


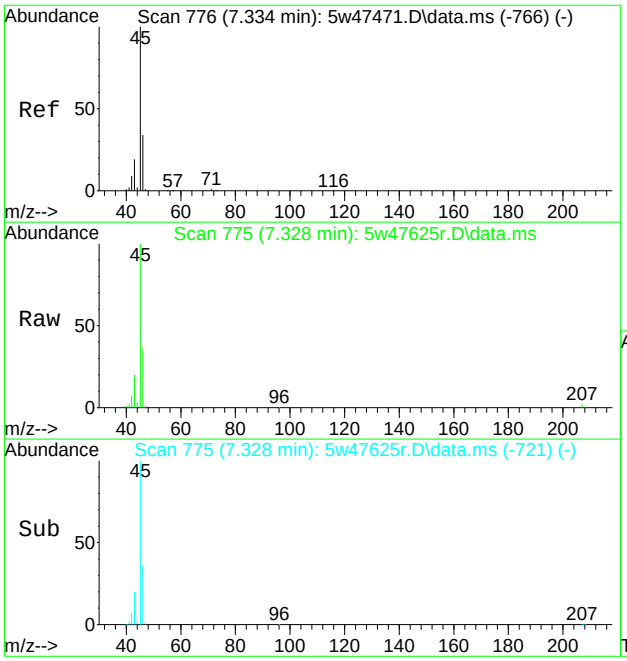


#25
Isopropyl Alcohol
Concen: 0.36 ppb(v)
RT: 8.466 min Scan# 961
Delta R.T. 0.024 min
Lab File: 5w47625r.D
Acq: 28 Jan 2022 3:19 am

Tgt Ion: 43 Resp: 2321

Ion	Ratio	Lower	Upper
43	100		
45	607.2	387.0	718.6
59	27.5	17.4	32.2

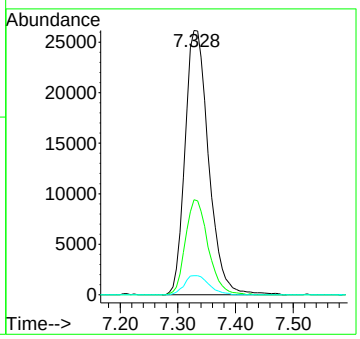


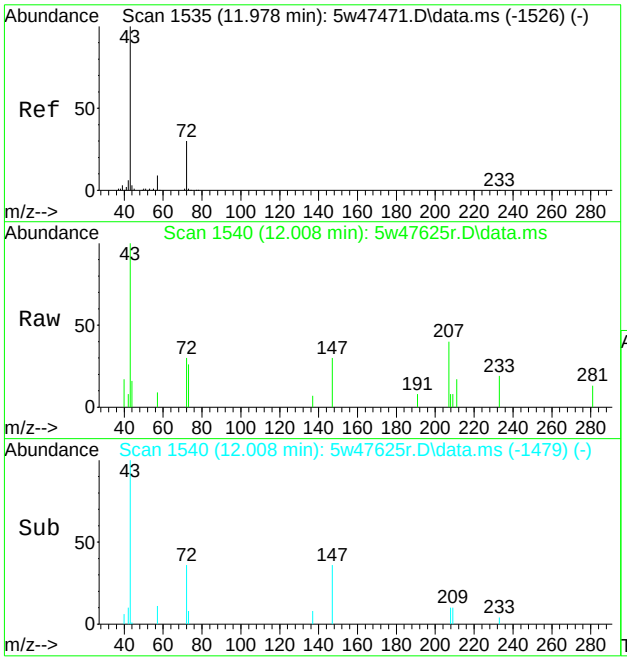


#30
Ethanol
Concen: 9.42 ppb(v)
RT: 7.328 min Scan# 775
Delta R.T. 0.000 min
Lab File: 5w47625r.D
Acq: 28 Jan 2022 3:19 am

Tgt Ion: 45 Resp: 74441

Ion	Ratio	Lower	Upper
45	100		
46	35.9	23.9	44.5
42	7.3	6.1	11.3

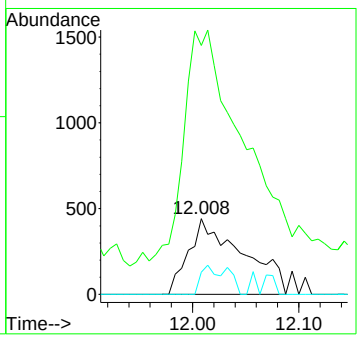


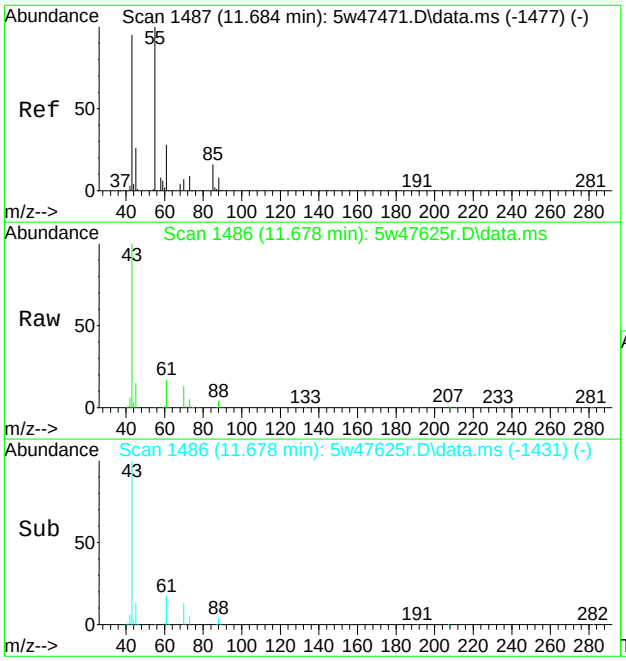


#38
2-Butanone
Concen: 0.15 ppb(v)
RT: 12.008 min Scan# 1540
Delta R.T. 0.043 min
Lab File: 5w47625r.D
Acq: 28 Jan 2022 3:19 am

Tgt Ion: 72 Resp: 1559

Ion	Ratio	Lower	Upper
72	100		
43	328.5	236.3	438.9
57	29.4	20.6	38.2

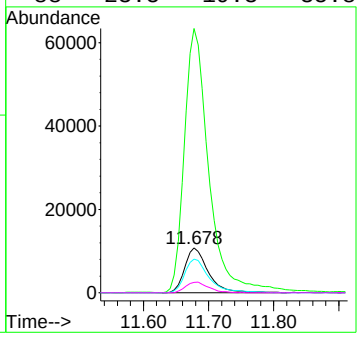


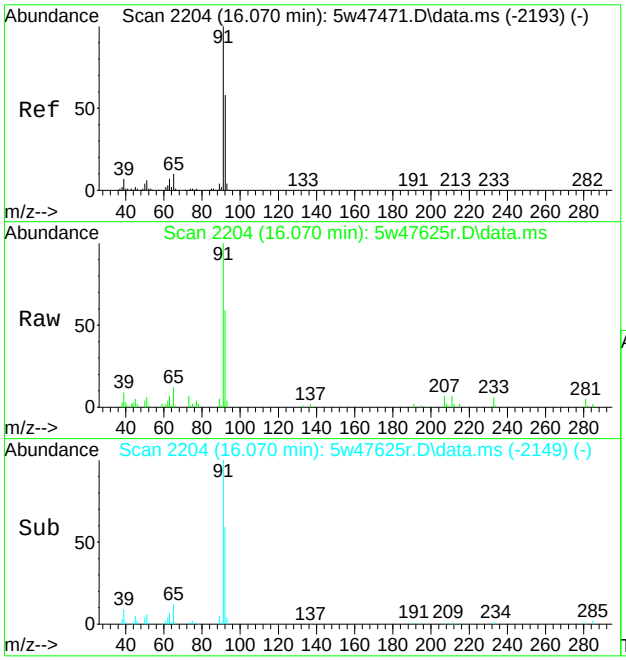


#42
Ethyl Acetate
Concen: 3.83 ppb(v)
RT: 11.678 min Scan# 1486
Delta R.T. 0.006 min
Lab File: 5w47625r.D
Acq: 28 Jan 2022 3:19 am

Tgt Ion: 61 Resp: 26997

Ion	Ratio	Lower	Upper
61	100		
43	589.9	421.6	783.0
70	75.3	57.0	105.8
88	23.5	19.3	35.8

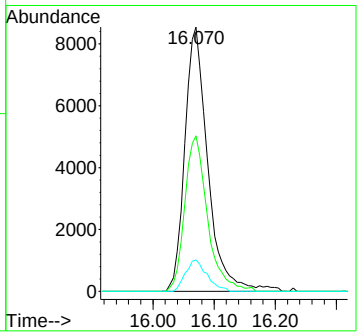


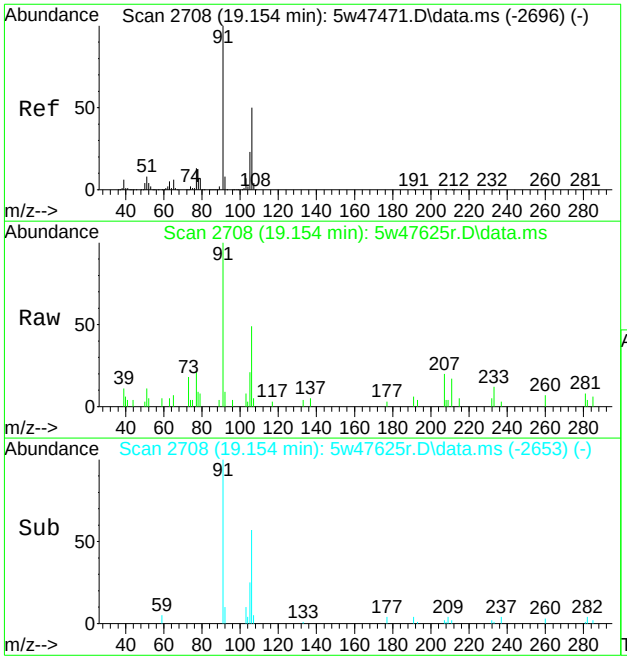


#66
Toluene
Concen: 0.23 ppb(v)
RT: 16.070 min Scan# 2204
Delta R.T. 0.006 min
Lab File: 5w47625r.D
Acq: 28 Jan 2022 3:19 am

Tgt Ion: 91 Resp: 22366

Ion	Ratio	Lower	Upper
91	100		
92	58.9	40.9	75.9
65	11.8	7.3	13.5

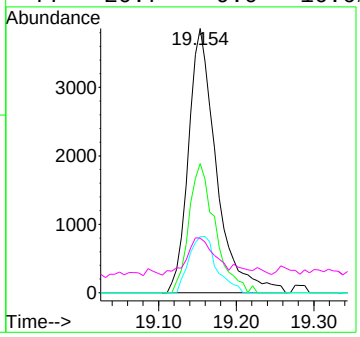




#79
m,p-Xylene
Concen: 0.11 ppb(v)
RT: 19.154 min Scan# 2708
Delta R.T. 0.006 min
Lab File: 5w47625r.D
Acq: 28 Jan 2022 3:19 am

Tgt Ion: 91 Resp: 9684

Ion	Ratio	Lower	Upper
91	100		
106	48.9	35.3	65.5
105	21.3	15.9	29.5
77	20.7	9.0	16.6#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47626r.D
Acq On : 28 Jan 2022 4:07 am
Operator : thomash
Sample : jd38291-15r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 28 11:04:05 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

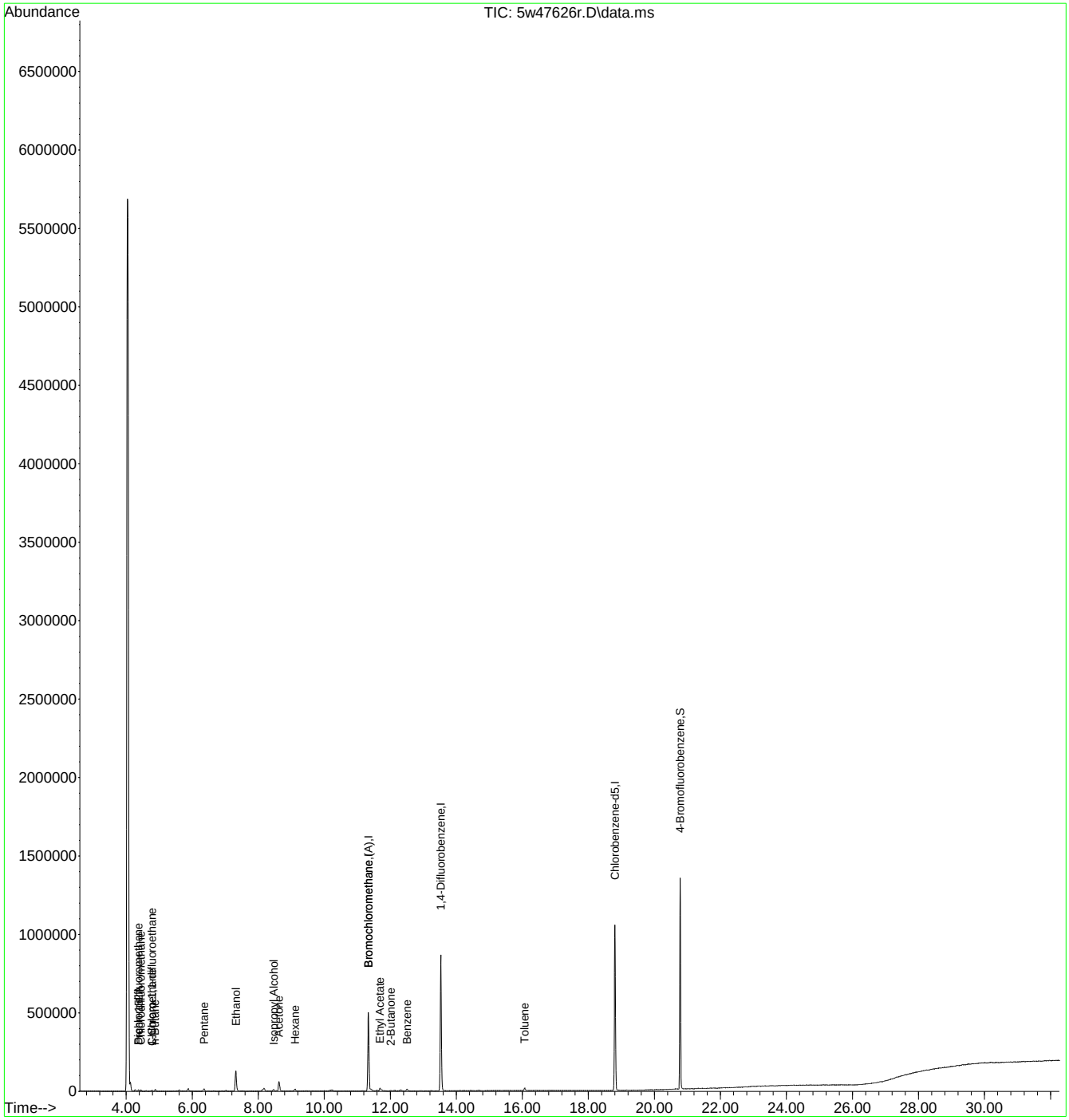
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.335	130	233831	10.00	ppb(v	#-0.01
53) 1,4-Difluorobenzene	13.531	114	930885	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	445860	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.335	130	233831	10.00	ppb(v	#-0.01
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	509780	9.05	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 90.50%			
Target Compounds						Qvalue
2) Freon 152A	4.379	65	1912	0.17	ppb(v	99
3) Chlorodifluoromethane	4.447	67	2346	0.49	ppb(v	94
6) Dichlorodifluoromethane	4.373	85	8157	0.13	ppb(v	95
7) 1-Chloro-1,1-difluoroe...	4.783	65	6386	0.17	ppb(v#	64
8) Chloromethane	4.777	50	2790	0.17	ppb(v	97
12) n-Butane	4.875	58	1313	0.49	ppb(v#	79
22) Acetone	8.625	58	30640	3.20	ppb(v	100
23) Pentane	6.361	57	1999	0.36	ppb(v	95
25) Isopropyl Alcohol	8.466	43	3802	0.59	ppb(v	90
30) Ethanol	7.322	45	211573	27.03	ppb(v	98
38) 2-Butanone	12.008	72	1307	0.13	ppb(v	81
39) Hexane	9.114	56	4737	0.25	ppb(v	88
42) Ethyl Acetate	11.684	61	5790	0.83	ppb(v	91
49) Benzene	12.504	78	14117	0.18	ppb(v	97
66) Toluene	16.064	91	19393	0.20	ppb(v	99

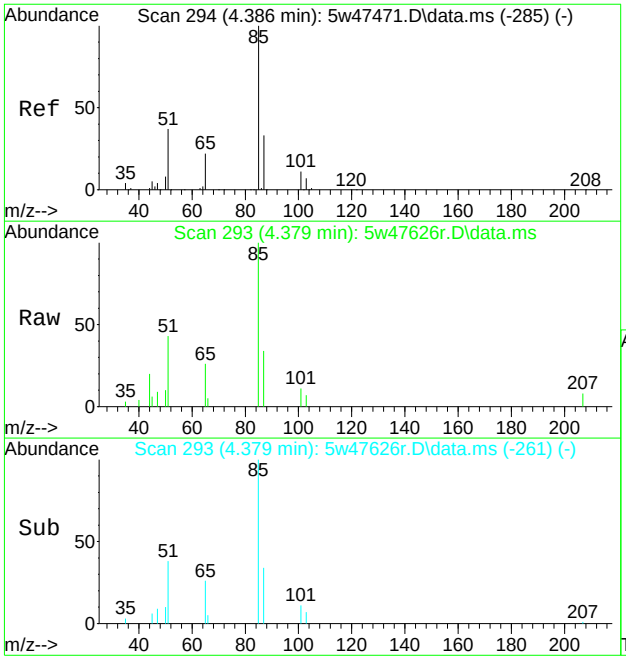
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47626r.D
Acq On : 28 Jan 2022 4:07 am
Operator : thomash
Sample : jd38291-15r
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 28 11:04:05 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

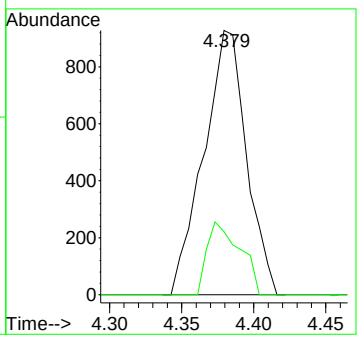


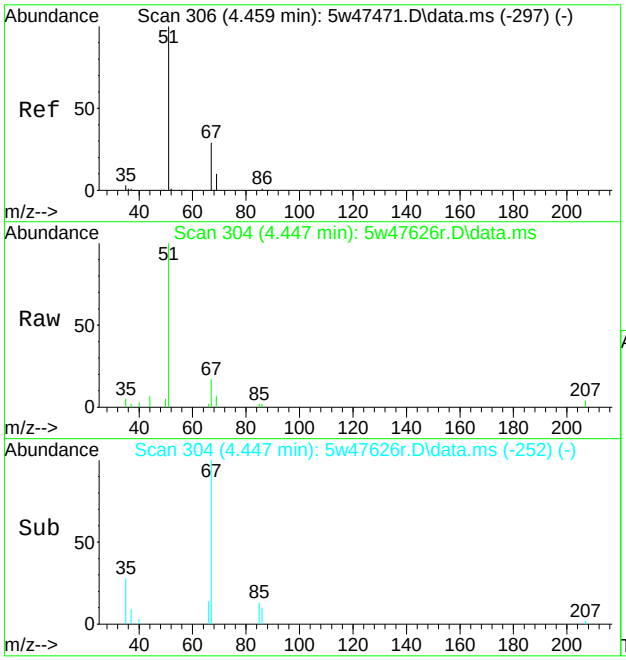


#2
Freon 152A
Concen: 0.17 ppb(v)
RT: 4.379 min Scan# 293
Delta R.T. -0.006 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 65 Resp: 1912

Ion	Ratio	Lower	Upper
65	100		
45	23.8	17.1	31.7

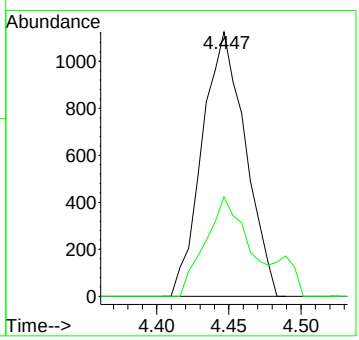


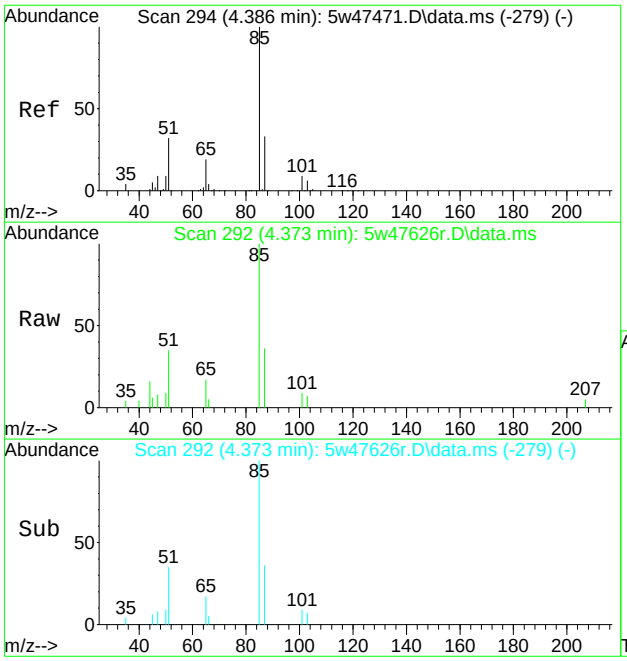


#3
Chlorodifluoromethane
Concen: 0.49 ppb(v)
RT: 4.447 min Scan# 304
Delta R.T. -0.012 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 67 Resp: 2346

Ion	Ratio	Lower	Upper
67	100		
69	37.6	23.9	44.3

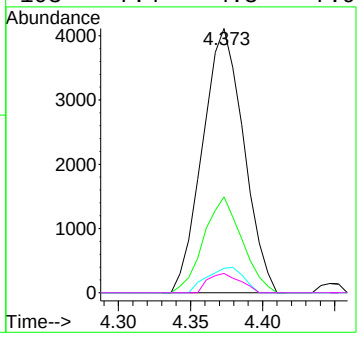


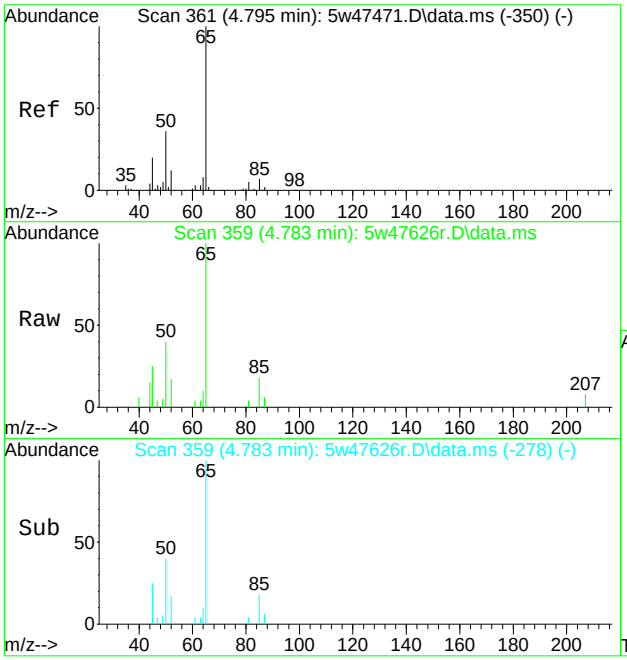


#6
Dichlorodifluoromethane
Concen: 0.13 ppb(v)
RT: 4.373 min Scan# 292
Delta R.T. -0.012 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 85 Resp: 8157

Ion	Ratio	Lower	Upper
85	100		
87	36.3	23.0	42.8
101	9.3	6.5	12.1
103	7.4	4.3	7.9

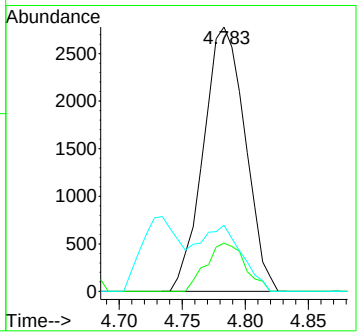


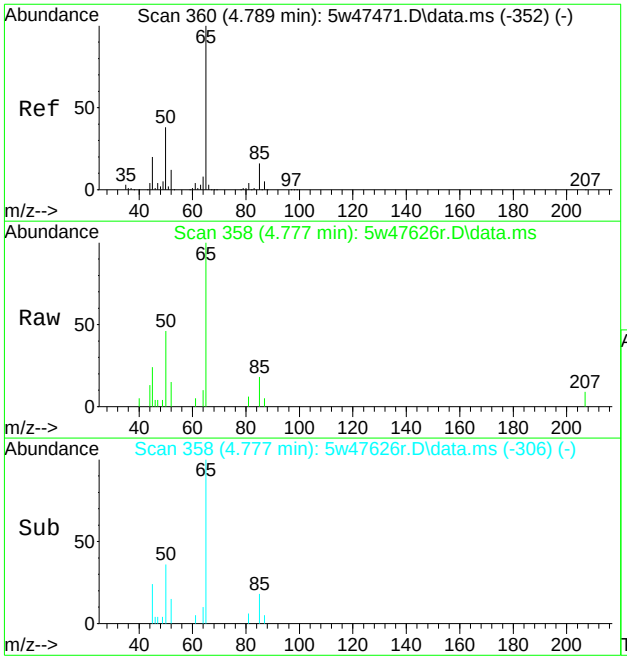


#7
1-Chloro-1,1-difluoroethane
Concen: 0.17 ppb(v)
RT: 4.783 min Scan# 359
Delta R.T. -0.006 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 65 Resp: 6386

Ion	Ratio	Lower	Upper
65	100		
85	17.0	13.7	20.5
45	51.7	16.6	24.8#

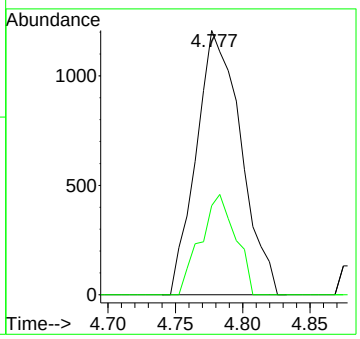


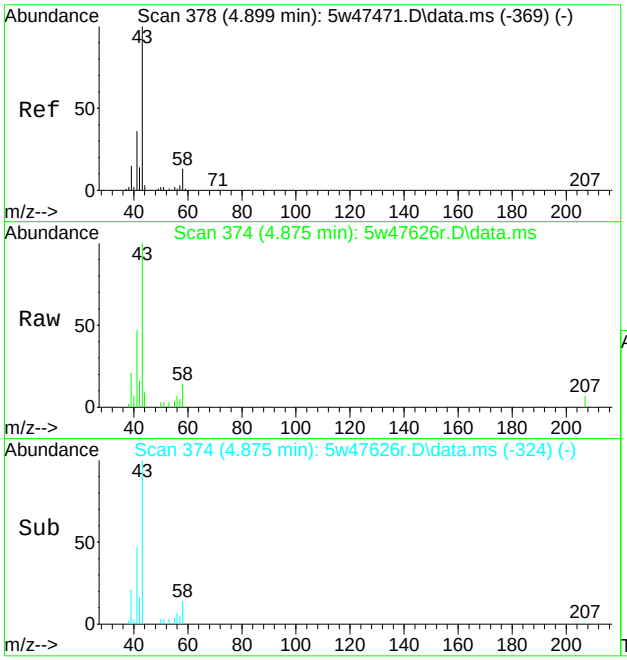


#8
Chloromethane
Concen: 0.17 ppb(v)
RT: 4.777 min Scan# 358
Delta R.T. -0.012 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 50 Resp: 2790

Ion	Ratio	Lower	Upper
50	100		
52	33.7	22.4	41.6

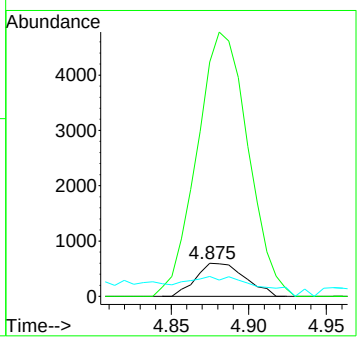


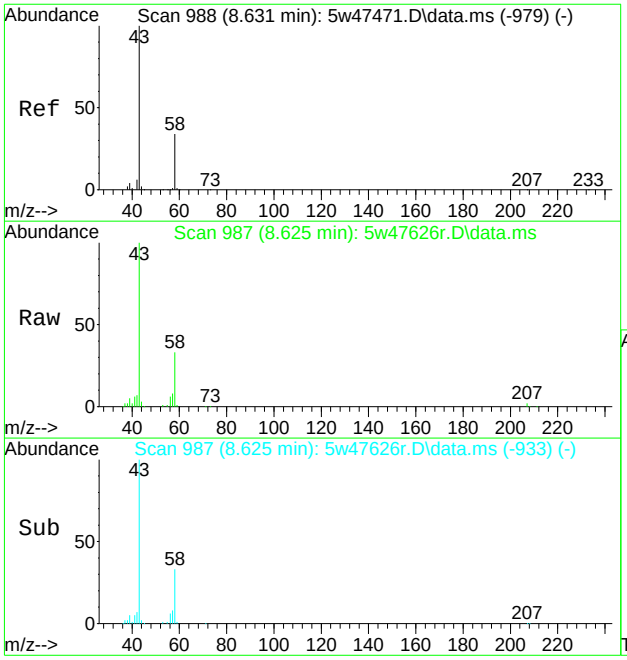


#12
n-Butane
Concen: 0.49 ppb(v)
RT: 4.875 min Scan# 374
Delta R.T. -0.024 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 58 Resp: 1313

Ion	Ratio	Lower	Upper
58	100		
43	708.5	547.0	1015.8
44	60.7	18.8	35.0#

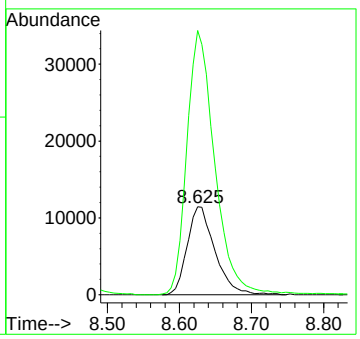


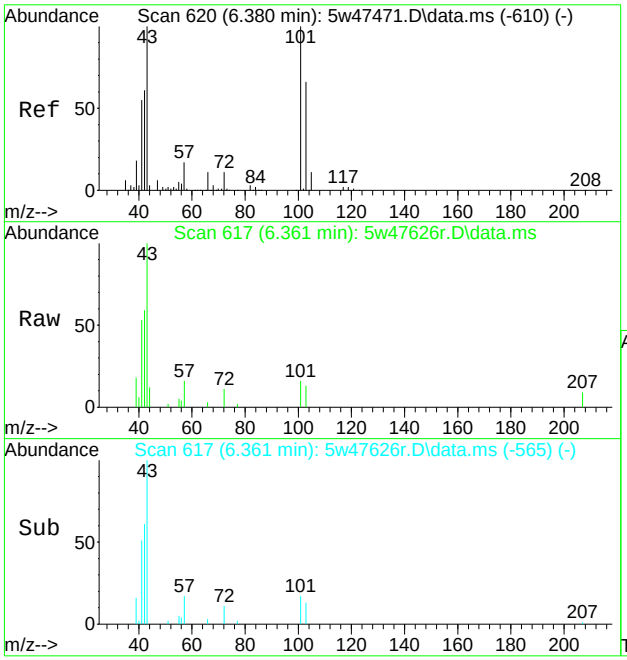


#22
Acetone
Concen: 3.20 ppb(v)
RT: 8.625 min Scan# 987
Delta R.T. -0.000 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 58 Resp: 30640

Ion	Ratio	Lower	Upper
58	100		
43	300.1	210.1	390.1

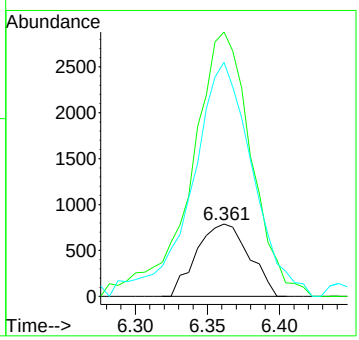


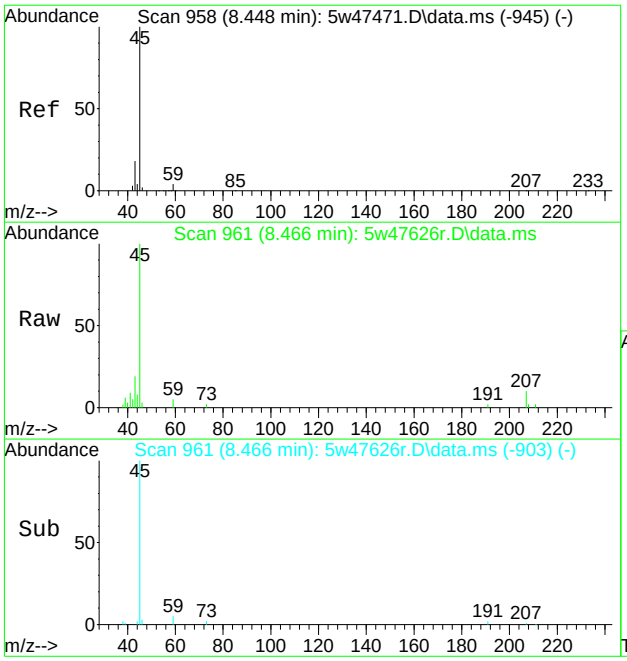


#23
Pentane
Concen: 0.36 ppb(v)
RT: 6.361 min Scan# 617
Delta R.T. -0.012 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 57 Resp: 1999

Ion	Ratio	Lower	Upper
57	100		
42	365.0	245.1	455.1
41	323.2	221.8	412.0

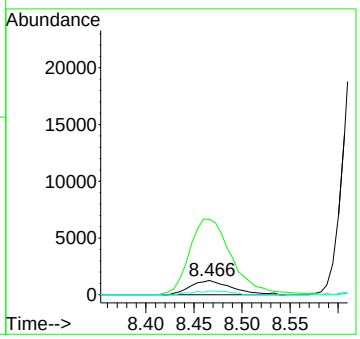


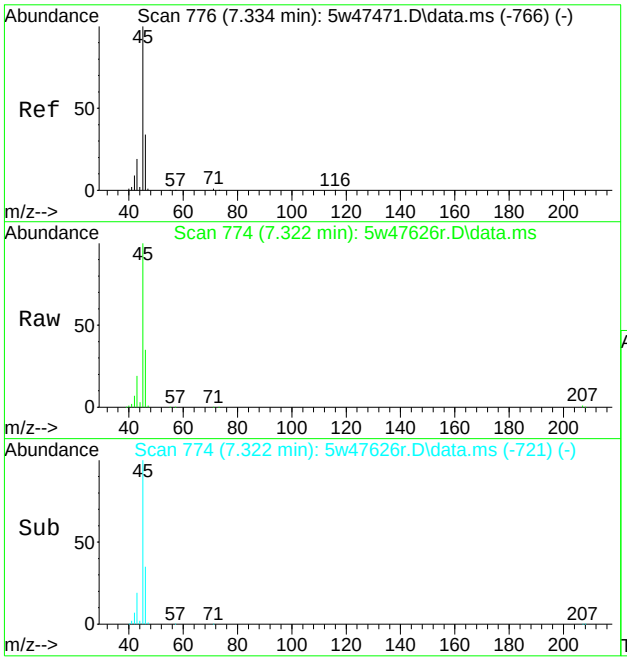


#25
Isopropyl Alcohol
Concen: 0.59 ppb(v)
RT: 8.466 min Scan# 961
Delta R.T. 0.024 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 43 Resp: 3802

Ion	Ratio	Lower	Upper
43	100		
45	521.2	387.0	718.6
59	26.1	17.4	32.2

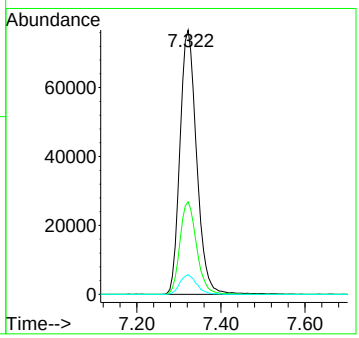


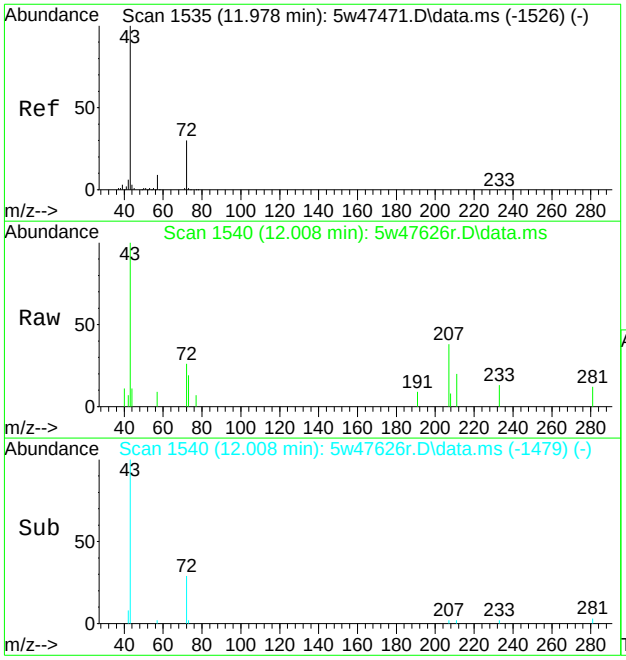


#30
Ethanol
Concen: 27.03 ppb(v)
RT: 7.322 min Scan# 774
Delta R.T. -0.006 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 45 Resp: 211573

Ion	Ratio	Lower	Upper
45	100		
46	35.0	23.9	44.5
42	7.4	6.1	11.3

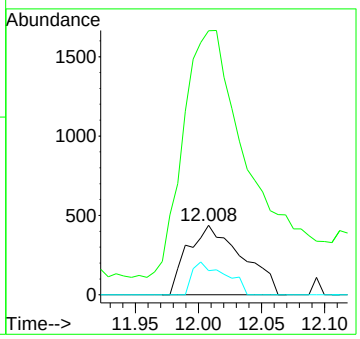


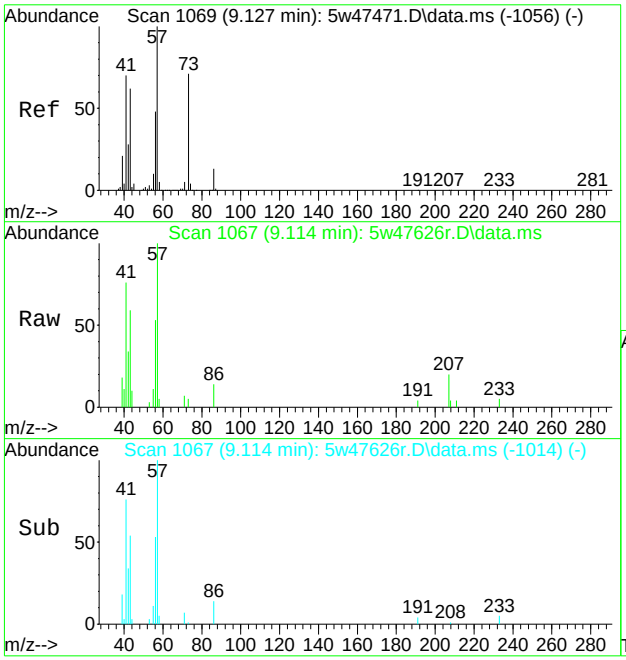


#38
2-Butanone
Concen: 0.13 ppb(v)
RT: 12.008 min Scan# 1540
Delta R.T. 0.043 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 72 Resp: 1307

Ion	Ratio	Lower	Upper
72	100		
43	379.0	236.3	438.9
57	34.9	20.6	38.2

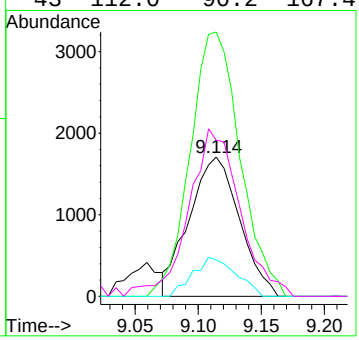


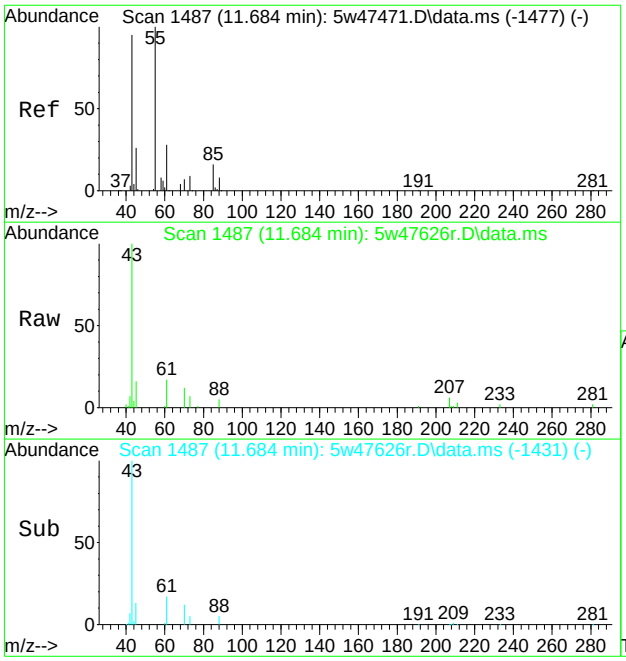


#39
Hexane
Concen: 0.25 ppb(v)
RT: 9.114 min Scan# 1067
Delta R.T. -0.006 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 56 Resp: 4737

Ion	Ratio	Lower	Upper
56	100		
57	189.8	146.2	271.4
86	26.2	18.6	34.6
43	112.0	90.2	167.4

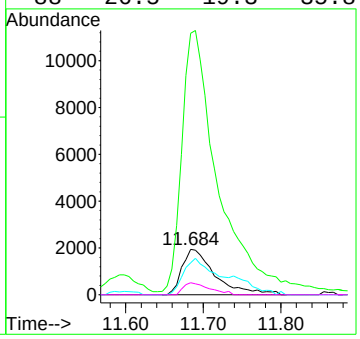


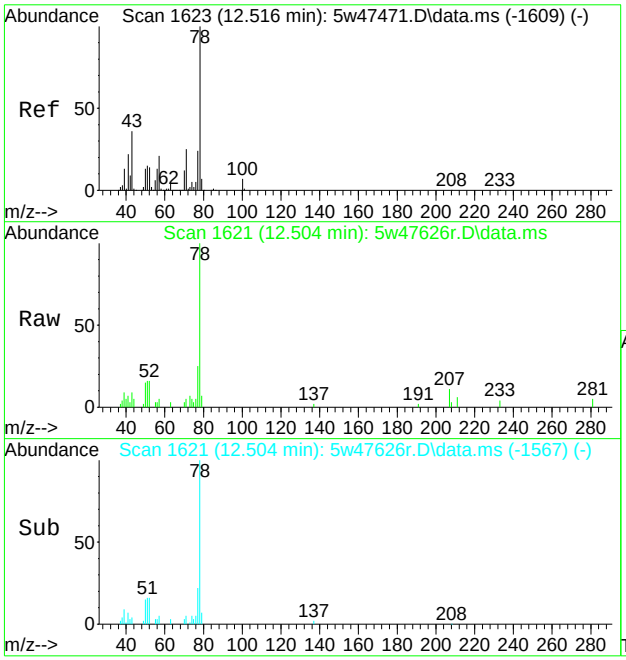


#42
Ethyl Acetate
Concen: 0.83 ppb(v)
RT: 11.684 min Scan# 1487
Delta R.T. 0.012 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 61 Resp: 5790

Ion	Ratio	Lower	Upper
61	100		
43	575.4	421.6	783.0
70	70.5	57.0	105.8
88	26.5	19.3	35.8

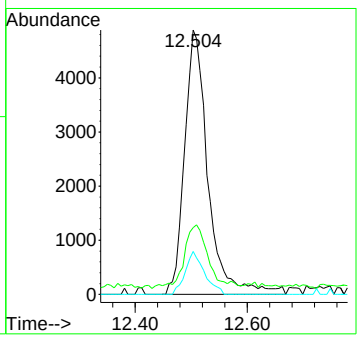


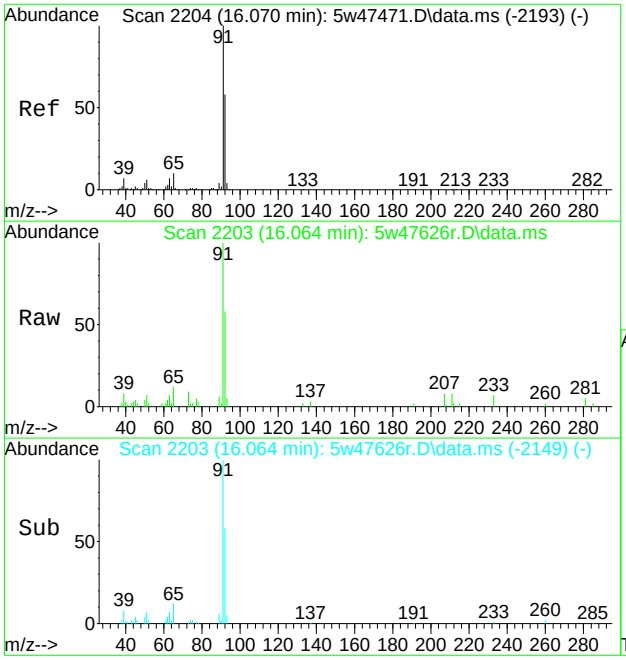


#49
Benzene
Concen: 0.18 ppb(v)
RT: 12.504 min Scan# 1621
Delta R.T. 0.000 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 78 Resp: 14117

Ion	Ratio	Lower	Upper
78	100		
77	25.3	16.7	31.1
51	16.3	10.1	18.9

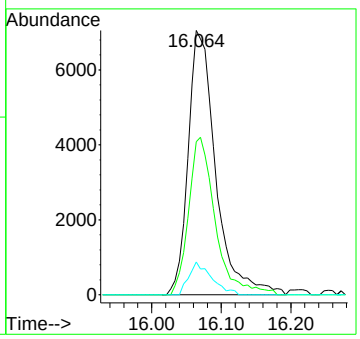




#66
Toluene
Concen: 0.20 ppb(v)
RT: 16.064 min Scan# 2203
Delta R.T. -0.000 min
Lab File: 5w47626r.D
Acq: 28 Jan 2022 4:07 am

Tgt Ion: 91 Resp: 19393

Ion	Ratio	Lower	Upper
91	100		
92	57.8	40.9	75.9
65	12.5	7.3	13.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57494r.D
Acq On : 28 Jan 2022 11:36 pm
Operator : thomash
Sample : jd38291-16r
Misc : MS56243,V2w2558,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 31 15:04:37 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

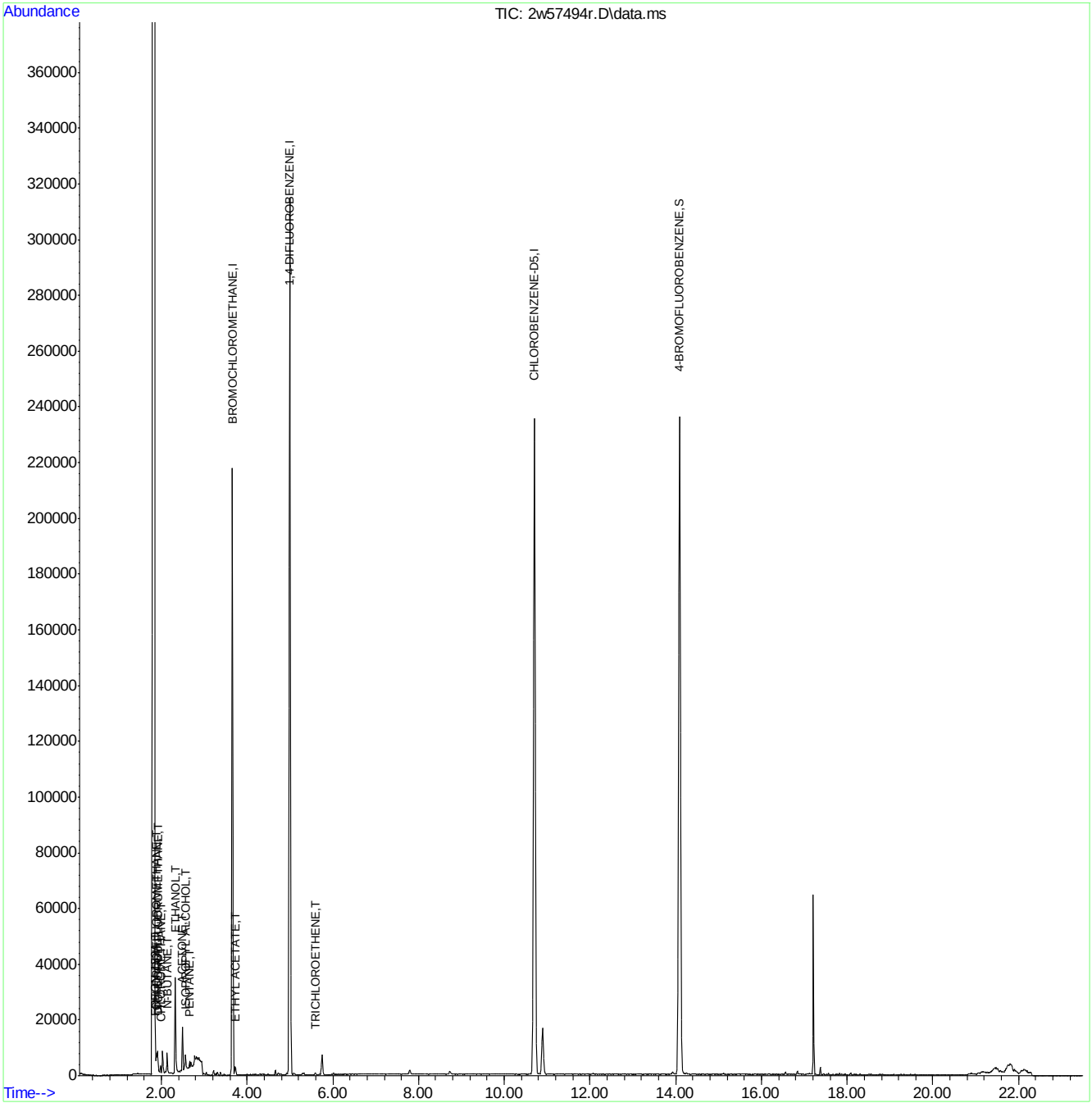
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.656	128	47679	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.994	114	263852	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.704	117	233520	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.090	95	157320	10.08	PPBV	0.00
Target Compounds						Qvalue
3) FREON 152A	1.869	65	596	0.14	PPBV	# 53
4) CHLORODIFLUOROMETHANE	1.882	67	843	0.48	PPBV	# 86
6) DICHLORODIFLUOROMETHANE	1.923	85	2498	0.15	PPBV	# 98
10) CHLOROMETHANE	1.981	52	313	0.19	PPBV	94
13) N-BUTANE	2.136	43	4468	0.53	PPBV	# 96
22) ISOPROPYL ALCOHOL	2.563	45	4906	0.55	PPBV	# 98
23) ACETONE	2.489	58	4283	1.36	PPBV	93
24) PENTANE	2.656	42	479	0.11	PPBV	# 92
28) ETHANOL	2.322	45	29784	11.75	PPBV	99
44) ETHYL ACETATE	3.724	61	372	0.19	PPBV	# 1
55) TRICHLOROETHENE	5.582	95	317	0.03	PPBV	# 83

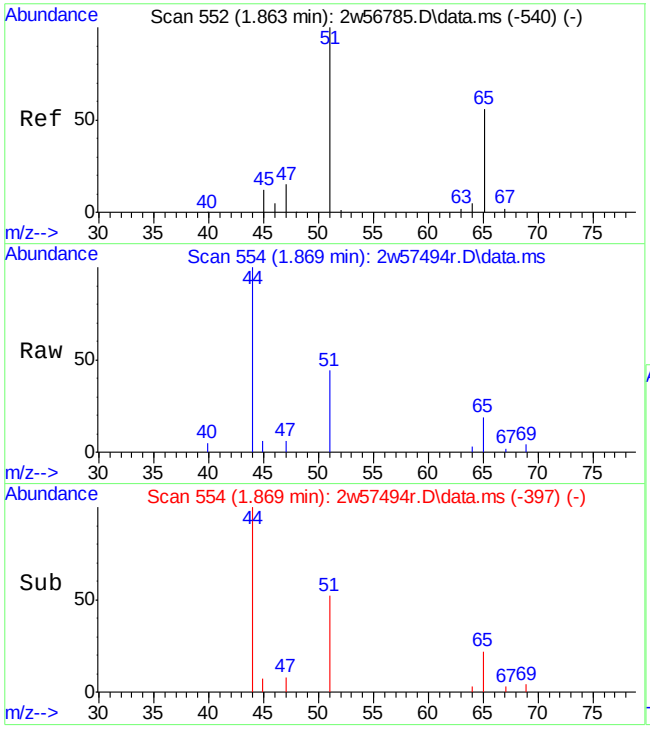
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57494r.D
Acq On : 28 Jan 2022 11:36 pm
Operator : thomash
Sample : jd38291-16r
Misc : MS56243,V2w2558,100,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 31 15:04:37 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

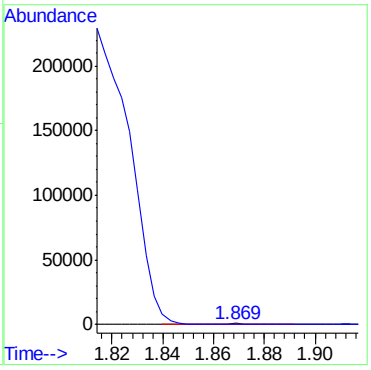


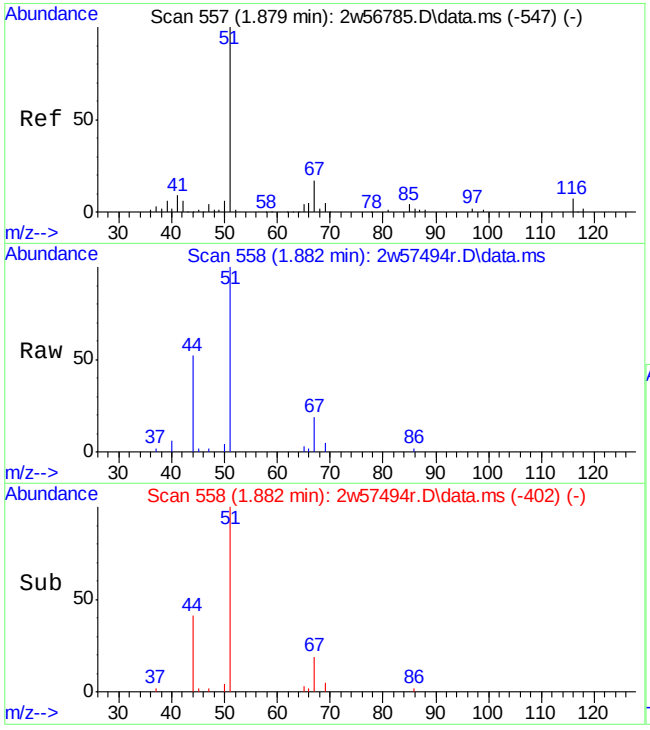


#3
FREON 152A
Concen: 0.14 PPBV
RT: 1.869 min Scan# 554
Delta R.T. 0.006 min
Lab File: 2w57494r.D
Acq: 28 Jan 2022 11:36 pm

Tgt Ion: 65 Resp: 596

Ion	Ratio	Lower	Upper
65	100		
45	0.0	18.3	27.5#

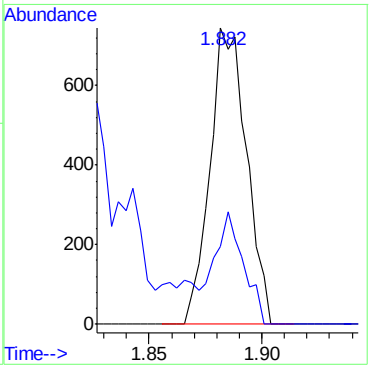


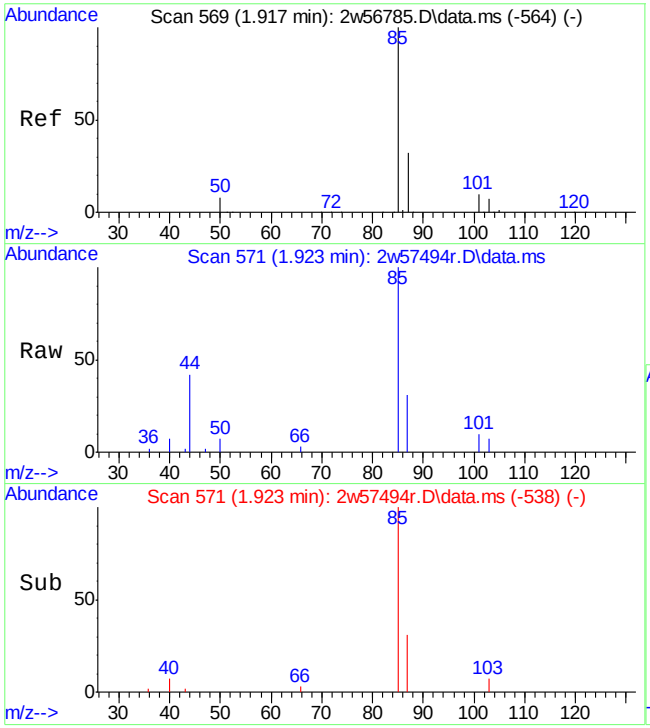


#4
CHLORODIFLUOROMETHANE
Concen: 0.48 PPBV
RT: 1.882 min Scan# 558
Delta R.T. 0.003 min
Lab File: 2w57494r.D
Acq: 28 Jan 2022 11:36 pm

Tgt Ion: 67 Resp: 843

Ion	Ratio	Lower	Upper
67	100		
69	28.0	28.8	43.2#

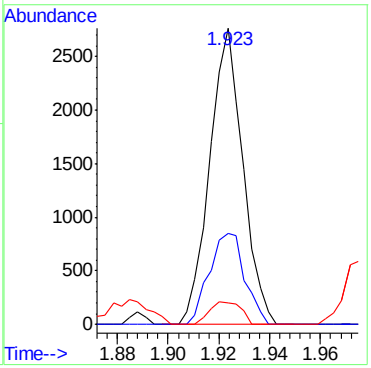


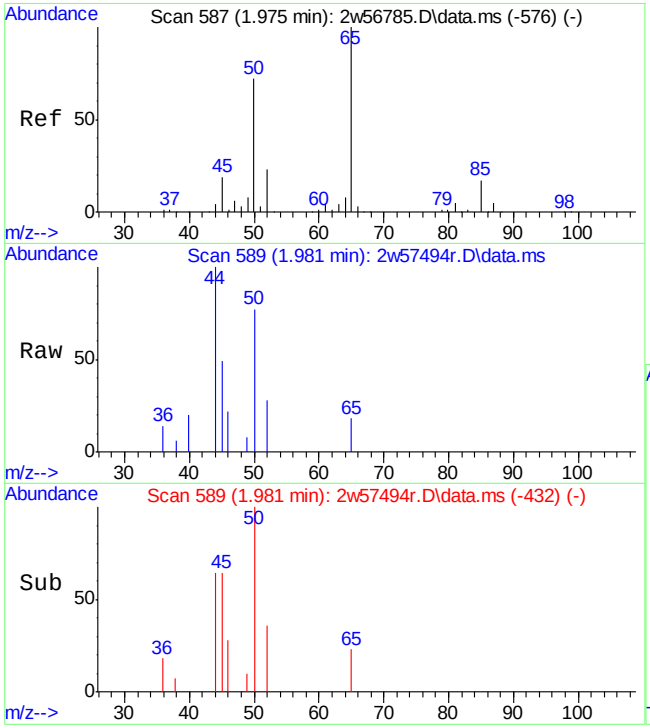


#6
DICHLORODIFLUOROMETHANE
Concen: 0.15 PPBV
RT: 1.923 min Scan# 571
Delta R.T. 0.006 min
Lab File: 2w57494r.D
Acq: 28 Jan 2022 11:36 pm

Tgt Ion: 85 Resp: 2498

Ion	Ratio	Lower	Upper
85	100		
87	32.9	25.8	38.6
50	7.3	7.4	11.2#

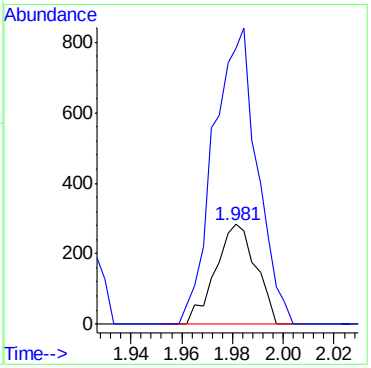


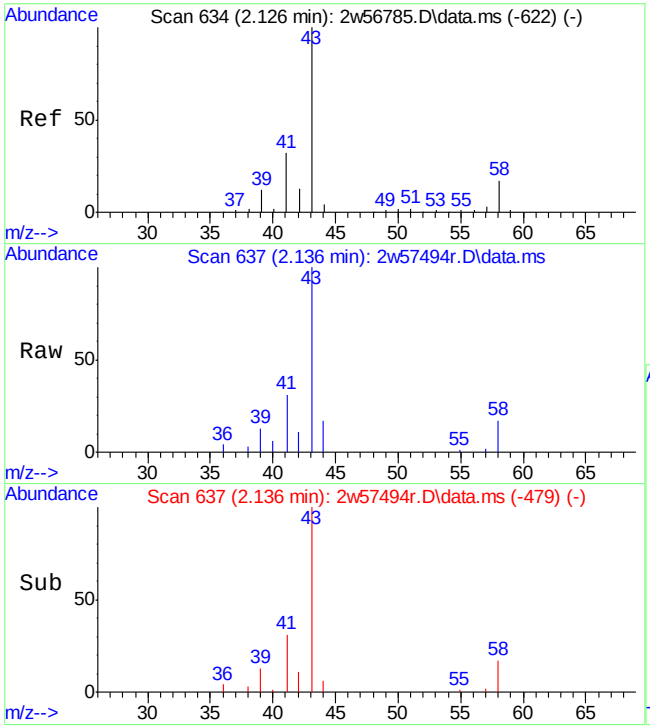


#10
CHLOROMETHANE
Concen: 0.19 PPBV
RT: 1.981 min Scan# 589
Delta R.T. 0.006 min
Lab File: 2w57494r.D
Acq: 28 Jan 2022 11:36 pm

Tgt Ion: 52 Resp: 313

Ion	Ratio	Lower	Upper
52	100		
50	322.7	248.2	372.2

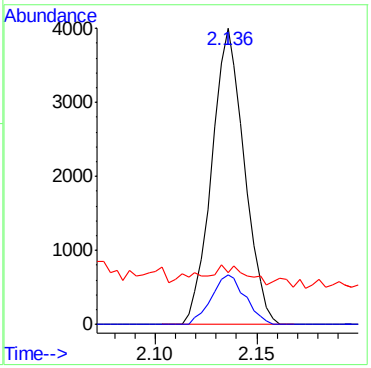


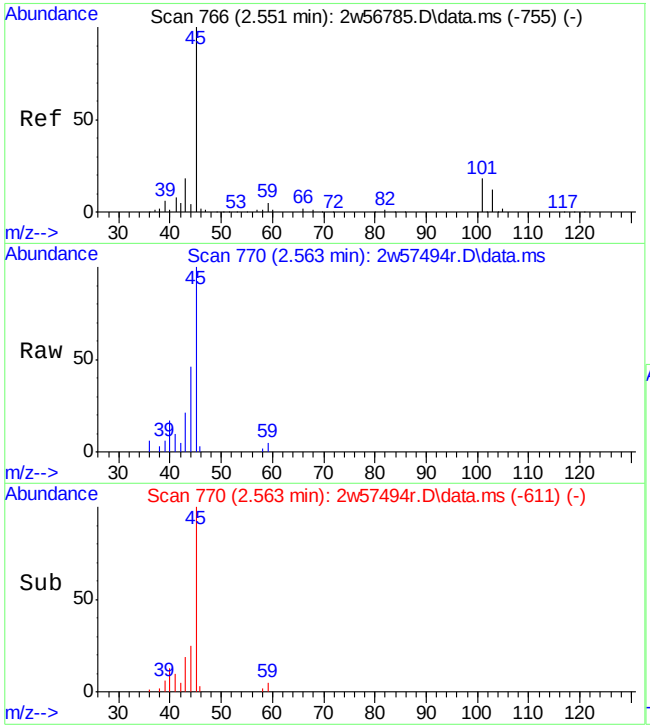


#13
N-BUTANE
Concen: 0.53 PPBV
RT: 2.136 min Scan# 637
Delta R.T. 0.009 min
Lab File: 2w57494r.D
Acq: 28 Jan 2022 11:36 pm

Tgt Ion: 43 Resp: 4468

Ion	Ratio	Lower	Upper
43	100		
58	17.3	14.2	21.2
44	0.0	4.2	6.4#

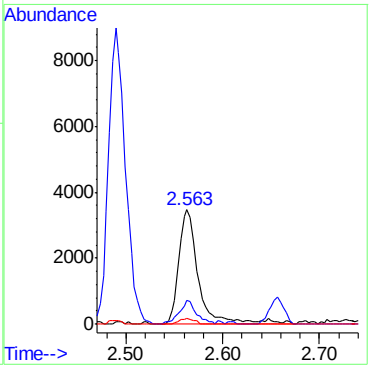


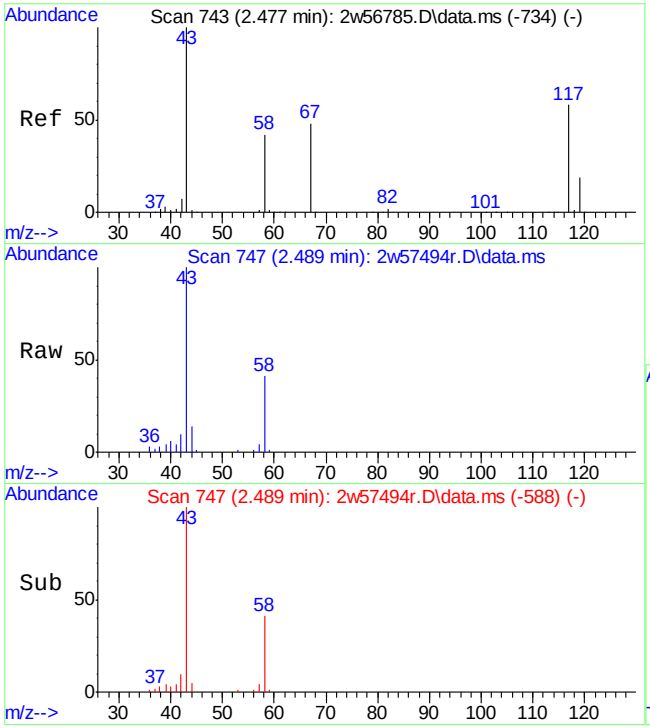


#22
ISOPROPYL ALCOHOL
Concen: 0.55 PPBV
RT: 2.563 min Scan# 770
Delta R.T. 0.012 min
Lab File: 2w57494r.D
Acq: 28 Jan 2022 11:36 pm

Tgt Ion: 45 Resp: 4906

Ion	Ratio	Lower	Upper
45	100		
43	19.1	15.5	23.3
59	3.5	4.1	6.1#

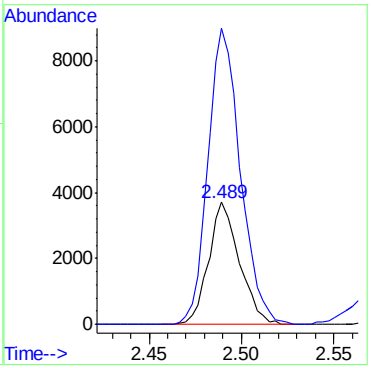


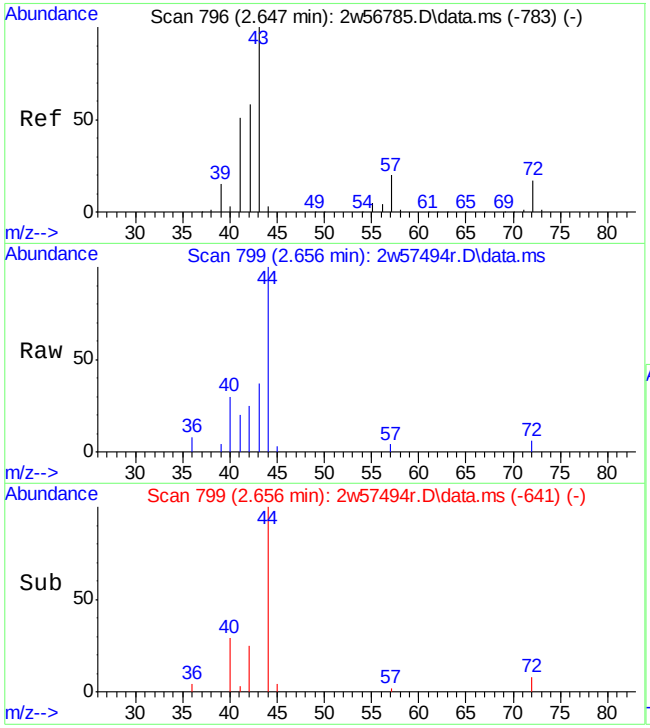


#23
ACETONE
Concen: 1.36 PPBV
RT: 2.489 min Scan# 747
Delta R.T. 0.012 min
Lab File: 2w57494r.D
Acq: 28 Jan 2022 11:36 pm

Tgt Ion: 58 Resp: 4283

Ion	Ratio	Lower	Upper
58	100		
43	256.1	195.9	293.9

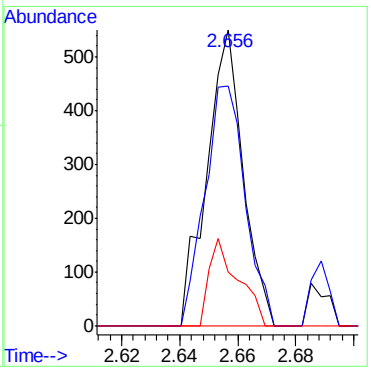


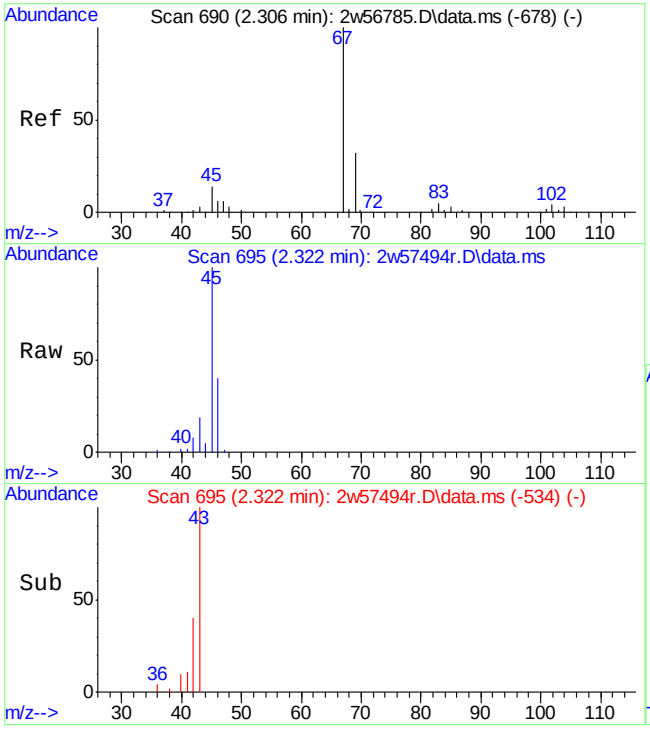


#24
PENTANE
Concen: 0.11 PPBV
RT: 2.656 min Scan# 799
Delta R.T. 0.009 min
Lab File: 2w57494r.D
Acq: 28 Jan 2022 11:36 pm

Tgt Ion: 42 Resp: 479

Ion	Ratio	Lower	Upper
42	100		
41	90.2	69.5	104.3
57	23.6	27.4	41.0#

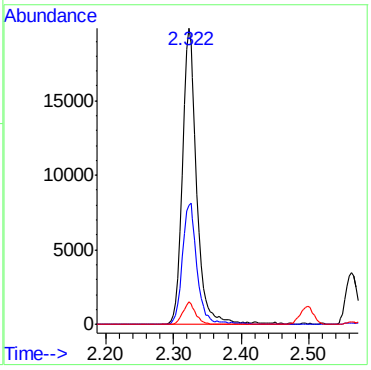


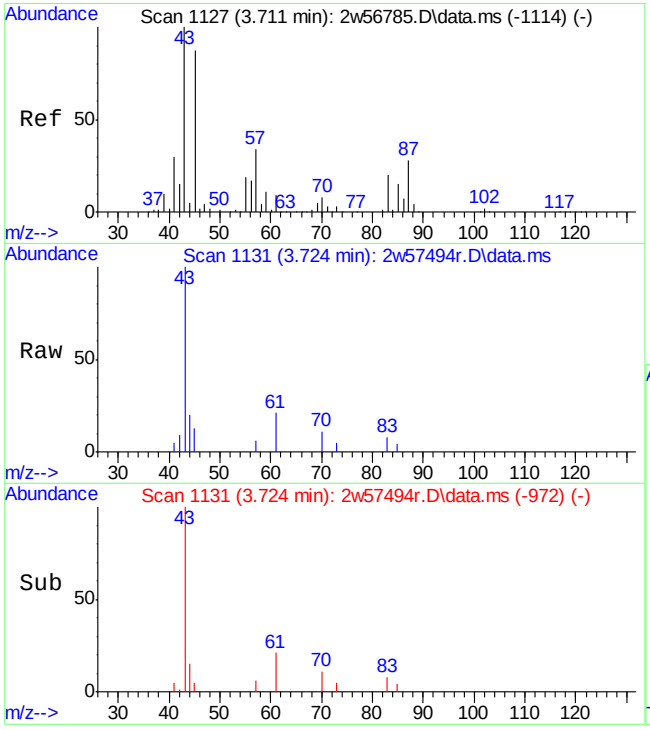


#28
ETHANOL
Concen: 11.75 PPBV
RT: 2.322 min Scan# 695
Delta R.T. 0.016 min
Lab File: 2w57494r.D
Acq: 28 Jan 2022 11:36 pm

Tgt Ion: 45 Resp: 29784

Ion	Ratio	Lower	Upper
45	100		
46	42.1	34.1	51.1
42	6.6	6.1	9.1

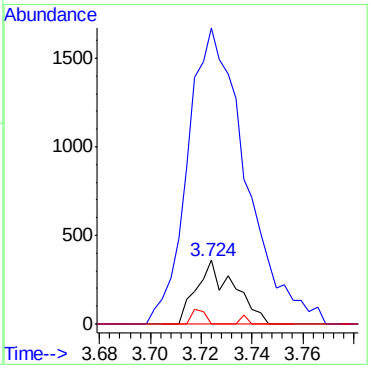


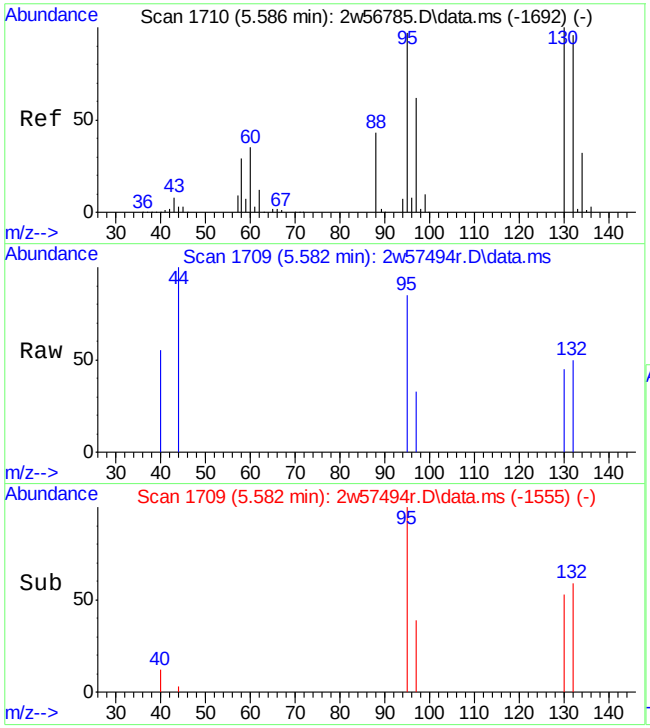


#44
ETHYL ACETATE
Concen: 0.19 PPBV
RT: 3.724 min Scan# 1131
Delta R.T. 0.013 min
Lab File: 2w57494r.D
Acq: 28 Jan 2022 11:36 pm

Tgt Ion: 61 Resp: 372

Ion	Ratio	Lower	Upper
61	100		
43	716.4	986.2	1479.2#
88	0.0	38.8	58.2#

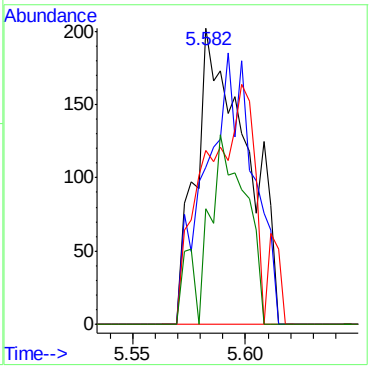




#55
TRICHLOROETHENE
Concen: 0.03 PPBV
RT: 5.582 min Scan# 1709
Delta R.T. -0.003 min
Lab File: 2w57494r.D
Acq: 28 Jan 2022 11:36 pm

Tgt Ion: 95 Resp: 317

Ion	Ratio	Lower	Upper
95	100		
130	85.8	83.2	124.8
132	83.0	79.8	119.6
97	50.2	51.3	76.9#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57495r.D
Acq On : 29 Jan 2022 12:18 am
Operator : thomash
Sample : jd38291-18r
Misc : MS56243,V2w2558,400,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 31 15:10:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

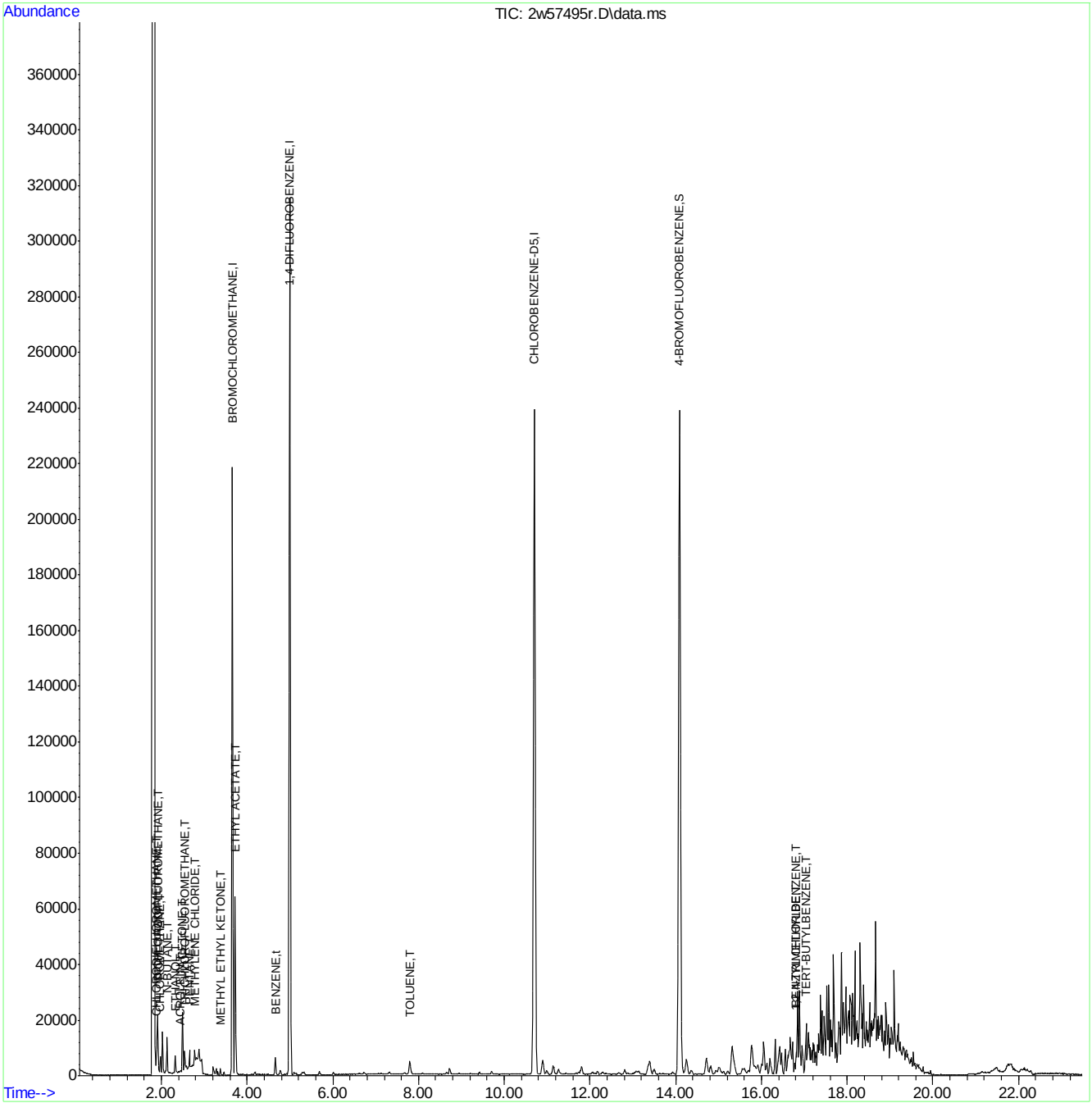
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.657	128	48446	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.994	114	264337	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	235928	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	159920	10.14	PPBV		0.00
Target Compounds							Qvalue
4) CHLORODIFLUOROMETHANE	1.882	67	409	0.23	PPBV		93
6) DICHLORODIFLUOROMETHANE	1.920	85	8937	0.51	PPBV		100
10) CHLOROMETHANE	1.975	52	1079	0.64	PPBV		98
13) N-BUTANE	2.132	43	7863	0.91	PPBV	#	94
18) ACROLEIN	2.448	56	335	0.11	PPBV	#	81
21) TRICHLOROFLUOROMETHANE	2.544	101	3595	0.24	PPBV		97
23) ACETONE	2.489	58	5683	1.77	PPBV		97
24) PENTANE	2.657	42	1421	0.31	PPBV	#	92
28) ETHANOL	2.322	45	5306	2.06	PPBV		99
31) METHYLENE CHLORIDE	2.779	84	1413	0.21	PPBV		88
41) METHYL ETHYL KETONE	3.380	72	632	0.17	PPBV		84
44) ETHYL ACETATE	3.718	61	8549	4.21	PPBV	#	1
51) BENZENE	4.660	78	5529	0.22	PPBV		98
66) TOLUENE	7.791	91	5341	0.18	PPBV		98
95) TERT-BUTYLBENZENE	17.051	134	273	0.04	PPBV	#	1
96) 1,2,4-TRIMETHYLBENZENE	16.817	105	504	0.02	PPBV	#	89
97) BENZYL CHLORIDE	16.810	91	375	0.02	PPBV	#	60

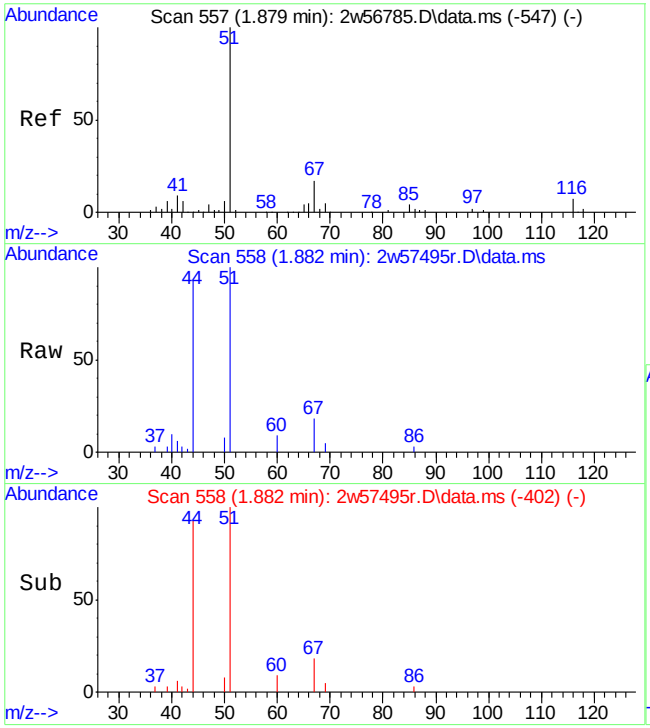
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57495r.D
Acq On : 29 Jan 2022 12:18 am
Operator : thomash
Sample : jd38291-18r
Misc : MS56243,V2w2558,400,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 31 15:10:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

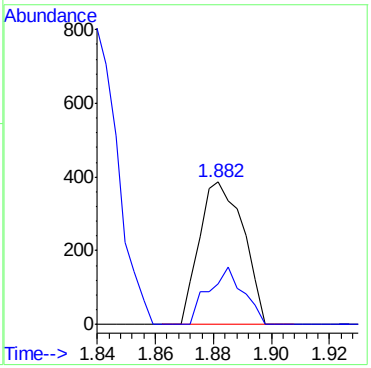


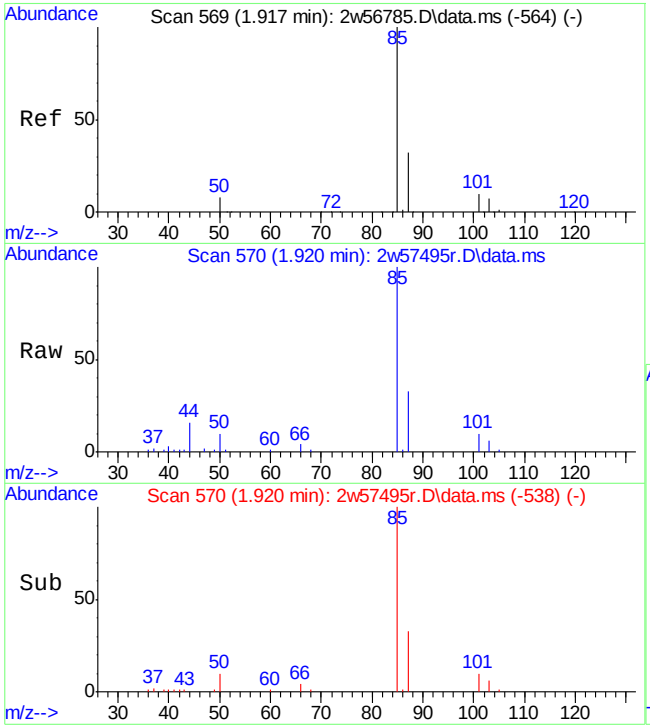


#4
CHLORODIFLUOROMETHANE
Concen: 0.23 PPBV
RT: 1.882 min Scan# 558
Delta R.T. 0.003 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 67 Resp: 409

Ion	Ratio	Lower	Upper
67	100		
69	31.8	28.8	43.2

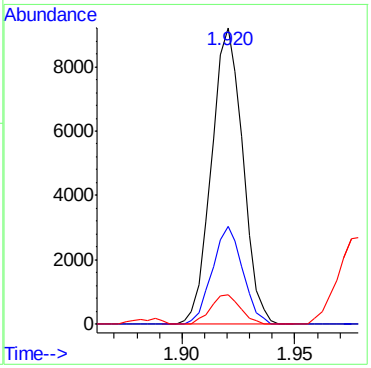


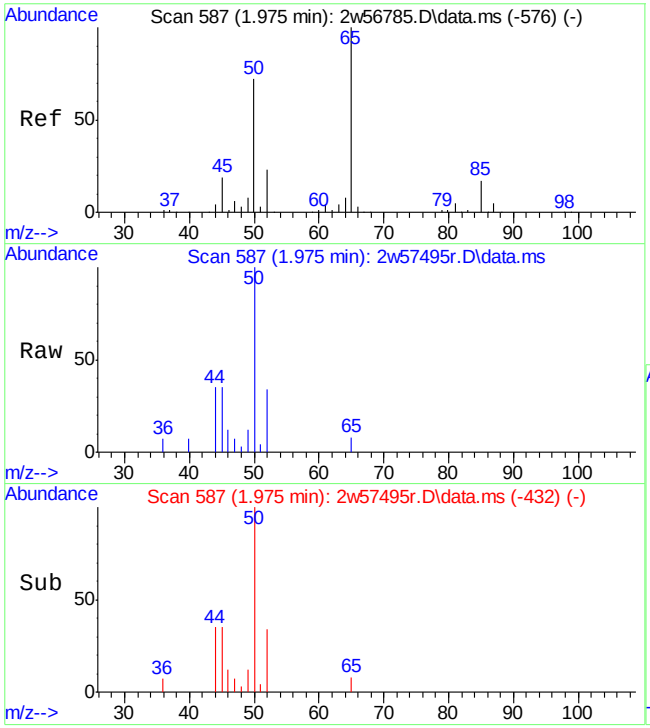


#6
DICHLORODIFLUOROMETHANE
Concen: 0.51 PPBV
RT: 1.920 min Scan# 570
Delta R.T. 0.003 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 85 Resp: 8937

Ion	Ratio	Lower	Upper
85	100		
87	31.9	25.8	38.6
50	9.3	7.4	11.2

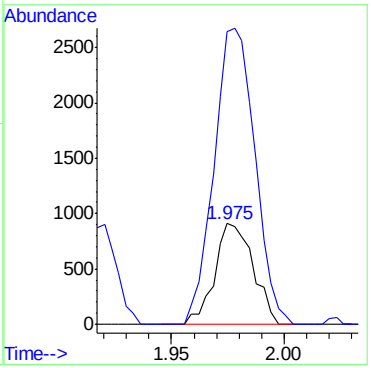


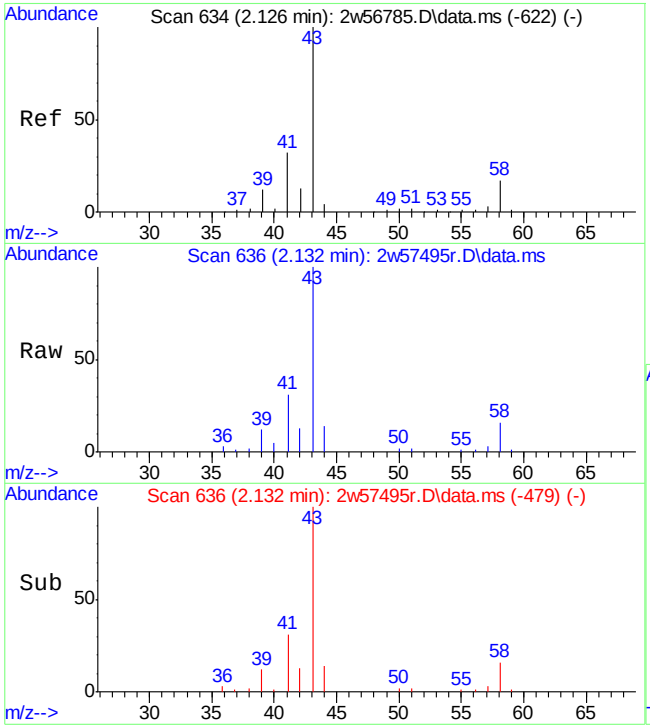


#10
CHLOROMETHANE
Concen: 0.64 PPBV
RT: 1.975 min Scan# 587
Delta R.T. -0.000 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 52 Resp: 1079

Ion	Ratio	Lower	Upper
52	100		
50	313.7	248.2	372.2

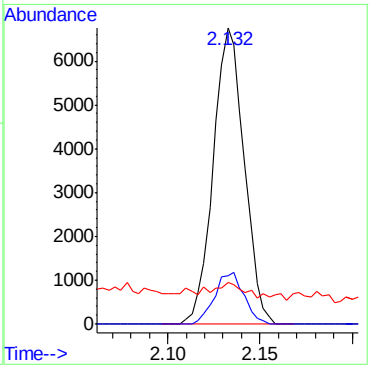


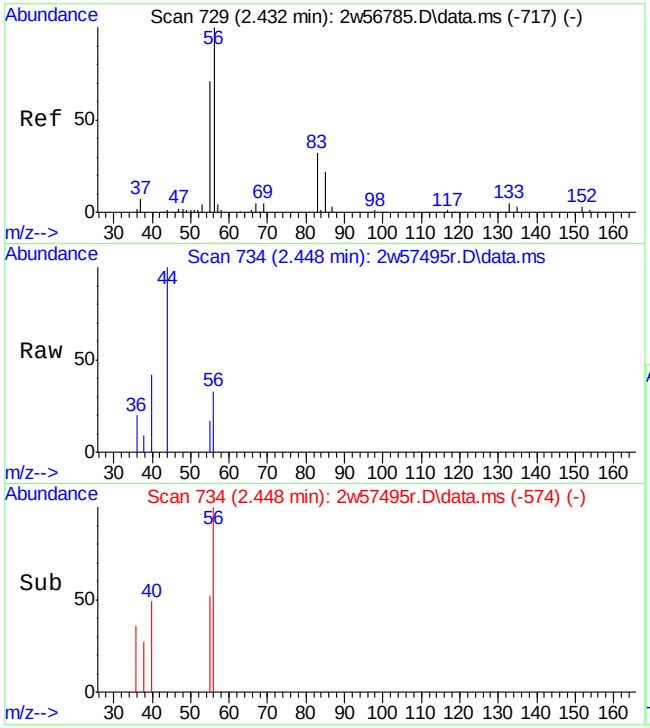


#13
N-BUTANE
Concen: 0.91 PPBV
RT: 2.132 min Scan# 636
Delta R.T. 0.006 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 43 Resp: 7863

Ion	Ratio	Lower	Upper
43	100		
58	16.5	14.2	21.2
44	0.0	4.2	6.4#

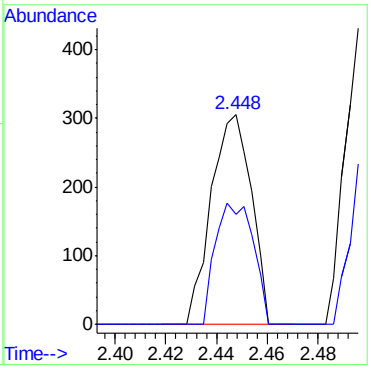


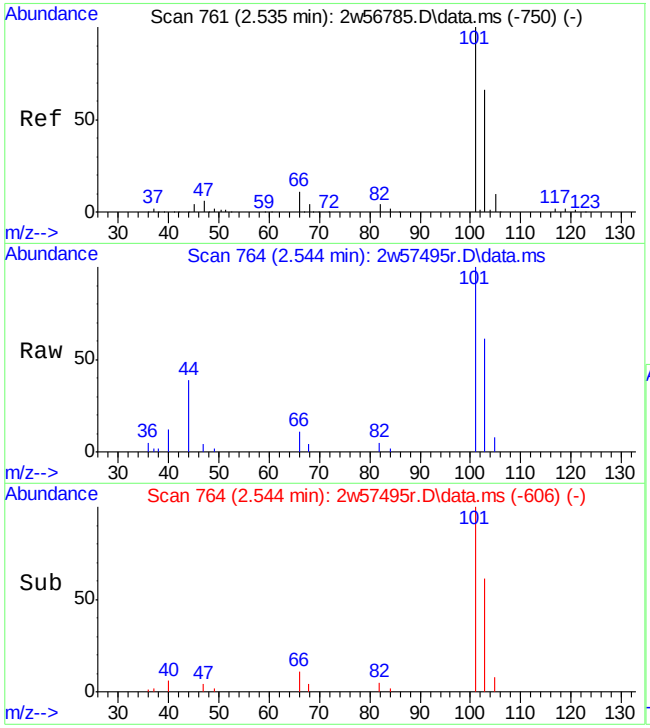


#18
ACROLEIN
Concen: 0.11 PPBV
RT: 2.448 min Scan# 734
Delta R.T. 0.016 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 56 Resp: 335

Ion	Ratio	Lower	Upper
56	100		
55	54.3	56.0	84.0#

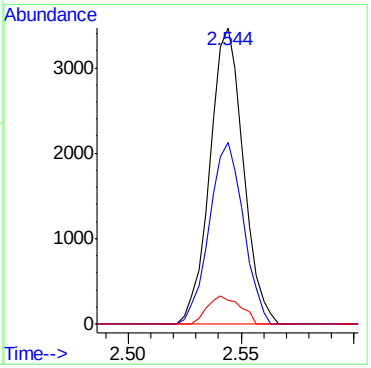


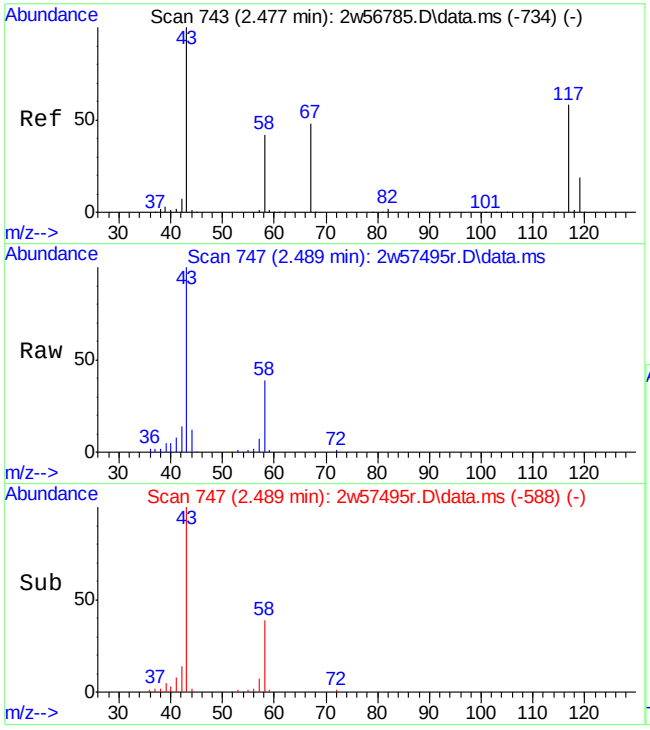


#21
TRICHLOROFLUOROMETHANE
Concen: 0.24 PPBV
RT: 2.544 min Scan# 764
Delta R.T. 0.010 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion:101 Resp: 3595

Ion	Ratio	Lower	Upper
101	100		
103	62.6	51.8	77.6
105	9.3	8.4	12.6

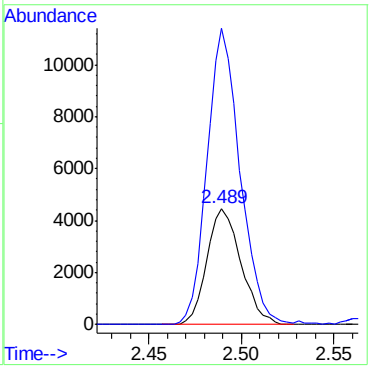


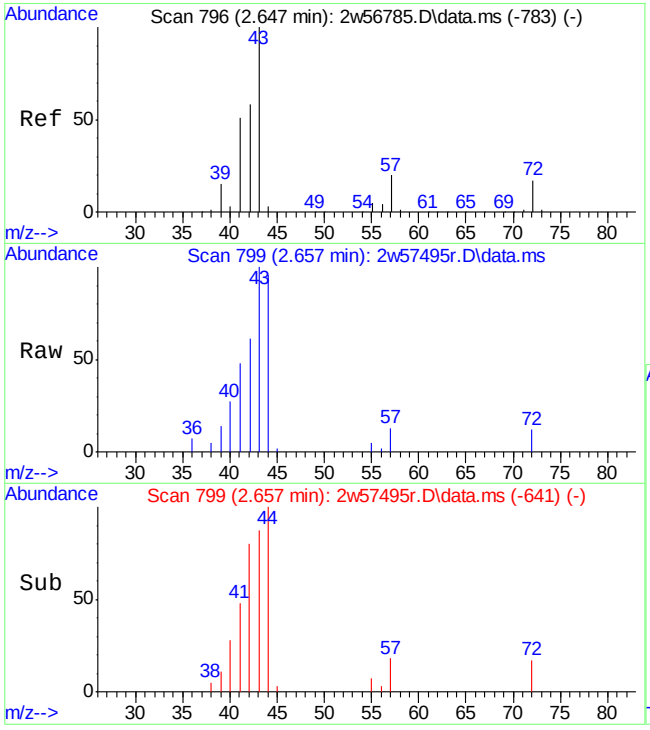


#23
ACETONE
Concen: 1.77 PPBV
RT: 2.489 min Scan# 747
Delta R.T. 0.012 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 58 Resp: 5683

Ion	Ratio	Lower	Upper
58	100		
43	249.5	195.9	293.9

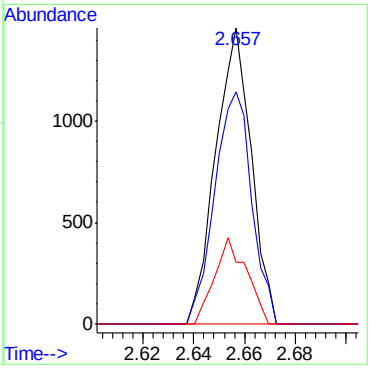


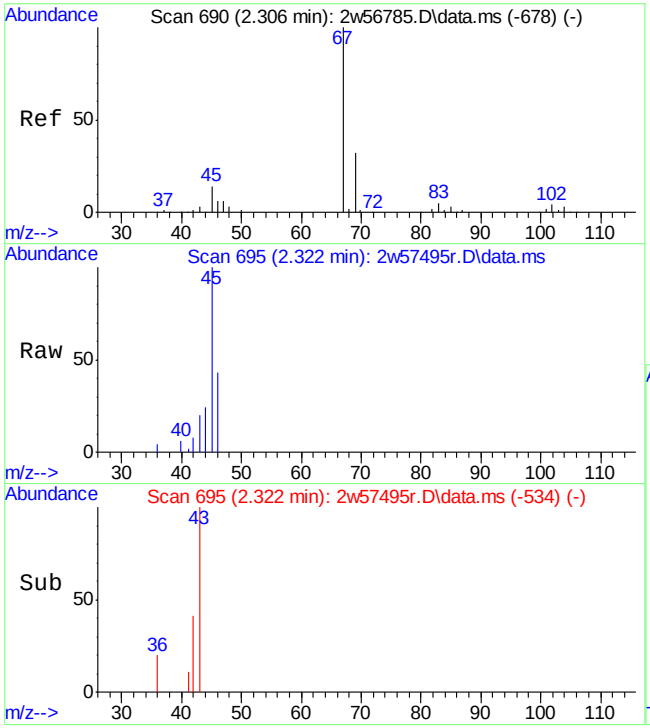


#24
PENTANE
Concen: 0.31 PPBV
RT: 2.657 min Scan# 799
Delta R.T. 0.010 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 42 Resp: 1421

Ion	Ratio	Lower	Upper
42	100		
41	81.7	69.5	104.3
57	26.2	27.4	41.0#

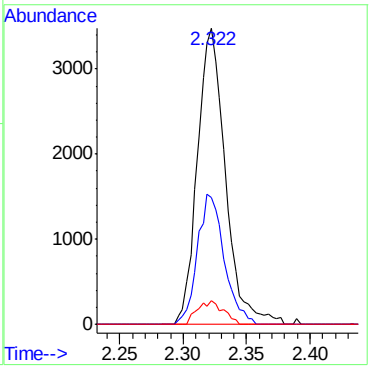


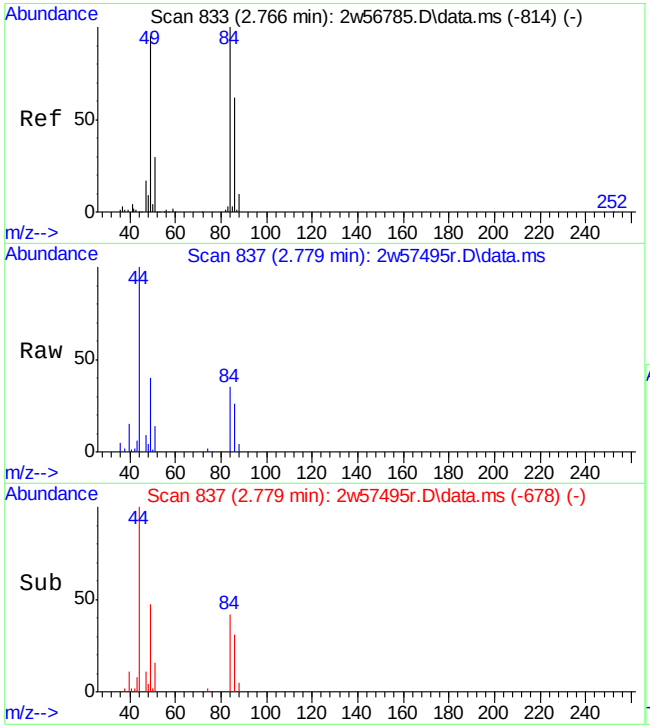


#28
ETHANOL
Concen: 2.06 PPBV
RT: 2.322 min Scan# 695
Delta R.T. 0.016 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 45 Resp: 5306

Ion	Ratio	Lower	Upper
45	100		
46	41.8	34.1	51.1
42	7.4	6.1	9.1

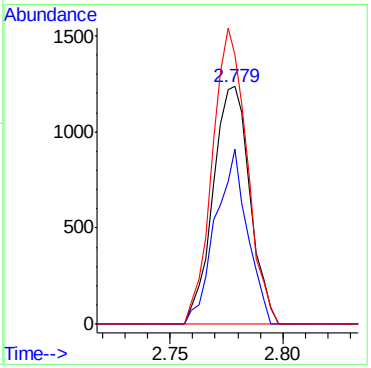


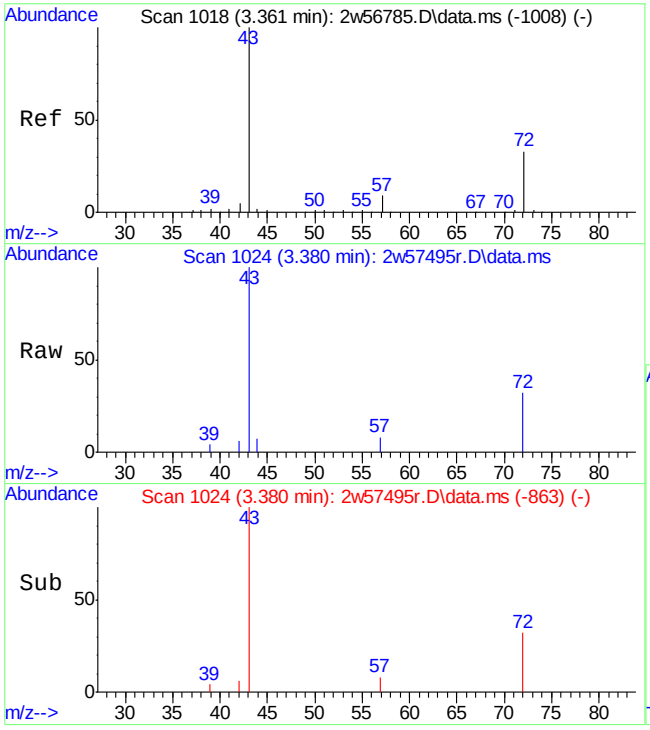


#31
METHYLENE CHLORIDE
Concen: 0.21 PPBV
RT: 2.779 min Scan# 837
Delta R.T. 0.013 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 84 Resp: 1413

Ion	Ratio	Lower	Upper
84	100		
86	64.0	50.9	76.3
49	117.0	78.6	118.0

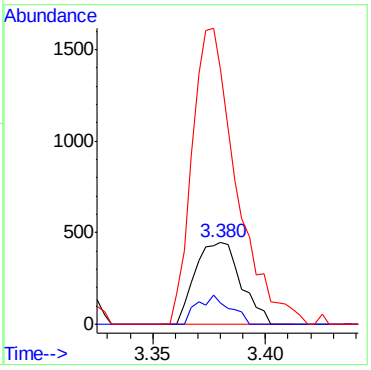


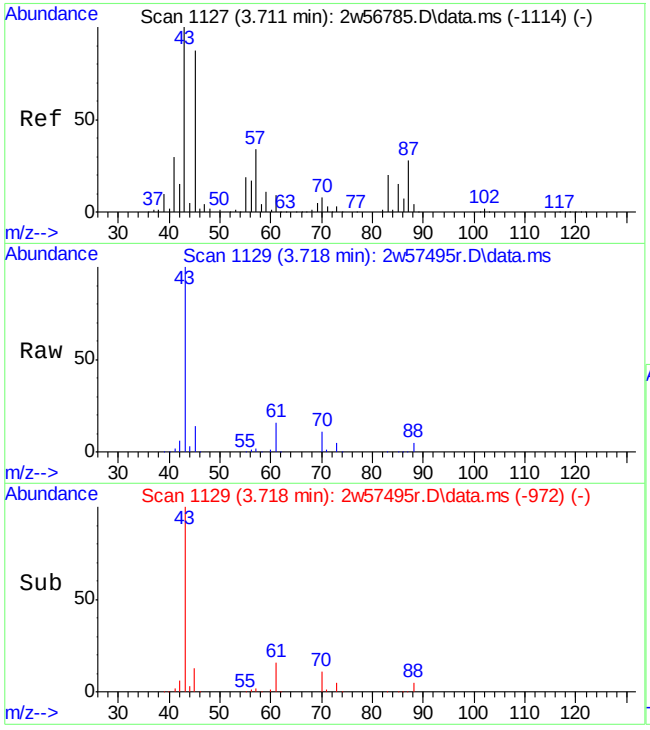


#41
METHYL ETHYL KETONE
Concen: 0.17 PPBV
RT: 3.380 min Scan# 1024
Delta R.T. 0.019 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 72 Resp: 632

Ion	Ratio	Lower	Upper
72	100		
57	25.3	22.2	33.4
43	349.7	252.6	378.8

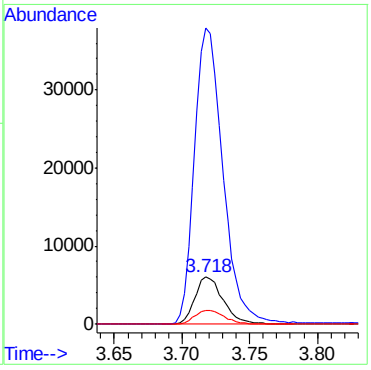


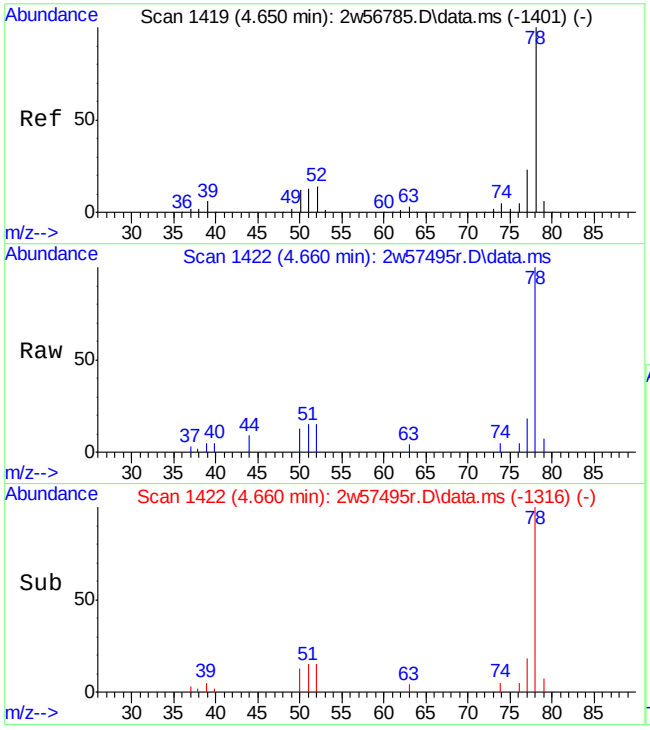


#44
ETHYL ACETATE
Concen: 4.21 PPBV
RT: 3.718 min Scan# 1129
Delta R.T. 0.006 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 61 Resp: 8549

Ion	Ratio	Lower	Upper
61	100		
43	653.7	986.2	1479.2#
88	30.4	38.8	58.2#

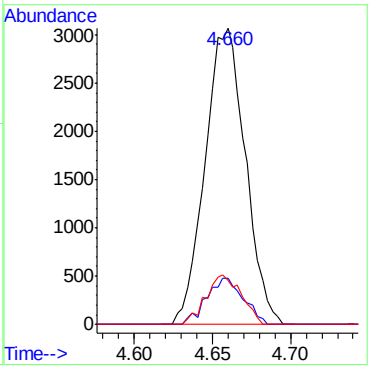


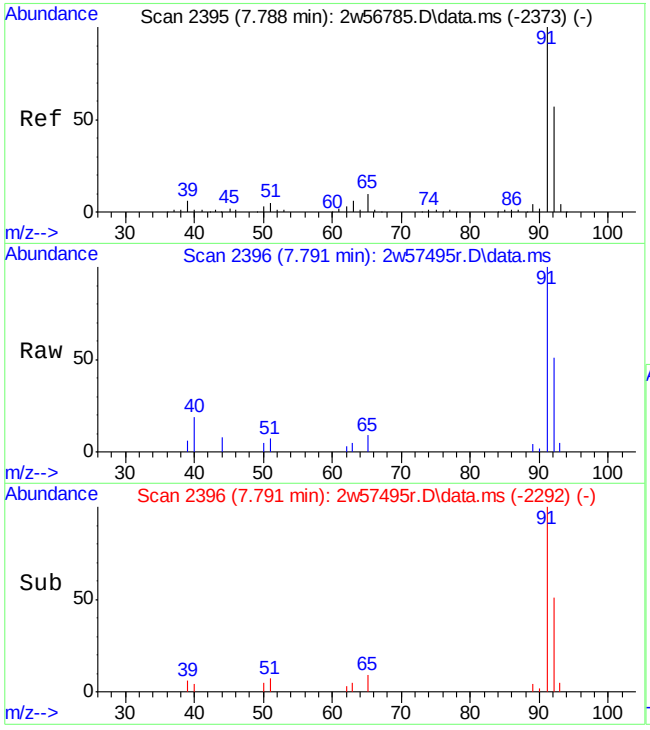


#51
BENZENE
Concen: 0.22 PPBV
RT: 4.660 min Scan# 1422
Delta R.T. 0.010 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 78 Resp: 5529

Ion	Ratio	Lower	Upper
78	100		
52	14.3	0.0	34.0
51	14.6	0.0	33.5

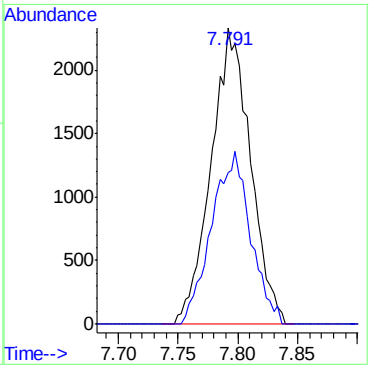


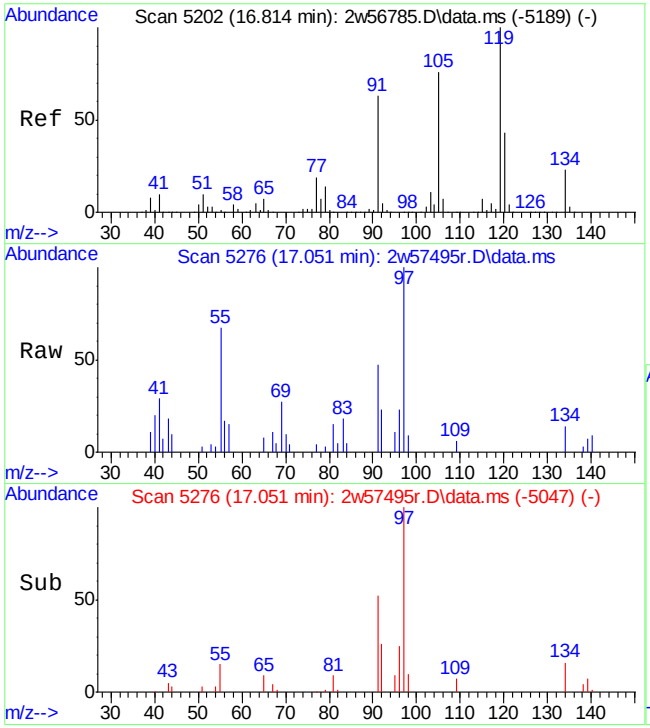


#66
TOLUENE
Concen: 0.18 PPBV
RT: 7.791 min Scan# 2396
Delta R.T. 0.003 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 91 Resp: 5341

Ion	Ratio	Lower	Upper
91	100		
92	57.4	38.9	78.9

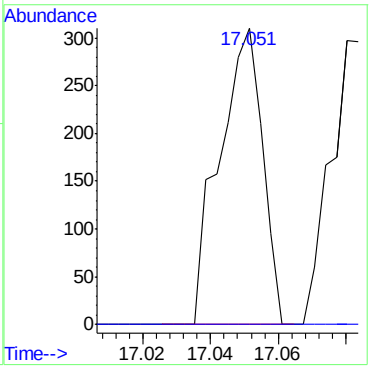


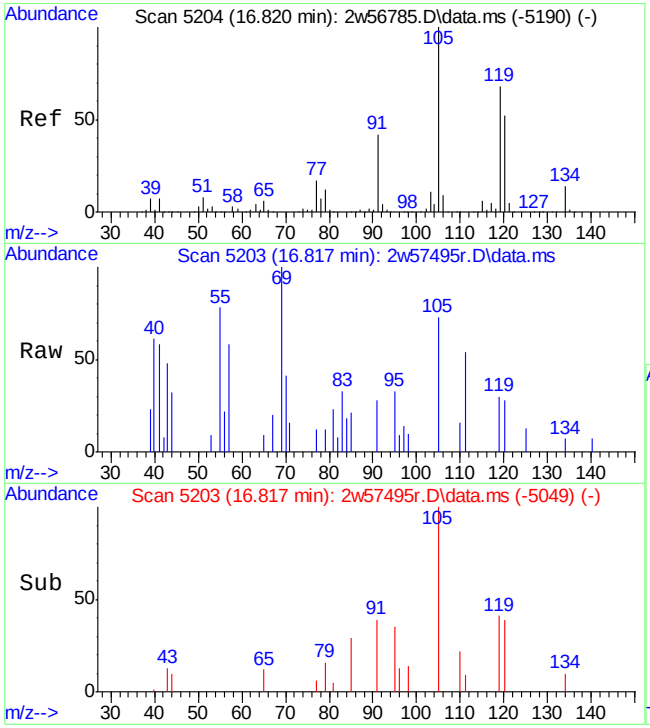


#95
TERT-BUTYLBENZENE
Concen: 0.04 PPBV
RT: 17.051 min Scan# 5276
Delta R.T. 0.238 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion:134 Resp: 273

Ion	Ratio	Lower	Upper
134	100		
119	0.0	355.0	532.4#

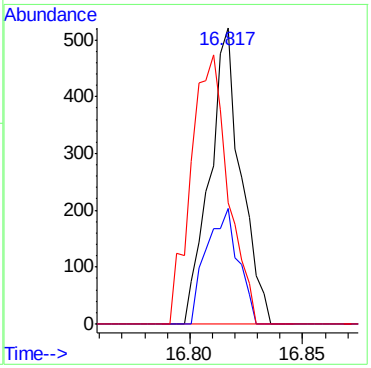


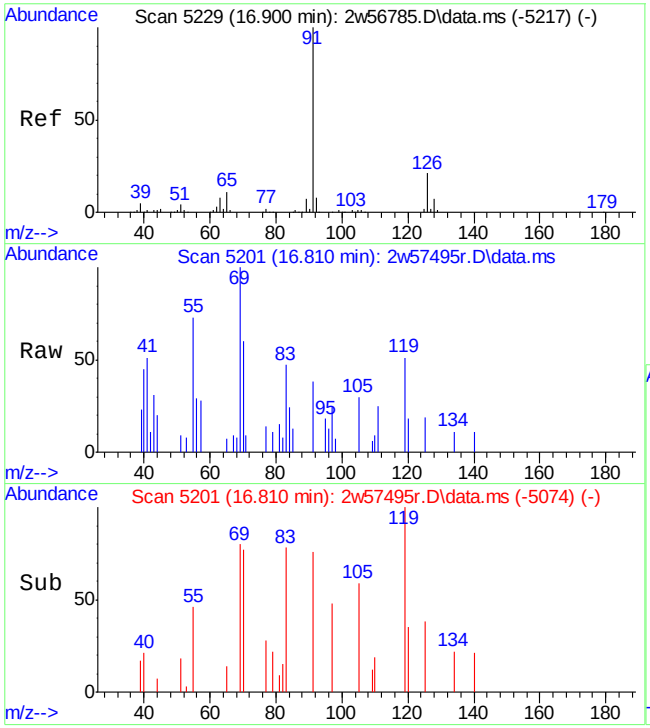


#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.02 PPBV
RT: 16.817 min Scan# 5203
Delta R.T. -0.003 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion:105 Resp: 504

Ion	Ratio	Lower	Upper
105	100		
120	39.7	45.4	68.2#
119	107.5	90.6	135.8

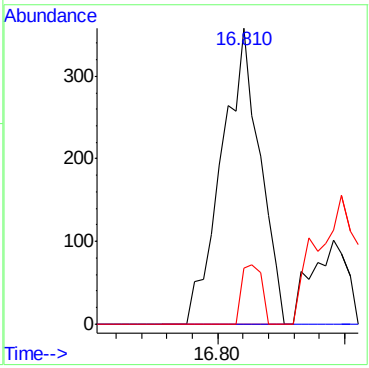




#97
BENZYL CHLORIDE
Concen: 0.02 PPBV
RT: 16.810 min Scan# 5201
Delta R.T. -0.090 min
Lab File: 2w57495r.D
Acq: 29 Jan 2022 12:18 am

Tgt Ion: 91 Resp: 375

Ion	Ratio	Lower	Upper
91	100		
126	0.0	17.2	25.8#
65	0.0	8.5	12.7#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57496r.D
Acq On : 29 Jan 2022 12:54 am
Operator : thomash
Sample : jd38291-19r
Misc : MS56243,V2w2558,100,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 31 15:14:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

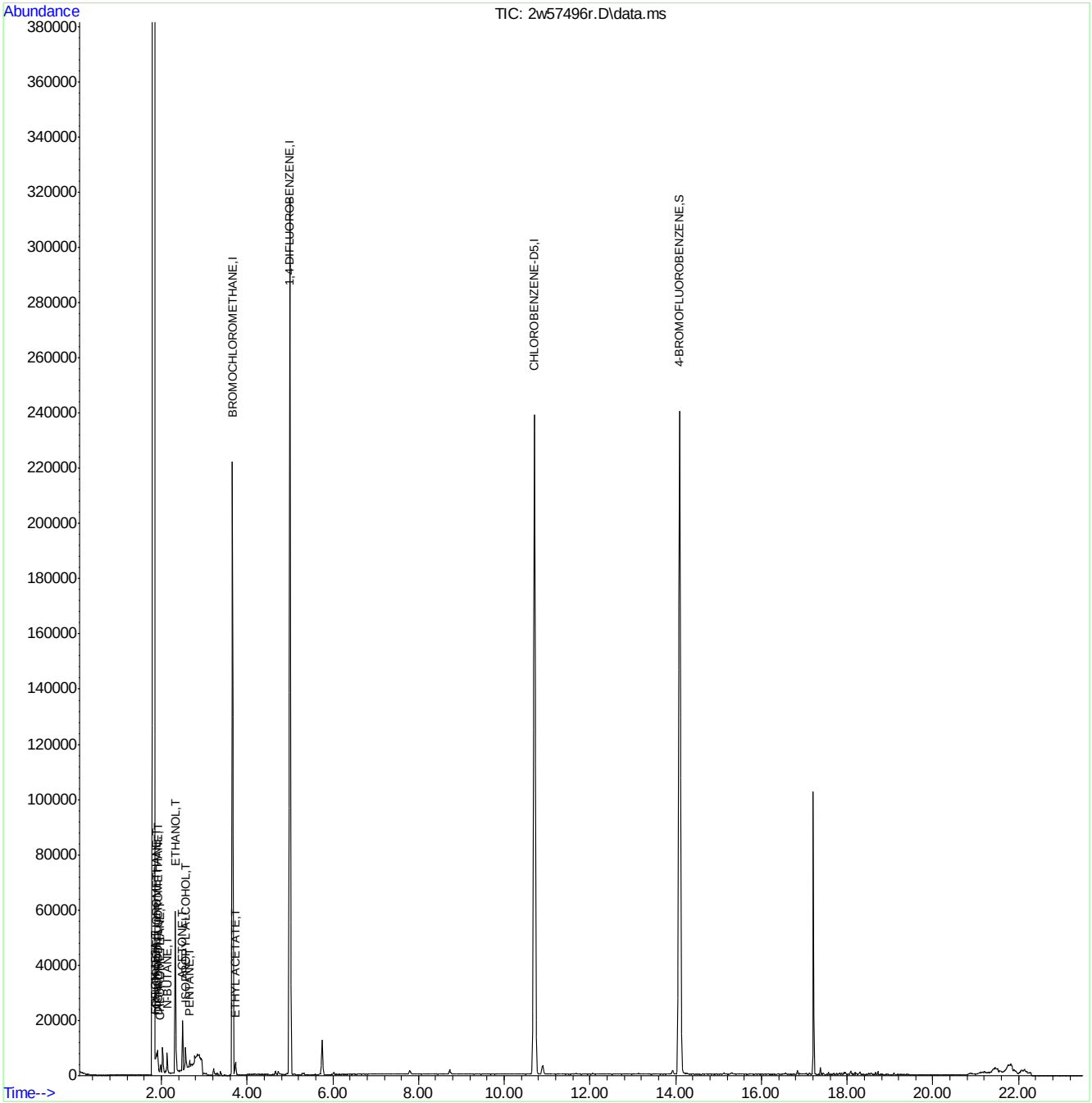
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.660	128	48152	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.997	114	266242	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	238137	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	159822	10.04	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.869	65	692	0.16	PPBV	#	53
4) CHLORODIFLUOROMETHANE	1.885	67	863	0.49	PPBV		92
6) DICHLORODIFLUOROMETHANE	1.923	85	2415	0.14	PPBV		98
10) CHLOROMETHANE	1.978	52	314	0.19	PPBV		97
13) N-BUTANE	2.136	43	4503	0.52	PPBV	#	93
22) ISOPROPYL ALCOHOL	2.566	45	7038	0.78	PPBV	#	97
23) ACETONE	2.493	58	4622	1.45	PPBV		87
24) PENTANE	2.656	42	501	0.11	PPBV		97
28) ETHANOL	2.325	45	49812	19.45	PPBV		98
44) ETHYL ACETATE	3.730	61	572	0.28	PPBV	#	4

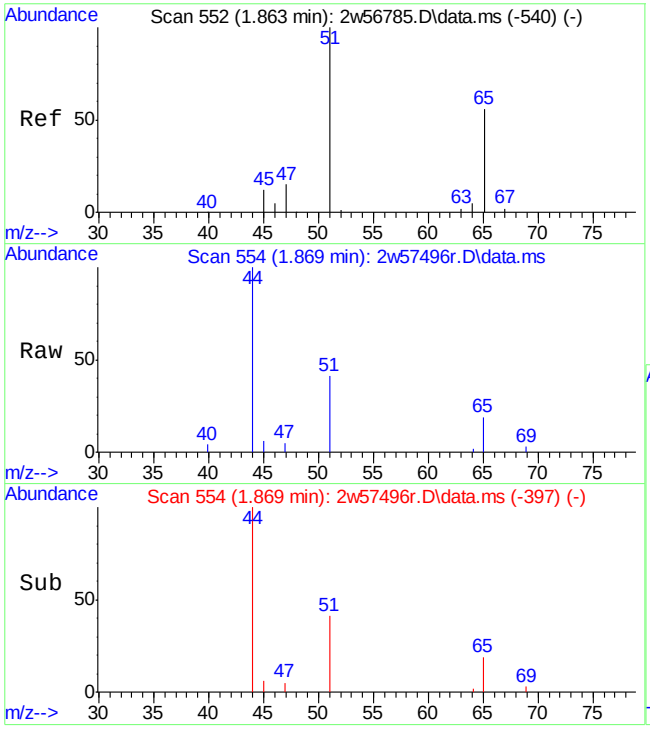
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57496r.D
Acq On : 29 Jan 2022 12:54 am
Operator : thomash
Sample : jd38291-19r
Misc : MS56243,V2w2558,100,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 31 15:14:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

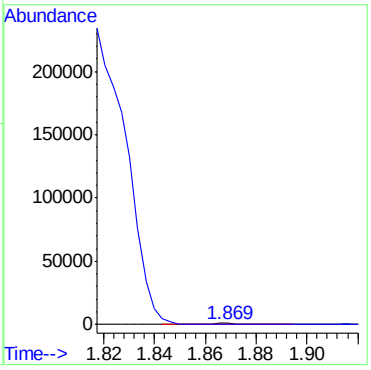


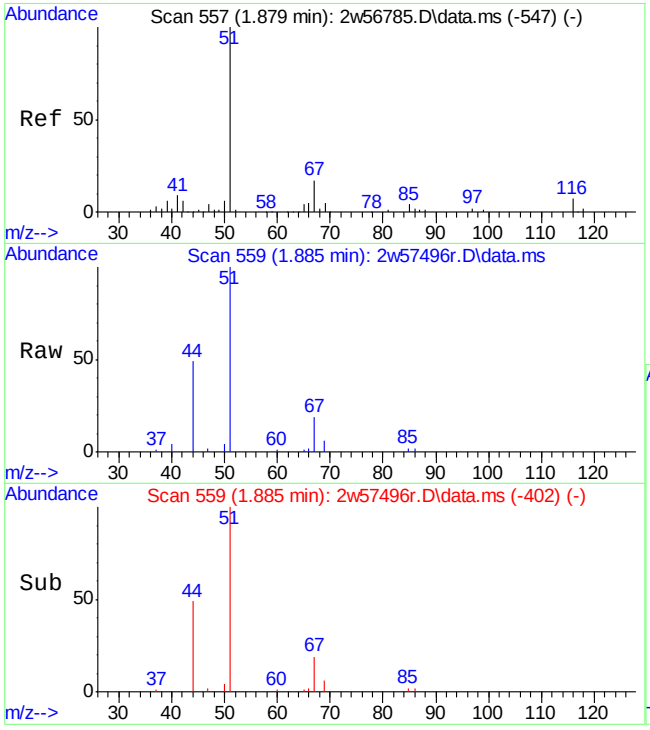


#3
FREON 152A
Concen: 0.16 PPBV
RT: 1.869 min Scan# 554
Delta R.T. 0.006 min
Lab File: 2w57496r.D
Acq: 29 Jan 2022 12:54 am

Tgt Ion: 65 Resp: 692

Ion	Ratio	Lower	Upper
65	100		
45	0.0	18.3	27.5#

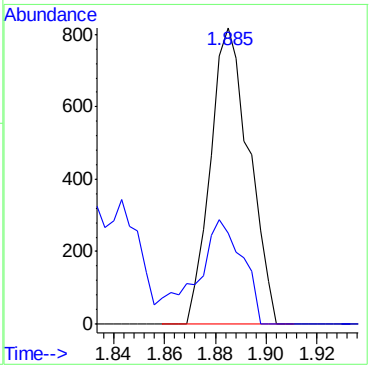


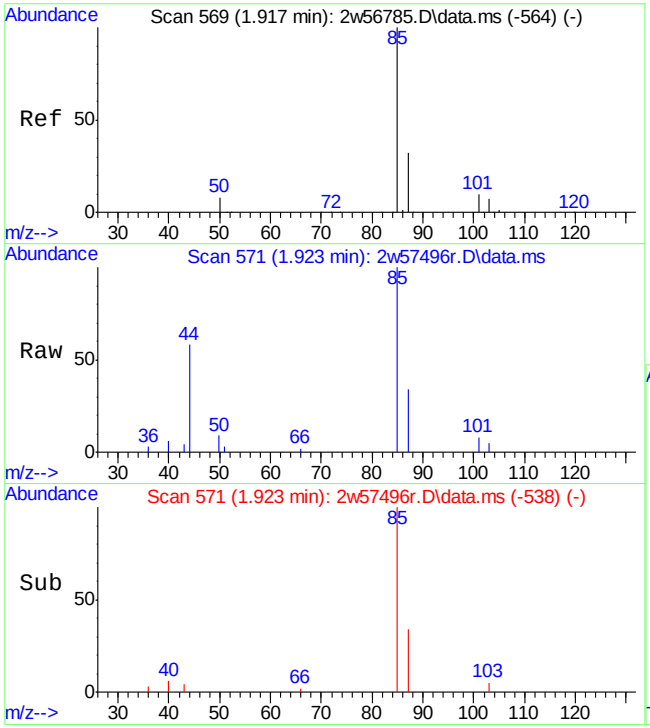


#4
CHLORODIFLUOROMETHANE
Concen: 0.49 PPBV
RT: 1.885 min Scan# 559
Delta R.T. 0.006 min
Lab File: 2w57496r.D
Acq: 29 Jan 2022 12:54 am

Tgt Ion: 67 Resp: 863

Ion	Ratio	Lower	Upper
67	100		
69	40.9	28.8	43.2

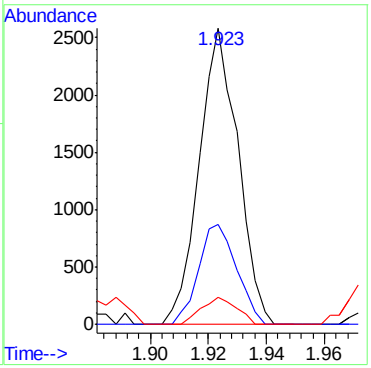


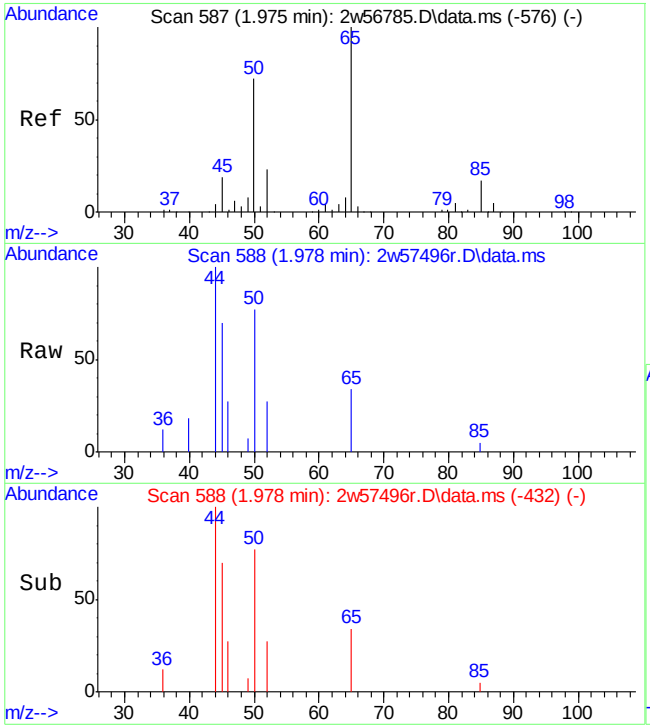


#6
DICHLORODIFLUOROMETHANE
Concen: 0.14 PPBV
RT: 1.923 min Scan# 571
Delta R.T. 0.006 min
Lab File: 2w57496r.D
Acq: 29 Jan 2022 12:54 am

Tgt Ion: 85 Resp: 2415

Ion	Ratio	Lower	Upper
85	100		
87	33.1	25.8	38.6
50	8.2	7.4	11.2

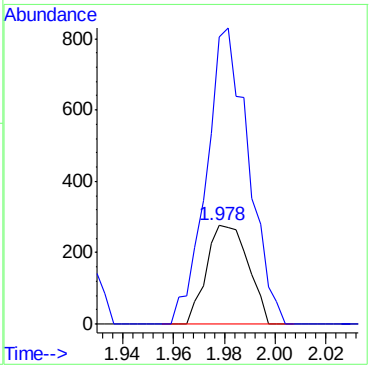


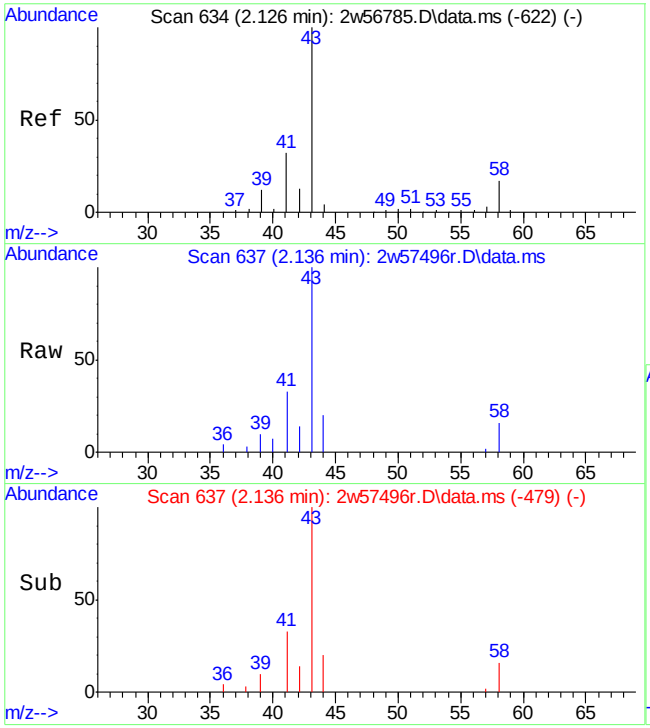


#10
CHLOROMETHANE
Concen: 0.19 PPBV
RT: 1.978 min Scan# 588
Delta R.T. 0.003 min
Lab File: 2w57496r.D
Acq: 29 Jan 2022 12:54 am

Tgt Ion: 52 Resp: 314

Ion	Ratio	Lower	Upper
52	100		
50	304.8	248.2	372.2

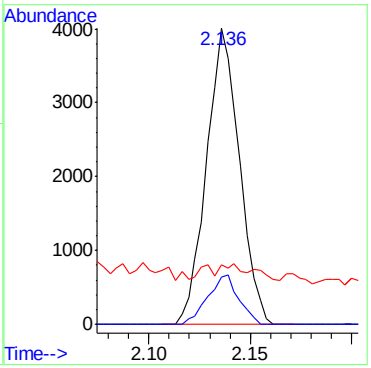


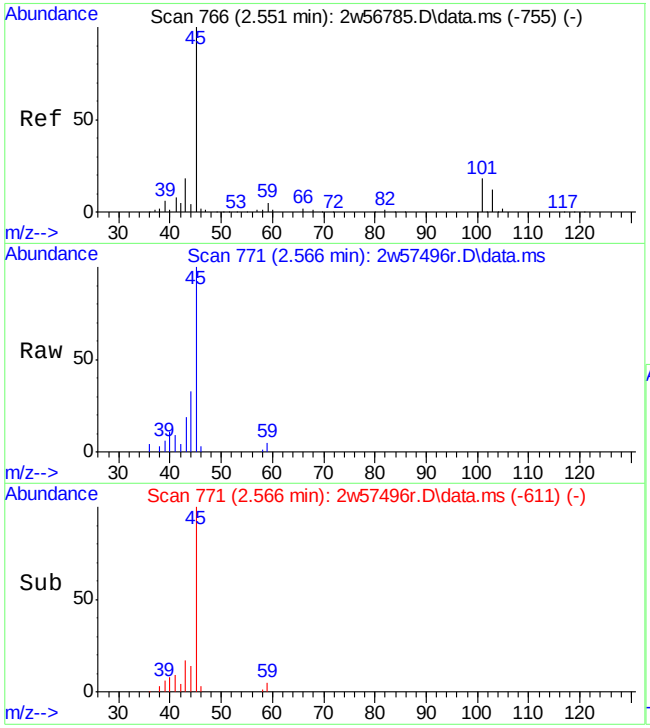


#13
N-BUTANE
Concen: 0.52 PPBV
RT: 2.136 min Scan# 637
Delta R.T. 0.009 min
Lab File: 2w57496r.D
Acq: 29 Jan 2022 12:54 am

Tgt Ion: 43 Resp: 4503

Ion	Ratio	Lower	Upper
43	100		
58	15.5	14.2	21.2
44	0.0	4.2	6.4#

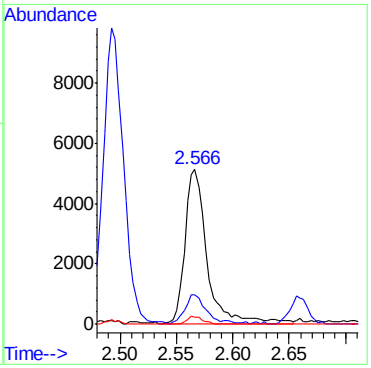


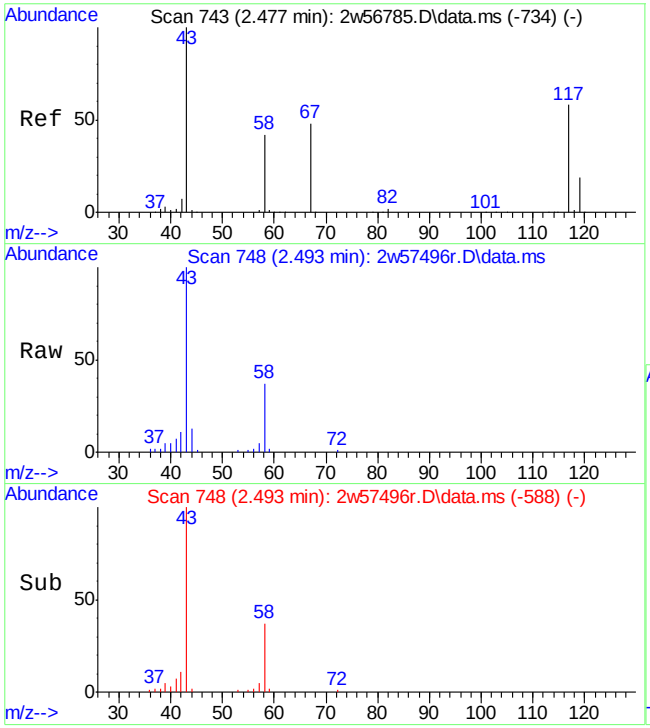


#22
ISOPROPYL ALCOHOL
Concen: 0.78 PPBV
RT: 2.566 min Scan# 771
Delta R.T. 0.015 min
Lab File: 2w57496r.D
Acq: 29 Jan 2022 12:54 am

Tgt Ion: 45 Resp: 7038

Ion	Ratio	Lower	Upper
45	100		
43	18.6	15.5	23.3
59	3.4	4.1	6.1#

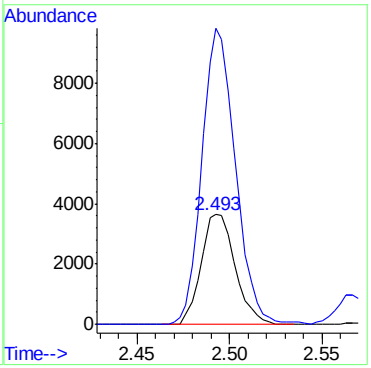


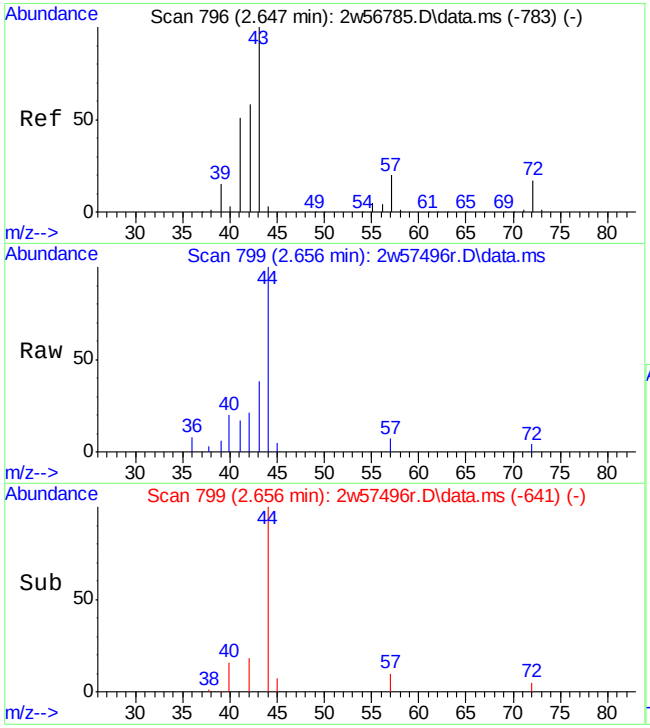


#23
ACETONE
Concen: 1.45 PPBV
RT: 2.493 min Scan# 748
Delta R.T. 0.016 min
Lab File: 2w57496r.D
Acq: 29 Jan 2022 12:54 am

Tgt Ion: 58 Resp: 4622

Ion	Ratio	Lower	Upper
58	100		
43	267.1	195.9	293.9

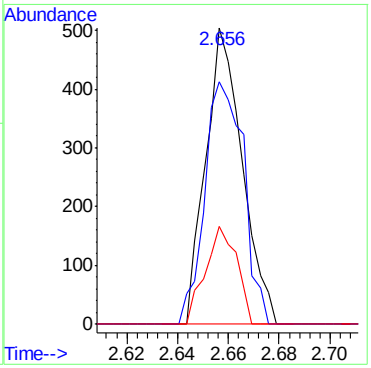


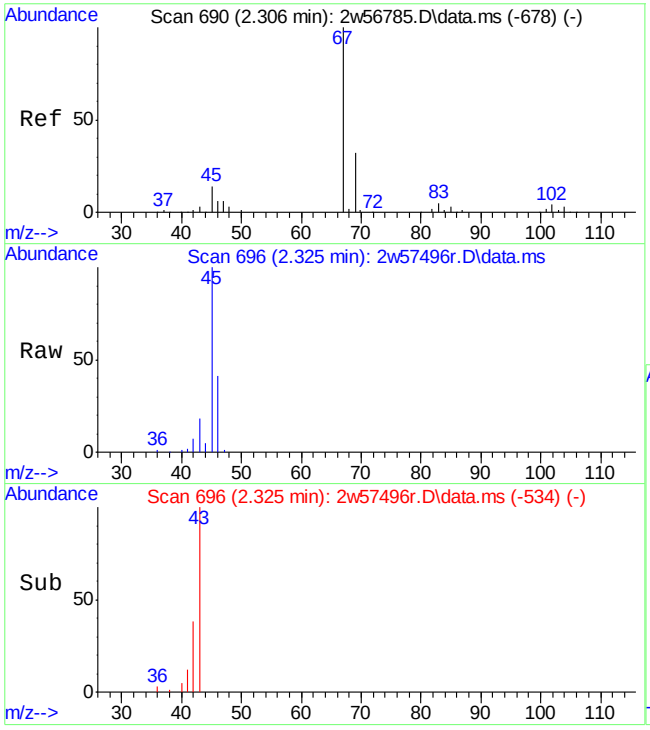


#24
PENTANE
Concen: 0.11 PPBV
RT: 2.656 min Scan# 799
Delta R.T. 0.009 min
Lab File: 2w57496r.D
Acq: 29 Jan 2022 12:54 am

Tgt Ion: 42 Resp: 501

Ion	Ratio	Lower	Upper
42	100		
41	87.6	69.5	104.3
57	28.3	27.4	41.0

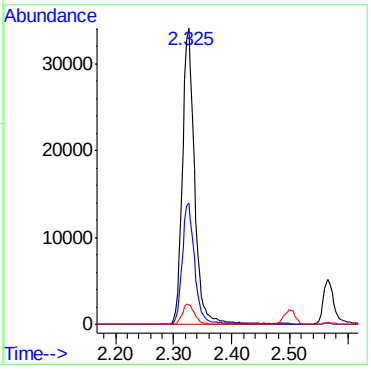


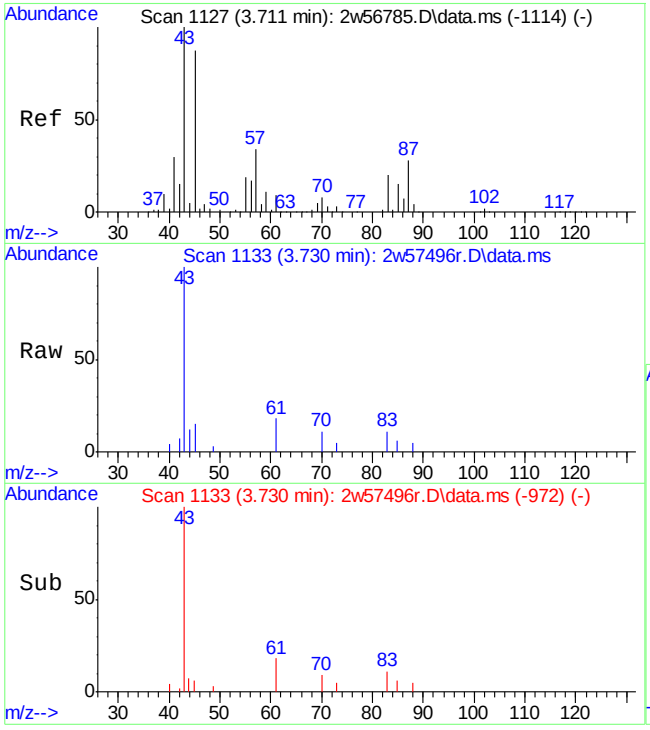


#28
ETHANOL
Concen: 19.45 PPBV
RT: 2.325 min Scan# 696
Delta R.T. 0.019 min
Lab File: 2w57496r.D
Acq: 29 Jan 2022 12:54 am

Tgt Ion: 45 Resp: 49812

Ion	Ratio	Lower	Upper
45	100		
46	41.6	34.1	51.1
42	6.9	6.1	9.1

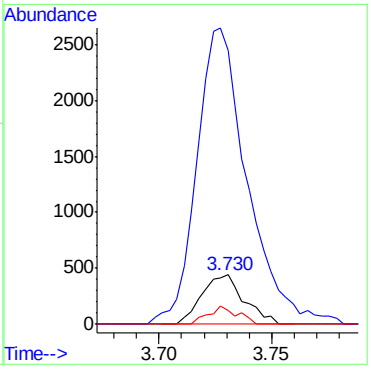




#44
ETHYL ACETATE
Concen: 0.28 PPBV
RT: 3.730 min Scan# 1133
Delta R.T. 0.019 min
Lab File: 2w57496r.D
Acq: 29 Jan 2022 12:54 am

Tgt Ion: 61 Resp: 572

Ion	Ratio	Lower	Upper
61	100		
43	723.8	986.2	1479.2#
88	25.0	38.8	58.2#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47614.D
Acq On : 27 Jan 2022 6:20 pm
Operator : thomash
Sample : mb
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 28 10:25:51 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

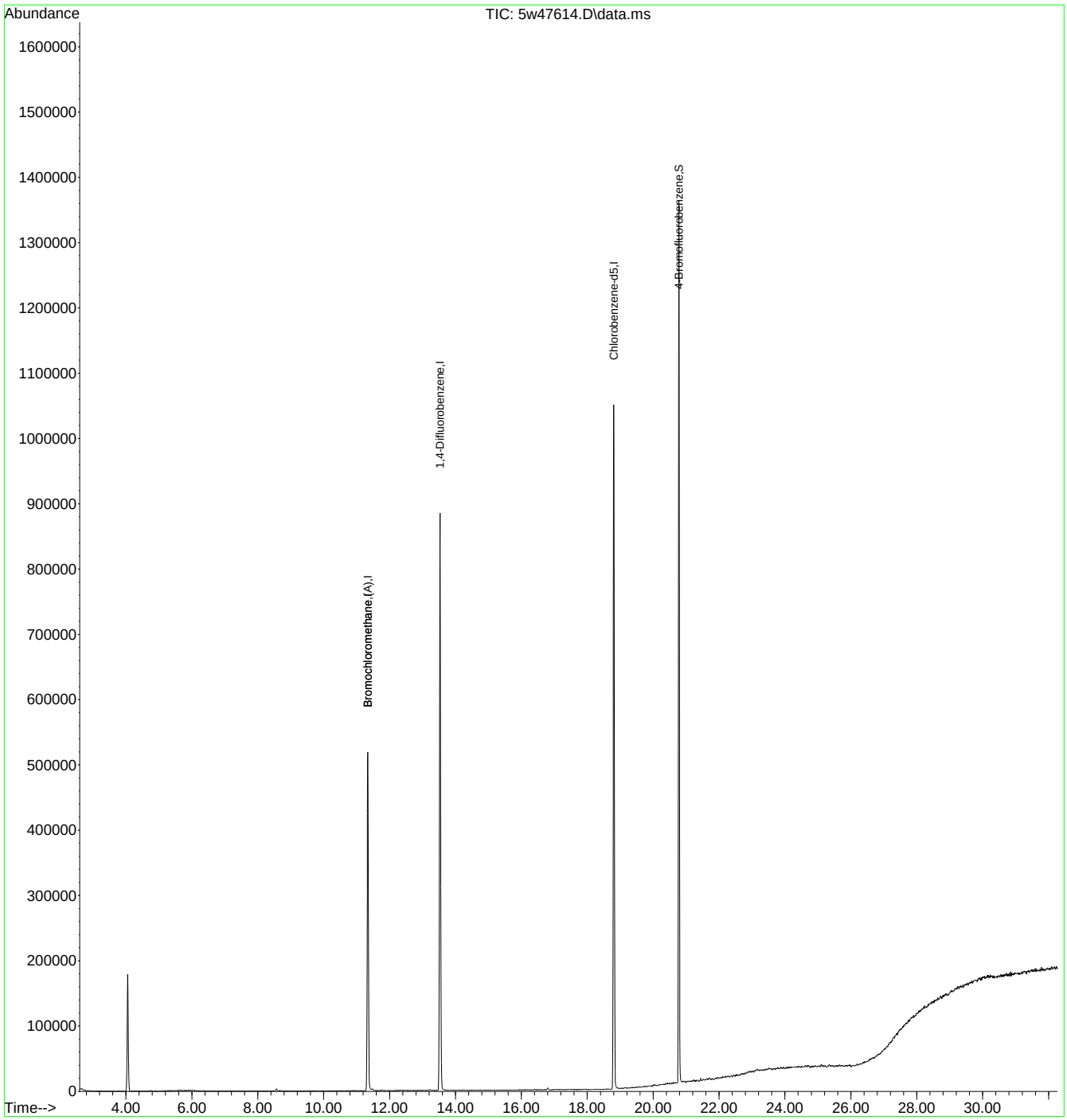
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	252778	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	13.531	114	982355	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	438882	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	252778	10.00	ppb(v	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	524328	9.46	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 94.60%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47614.D
Acq On : 27 Jan 2022 6:20 pm
Operator : thomash
Sample : mb
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 28 10:25:51 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57477.D
Acq On : 28 Jan 2022 11:41 am
Operator : thomash
Sample : mb
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 28 12:21:08 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

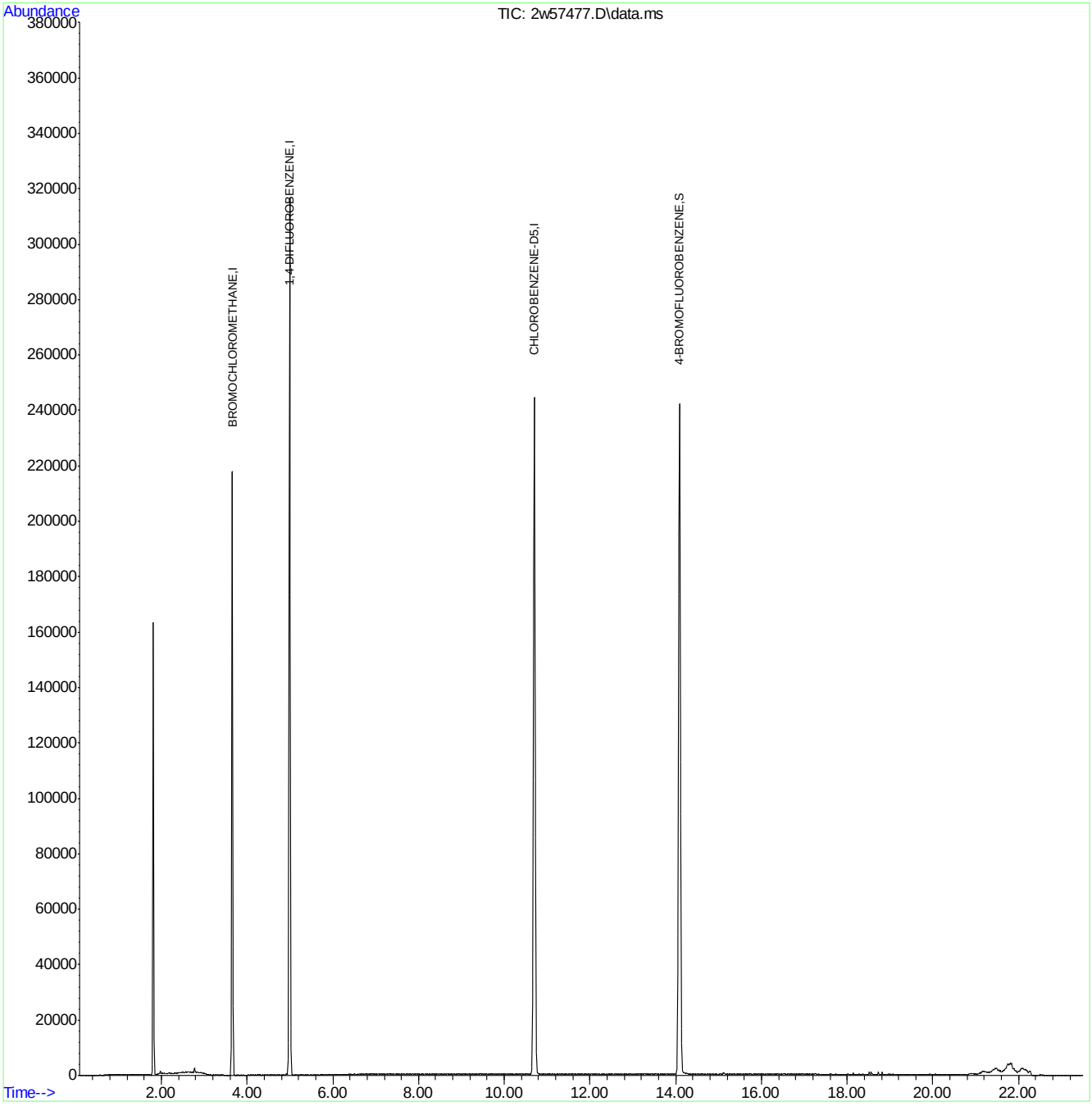
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.653	128	49469	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.991	114	269248	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.698	117	242256	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.087	95	164605	10.17	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57477.D
Acq On : 28 Jan 2022 11:41 am
Operator : thomash
Sample : mb
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 28 12:21:08 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56847.D
Acq On : 22 Dec 2021 10:13 am
Operator : thomash
Sample : mb
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 22 14:39:32 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

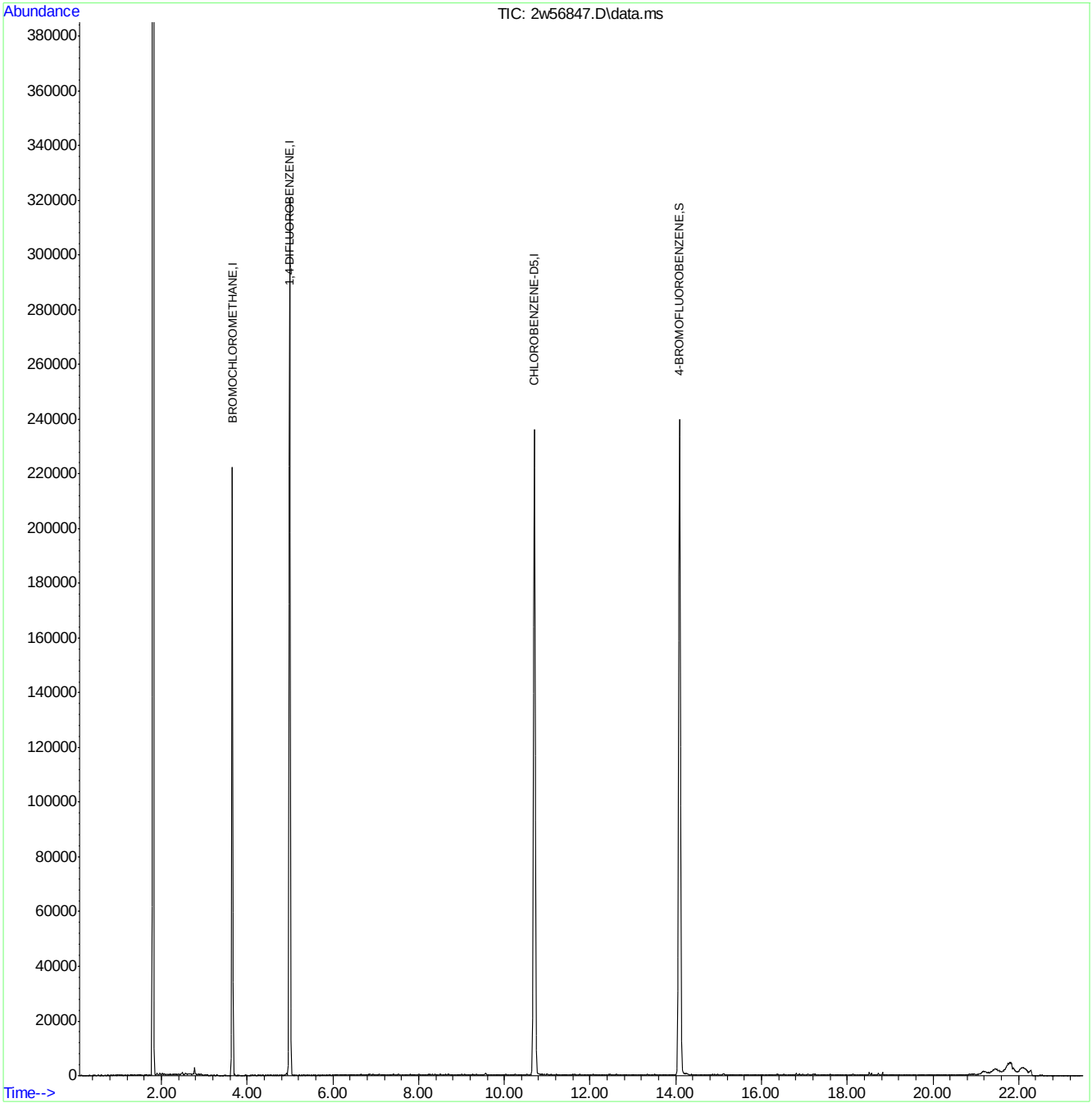
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.653	128	55008	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.991	114	284075	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.701	117	246585	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.090	95	161544	9.80	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56847.D
Acq On : 22 Dec 2021 10:13 am
Operator : thomash
Sample : mb
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 22 14:39:32 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56907.D
Acq On : 27 Dec 2021 11:06 am
Operator : thomash
Sample : mb
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 27 15:08:03 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

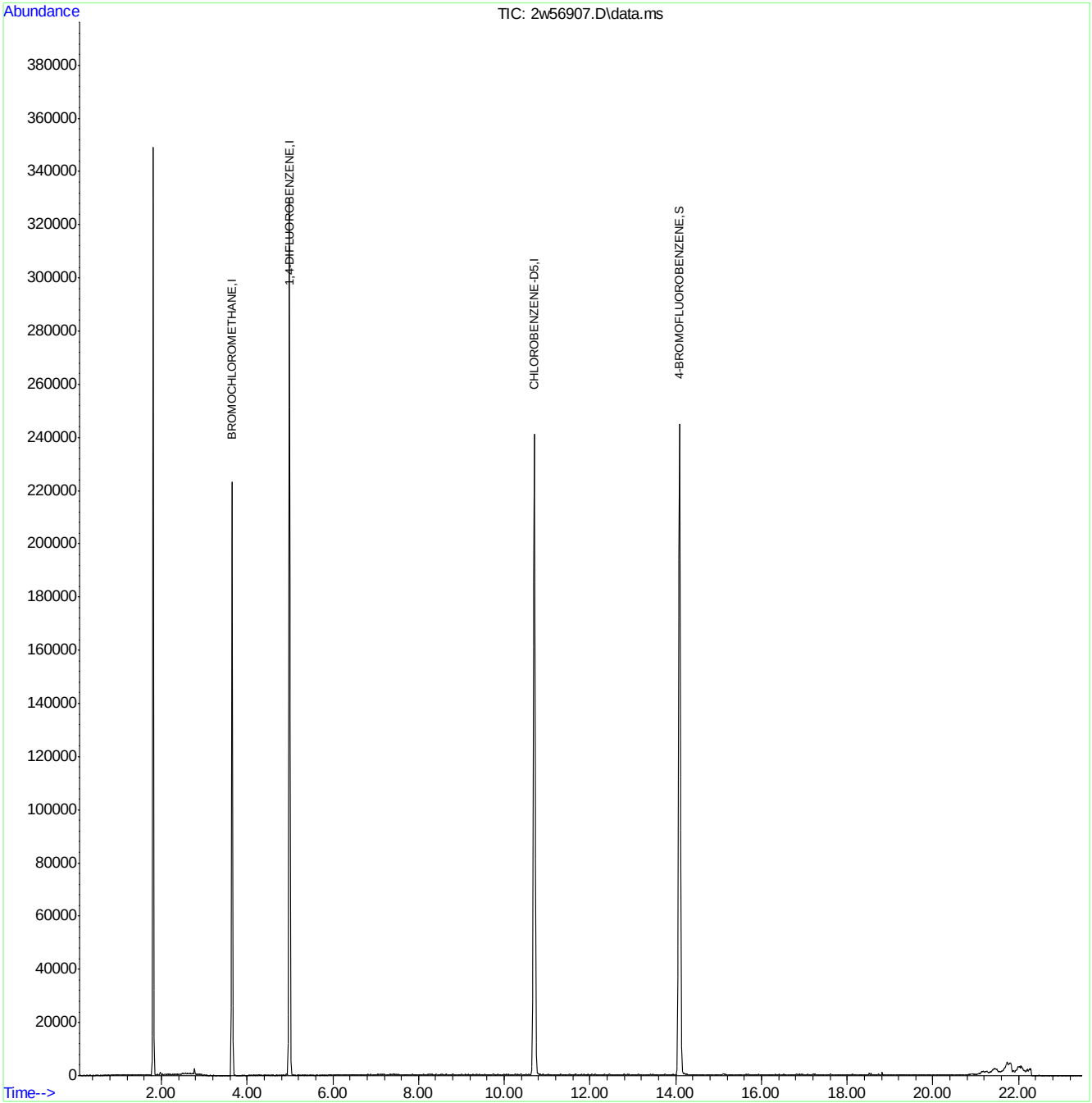
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.650	128	56796	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.988	114	294006	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.698	117	253021	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.087	95	165122	9.77	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56907.D
Acq On : 27 Dec 2021 11:06 am
Operator : thomash
Sample : mb
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 27 15:08:03 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56934.D
Acq On : 28 Dec 2021 10:27 am
Operator : thomash
Sample : mb
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 28 16:26:31 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

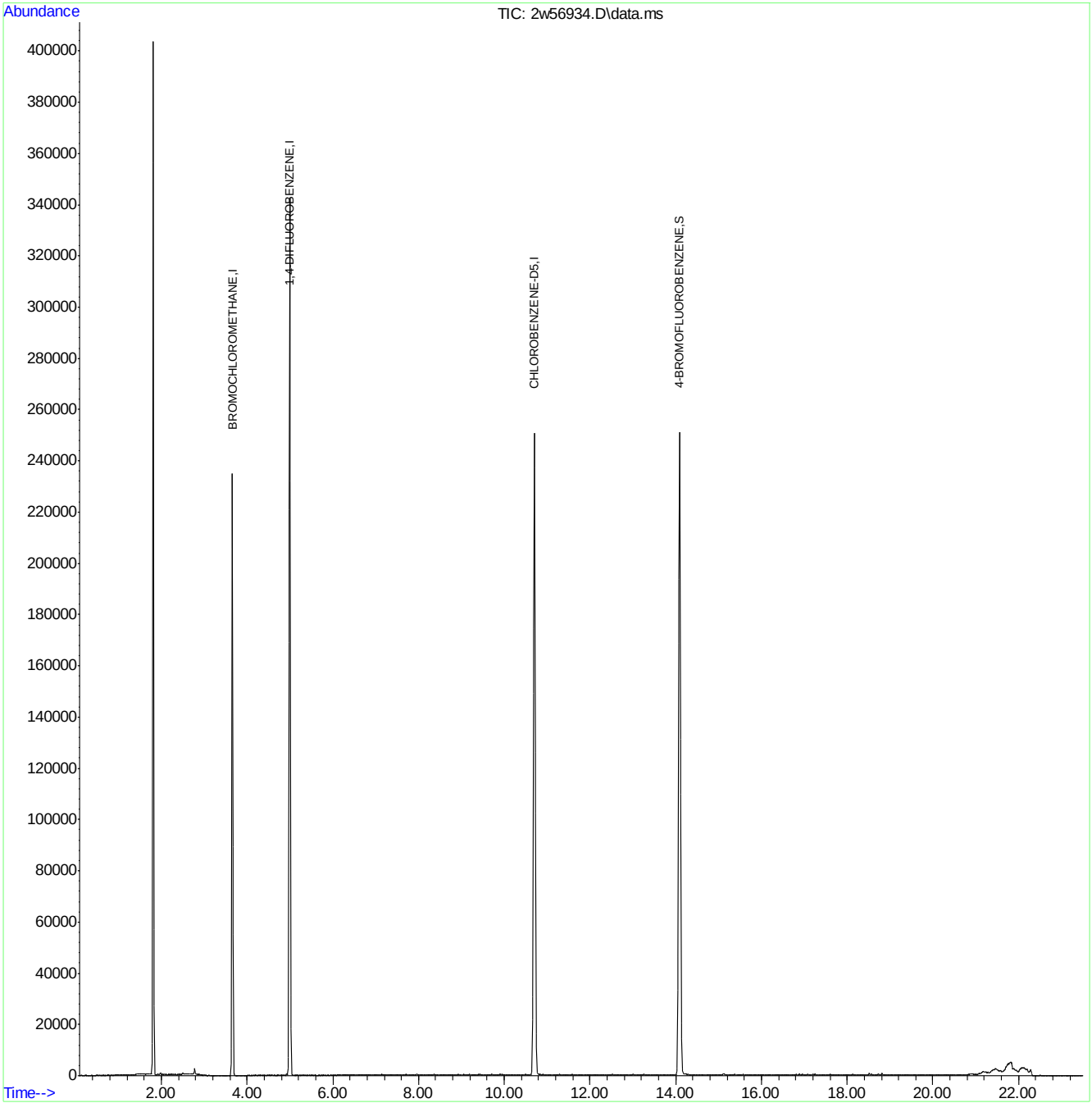
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.657	128	60529	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.994	114	308878	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.701	117	265466	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.087	95	173092	9.76	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56934.D
Acq On : 28 Dec 2021 10:27 am
Operator : thomash
Sample : mb
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 28 16:26:31 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57046.D
Acq On : 4 Jan 2022 3:47 pm
Operator : danat
Sample : mb
Misc : MS55941,V2w2539,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 04 16:13:11 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

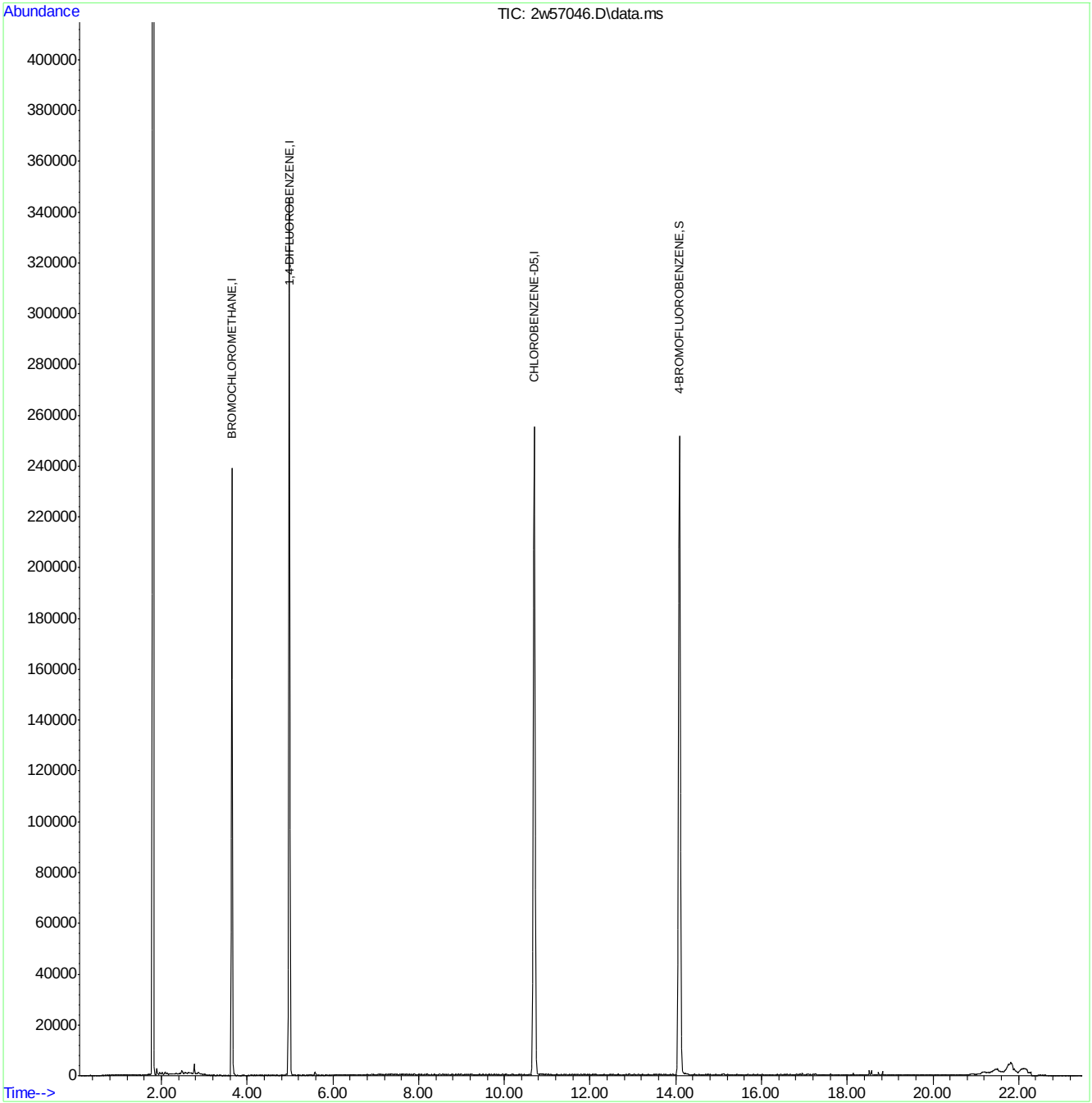
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.647	128	57415	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.984	114	301506	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.698	117	265117	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.083	95	170827	9.64	PPBV	-0.01
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57046.D
Acq On : 4 Jan 2022 3:47 pm
Operator : danat
Sample : mb
Misc : MS55941,V2w2539,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 04 16:13:11 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47609.D
Acq On : 27 Jan 2022 12:31 pm
Operator : thomash
Sample : bs
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 13:04:42 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	220196	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	13.538	114	817917	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	379794	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	220196	10.00	ppb(v	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	493841	10.29	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.90%			
Target Compounds						Qvalue
2) Freon 152A	4.373	65	124887	11.57	ppb(v	98
3) Chlorodifluoromethane	4.447	67	53277	11.82	ppb(v	97
4) Propene	4.281	41	122417	11.78	ppb(v	100
5) Chlorotrifluoroethene	4.330	116	324529	11.47	ppb(v	98
6) Dichlorodifluoromethane	4.373	85	659859	11.04	ppb(v	100
7) 1-Chloro-1,1-difluoroe...	4.777	65	393559	11.07	ppb(v	99
8) Chloromethane	4.777	50	166953	11.00	ppb(v	99
9) Dichlorotetrafluoroethane	4.679	85	608356	11.27	ppb(v	99
10) Vinyl Chloride	4.991	62	208071	11.22	ppb(v	100
11) 1,3-Butadiene	5.046	54	129186	10.84	ppb(v	98
12) n-Butane	4.881	58	30388	12.01	ppb(v	93
13) Bromomethane	5.701	94	148256	9.32	ppb(v	99
14) Chloroethane	6.000	64	104685	10.52	ppb(v	98
15) Dichlorofluoromethane	6.447	67	508009	10.06	ppb(v	100
16) Acetonitrile	9.439	41	143687	9.95	ppb(v	99
17) Freon 123	7.542	83	526495	10.25	ppb(v	97
18) Freon 123A	7.420	117	277658	10.28	ppb(v	89
19) Bromoethene	6.257	106	243116	10.47	ppb(v	98
20) Acrolein	8.050	56	90927	10.54	ppb(v	97
21) Trichlorofluoromethane	6.343	101	593169	10.23	ppb(v	100
22) Acetone	8.619	58	90255	10.02	ppb(v	97
23) Pentane	6.361	57	53925	10.43	ppb(v	96
24) Iodomethane	7.689	142	682349	10.25	ppb(v	97
25) Isopropyl Alcohol	8.435	43	61462	10.13	ppb(v	93
26) 1,1-Dichloroethene	7.420	61	363096	10.29	ppb(v	98
27) Freon 113	7.536	101	533300	10.32	ppb(v	95
28) Methylene Chloride	8.558	84	216606	9.58	ppb(v	97
29) Carbon Disulfide	7.475	76	733596	10.25	ppb(v	99
30) Ethanol	7.322	45	75416	10.23	ppb(v	96
31) Acrylonitrile	10.044	53	150791	10.30	ppb(v	99
32) 3-Chloropropene	8.368	76	109206	10.61	ppb(v	97
33) trans-1,2-Dichloroethene	8.906	61	346289	10.19	ppb(v	99
34) tert-Butyl Alcohol	9.280	59	448671	10.14	ppb(v	99
35) Methyl tert-Butyl Ether	9.139	73	622912	9.74	ppb(v	97
36) Vinyl Acetate	10.473	43	490761	9.94	ppb(v	99
37) 1,1-Dichloroethane	10.026	63	404076	10.08	ppb(v	99
38) 2-Butanone	11.959	72	103402	10.97	ppb(v	95
39) Hexane	9.114	56	183738	10.36	ppb(v	100
40) cis-1,2-Dichloroethene	10.999	61	317940	10.15	ppb(v	98
41) Di-isopropyl Ether	9.867	87	185266	10.44	ppb(v	90
42) Ethyl Acetate	11.665	61	74142	11.28	ppb(v	92
43) Methyl Acrylate	11.684	55	363317	10.77	ppb(v	99
44) Chloroform	11.482	83	538317	10.02	ppb(v	99
45) 2,4-Dimethylpentane	10.173	57	388228	10.08	ppb(v	99
46) Tetrahydrofuran	11.763	72	107177	10.84	ppb(v	97
47) 1,1,1-Trichloroethane	11.867	97	500422	9.89	ppb(v	98
48) 1,2-Dichloroethane	12.816	62	291686	10.03	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47609.D
Acq On : 27 Jan 2022 12:31 pm
Operator : thomash
Sample : bs
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 13:04:42 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	Benzene	12.504	78	695915	9.52	ppb(v	100
50)	Carbon Tetrachloride	11.769	117	543119	10.48	ppb(v	99
51)	Cyclohexane	11.427	56	330309	10.02	ppb(v	97
52)	2,3-Dimethylpentane	11.598	71	154162	10.61	ppb(v	99
54)	2,2,4-Trimethylpentane	12.314	57	1027340	10.07	ppb(v	98
55)	Heptane	12.491	71	218881	10.82	ppb(v	98
56)	Trichloroethene	13.525	97	220882	10.09	ppb(v	95
57)	1,2-Dichloropropane	14.394	63	263861	10.20	ppb(v	96
58)	Dibromomethane	14.229	174	331860	9.86	ppb(v	89
59)	Ethyl Acrylate	14.394	55	488889	10.91	ppb(v	99
60)	Methyl Methacrylate	14.755	69	251021	10.87	ppb(v	99
61)	1,4-Dioxane	14.828	88	165553	9.43	ppb(v	98
62)	Bromodichloromethane	14.504	83	553606	10.19	ppb(v	98
63)	cis-1,3-Dichloropropene	15.611	75	445021	9.87	ppb(v	99
64)	4-Methyl-2-pentanone	16.670	58	207901	11.11	ppb(v	97
65)	trans-1,3-Dichloropropene	16.762	75	385130	9.59	ppb(v	99
66)	Toluene	16.064	91	877947	10.23	ppb(v	99
67)	1,1,2-Trichloroethane	17.055	97	317122	10.44	ppb(v	97
68)	1,3-Dichloropropane	17.557	76	402025	10.08	ppb(v	99
69)	2-Hexanone	18.205	43	417063	10.45	ppb(v	99
70)	Ethyl Methacrylate	17.043	69	413261	11.43	ppb(v	93
71)	Dibromochloromethane	17.410	129	611485	10.72	ppb(v	99
72)	Tetrachloroethene	16.792	166	468880	10.50	ppb(v	97
73)	1,2-Dibromoethane	17.857	107	511827	10.42	ppb(v	100
74)	Octane	15.770	43	469113	10.51	ppb(v	98
75)	1,1,1,2-Tetrachloroethane	18.946	131	390070	10.13	ppb(v	99
77)	Chlorobenzene	18.842	112	681371	10.10	ppb(v	99
78)	Ethylbenzene	18.890	91	1062687	10.13	ppb(v	99
79)	m,p-Xylene	19.147	91	1590686	20.90	ppb(v	100
80)	Styrene	19.943	104	620521	11.22	ppb(v	99
81)	Nonane	18.738	43	468171	10.44	ppb(v	98
82)	o-Xylene	19.863	91	830024	10.37	ppb(v	99
83)	Bromoform	19.992	173	561150	10.88	ppb(v	99
84)	1,1,2,2-Tetrachloroethane	21.050	83	638810	10.22	ppb(v	99
85)	1,2,3-Trichloropropane	21.246	75	465728	9.98	ppb(v	98
86)	Isopropylbenzene	20.365	105	1152378	10.49	ppb(v	99
87)	Bromobenzene	20.946	156	382839	10.61	ppb(v	88
88)	2-Chlorotoluene	21.209	126	283101	10.55	ppb(v	91
89)	n-Propylbenzene	20.983	120	301785	11.31	ppb(v	95
91)	4-Ethyltoluene	21.136	105	1073413	11.10	ppb(v	99
92)	1,3,5-Trimethylbenzene	21.252	105	839315	10.65	ppb(v	99
93)	alpha-Methylstyrene	21.601	118	449337	11.66	ppb(v	99
94)	tert-Butylbenzene	21.705	134	182508	10.26	ppb(v	96
95)	1,2,4-Trimethylbenzene	21.790	105	840956	11.06	ppb(v	99
96)	1,3-Dichlorobenzene	22.231	146	566147	11.60	ppb(v	98
97)	1,2,3-trimethylbenzene	22.365	105	786060	11.05	ppb(v	100
98)	Benzyl Chloride	22.635	126	158035	12.64	ppb(v	96
99)	1,4-Dichlorobenzene	22.341	146	540443	11.72	ppb(v	98
100)	sec-Butylbenzene	21.943	134	226981	10.43	ppb(v	99
101)	p-Isopropyltoluene	22.121	134	250394	10.76	ppb(v	98
102)	1,2-Dichlorobenzene	22.867	146	494037	12.00	ppb(v	98
103)	n-Butylbenzene	22.659	134	209818	11.56	ppb(v	94
104)	Hexachloroethane	22.867	201	300876	10.30	ppb(v	93
105)	1,2,4-Trichlorobenzene	24.666	180	203613	11.75	ppb(v	99
106)	Naphthalene	25.088	128	461536	10.77	ppb(v	99
107)	Hexachlorobutadiene	24.623	225	276477	10.13	ppb(v	98
109)	TVHC as equiv Pentane	6.349	TIC	2220784	10.72	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47609.D
Acq On : 27 Jan 2022 12:31 pm
Operator : thomash
Sample : bs
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 13:04:42 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

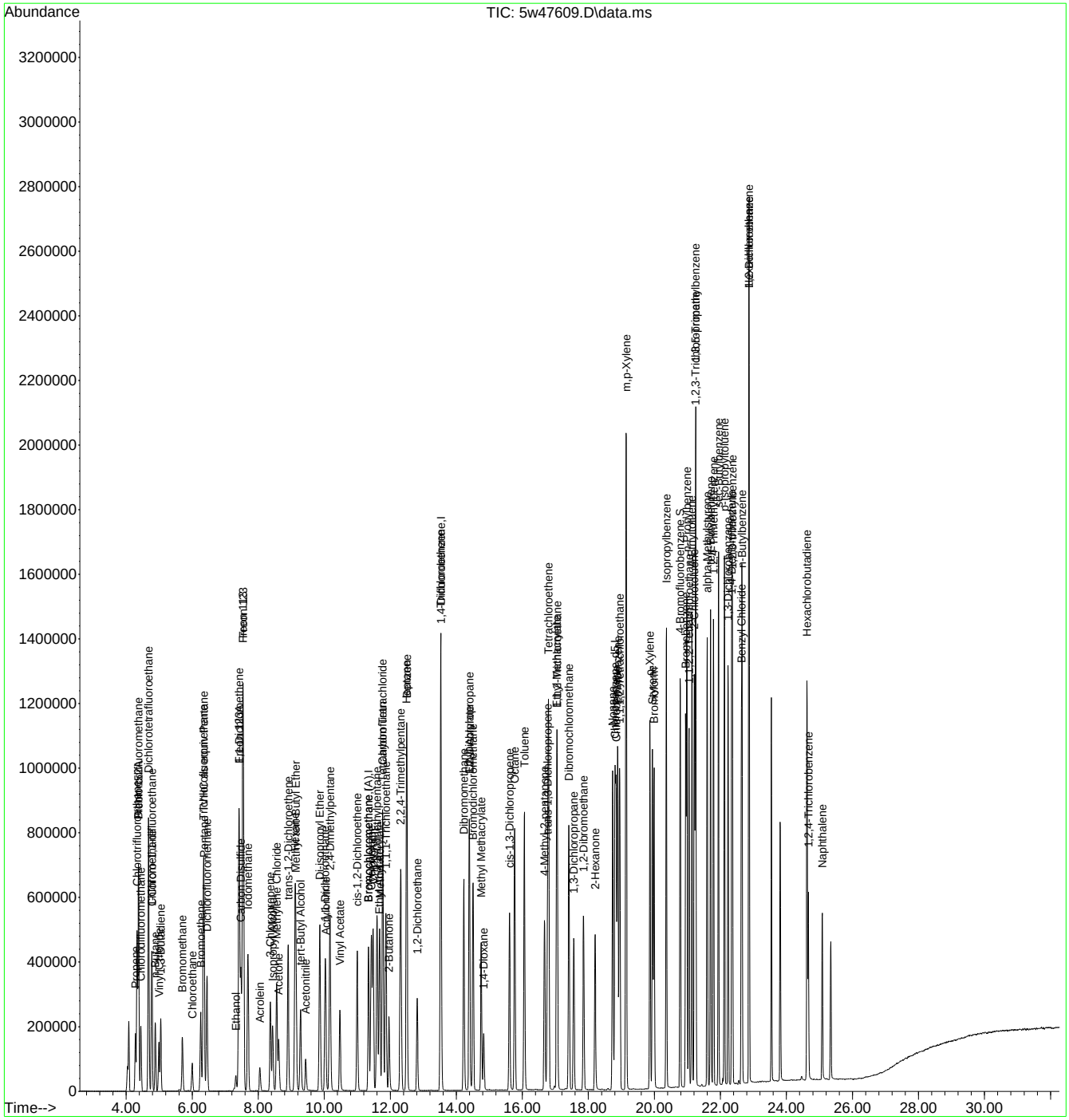
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47609.D
Acq On : 27 Jan 2022 12:31 pm
Operator : thomash
Sample : bs
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 13:04:42 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47610.D
Acq On : 27 Jan 2022 1:24 pm
Operator : thomash
Sample : bsd
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:22:11 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	224915	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	13.537	114	840225	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	384851	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	224915	10.00	ppb(v	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	502234	10.33	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 103.30%			
Target Compounds						Qvalue
2) Freon 152A	4.373	65	126808	11.50	ppb(v	98
3) Chlorodifluoromethane	4.447	67	52991	11.51	ppb(v	99
4) Propene	4.281	41	123467	11.63	ppb(v	99
5) Chlorotrifluoroethene	4.330	116	327289	11.33	ppb(v	97
6) Dichlorodifluoromethane	4.373	85	664812	10.89	ppb(v	100
7) 1-Chloro-1,1-difluoroe...	4.777	65	398766	10.98	ppb(v	100
8) Chloromethane	4.777	50	168683	10.88	ppb(v	100
9) Dichlorotetrafluoroethane	4.679	85	613012	11.12	ppb(v	97
10) Vinyl Chloride	4.991	62	206940	10.92	ppb(v	99
11) 1,3-Butadiene	5.046	54	128309	10.54	ppb(v	97
12) n-Butane	4.887	58	30489	11.79	ppb(v	93
13) Bromomethane	5.707	94	147821	9.10	ppb(v	99
14) Chloroethane	6.000	64	104671	10.30	ppb(v	98
15) Dichlorofluoromethane	6.447	67	505500	9.80	ppb(v	99
16) Acetonitrile	9.439	41	143718	9.75	ppb(v	99
17) Freon 123	7.548	83	527553	10.05	ppb(v	96
18) Freon 123A	7.420	117	279906	10.14	ppb(v	90
19) Bromoethene	6.264	106	242324	10.22	ppb(v	98
20) Acrolein	8.050	56	89681	10.18	ppb(v	98
21) Trichlorofluoromethane	6.343	101	592382	10.00	ppb(v	100
22) Acetone	8.619	58	92364	10.04	ppb(v	94
23) Pentane	6.361	57	53973	10.22	ppb(v	97
24) Iodomethane	7.689	142	683819	10.06	ppb(v	98
25) Isopropyl Alcohol	8.429	43	60916	9.83	ppb(v	92
26) 1,1-Dichloroethene	7.426	61	366784	10.17	ppb(v	99
27) Freon 113	7.542	101	532948	10.09	ppb(v	95
28) Methylene Chloride	8.564	84	216850	9.39	ppb(v	97
29) Carbon Disulfide	7.475	76	740385	10.13	ppb(v	99
30) Ethanol	7.322	45	75581	10.04	ppb(v	98
31) Acrylonitrile	10.044	53	150565	10.07	ppb(v	98
32) 3-Chloropropene	8.368	76	109221	10.39	ppb(v	97
33) trans-1,2-Dichloroethene	8.906	61	351094	10.12	ppb(v	97
34) tert-Butyl Alcohol	9.280	59	439638	9.72	ppb(v	99
35) Methyl tert-Butyl Ether	9.139	73	628182	9.62	ppb(v	99
36) Vinyl Acetate	10.473	43	482370	9.56	ppb(v	99
37) 1,1-Dichloroethane	10.032	63	404779	9.89	ppb(v	99
38) 2-Butanone	11.959	72	102193	10.61	ppb(v	94
39) Hexane	9.114	56	185534	10.24	ppb(v	100
40) cis-1,2-Dichloroethene	10.999	61	317834	9.93	ppb(v	98
41) Di-isopropyl Ether	9.867	87	186803	10.31	ppb(v	92
42) Ethyl Acetate	11.665	61	72930	10.86	ppb(v	90
43) Methyl Acrylate	11.684	55	360098	10.45	ppb(v	98
44) Chloroform	11.482	83	544543	9.92	ppb(v	100
45) 2,4-Dimethylpentane	10.173	57	388733	9.88	ppb(v	99
46) Tetrahydrofuran	11.763	72	106665	10.56	ppb(v	96
47) 1,1,1-Trichloroethane	11.867	97	497837	9.63	ppb(v	97
48) 1,2-Dichloroethane	12.816	62	292081	9.83	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47610.D
Acq On : 27 Jan 2022 1:24 pm
Operator : thomash
Sample : bsd
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:22:11 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	Benzene	12.504	78	701160	9.40	ppb(v	100
50)	Carbon Tetrachloride	11.769	117	538282	10.17	ppb(v	99
51)	Cyclohexane	11.427	56	331662	9.85	ppb(v	98
52)	2,3-Dimethylpentane	11.598	71	154344	10.40	ppb(v	99
54)	2,2,4-Trimethylpentane	12.314	57	1031529	9.85	ppb(v	98
55)	Heptane	12.491	71	220420	10.61	ppb(v	97
56)	Trichloroethene	13.525	97	220524	9.80	ppb(v	96
57)	1,2-Dichloropropane	14.394	63	264014	9.93	ppb(v	97
58)	Dibromomethane	14.229	174	328081	9.49	ppb(v	90
59)	Ethyl Acrylate	14.394	55	485173	10.54	ppb(v	99
60)	Methyl Methacrylate	14.755	69	252056	10.62	ppb(v	99
61)	1,4-Dioxane	14.828	88	163300	9.05	ppb(v	98
62)	Bromodichloromethane	14.504	83	556979	9.98	ppb(v	98
63)	cis-1,3-Dichloropropene	15.611	75	442882	9.56	ppb(v	99
64)	4-Methyl-2-pentanone	16.670	58	205702	10.70	ppb(v	98
65)	trans-1,3-Dichloropropene	16.762	75	386714	9.38	ppb(v	99
66)	Toluene	16.058	91	869686	9.86	ppb(v	99
67)	1,1,2-Trichloroethane	17.055	97	314757	10.09	ppb(v	97
68)	1,3-Dichloropropane	17.557	76	403496	9.84	ppb(v	99
69)	2-Hexanone	18.205	43	415669	10.14	ppb(v	99
70)	Ethyl Methacrylate	17.043	69	408924	11.01	ppb(v	92
71)	Dibromochloromethane	17.410	129	608502	10.38	ppb(v	99
72)	Tetrachloroethene	16.792	166	465967	10.16	ppb(v	97
73)	1,2-Dibromoethane	17.850	107	503976	9.98	ppb(v	99
74)	Octane	15.764	43	467751	10.20	ppb(v	97
75)	1,1,1,2-Tetrachloroethane	18.946	131	387314	9.79	ppb(v	99
77)	Chlorobenzene	18.842	112	679816	9.95	ppb(v	99
78)	Ethylbenzene	18.890	91	1051655	9.90	ppb(v	100
79)	m,p-Xylene	19.141	91	1562057	20.25	ppb(v	98
80)	Styrene	19.943	104	623747	11.13	ppb(v	99
81)	Nonane	18.738	43	466920	10.27	ppb(v	98
82)	o-Xylene	19.863	91	819516	10.10	ppb(v	99
83)	Bromoform	19.992	173	557180	10.66	ppb(v	98
84)	1,1,2,2-Tetrachloroethane	21.050	83	634788	10.03	ppb(v	100
85)	1,2,3-Trichloropropane	21.246	75	466163	9.85	ppb(v	98
86)	Isopropylbenzene	20.365	105	1145072	10.29	ppb(v	99
87)	Bromobenzene	20.946	156	382079	10.45	ppb(v	87
88)	2-Chlorotoluene	21.209	126	283376	10.42	ppb(v	93
89)	n-Propylbenzene	20.983	120	300290	11.11	ppb(v	96
91)	4-Ethyltoluene	21.142	105	1076723	10.98	ppb(v	100
92)	1,3,5-Trimethylbenzene	21.252	105	845074	10.59	ppb(v	99
93)	alpha-Methylstyrene	21.601	118	446440	11.44	ppb(v	99
94)	tert-Butylbenzene	21.705	134	183264	10.17	ppb(v	96
95)	1,2,4-Trimethylbenzene	21.790	105	843605	10.95	ppb(v	100
96)	1,3-Dichlorobenzene	22.231	146	563302	11.39	ppb(v	98
97)	1,2,3-trimethylbenzene	22.365	105	793255	11.00	ppb(v	99
98)	Benzyl Chloride	22.635	126	159387	12.58	ppb(v	100
99)	1,4-Dichlorobenzene	22.347	146	544908	11.66	ppb(v	99
100)	sec-Butylbenzene	21.943	134	231906	10.52	ppb(v	99
101)	p-Isopropyltoluene	22.121	134	247906	10.51	ppb(v	99
102)	1,2-Dichlorobenzene	22.867	146	492011	11.79	ppb(v	98
103)	n-Butylbenzene	22.659	134	206760	11.24	ppb(v	92
104)	Hexachloroethane	22.867	201	302298	10.22	ppb(v	90
105)	1,2,4-Trichlorobenzene	24.666	180	202855	11.55	ppb(v	99
106)	Naphthalene	25.088	128	462141	10.64	ppb(v	100
107)	Hexachlorobutadiene	24.623	225	274809	9.94	ppb(v	98
109)	TVHC as equiv Pentane	6.355	TIC	2215006	10.47	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47610.D
Acq On : 27 Jan 2022 1:24 pm
Operator : thomash
Sample : bsd
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:22:11 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

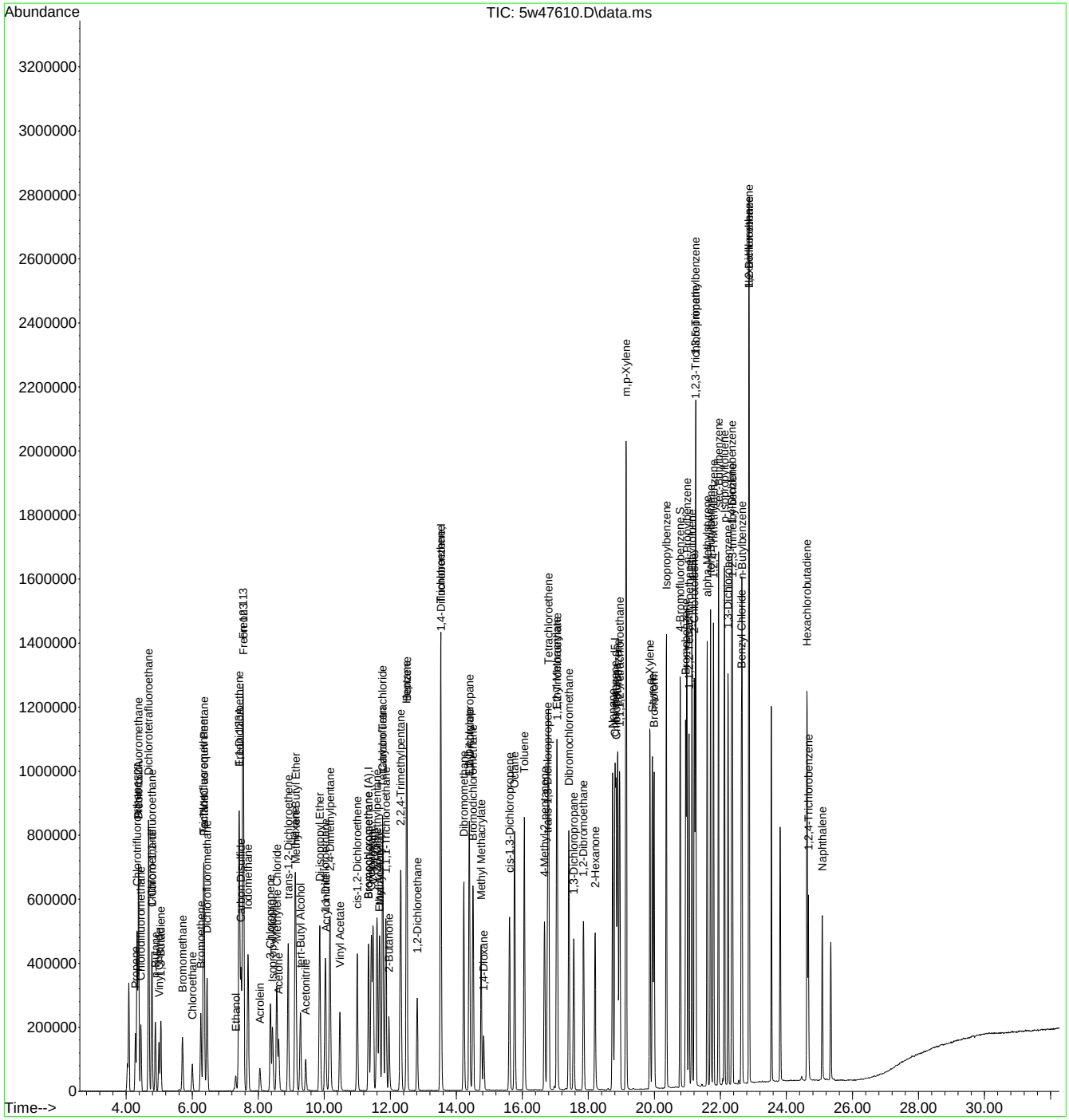
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47610.D
Acq On : 27 Jan 2022 1:24 pm
Operator : thomash
Sample : bsd
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:22:11 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57474.D
Acq On : 28 Jan 2022 9:43 am
Operator : thomash
Sample : bs
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:56:00 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.657	128	50546	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.994	114	274231	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.698	117	242407	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.093	95	165086	10.19	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.872	65	38667	8.34	PPBV		96
4) CHLORODIFLUOROMETHANE	1.888	67	16682	8.98	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.904	116	102222	8.68	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.924	85	202225	11.12	PPBV		99
7) PROPYLENE	1.901	41	44332	8.59	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.975	65	110801	9.21	PPBV		99
9) FREON 114	2.023	85	181860	9.26	PPBV		100
10) CHLOROMETHANE	1.985	52	17987	10.29	PPBV		100
11) VINYL CHLORIDE	2.065	62	69814	9.40	PPBV		100
12) 1,3-BUTADIENE	2.116	54	50217	9.57	PPBV		95
13) N-BUTANE	2.136	43	88715	9.84	PPBV		98
14) BROMOMETHANE	2.216	94	67024	8.97	PPBV		100
15) CHLOROETHANE	2.280	64	39337	9.46	PPBV	#	86
16) DICHLOROFLUOROMETHANE	2.313	67	147665	9.32	PPBV		99
17) ACETONITRILE	2.399	41	49343	9.25	PPBV		100
18) ACROLEIN	2.444	56	28854	9.34	PPBV		99
19) FREON 123	2.460	83	159213	9.52	PPBV		100
20) FREON 123A	2.480	117	87727	9.28	PPBV		93
21) TRICHLOROFLUOROMETHANE	2.544	101	149612	9.43	PPBV		100
22) ISOPROPYL ALCOHOL	2.560	45	102878	10.89	PPBV		96
23) ACETONE	2.486	58	31826	9.52	PPBV		96
24) PENTANE	2.657	42	57126	12.06	PPBV		95
25) IODOMETHANE	2.714	142	167794	9.33	PPBV		98
26) 1,1-DICHLOROETHYLENE	2.740	96	66194	10.06	PPBV		93
27) CARBON DISULFIDE	2.875	76	178934	10.71	PPBV		99
28) ETHANOL	2.319	45	25216	9.38	PPBV		98
29) BROMOETHENE	2.409	106	65115	9.28	PPBV		100
30) ACRYLONITRILE	2.628	52	41048	10.36	PPBV		100
31) METHYLENE CHLORIDE	2.776	84	61047	8.67	PPBV		91
32) 3-CHLOROPROPENE	2.817	76	33411	11.16	PPBV		84
33) FREON 113	2.872	151	106324	9.46	PPBV		94
34) TRANS-1,2-DICHLOROETHENE	3.113	96	69653	8.73	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.750	59	110688	14.37	PPBV	#	82
36) METHYL TERTIARY BUTYL ...	3.226	73	174534	11.15	PPBV		99
37) TETRAHYDROFURAN	3.952	72	36296	10.40	PPBV		91
38) HEXANE	3.708	57	113504	9.53	PPBV		94
39) VINYL ACETATE	3.268	86	17571	8.73	PPBV		77
40) 1,1-DICHLOROETHANE	3.194	63	117931	9.18	PPBV		99
41) METHYL ETHYL KETONE	3.367	72	36389	9.16	PPBV		86
42) CIS-1,2-DICHLOROETHENE	3.576	96	76457	9.04	PPBV		97
43) DIISOPROPYL ETHER	3.711	59	33159	10.27	PPBV		85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57474.D
Acq On : 28 Jan 2022 9:43 am
Operator : thomash
Sample : bs
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:56:00 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.718	61	21689	10.23	PPBV		72
45) METHYL ACRYLATE	3.705	55	129894	9.59	PPBV	#	99
46) CHLOROFORM	3.734	83	141960	9.28	PPBV		99
47) 2,4-DIMETHYLPENTANE	4.248	57	134697	9.39	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.332	97	134220	9.58	PPBV		99
49) CARBON TETRACHLORIDE	4.772	117	139965	9.41	PPBV		100
50) 1,2-DICHLOROETHANE	4.161	62	83487	9.67	PPBV		98
51) BENZENE	4.657	78	231240	9.01	PPBV		98
53) CYCLOHEXANE	4.875	84	103944	9.01	PPBV		99
54) 2,3-DIMETHYLPENTANE	5.139	71	54160	9.24	PPBV		96
55) TRICHLOROETHENE	5.589	95	98883	8.85	PPBV		98
56) 1,2-DICHLOROPROPANE	5.348	63	82956	8.94	PPBV		99
57) DIBROMOMETHANE	5.306	174	89663	8.08	PPBV		96
58) ETHYL ACRYLATE	5.464	55	156386	10.14	PPBV		99
59) BROMODICHLOROMETHANE	5.534	83	160728	9.19	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.689	57	362901	8.97	PPBV		100
61) 1,4-DIOXANE	5.599	88	53297	7.89	PPBV		98
62) HEPTANE	6.010	43	121511	10.02	PPBV		94
63) METHYL METHACRYLATE	5.901	69	85350	9.66	PPBV		91
64) METHYL ISOBUTYL KETONE	6.653	58	70778	10.33	PPBV		91
65) CIS-1,3-DICHLOROPROPENE	6.554	75	125103	9.76	PPBV		96
66) TOLUENE	7.791	91	281017	9.05	PPBV		100
67) 1,3-DICHLOROPROPANE	7.849	76	134390	9.36	PPBV		99
68) TRANS-1,3-DICHLOROPROPENE	7.248	75	104019	9.97	PPBV		96
69) 1,1,2-TRICHLOROETHANE	7.412	83	81115	9.07	PPBV		99
70) 2-HEXANONE	8.357	58	90158	10.26	PPBV		92
71) ETHYL METHACRYLATE	8.499	69	133566	10.40	PPBV		94
72) TETRACHLOROETHENE	9.553	164	102987	8.93	PPBV		98
73) DIBROMOCHLOROMETHANE	8.338	129	162262	9.22	PPBV		100
74) 1,2-DIBROMOETHANE	8.689	107	140213	9.21	PPBV		100
75) OCTANE	9.695	43	166362	10.62	PPBV		92
77) 1,1,1,2-TETRACHLOROETHANE	10.788	131	110353	9.08	PPBV		97
78) CHLOROBENZENE	10.778	112	214021	8.86	PPBV		99
79) ETHYLBENZENE	11.669	91	355287	9.56	PPBV		99
80) M,P-XYLENE	12.100	91	533197	19.17	PPBV		99
81) O-XYLENE	13.045	91	269794	9.66	PPBV		100
82) STYRENE	12.830	104	212471	10.16	PPBV		99
83) NONANE	14.158	43	169283	10.37	PPBV		91
84) BROMOFORM	11.913	173	152824	9.27	PPBV		99
85) 1,1,2,2-TETRACHLOROETHANE	13.052	83	200775	9.81	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.338	75	146012	9.71	PPBV		100
88) ISOPROPYLBENZENE	14.566	120	102373	9.52	PPBV		96
89) BROMOBENZENE	14.441	77	180355	9.53	PPBV		96
90) 2-CHLOROTOLUENE	15.579	126	89016	9.91	PPBV		99
91) N-PROPYLBENZENE	15.910	120	103365	10.19	PPBV		100
92) 4-ETHYLTOLUENE	16.228	105	377972	10.44	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	306852	10.27	PPBV		99
94) ALPHA-METHYLSTYRENE	16.560	118	158479	10.51	PPBV		99
95) TERT-BUTYLBENZENE	16.810	134	75521	9.90	PPBV		97
96) 1,2,4-TRIMETHYLBENZENE	16.820	105	309019	10.59	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57474.D
Acq On : 28 Jan 2022 9:43 am
Operator : thomash
Sample : bs
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:56:00 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

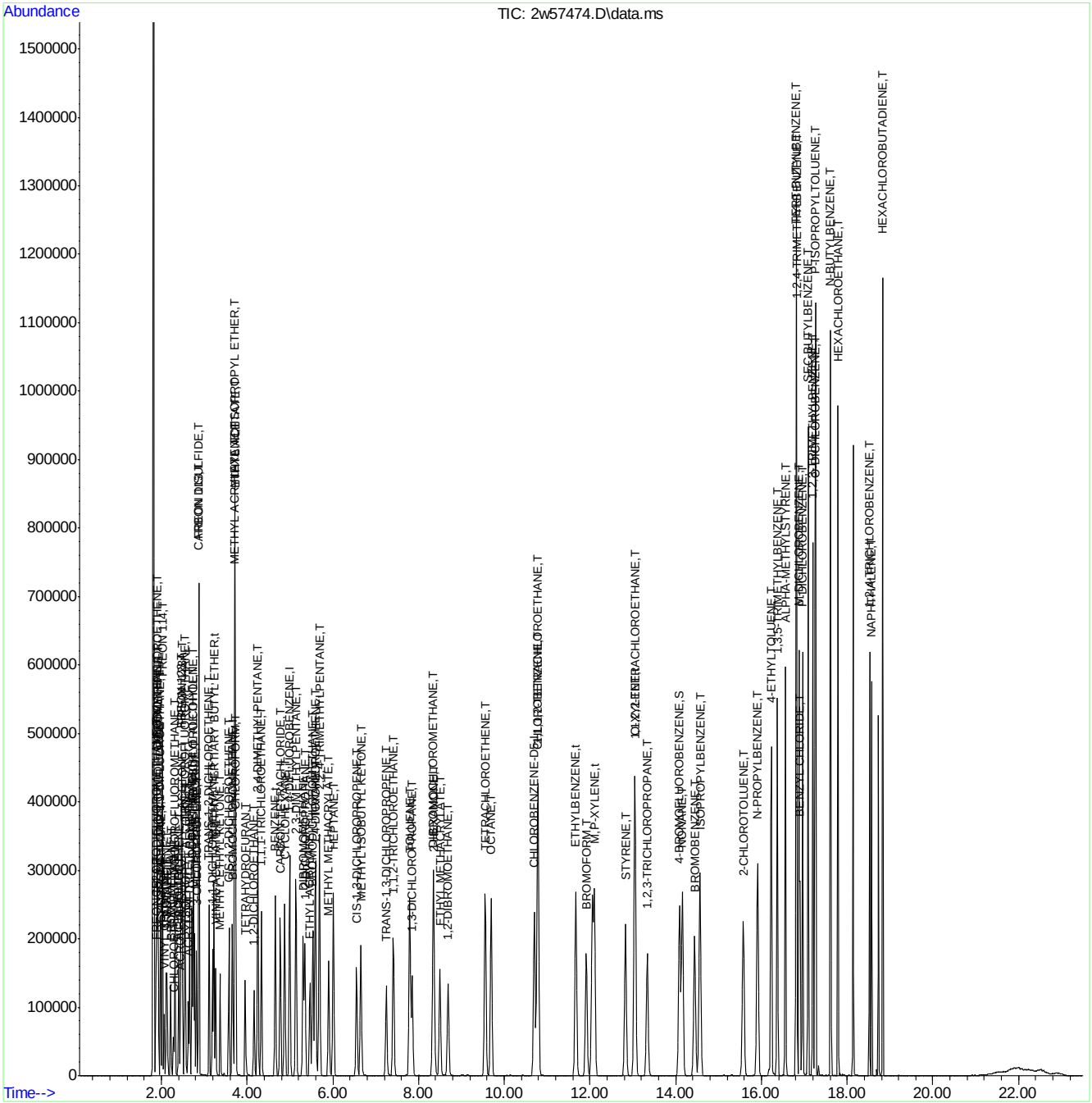
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	169966	10.80	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	196743	9.80	PPBV	100
99)	P-DICHLOROBENZENE	16.958	146	194852	9.98	PPBV	99
100)	O-DICHLOROBENZENE	17.251	146	185750	10.07	PPBV	99
101)	SEC-BUTYLBENZENE	17.087	134	91238	10.09	PPBV	93
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	302733	10.76	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.264	134	98271	10.35	PPBV	96
104)	N-BUTYLBENZENE	17.608	134	89852	10.98	PPBV	91
105)	HEXACHLOROETHANE	17.788	117	117462	10.12	PPBV	97
106)	HEXACHLOROBUTADIENE	18.826	225	119914	10.36	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.521	180	114281	10.92	PPBV	99
108)	NAPHTHALENE	18.569	128	256215	11.23	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57474.D
Acq On : 28 Jan 2022 9:43 am
Operator : thomash
Sample : bs
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:56:00 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57475.D
Acq On : 28 Jan 2022 10:20 am
Operator : thomash
Sample : bsd
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:56:18 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.654	128	48598	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.994	114	265990	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	237291	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	160281	10.11	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.869	65	37600	8.43	PPBV		97
4) CHLORODIFLUOROMETHANE	1.885	67	15594	8.73	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.901	116	98117	8.67	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.924	85	194779	11.14	PPBV	#	97
7) PROPYLENE	1.898	41	43180	8.70	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.975	65	107202	9.27	PPBV		99
9) FREON 114	2.020	85	176699	9.36	PPBV		100
10) CHLOROMETHANE	1.982	52	17468	10.40	PPBV		98
11) VINYL CHLORIDE	2.062	62	68122	9.54	PPBV		100
12) 1,3-BUTADIENE	2.117	54	49693	9.85	PPBV		96
13) N-BUTANE	2.136	43	88489	10.20	PPBV	#	98
14) BROMOMETHANE	2.216	94	65039	9.05	PPBV		100
15) CHLOROETHANE	2.281	64	38007	9.51	PPBV	#	86
16) DICHLOROFLUOROMETHANE	2.313	67	143377	9.41	PPBV		100
17) ACETONITRILE	2.396	41	48563	9.47	PPBV		99
18) ACROLEIN	2.441	56	28466	9.59	PPBV		99
19) FREON 123	2.457	83	153086	9.52	PPBV		99
20) FREON 123A	2.477	117	83868	9.23	PPBV		92
21) TRICHLOROFLUOROMETHANE	2.544	101	144203	9.46	PPBV		100
22) ISOPROPYL ALCOHOL	2.557	45	99034	10.90	PPBV		97
23) ACETONE	2.483	58	30329	9.43	PPBV		95
24) PENTANE	2.654	42	55340	12.15	PPBV		95
25) IODOMETHANE	2.711	142	162549	9.40	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.737	96	63883	10.09	PPBV		93
27) CARBON DISULFIDE	2.872	76	171910	10.71	PPBV	#	93
28) ETHANOL	2.316	45	24666	9.54	PPBV		99
29) BROMOETHENE	2.406	106	62439	9.25	PPBV		100
30) ACRYLONITRILE	2.625	52	40197	10.55	PPBV		99
31) METHYLENE CHLORIDE	2.773	84	59886	8.84	PPBV		92
32) 3-CHLOROPROPENE	2.814	76	32653	11.34	PPBV		83
33) FREON 113	2.872	151	102747	9.51	PPBV		95
34) TRANS-1,2-DICHLOROETHENE	3.110	96	66848	8.72	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.747	59	103887	14.03	PPBV	#	82
36) METHYL TERTIARY BUTYL ...	3.223	73	171201	11.37	PPBV		99
37) TETRAHYDROFURAN	3.949	72	34570	10.30	PPBV		88
38) HEXANE	3.708	57	110170	9.63	PPBV		94
39) VINYL ACETATE	3.264	86	17478	9.03	PPBV		76
40) 1,1-DICHLOROETHANE	3.191	63	114969	9.31	PPBV		99
41) METHYL ETHYL KETONE	3.364	72	35442	9.28	PPBV		84
42) CIS-1,2-DICHLOROETHENE	3.573	96	74260	9.13	PPBV		97
43) DIISOPROPYL ETHER	3.711	59	32607	10.50	PPBV		86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57475.D
Acq On : 28 Jan 2022 10:20 am
Operator : thomash
Sample : bsd
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:56:18 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.715	61	21078	10.34	PPBV		72
45) METHYL ACRYLATE	3.702	55	126755	9.73	PPBV	#	99
46) CHLOROFORM	3.731	83	137832	9.37	PPBV		99
47) 2,4-DIMETHYLPENTANE	4.248	57	131283	9.52	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.332	97	129349	9.60	PPBV		99
49) CARBON TETRACHLORIDE	4.772	117	134666	9.41	PPBV		100
50) 1,2-DICHLOROETHANE	4.158	62	80997	9.76	PPBV		98
51) BENZENE	4.657	78	224109	9.09	PPBV		97
53) CYCLOHEXANE	4.875	84	99627	8.90	PPBV		98
54) 2,3-DIMETHYLPENTANE	5.139	71	52571	9.24	PPBV		96
55) TRICHLOROETHENE	5.592	95	95402	8.81	PPBV		98
56) 1,2-DICHLOROPROPANE	5.348	63	80780	8.98	PPBV		100
57) DIBROMOMETHANE	5.306	174	86672	8.05	PPBV		96
58) ETHYL ACRYLATE	5.467	55	153337	10.25	PPBV		99
59) BROMODICHLOROMETHANE	5.534	83	154585	9.12	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.686	57	354744	9.04	PPBV		100
61) 1,4-DIOXANE	5.596	88	51786	7.90	PPBV		98
62) HEPTANE	6.014	43	118241	10.05	PPBV		94
63) METHYL METHACRYLATE	5.901	69	84255	9.83	PPBV		91
64) METHYL ISOBUTYL KETONE	6.653	58	69396	10.44	PPBV		92
65) CIS-1,3-DICHLOROPROPENE	6.554	75	121531	9.77	PPBV		96
66) TOLUENE	7.795	91	273067	9.06	PPBV		100
67) 1,3-DICHLOROPROPANE	7.853	76	129593	9.30	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	7.248	75	101239	10.00	PPBV		96
69) 1,1,2-TRICHLOROETHANE	7.412	83	78375	9.03	PPBV		100
70) 2-HEXANONE	8.361	58	88130	10.34	PPBV		92
71) ETHYL METHACRYLATE	8.499	69	130172	10.45	PPBV		94
72) TETRACHLOROETHENE	9.560	164	100197	8.96	PPBV		99
73) DIBROMOCHLOROMETHANE	8.338	129	155574	9.11	PPBV		100
74) 1,2-DIBROMOETHANE	8.692	107	134386	9.11	PPBV		100
75) OCTANE	9.695	43	162746	10.72	PPBV		92
77) 1,1,1,2-TETRACHLOROETHANE	10.791	131	107762	9.06	PPBV		98
78) CHLOROBENZENE	10.779	112	207840	8.79	PPBV		99
79) ETHYLBENZENE	11.669	91	343879	9.45	PPBV		99
80) M,P-XYLENE	12.103	91	517645	19.01	PPBV		99
81) O-XYLENE	13.045	91	262912	9.61	PPBV		99
82) STYRENE	12.833	104	206317	10.08	PPBV		99
83) NONANE	14.158	43	165336	10.35	PPBV		91
84) BROMOFORM	11.917	173	148373	9.19	PPBV		99
85) 1,1,2,2-TETRACHLOROETHANE	13.052	83	195265	9.74	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.341	75	142860	9.71	PPBV		100
88) ISOPROPYLBENZENE	14.569	120	99260	9.43	PPBV		95
89) BROMOBENZENE	14.438	77	175983	9.50	PPBV		96
90) 2-CHLOROTOLUENE	15.579	126	86674	9.86	PPBV		100
91) N-PROPYLBENZENE	15.913	120	100824	10.15	PPBV		100
92) 4-ETHYLTOLUENE	16.229	105	367872	10.38	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	297638	10.18	PPBV		100
94) ALPHA-METHYLSTYRENE	16.560	118	154678	10.48	PPBV		99
95) TERT-BUTYLBENZENE	16.811	134	72711	9.74	PPBV		95
96) 1,2,4-TRIMETHYLBENZENE	16.820	105	299852	10.50	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57475.D
Acq On : 28 Jan 2022 10:20 am
Operator : thomash
Sample : bsd
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:56:18 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

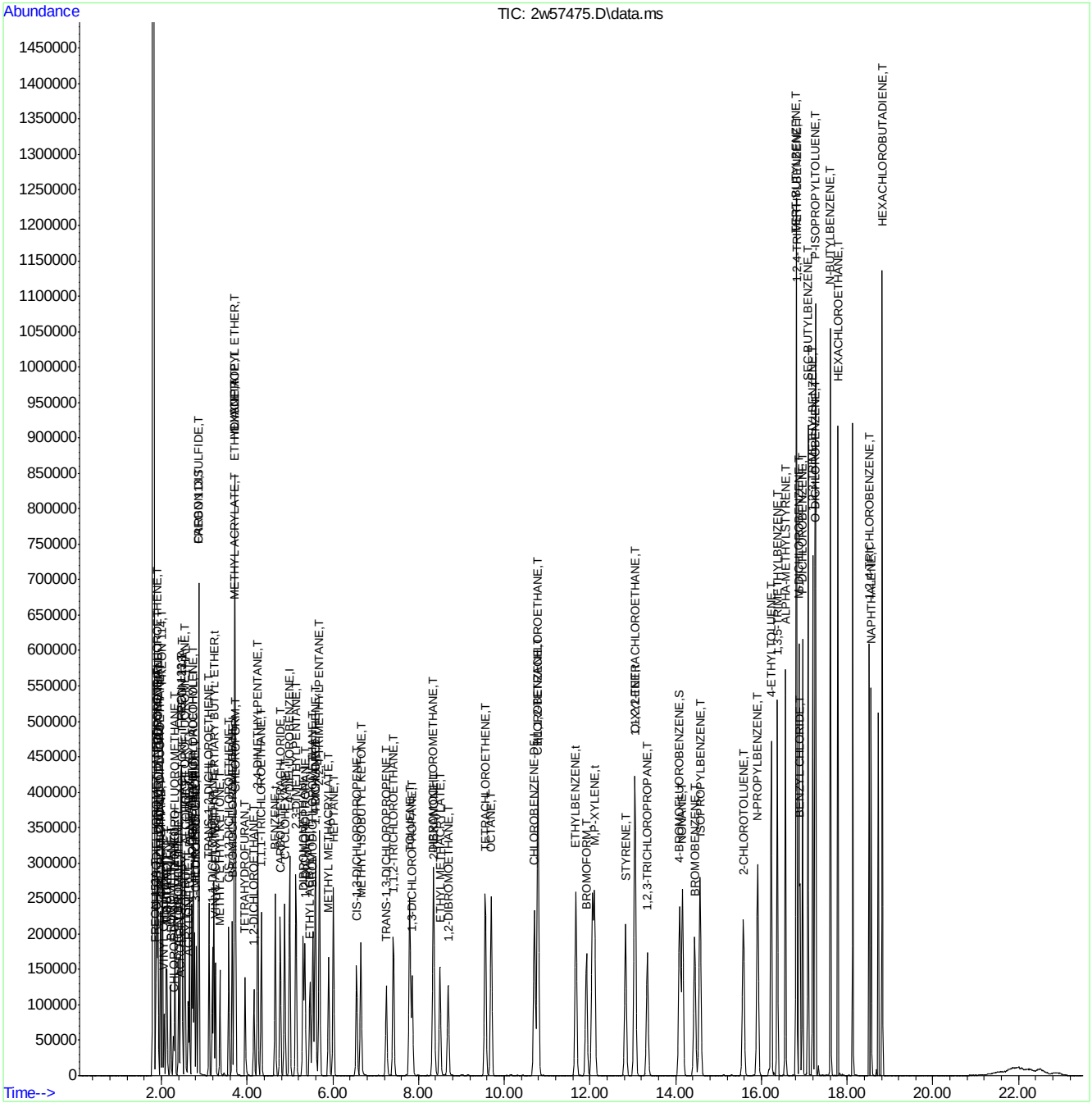
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.901	91	163038	10.58	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	190927	9.71	PPBV	100
99)	P-DICHLOROBENZENE	16.958	146	190215	9.96	PPBV	99
100)	O-DICHLOROBENZENE	17.248	146	178374	9.88	PPBV	99
101)	SEC-BUTYLBENZENE	17.087	134	89602	10.13	PPBV	96
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	292297	10.61	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.261	134	96151	10.34	PPBV	98
104)	N-BUTYLBENZENE	17.605	134	86757	10.83	PPBV	89
105)	HEXACHLOROETHANE	17.785	117	113712	10.01	PPBV	96
106)	HEXACHLOROBUTADIENE	18.820	225	117093	10.33	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.515	180	112536	10.99	PPBV	99
108)	NAPHTHALENE	18.563	128	249342	11.16	PPBV	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57475.D
Acq On : 28 Jan 2022 10:20 am
Operator : thomash
Sample : bsd
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:56:18 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56844.D
Acq On : 22 Dec 2021 8:12 am
Operator : thomash
Sample : bs
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:38:03 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.657	128	54604	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.994	114	281960	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.705	117	244236	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	161883	9.92	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.866	65	47862	9.56	PPBV		100
4) CHLORODIFLUOROMETHANE	1.885	67	19123	9.53	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.898	116	123766	9.73	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.920	85	191215	9.73	PPBV		99
7) PROPYLENE	1.895	41	51879	9.30	PPBV		100
8) 1-CHLORO-1,1-DIFLUOROE...	1.972	65	121992	9.39	PPBV		99
9) FREON 114	2.020	85	205258	9.68	PPBV		98
10) CHLOROMETHANE	1.978	52	18841	9.98	PPBV		99
11) VINYL CHLORIDE	2.062	62	76412	9.52	PPBV		100
12) 1,3-BUTADIENE	2.113	54	53408	9.42	PPBV		98
13) N-BUTANE	2.136	43	87776	9.01	PPBV	#	98
14) BROMOMETHANE	2.216	94	77007	9.54	PPBV		99
15) CHLOROETHANE	2.277	64	43057	9.59	PPBV	#	85
16) DICHLOROFLUOROMETHANE	2.313	67	162957	9.52	PPBV		100
17) ACETONITRILE	2.399	41	44561	7.74	PPBV		99
18) ACROLEIN	2.441	56	29614	8.87	PPBV		100
19) FREON 123	2.461	83	170802	9.45	PPBV		99
20) FREON 123A	2.477	117	100045	9.79	PPBV		95
21) TRICHLOROFLUOROMETHANE	2.544	101	162962	9.51	PPBV		100
22) ISOPROPYL ALCOHOL	2.560	45	86956	8.52	PPBV		100
23) ACETONE	2.483	58	29958	8.29	PPBV		96
24) PENTANE	2.657	42	46079	9.00	PPBV		99
25) IODOMETHANE	2.715	142	193461	9.95	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.740	96	68945	9.69	PPBV		97
27) CARBON DISULFIDE	2.872	76	172027	9.53	PPBV		100
28) ETHANOL	2.316	45	23808	8.20	PPBV		98
29) BROMOETHENE	2.409	106	74475	9.82	PPBV		99
30) ACRYLONITRILE	2.628	52	36133	8.44	PPBV		99
31) METHYLENE CHLORIDE	2.776	84	61530	8.09	PPBV		97
32) 3-CHLOROPROPENE	2.817	76	32685	10.11	PPBV		95
33) FREON 113	2.872	151	122759	10.11	PPBV		97
34) TRANS-1,2-DICHLOROETHENE	3.113	96	85331	9.90	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.747	59	84748	10.18	PPBV		95
36) METHYL TERTIARY BUTYL ...	3.226	73	170179	10.06	PPBV		100
37) TETRAHYDROFURAN	3.952	72	40372	10.70	PPBV		95
38) HEXANE	3.711	57	123504	9.60	PPBV		98
39) VINYL ACETATE	3.268	86	21727	9.99	PPBV		87
40) 1,1-DICHLOROETHANE	3.194	63	133151	9.59	PPBV		99
41) METHYL ETHYL KETONE	3.364	72	40896	9.53	PPBV		93
42) CIS-1,2-DICHLOROETHENE	3.576	96	90623	9.92	PPBV		98
43) DIISOPROPYL ETHER	3.711	59	35933	10.30	PPBV		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56844.D
Acq On : 22 Dec 2021 8:12 am
Operator : thomash
Sample : bs
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:38:03 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.715	61	23678	10.33	PPBV		97
45) METHYL ACRYLATE	3.705	55	136709	9.34	PPBV	#	100
46) CHLOROFORM	3.734	83	159351	9.64	PPBV		99
47) 2,4-DIMETHYLPENTANE	4.248	57	148507	9.59	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.332	97	149542	9.88	PPBV		98
49) CARBON TETRACHLORIDE	4.772	117	159252	9.91	PPBV		100
50) 1,2-DICHLOROETHANE	4.161	62	87275	9.36	PPBV		100
51) BENZENE	4.657	78	266025	9.60	PPBV		99
53) CYCLOHEXANE	4.875	84	119088	10.04	PPBV		97
54) 2,3-DIMETHYLPENTANE	5.139	71	61844	10.26	PPBV		96
55) TRICHLOROETHENE	5.592	95	113338	9.87	PPBV		97
56) 1,2-DICHLOROPROPANE	5.351	63	92107	9.66	PPBV		99
57) DIBROMOMETHANE	5.309	174	111722	9.79	PPBV		97
58) ETHYL ACRYLATE	5.467	55	165330	10.43	PPBV		99
59) BROMODICHLOROMETHANE	5.534	83	175572	9.77	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.689	57	398490	9.58	PPBV		100
61) 1,4-DIOXANE	5.599	88	60324	8.69	PPBV		97
62) HEPTANE	6.013	43	121198	9.72	PPBV		97
63) METHYL METHACRYLATE	5.901	69	95650	10.53	PPBV		97
64) METHYL ISOBUTYL KETONE	6.657	58	73529	10.44	PPBV		98
65) CIS-1,3-DICHLOROPROPENE	6.554	75	138733	10.52	PPBV		99
66) TOLUENE	7.795	91	319581	10.00	PPBV		100
67) 1,3-DICHLOROPROPANE	7.853	76	148346	10.04	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	7.248	75	112289	10.47	PPBV		99
69) 1,1,2-TRICHLOROETHANE	7.412	83	90894	9.88	PPBV		99
70) 2-HEXANONE	8.361	58	88420	9.79	PPBV		97
71) ETHYL METHACRYLATE	8.499	69	148866	11.27	PPBV		98
72) TETRACHLOROETHENE	9.560	164	122286	10.32	PPBV		99
73) DIBROMOCHLOROMETHANE	8.341	129	184822	10.21	PPBV		99
74) 1,2-DIBROMOETHANE	8.689	107	158977	10.16	PPBV		99
75) OCTANE	9.698	43	159742	9.92	PPBV		97
77) 1,1,1,2-TETRACHLOROETHANE	10.791	131	126969	10.37	PPBV		98
78) CHLOROBENZENE	10.779	112	244547	10.05	PPBV		98
79) ETHYLBENZENE	11.672	91	387785	10.35	PPBV		99
80) M,P-XYLENE	12.103	91	585657	20.90	PPBV		99
81) O-XYLENE	13.042	91	293017	10.41	PPBV		99
82) STYRENE	12.827	104	232454	11.03	PPBV		99
83) NONANE	14.161	43	155591	9.46	PPBV		97
84) BROMOFORM	11.917	173	176500	10.62	PPBV		100
85) 1,1,2,2-TETRACHLOROETHANE	13.055	83	206180	9.99	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.341	75	152061	10.04	PPBV	#	100
88) ISOPROPYLBENZENE	14.566	120	115350	10.65	PPBV		98
89) BROMOBENZENE	14.441	77	187666	9.85	PPBV		96
90) 2-CHLOROTOLUENE	15.582	126	98545	10.89	PPBV		100
91) N-PROPYLBENZENE	15.913	120	114763	11.22	PPBV		99
92) 4-ETHYLTOLUENE	16.228	105	396579	10.87	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	322853	10.73	PPBV		99
94) ALPHA-METHYLSTYRENE	16.560	118	169343	11.15	PPBV		100
95) TERT-BUTYLBENZENE	16.810	134	81876	10.66	PPBV		99
96) 1,2,4-TRIMETHYLBENZENE	16.820	105	314501	10.70	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56844.D
Acq On : 22 Dec 2021 8:12 am
Operator : thomash
Sample : bs
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:38:03 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

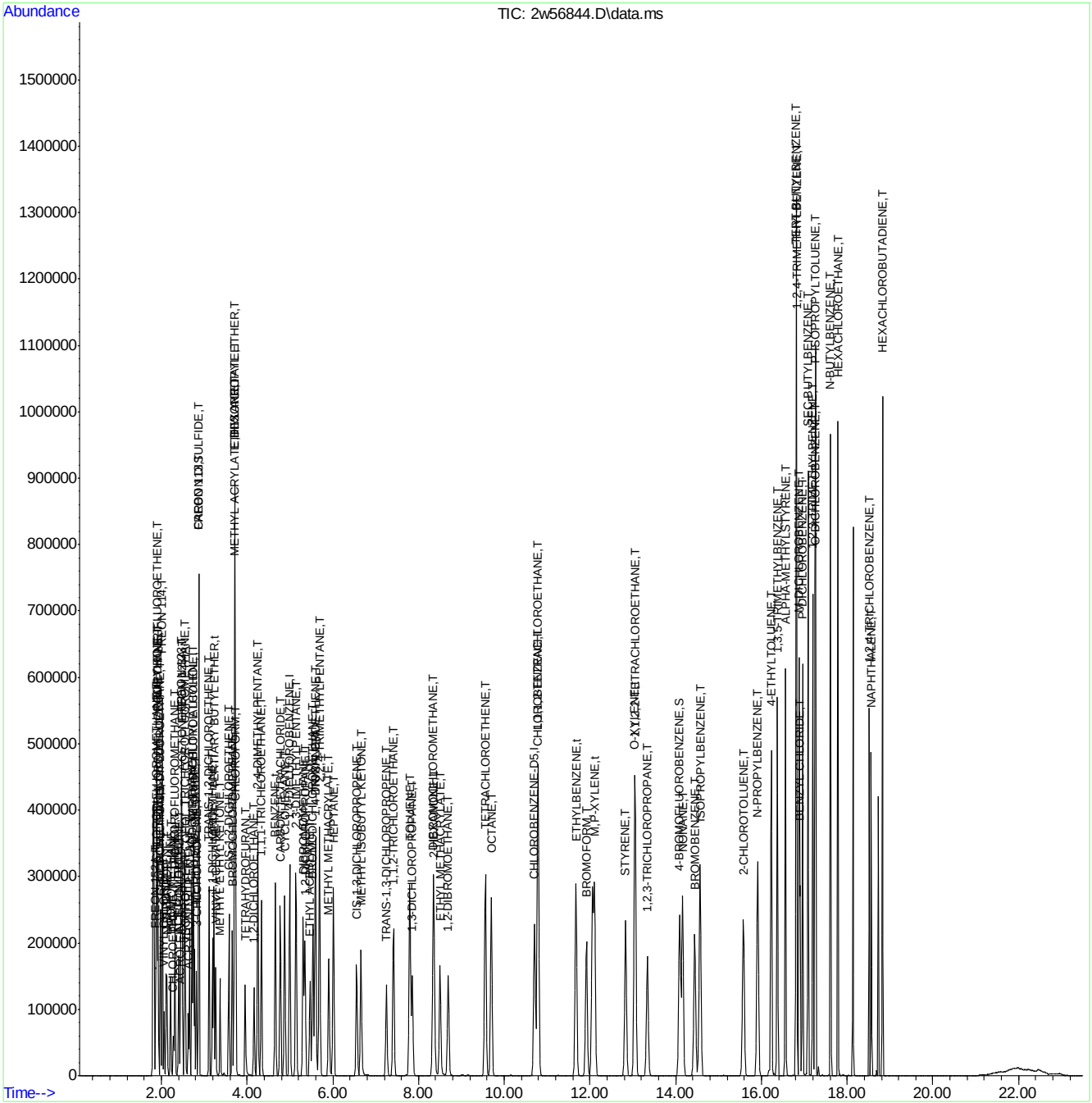
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	168158	10.61	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	211439	10.45	PPBV	100
99)	P-DICHLOROBENZENE	16.958	146	208203	10.59	PPBV	99
100)	O-DICHLOROBENZENE	17.248	146	191105	10.29	PPBV	99
101)	SEC-BUTYLBENZENE	17.087	134	98509	10.82	PPBV	97
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	303137	10.69	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.264	134	104175	10.89	PPBV	97
104)	N-BUTYLBENZENE	17.605	134	90965	11.03	PPBV	97
105)	HEXACHLOROETHANE	17.785	117	120261	10.28	PPBV	98
106)	HEXACHLOROBUTADIENE	18.823	225	110513	9.48	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.515	180	103529	9.82	PPBV	99
108)	NAPHTHALENE	18.563	128	220594	9.59	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56844.D
Acq On : 22 Dec 2021 8:12 am
Operator : thomash
Sample : bs
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:38:03 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56845.D
Acq On : 22 Dec 2021 8:47 am
Operator : thomash
Sample : bsd
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:38:19 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.657	128	55307	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.994	114	286749	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.705	117	248280	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.087	95	164475	9.91	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.863	65	47343	9.33	PPBV		98
4) CHLORODIFLUOROMETHANE	1.879	67	18695	9.19	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.895	116	121817	9.46	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.914	85	171573	8.62	PPBV		99
7) PROPYLENE	1.891	41	50460	8.93	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.965	65	119273	9.06	PPBV		100
9) FREON 114	2.014	85	200621	9.34	PPBV		98
10) CHLOROMETHANE	1.975	52	17995	9.41	PPBV		99
11) VINYL CHLORIDE	2.055	62	74229	9.13	PPBV		100
12) 1,3-BUTADIENE	2.107	54	52152	9.08	PPBV		99
13) N-BUTANE	2.129	43	85525	8.67	PPBV		99
14) BROMOMETHANE	2.210	94	76281	9.33	PPBV		99
15) CHLOROETHANE	2.274	64	42189	9.27	PPBV	#	85
16) DICHLOROFLUOROMETHANE	2.306	67	159648	9.21	PPBV		99
17) ACETONITRILE	2.393	41	44212	7.58	PPBV		99
18) ACROLEIN	2.438	56	29161	8.63	PPBV		99
19) FREON 123	2.457	83	169307	9.25	PPBV		100
20) FREON 123A	2.473	117	98138	9.49	PPBV		95
21) TRICHLOROFLUOROMETHANE	2.544	101	160361	9.24	PPBV		100
22) ISOPROPYL ALCOHOL	2.557	45	84400	8.16	PPBV		99
23) ACETONE	2.483	58	29513	8.07	PPBV		96
24) PENTANE	2.653	42	44681	8.62	PPBV		99
25) IODOMETHANE	2.711	142	191009	9.70	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.740	96	67355	9.35	PPBV		97
27) CARBON DISULFIDE	2.872	76	167163	9.15	PPBV		99
28) ETHANOL	2.309	45	23083	7.85	PPBV		98
29) BROMOETHENE	2.403	106	73932	9.63	PPBV		100
30) ACRYLONITRILE	2.625	52	35130	8.10	PPBV		99
31) METHYLENE CHLORIDE	2.776	84	60318	7.83	PPBV		97
32) 3-CHLOROPROPENE	2.817	76	32095	9.80	PPBV		95
33) FREON 113	2.872	151	120566	9.81	PPBV		97
34) TRANS-1,2-DICHLOROETHENE	3.113	96	83633	9.58	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.747	59	83133	9.86	PPBV		93
36) METHYL TERTIARY BUTYL ...	3.226	73	167522	9.78	PPBV		100
37) TETRAHYDROFURAN	3.952	72	39207	10.26	PPBV		96
38) HEXANE	3.708	57	119493	9.17	PPBV		99
39) VINYL ACETATE	3.268	86	21522	9.77	PPBV		86
40) 1,1-DICHLOROETHANE	3.190	63	130855	9.31	PPBV		99
41) METHYL ETHYL KETONE	3.367	72	40475	9.31	PPBV		91
42) CIS-1,2-DICHLOROETHENE	3.576	96	88860	9.60	PPBV		98
43) DIISOPROPYL ETHER	3.711	59	35643	10.09	PPBV		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56845.D
Acq On : 22 Dec 2021 8:47 am
Operator : thomash
Sample : bsd
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:38:19 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	ETHYL ACETATE	3.718	61	23406	10.08	PPBV		95
45)	METHYL ACRYLATE	3.705	55	135377	9.13	PPBV	#	100
46)	CHLOROFORM	3.731	83	156793	9.37	PPBV		99
47)	2,4-DIMETHYLPENTANE	4.248	57	144920	9.24	PPBV		99
48)	1,1,1-TRICHLOROETHANE	4.332	97	146652	9.57	PPBV		98
49)	CARBON TETRACHLORIDE	4.776	117	157711	9.69	PPBV		99
50)	1,2-DICHLOROETHANE	4.161	62	86585	9.17	PPBV		99
51)	BENZENE	4.657	78	259322	9.24	PPBV		99
53)	CYCLOHEXANE	4.878	84	116384	9.65	PPBV		97
54)	2,3-DIMETHYLPENTANE	5.142	71	60280	9.83	PPBV		97
55)	TRICHLOROETHENE	5.592	95	111887	9.58	PPBV		97
56)	1,2-DICHLOROPROPANE	5.351	63	91060	9.39	PPBV		99
57)	DIBROMOMETHANE	5.306	174	110171	9.50	PPBV		96
58)	ETHYL ACRYLATE	5.467	55	162795	10.10	PPBV		99
59)	BROMODICHLOROMETHANE	5.534	83	172098	9.41	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.689	57	388317	9.18	PPBV		100
61)	1,4-DIOXANE	5.595	88	59184	8.38	PPBV		96
62)	HEPTANE	6.013	43	118067	9.31	PPBV		97
63)	METHYL METHACRYLATE	5.904	69	93635	10.14	PPBV		97
64)	METHYL ISOBUTYL KETONE	6.657	58	72692	10.15	PPBV		96
65)	CIS-1,3-DICHLOROPROPENE	6.557	75	136289	10.16	PPBV		99
66)	TOLUENE	7.798	91	314938	9.69	PPBV		100
67)	1,3-DICHLOROPROPANE	7.853	76	146160	9.73	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	7.248	75	111118	10.18	PPBV		98
69)	1,1,2-TRICHLOROETHANE	7.415	83	89233	9.54	PPBV		99
70)	2-HEXANONE	8.361	58	86759	9.44	PPBV		96
71)	ETHYL METHACRYLATE	8.502	69	146533	10.91	PPBV		98
72)	TETRACHLOROETHENE	9.557	164	122033	10.13	PPBV		99
73)	DIBROMOCHLOROMETHANE	8.341	129	181942	9.88	PPBV		99
74)	1,2-DIBROMOETHANE	8.692	107	156013	9.81	PPBV		100
75)	OCTANE	9.698	43	156626	9.57	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	10.791	131	125620	10.10	PPBV		98
78)	CHLOROBENZENE	10.785	112	242051	9.78	PPBV		98
79)	ETHYLBENZENE	11.676	91	383067	10.06	PPBV		99
80)	M,P-XYLENE	12.103	91	578706	20.31	PPBV		99
81)	O-XYLENE	13.049	91	287723	10.06	PPBV		99
82)	STYRENE	12.833	104	230187	10.75	PPBV		99
83)	NONANE	14.161	43	154731	9.26	PPBV		98
84)	BROMOFORM	11.917	173	174454	10.33	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	13.055	83	202817	9.67	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.338	75	150934	9.80	PPBV	#	100
88)	ISOPROPYLBENZENE	14.569	120	115165	10.46	PPBV		96
89)	BROMOBENZENE	14.444	77	185088	9.55	PPBV		95
90)	2-CHLOROTOLUENE	15.579	126	98758	10.74	PPBV		98
91)	N-PROPYLBENZENE	15.917	120	114698	11.04	PPBV		99
92)	4-ETHYLTOLUENE	16.228	105	397597	10.72	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.370	105	318769	10.42	PPBV		98
94)	ALPHA-METHYLSTYRENE	16.560	118	166467	10.78	PPBV		100
95)	TERT-BUTYLBENZENE	16.810	134	81654	10.45	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.820	105	314817	10.53	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56845.D
Acq On : 22 Dec 2021 8:47 am
Operator : thomash
Sample : bsd
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:38:19 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

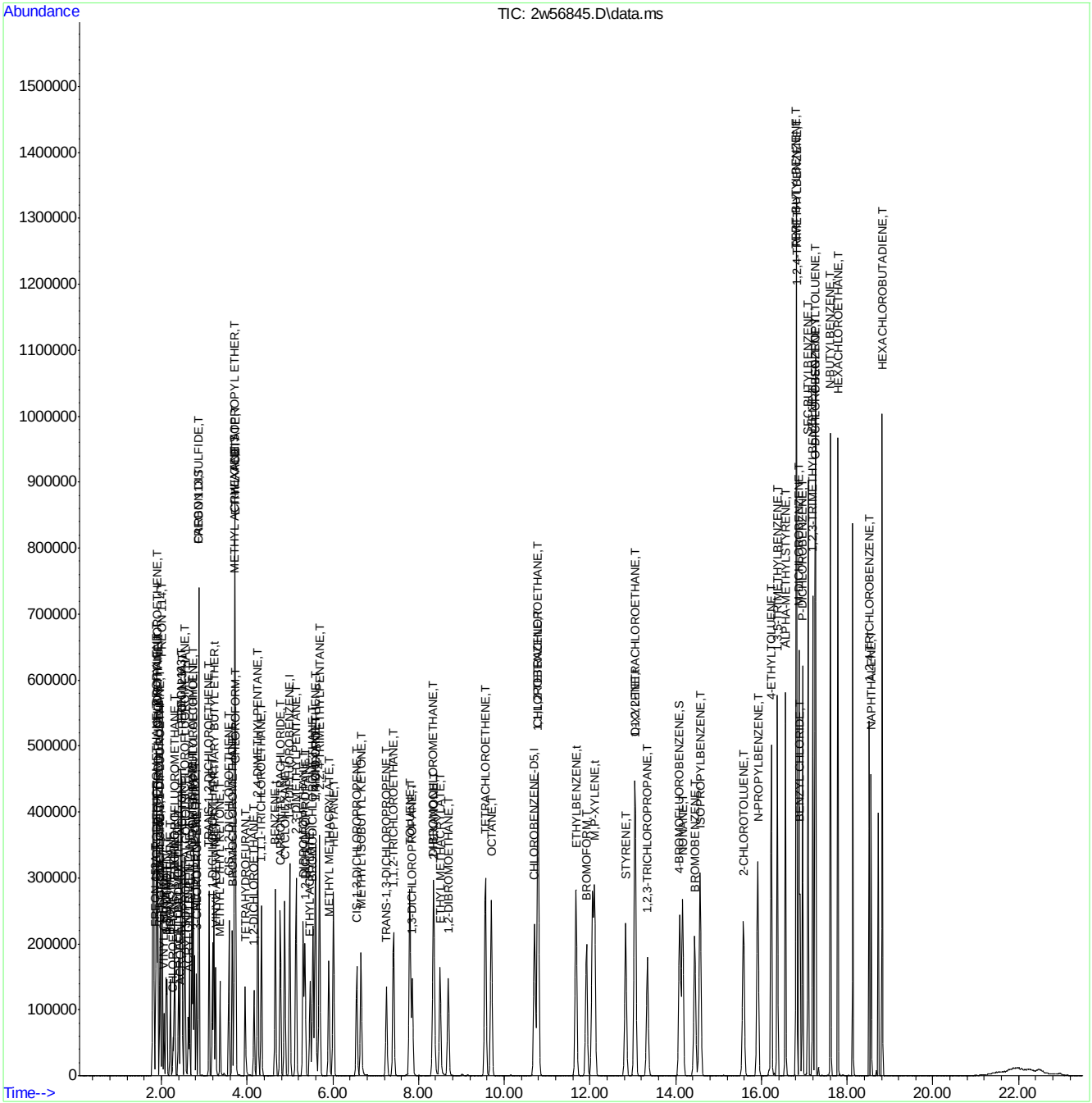
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	166050	10.30	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	208353	10.13	PPBV	100
99)	P-DICHLOROBENZENE	16.958	146	205121	10.26	PPBV	100
100)	O-DICHLOROBENZENE	17.251	146	189745	10.05	PPBV	100
101)	SEC-BUTYLBENZENE	17.087	134	97595	10.54	PPBV	97
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	298802	10.37	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.264	134	102313	10.52	PPBV	99
104)	N-BUTYLBENZENE	17.605	134	90826	10.83	PPBV	95
105)	HEXACHLOROETHANE	17.785	117	118218	9.95	PPBV	98
106)	HEXACHLOROBUTADIENE	18.820	225	109996	9.28	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.515	180	102698	9.58	PPBV	100
108)	NAPHTHALENE	18.563	128	215174	9.20	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56845.D
Acq On : 22 Dec 2021 8:47 am
Operator : thomash
Sample : bsd
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:38:19 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56904.D
Acq On : 27 Dec 2021 9:06 am
Operator : thomash
Sample : bs
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 15:06:40 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.647	128	58235	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.988	114	303911	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.698	117	261524	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.087	95	172457	9.87	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.866	65	51159	9.58	PPBV		99
4) CHLORODIFLUOROMETHANE	1.882	67	20076	9.38	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.898	116	132698	9.78	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.920	85	247670	11.82	PPBV	#	98
7) PROPYLENE	1.895	41	54049	9.09	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.969	65	130720	9.43	PPBV		99
9) FREON 114	2.017	85	218690	9.67	PPBV		99
10) CHLOROMETHANE	1.978	52	20088	9.98	PPBV		98
11) VINYL CHLORIDE	2.059	62	81477	9.52	PPBV		100
12) 1,3-BUTADIENE	2.110	54	57452	9.50	PPBV		99
13) N-BUTANE	2.129	43	95072	9.15	PPBV		99
14) BROMOMETHANE	2.210	94	82269	9.56	PPBV		100
15) CHLOROETHANE	2.274	64	45915	9.59	PPBV	#	93
16) DICHLOROFLUOROMETHANE	2.306	67	174923	9.58	PPBV		100
17) ACETONITRILE	2.393	41	49393	8.04	PPBV		100
18) ACROLEIN	2.438	56	31554	8.87	PPBV		100
19) FREON 123	2.454	83	185160	9.60	PPBV		100
20) FREON 123A	2.470	117	105677	9.70	PPBV		98
21) TRICHLOROFLUOROMETHANE	2.538	101	175354	9.60	PPBV		100
22) ISOPROPYL ALCOHOL	2.551	45	97004	8.91	PPBV		100
23) ACETONE	2.477	58	33345	8.66	PPBV		95
24) PENTANE	2.650	42	51910	9.51	PPBV		100
25) IODOMETHANE	2.705	142	203303	9.81	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.734	96	74566	9.83	PPBV		99
27) CARBON DISULFIDE	2.866	76	189057	9.83	PPBV		100
28) ETHANOL	2.313	45	25931	8.37	PPBV		99
29) BROMOETHENE	2.403	106	78910	9.76	PPBV		100
30) ACRYLONITRILE	2.621	52	40243	8.81	PPBV		98
31) METHYLENE CHLORIDE	2.769	84	67662	8.34	PPBV		99
32) 3-CHLOROPROPENE	2.811	76	35701	10.35	PPBV		99
33) FREON 113	2.866	151	128220	9.91	PPBV		100
34) TRANS-1,2-DICHLOROETHENE	3.107	96	88866	9.67	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.740	59	94451	10.64	PPBV		95
36) METHYL TERTIARY BUTYL ...	3.219	73	183865	10.19	PPBV		100
37) TETRAHYDROFURAN	3.946	72	42424	10.55	PPBV		98
38) HEXANE	3.702	57	132527	9.66	PPBV		99
39) VINYL ACETATE	3.258	86	23289	10.04	PPBV		91
40) 1,1-DICHLOROETHANE	3.184	63	142162	9.60	PPBV		99
41) METHYL ETHYL KETONE	3.358	72	43493	9.50	PPBV		96
42) CIS-1,2-DICHLOROETHENE	3.570	96	94563	9.71	PPBV		99
43) DIISOPROPYL ETHER	3.705	59	38379	10.31	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56904.D
Acq On : 27 Dec 2021 9:06 am
Operator : thomash
Sample : bs
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 15:06:40 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.711	61	25460	10.42	PPBV		99
45) METHYL ACRYLATE	3.699	55	146250	9.37	PPBV	#	100
46) CHLOROFORM	3.724	83	169676	9.63	PPBV		99
47) 2,4-DIMETHYLPENTANE	4.242	57	159287	9.64	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.326	97	159366	9.88	PPBV		98
49) CARBON TETRACHLORIDE	4.769	117	170818	9.97	PPBV		99
50) 1,2-DICHLOROETHANE	4.155	62	93203	9.37	PPBV		100
51) BENZENE	4.650	78	280463	9.49	PPBV		99
53) CYCLOHEXANE	4.869	84	125566	9.82	PPBV		98
54) 2,3-DIMETHYLPENTANE	5.136	71	65720	10.11	PPBV		97
55) TRICHLOROETHENE	5.586	95	120371	9.72	PPBV		99
56) 1,2-DICHLOROPROPANE	5.345	63	98372	9.57	PPBV		100
57) DIBROMOMETHANE	5.300	174	114327	9.30	PPBV		98
58) ETHYL ACRYLATE	5.461	55	175059	10.24	PPBV		100
59) BROMODICHLOROMETHANE	5.528	83	185809	9.59	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.682	57	424488	9.47	PPBV		99
61) 1,4-DIOXANE	5.592	88	63350	8.46	PPBV		98
62) HEPTANE	6.010	43	130495	9.71	PPBV		98
63) METHYL METHACRYLATE	5.898	69	99937	10.21	PPBV		100
64) METHYL ISOBUTYL KETONE	6.650	58	78069	10.28	PPBV		98
65) CIS-1,3-DICHLOROPROPENE	6.551	75	145375	10.23	PPBV		99
66) TOLUENE	7.788	91	335284	9.74	PPBV		100
67) 1,3-DICHLOROPROPANE	7.849	76	156002	9.80	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	7.245	75	120031	10.38	PPBV		98
69) 1,1,2-TRICHLOROETHANE	7.406	83	95726	9.66	PPBV		99
70) 2-HEXANONE	8.354	58	93461	9.60	PPBV		98
71) ETHYL METHACRYLATE	8.493	69	156416	10.99	PPBV		99
72) TETRACHLOROETHENE	9.554	164	128563	10.06	PPBV		99
73) DIBROMOCHLOROMETHANE	8.335	129	193701	9.93	PPBV		99
74) 1,2-DIBROMOETHANE	8.685	107	165868	9.84	PPBV		100
75) OCTANE	9.692	43	172646	9.95	PPBV		99
77) 1,1,1,2-TETRACHLOROETHANE	10.788	131	133941	10.22	PPBV		99
78) CHLOROBENZENE	10.775	112	254570	9.77	PPBV		99
79) ETHYLBENZENE	11.669	91	405324	10.11	PPBV		100
80) M,P-XYLENE	12.100	91	613789	20.45	PPBV		100
81) O-XYLENE	13.042	91	306826	10.18	PPBV		98
82) STYRENE	12.830	104	240050	10.64	PPBV		99
83) NONANE	14.158	43	168482	9.57	PPBV		99
84) BROMOFORM	11.914	173	183120	10.29	PPBV		100
85) 1,1,2,2-TETRACHLOROETHANE	13.049	83	217279	9.84	PPBV		99
86) 1,2,3-TRICHLOROPROPANE	13.335	75	159600	9.84	PPBV	#	100
88) ISOPROPYLBENZENE	14.566	120	118828	10.24	PPBV		98
89) BROMOBENZENE	14.441	77	196310	9.62	PPBV		97
90) 2-CHLOROTOLUENE	15.579	126	101803	10.51	PPBV		99
91) N-PROPYLBENZENE	15.910	120	118584	10.83	PPBV		100
92) 4-ETHYLTOLUENE	16.229	105	413534	10.58	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	335247	10.40	PPBV		99
94) ALPHA-METHYLSTYRENE	16.560	118	173219	10.65	PPBV		100
95) TERT-BUTYLBENZENE	16.811	134	84768	10.30	PPBV		99
96) 1,2,4-TRIMETHYLBENZENE	16.817	105	330568	10.50	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56904.D
Acq On : 27 Dec 2021 9:06 am
Operator : thomash
Sample : bs
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 15:06:40 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

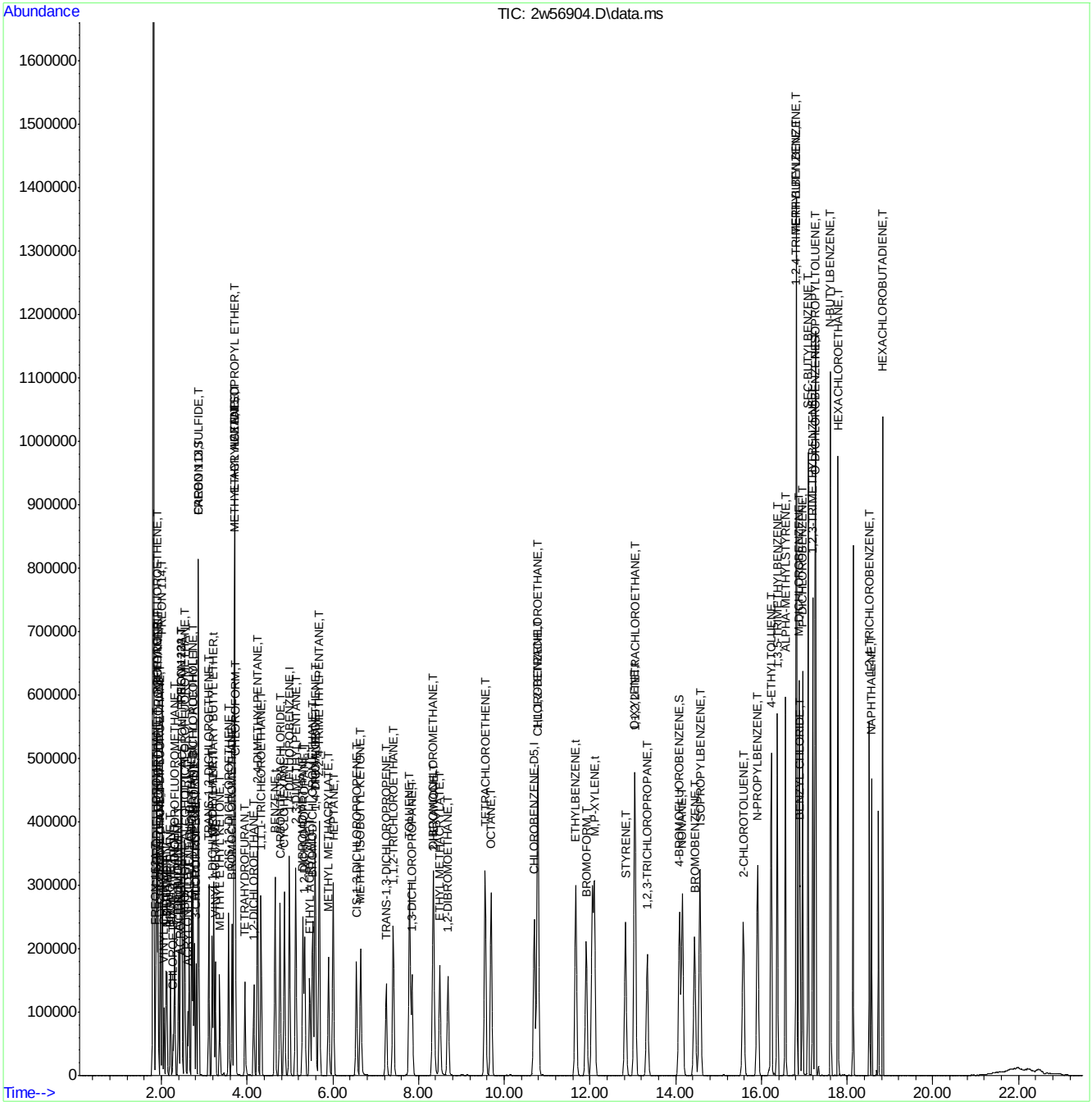
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.901	91	179307	10.56	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	216622	10.00	PPBV	100
99)	P-DICHLOROBENZENE	16.958	146	212894	10.11	PPBV	100
100)	O-DICHLOROBENZENE	17.251	146	197943	9.95	PPBV	100
101)	SEC-BUTYLBENZENE	17.087	134	101843	10.44	PPBV	98
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	315522	10.39	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.264	134	108405	10.58	PPBV	99
104)	N-BUTYLBENZENE	17.608	134	94350	10.68	PPBV	97
105)	HEXACHLOROETHANE	17.785	117	125274	10.01	PPBV	99
106)	HEXACHLOROBUTADIENE	18.827	225	112645	9.02	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.518	180	103235	9.15	PPBV	100
108)	NAPHTHALENE	18.566	128	218475	8.87	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56904.D
Acq On : 27 Dec 2021 9:06 am
Operator : thomash
Sample : bs
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 15:06:40 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56905.D
Acq On : 27 Dec 2021 9:42 am
Operator : thomash
Sample : bsd
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 15:07:02 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.650	128	57439	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.991	114	297379	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.705	117	259857	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.093	95	170961	9.85	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.862	65	49027	9.30	PPBV		97
4) CHLORODIFLUOROMETHANE	1.879	67	19279	9.13	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.895	116	126690	9.47	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.917	85	235486	11.39	PPBV	#	98
7) PROPYLENE	1.891	41	52217	8.90	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.965	65	124939	9.14	PPBV		99
9) FREON 114	2.014	85	211385	9.47	PPBV		99
10) CHLOROMETHANE	1.975	52	19530	9.84	PPBV		98
11) VINYL CHLORIDE	2.055	62	78643	9.31	PPBV		100
12) 1,3-BUTADIENE	2.107	54	55378	9.29	PPBV		99
13) N-BUTANE	2.126	43	91688	8.94	PPBV	#	98
14) BROMOMETHANE	2.206	94	79275	9.34	PPBV		100
15) CHLOROETHANE	2.271	64	44580	9.44	PPBV	#	92
16) DICHLOROFLUOROMETHANE	2.303	67	167249	9.29	PPBV		100
17) ACETONITRILE	2.390	41	48304	7.97	PPBV		99
18) ACROLEIN	2.435	56	30858	8.79	PPBV		97
19) FREON 123	2.451	83	178677	9.40	PPBV		100
20) FREON 123A	2.470	117	102003	9.49	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.538	101	169099	9.38	PPBV		100
22) ISOPROPYL ALCOHOL	2.554	45	93113	8.67	PPBV		99
23) ACETONE	2.477	58	32013	8.43	PPBV		96
24) PENTANE	2.650	42	50038	9.29	PPBV		98
25) IODOMETHANE	2.708	142	196355	9.60	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.734	96	71927	9.62	PPBV		99
27) CARBON DISULFIDE	2.869	76	180995	9.54	PPBV		99
28) ETHANOL	2.306	45	24473	8.01	PPBV		99
29) BROMOETHENE	2.399	106	76560	9.60	PPBV		100
30) ACRYLONITRILE	2.621	52	38589	8.57	PPBV		99
31) METHYLENE CHLORIDE	2.769	84	65748	8.21	PPBV		99
32) 3-CHLOROPROPENE	2.811	76	34609	10.17	PPBV		98
33) FREON 113	2.869	151	125157	9.80	PPBV		98
34) TRANS-1,2-DICHLOROETHENE	3.107	96	86130	9.50	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.740	59	88374	10.10	PPBV		95
36) METHYL TERTIARY BUTYL ...	3.219	73	176457	9.92	PPBV		100
37) TETRAHYDROFURAN	3.946	72	40922	10.31	PPBV		97
38) HEXANE	3.705	57	127609	9.43	PPBV		98
39) VINYL ACETATE	3.261	86	22396	9.79	PPBV		90
40) 1,1-DICHLOROETHANE	3.187	63	136305	9.33	PPBV		99
41) METHYL ETHYL KETONE	3.361	72	41632	9.22	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.570	96	91868	9.56	PPBV		99
43) DIISOPROPYL ETHER	3.708	59	37174	10.13	PPBV		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56905.D
Acq On : 27 Dec 2021 9:42 am
Operator : thomash
Sample : bsd
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 15:07:02 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	ETHYL ACETATE	3.711	61	24600	10.21	PPBV		96
45)	METHYL ACRYLATE	3.698	55	140630	9.14	PPBV	#	100
46)	CHLOROFORM	3.727	83	162912	9.37	PPBV		99
47)	2,4-DIMETHYLPENTANE	4.245	57	152101	9.34	PPBV		99
48)	1,1,1-TRICHLOROETHANE	4.329	97	152689	9.59	PPBV		98
49)	CARBON TETRACHLORIDE	4.769	117	163758	9.69	PPBV		99
50)	1,2-DICHLOROETHANE	4.158	62	89603	9.14	PPBV		99
51)	BENZENE	4.653	78	269553	9.25	PPBV		99
53)	CYCLOHEXANE	4.872	84	121813	9.74	PPBV		97
54)	2,3-DIMETHYLPENTANE	5.136	71	62596	9.85	PPBV		98
55)	TRICHLOROETHENE	5.586	95	116181	9.59	PPBV		98
56)	1,2-DICHLOROPROPANE	5.348	63	94957	9.44	PPBV		100
57)	DIBROMOMETHANE	5.306	174	112329	9.34	PPBV		97
58)	ETHYL ACRYLATE	5.464	55	168921	10.10	PPBV		100
59)	BROMODICHLOROMETHANE	5.531	83	179637	9.48	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.685	57	407554	9.29	PPBV		100
61)	1,4-DIOXANE	5.595	88	60589	8.27	PPBV		98
62)	HEPTANE	6.010	43	124716	9.48	PPBV		98
63)	METHYL METHACRYLATE	5.901	69	96900	10.12	PPBV		98
64)	METHYL ISOBUTYL KETONE	6.650	58	75601	10.18	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	6.554	75	140118	10.08	PPBV		99
66)	TOLUENE	7.795	91	323806	9.61	PPBV		100
67)	1,3-DICHLOROPROPANE	7.849	76	151318	9.71	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	7.248	75	114875	10.15	PPBV		99
69)	1,1,2-TRICHLOROETHANE	7.412	83	92214	9.51	PPBV		99
70)	2-HEXANONE	8.357	58	89872	9.43	PPBV		98
71)	ETHYL METHACRYLATE	8.499	69	150868	10.83	PPBV		99
72)	TETRACHLOROETHENE	9.560	164	126710	10.14	PPBV		99
73)	DIBROMOCHLOROMETHANE	8.338	129	187476	9.82	PPBV		99
74)	1,2-DIBROMOETHANE	8.689	107	160611	9.73	PPBV		100
75)	OCTANE	9.698	43	166101	9.78	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.791	131	129380	9.93	PPBV		99
78)	CHLOROBENZENE	10.782	112	247609	9.56	PPBV		98
79)	ETHYLBENZENE	11.669	91	393722	9.88	PPBV		99
80)	M,P-XYLENE	12.103	91	595923	19.98	PPBV		100
81)	O-XYLENE	13.045	91	297422	9.93	PPBV		100
82)	STYRENE	12.830	104	233771	10.43	PPBV		99
83)	NONANE	14.158	43	161613	9.24	PPBV		98
84)	BROMOFORM	11.917	173	179207	10.14	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	13.052	83	209827	9.56	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.338	75	154067	9.56	PPBV	#	100
88)	ISOPROPYLBENZENE	14.566	120	116823	10.13	PPBV		98
89)	BROMOBENZENE	14.444	77	190934	9.42	PPBV		97
90)	2-CHLOROTOLUENE	15.582	126	99425	10.33	PPBV		99
91)	N-PROPYLBENZENE	15.913	120	117124	10.77	PPBV		99
92)	4-ETHYLTOLUENE	16.228	105	405350	10.44	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.373	105	328037	10.25	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.560	118	169151	10.46	PPBV		100
95)	TERT-BUTYLBENZENE	16.814	134	83705	10.24	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.820	105	324032	10.36	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56905.D
Acq On : 27 Dec 2021 9:42 am
Operator : thomash
Sample : bsd
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 15:07:02 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

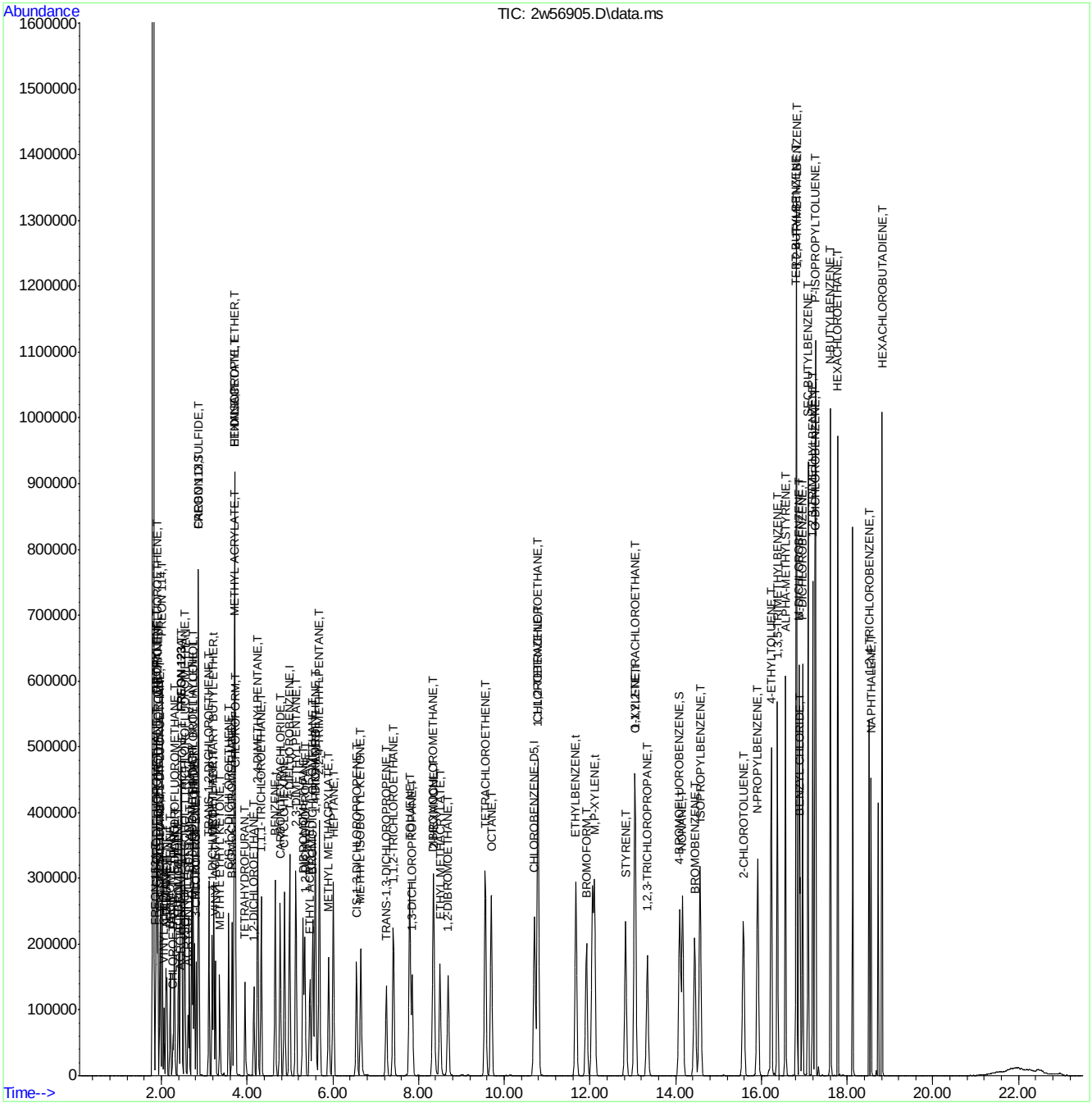
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	171878	10.19	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	210173	9.76	PPBV	99
99)	P-DICHLOROBENZENE	16.958	146	207963	9.94	PPBV	100
100)	O-DICHLOROBENZENE	17.248	146	193218	9.77	PPBV	100
101)	SEC-BUTYLBENZENE	17.087	134	100203	10.34	PPBV	98
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	305419	10.12	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.261	134	104646	10.28	PPBV	98
104)	N-BUTYLBENZENE	17.605	134	91234	10.40	PPBV	98
105)	HEXACHLOROETHANE	17.781	117	121674	9.78	PPBV	99
106)	HEXACHLOROBUTADIENE	18.817	225	110311	8.89	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.511	180	100644	8.97	PPBV	100
108)	NAPHTHALENE	18.560	128	211770	8.66	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56905.D
Acq On : 27 Dec 2021 9:42 am
Operator : thomash
Sample : bsd
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 15:07:02 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56931.D
Acq On : 28 Dec 2021 8:28 am
Operator : thomash
Sample : bs
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 16:26:03 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.653	128	59807	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.991	114	310292	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	264224	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.094	95	172985	9.80	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.863	65	47624	8.68	PPBV		99
4) CHLORODIFLUOROMETHANE	1.879	67	18907	8.60	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.895	116	127863	9.18	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.914	85	236089	10.97	PPBV	#	98
7) PROPYLENE	1.888	41	51236	8.39	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.965	65	124111	8.72	PPBV		99
9) FREON 114	2.014	85	210538	9.06	PPBV		98
10) CHLOROMETHANE	1.972	52	19217	9.29	PPBV		99
11) VINYL CHLORIDE	2.055	62	78050	8.88	PPBV		99
12) 1,3-BUTADIENE	2.107	54	55328	8.91	PPBV		98
13) N-BUTANE	2.129	43	90205	8.45	PPBV	#	97
14) BROMOMETHANE	2.207	94	79791	9.03	PPBV		99
15) CHLOROETHANE	2.274	64	44335	9.01	PPBV	#	85
16) DICHLOROFLUOROMETHANE	2.306	67	166976	8.91	PPBV		99
17) ACETONITRILE	2.393	41	47423	7.52	PPBV		99
18) ACROLEIN	2.438	56	29724	8.13	PPBV		98
19) FREON 123	2.454	83	179706	9.08	PPBV		100
20) FREON 123A	2.473	117	103700	9.27	PPBV		96
21) TRICHLOROFLUOROMETHANE	2.541	101	169756	9.04	PPBV		100
22) ISOPROPYL ALCOHOL	2.554	45	91831	8.21	PPBV		100
23) ACETONE	2.480	58	31858	8.05	PPBV		94
24) PENTANE	2.654	42	48751	8.70	PPBV		100
25) IODOMETHANE	2.708	142	199554	9.37	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.737	96	72889	9.36	PPBV		97
27) CARBON DISULFIDE	2.869	76	181367	9.18	PPBV		98
28) ETHANOL	2.309	45	24530	7.71	PPBV		98
29) BROMOETHENE	2.403	106	76758	9.24	PPBV		99
30) ACRYLONITRILE	2.625	52	38383	8.18	PPBV		98
31) METHYLENE CHLORIDE	2.772	84	65846	7.90	PPBV		98
32) 3-CHLOROPROPENE	2.814	76	34740	9.81	PPBV		95
33) FREON 113	2.869	151	126755	9.53	PPBV		98
34) TRANS-1,2-DICHLOROETHENE	3.110	96	86859	9.20	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.744	59	86869	9.53	PPBV		96
36) METHYL TERTIARY BUTYL ...	3.223	73	171347	9.25	PPBV		100
37) TETRAHYDROFURAN	3.949	72	40408	9.78	PPBV		96
38) HEXANE	3.708	57	126533	8.98	PPBV		98
39) VINYL ACETATE	3.264	86	22377	9.39	PPBV		84
40) 1,1-DICHLOROETHANE	3.190	63	135358	8.90	PPBV		99
41) METHYL ETHYL KETONE	3.364	72	41412	8.81	PPBV		94
42) CIS-1,2-DICHLOROETHENE	3.573	96	92847	9.28	PPBV		97
43) DIISOPROPYL ETHER	3.711	59	36915	9.66	PPBV		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56931.D
Acq On : 28 Dec 2021 8:28 am
Operator : thomash
Sample : bs
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 16:26:03 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.715	61	24201	9.64	PPBV		96
45) METHYL ACRYLATE	3.702	55	138371	8.63	PPBV	#	100
46) CHLOROFORM	3.727	83	163454	9.03	PPBV		99
47) 2,4-DIMETHYLPENTANE	4.248	57	150967	8.90	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.329	97	152683	9.21	PPBV		98
49) CARBON TETRACHLORIDE	4.772	117	164461	9.34	PPBV		99
50) 1,2-DICHLOROETHANE	4.158	62	89134	8.73	PPBV		99
51) BENZENE	4.653	78	269100	8.87	PPBV		99
53) CYCLOHEXANE	4.875	84	122139	9.36	PPBV		96
54) 2,3-DIMETHYLPENTANE	5.136	71	62636	9.44	PPBV		96
55) TRICHLOROETHENE	5.589	95	116191	9.19	PPBV		97
56) 1,2-DICHLOROPROPANE	5.348	63	94074	8.96	PPBV		100
57) DIBROMOMETHANE	5.306	174	112768	8.98	PPBV		97
58) ETHYL ACRYLATE	5.464	55	165026	9.46	PPBV		100
59) BROMODICHLOROMETHANE	5.531	83	178350	9.02	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.686	57	403318	8.81	PPBV		99
61) 1,4-DIOXANE	5.592	88	60722	7.95	PPBV		96
62) HEPTANE	6.010	43	121344	8.84	PPBV		96
63) METHYL METHACRYLATE	5.901	69	95835	9.59	PPBV		97
64) METHYL ISOBUTYL KETONE	6.653	58	73706	9.51	PPBV		97
65) CIS-1,3-DICHLOROPROPENE	6.554	75	138948	9.58	PPBV		98
66) TOLUENE	7.795	91	322791	9.18	PPBV		100
67) 1,3-DICHLOROPROPANE	7.849	76	150066	9.23	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	7.248	75	112066	9.49	PPBV		98
69) 1,1,2-TRICHLOROETHANE	7.412	83	92383	9.13	PPBV		99
70) 2-HEXANONE	8.357	58	87423	8.79	PPBV		96
71) ETHYL METHACRYLATE	8.496	69	148254	10.20	PPBV		98
72) TETRACHLOROETHENE	9.557	164	126122	9.67	PPBV		99
73) DIBROMOCHLOROMETHANE	8.338	129	188318	9.45	PPBV		100
74) 1,2-DIBROMOETHANE	8.689	107	159886	9.29	PPBV		100
75) OCTANE	9.695	43	161218	9.10	PPBV		97
77) 1,1,1,2-TETRACHLOROETHANE	10.791	131	129531	9.78	PPBV		98
78) CHLOROBENZENE	10.782	112	247065	9.38	PPBV		98
79) ETHYLBENZENE	11.669	91	391122	9.65	PPBV		99
80) M,P-XYLENE	12.100	91	591304	19.50	PPBV		99
81) O-XYLENE	13.045	91	295022	9.69	PPBV		99
82) STYRENE	12.827	104	232360	10.19	PPBV		99
83) NONANE	14.158	43	157708	8.86	PPBV		98
84) BROMOFORM	11.914	173	178082	9.91	PPBV		100
85) 1,1,2,2-TETRACHLOROETHANE	13.052	83	208001	9.32	PPBV		99
86) 1,2,3-TRICHLOROPROPANE	13.335	75	153048	9.34	PPBV	#	100
88) ISOPROPYLBENZENE	14.566	120	116489	9.94	PPBV		97
89) BROMOBENZENE	14.438	77	187674	9.10	PPBV		96
90) 2-CHLOROTOLUENE	15.579	126	99272	10.14	PPBV		99
91) N-PROPYLBENZENE	15.913	120	115202	10.41	PPBV		99
92) 4-ETHYLTOLUENE	16.225	105	403172	10.21	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	325800	10.01	PPBV		99
94) ALPHA-METHYLSTYRENE	16.560	118	168416	10.25	PPBV		100
95) TERT-BUTYLBENZENE	16.811	134	82800	9.96	PPBV		98
96) 1,2,4-TRIMETHYLBENZENE	16.817	105	318033	10.00	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56931.D
Acq On : 28 Dec 2021 8:28 am
Operator : thomash
Sample : bs
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 16:26:03 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

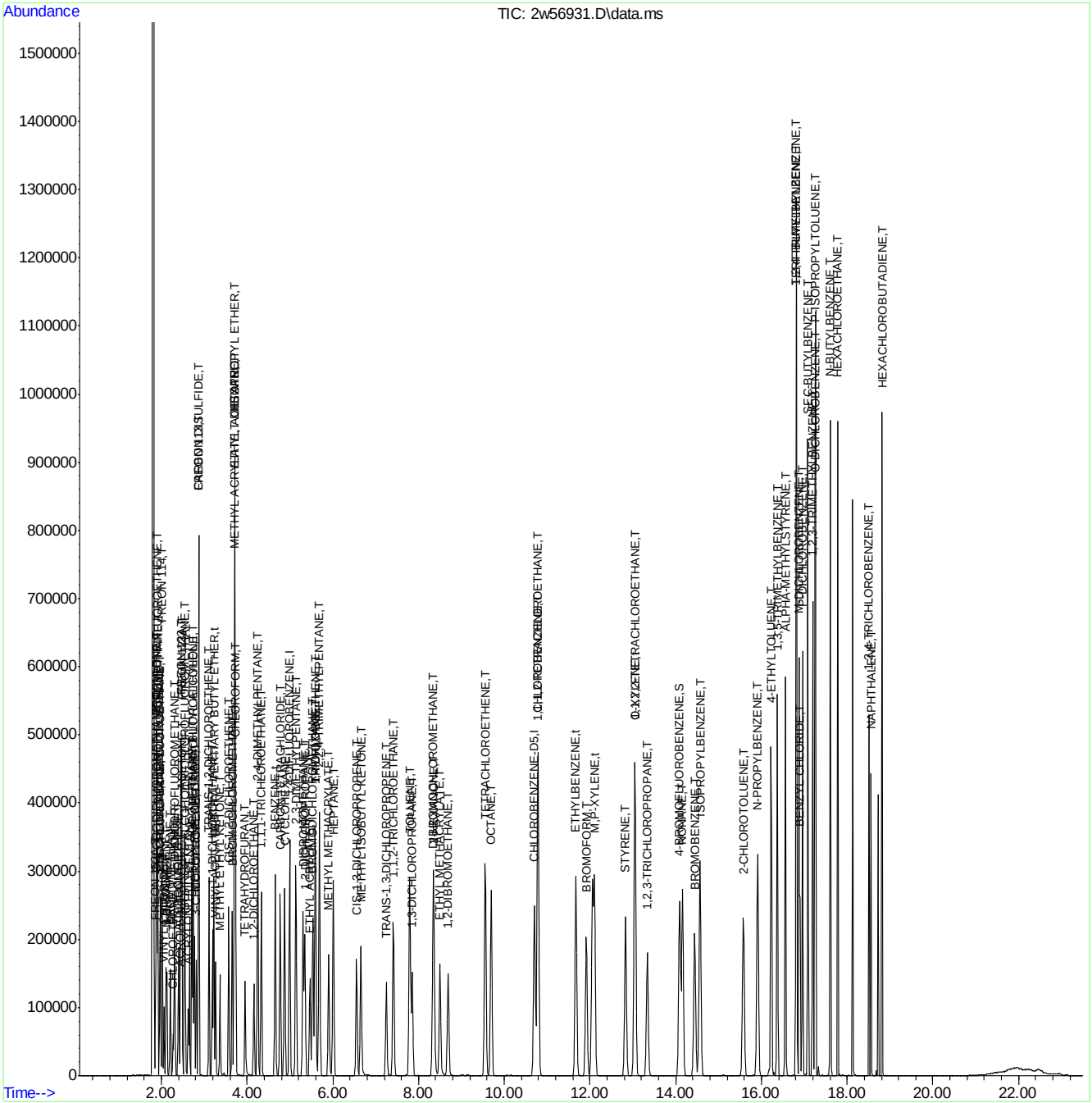
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.901	91	165438	9.65	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	207598	9.49	PPBV	100
99)	P-DICHLOROBENZENE	16.958	146	204712	9.62	PPBV	100
100)	O-DICHLOROBENZENE	17.248	146	192187	9.56	PPBV	100
101)	SEC-BUTYLBENZENE	17.087	134	100286	10.18	PPBV	96
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	302833	9.87	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.261	134	105442	10.19	PPBV	98
104)	N-BUTYLBENZENE	17.605	134	91990	10.31	PPBV	95
105)	HEXACHLOROETHANE	17.782	117	120679	9.54	PPBV	99
106)	HEXACHLOROBUTADIENE	18.817	225	109664	8.69	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.508	180	100653	8.83	PPBV	100
108)	NAPHTHALENE	18.556	128	210279	8.45	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56931.D
Acq On : 28 Dec 2021 8:28 am
Operator : thomash
Sample : bs
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 16:26:03 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56932.D
Acq On : 28 Dec 2021 9:04 am
Operator : thomash
Sample : bsd
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 16:26:16 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.653	128	58289	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.991	114	304457	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.708	117	260206	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	171857	9.88	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.862	65	47659	8.91	PPBV		97
4) CHLORODIFLUOROMETHANE	1.878	67	18791	8.77	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.895	116	126586	9.32	PPBV	#	99
6) DICHLORODIFLUOROMETHANE	1.917	85	233037	11.11	PPBV	#	98
7) PROPYLENE	1.891	41	50369	8.46	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.968	65	121941	8.79	PPBV		99
9) FREON 114	2.014	85	207842	9.18	PPBV		98
10) CHLOROMETHANE	1.975	52	18778	9.32	PPBV		99
11) VINYL CHLORIDE	2.059	62	76998	8.99	PPBV		99
12) 1,3-BUTADIENE	2.110	54	54002	8.92	PPBV		99
13) N-BUTANE	2.129	43	89253	8.58	PPBV	#	98
14) BROMOMETHANE	2.210	94	78914	9.16	PPBV		99
15) CHLOROETHANE	2.274	64	43473	9.07	PPBV	#	85
16) DICHLOROFLUOROMETHANE	2.306	67	164321	8.99	PPBV		100
17) ACETONITRILE	2.393	41	46358	7.54	PPBV		100
18) ACROLEIN	2.438	56	29391	8.25	PPBV		99
19) FREON 123	2.454	83	176837	9.16	PPBV		100
20) FREON 123A	2.473	117	101604	9.32	PPBV		97
21) TRICHLOROFLUOROMETHANE	2.541	101	167303	9.15	PPBV		100
22) ISOPROPYL ALCOHOL	2.554	45	90346	8.29	PPBV		100
23) ACETONE	2.480	58	31370	8.14	PPBV		94
24) PENTANE	2.653	42	47554	8.70	PPBV		99
25) IODOMETHANE	2.711	142	198241	9.56	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.737	96	71317	9.39	PPBV		97
27) CARBON DISULFIDE	2.869	76	178845	9.29	PPBV	#	98
28) ETHANOL	2.313	45	23831	7.69	PPBV		99
29) BROMOETHENE	2.403	106	76738	9.48	PPBV		100
30) ACRYLONITRILE	2.624	52	37312	8.16	PPBV		98
31) METHYLENE CHLORIDE	2.772	84	64616	7.95	PPBV		99
32) 3-CHLOROPROPENE	2.814	76	34000	9.85	PPBV		95
33) FREON 113	2.869	151	125469	9.68	PPBV		97
34) TRANS-1,2-DICHLOROETHENE	3.110	96	85715	9.32	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.743	59	87164	9.81	PPBV		95
36) METHYL TERTIARY BUTYL ...	3.222	73	169944	9.41	PPBV		100
37) TETRAHYDROFURAN	3.949	72	39813	9.89	PPBV		96
38) HEXANE	3.708	57	124893	9.10	PPBV		97
39) VINYL ACETATE	3.264	86	22177	9.55	PPBV		84
40) 1,1-DICHLOROETHANE	3.190	63	133186	8.99	PPBV		98
41) METHYL ETHYL KETONE	3.364	72	40864	8.92	PPBV		93
42) CIS-1,2-DICHLOROETHENE	3.573	96	91898	9.42	PPBV		97
43) DIISOPROPYL ETHER	3.711	59	36249	9.73	PPBV		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56932.D
Acq On : 28 Dec 2021 9:04 am
Operator : thomash
Sample : bsd
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 16:26:16 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	ETHYL ACETATE	3.714	61	24134	9.87	PPBV		93
45)	METHYL ACRYLATE	3.702	55	137336	8.79	PPBV	#	100
46)	CHLOROFORM	3.731	83	160451	9.10	PPBV		98
47)	2,4-DIMETHYLPENTANE	4.248	57	148535	8.98	PPBV		99
48)	1,1,1-TRICHLOROETHANE	4.332	97	150869	9.34	PPBV		98
49)	CARBON TETRACHLORIDE	4.772	117	162164	9.45	PPBV		100
50)	1,2-DICHLOROETHANE	4.161	62	87587	8.80	PPBV		99
51)	BENZENE	4.657	78	266099	9.00	PPBV		99
53)	CYCLOHEXANE	4.875	84	119702	9.34	PPBV		96
54)	2,3-DIMETHYLPENTANE	5.139	71	62090	9.54	PPBV		96
55)	TRICHLOROETHENE	5.589	95	114765	9.25	PPBV		97
56)	1,2-DICHLOROPROPANE	5.348	63	93054	9.04	PPBV		100
57)	DIBROMOMETHANE	5.306	174	112415	9.13	PPBV		97
58)	ETHYL ACRYLATE	5.464	55	163348	9.54	PPBV		99
59)	BROMODICHLOROMETHANE	5.531	83	176098	9.07	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.685	57	396769	8.83	PPBV		99
61)	1,4-DIOXANE	5.595	88	59671	7.96	PPBV		97
62)	HEPTANE	6.013	43	119739	8.89	PPBV		96
63)	METHYL METHACRYLATE	5.904	69	95241	9.71	PPBV		96
64)	METHYL ISOBUTYL KETONE	6.653	58	72247	9.50	PPBV		98
65)	CIS-1,3-DICHLOROPROPENE	6.557	75	136991	9.62	PPBV		98
66)	TOLUENE	7.791	91	319024	9.25	PPBV		100
67)	1,3-DICHLOROPROPANE	7.853	76	147646	9.26	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	7.248	75	110568	9.54	PPBV		98
69)	1,1,2-TRICHLOROETHANE	7.412	83	91088	9.17	PPBV		99
70)	2-HEXANONE	8.361	58	86642	8.88	PPBV		96
71)	ETHYL METHACRYLATE	8.499	69	146690	10.29	PPBV		98
72)	TETRACHLOROETHENE	9.557	164	126089	9.85	PPBV		99
73)	DIBROMOCHLOROMETHANE	8.338	129	186577	9.55	PPBV		99
74)	1,2-DIBROMOETHANE	8.692	107	158906	9.41	PPBV		100
75)	OCTANE	9.695	43	159210	9.16	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	10.791	131	128690	9.87	PPBV		98
78)	CHLOROBENZENE	10.782	112	245848	9.48	PPBV		98
79)	ETHYLBENZENE	11.672	91	387107	9.70	PPBV		99
80)	M,P-XYLENE	12.103	91	587545	19.68	PPBV		99
81)	O-XYLENE	13.048	91	292518	9.75	PPBV		99
82)	STYRENE	12.830	104	232269	10.35	PPBV		99
83)	NONANE	14.161	43	156547	8.94	PPBV		98
84)	BROMOFORM	11.917	173	177616	10.04	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	13.055	83	205061	9.33	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.338	75	151621	9.40	PPBV	#	100
88)	ISOPROPYLBENZENE	14.569	120	116492	10.09	PPBV		96
89)	BROMOBENZENE	14.444	77	186217	9.17	PPBV		95
90)	2-CHLOROTOLUENE	15.582	126	99765	10.35	PPBV		100
91)	N-PROPYLBENZENE	15.916	120	115149	10.57	PPBV		99
92)	4-ETHYLTOLUENE	16.232	105	400826	10.31	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.373	105	325251	10.14	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.560	118	166594	10.29	PPBV		99
95)	TERT-BUTYLBENZENE	16.810	134	82208	10.04	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.817	105	318625	10.17	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56932.D
Acq On : 28 Dec 2021 9:04 am
Operator : thomash
Sample : bsd
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 16:26:16 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

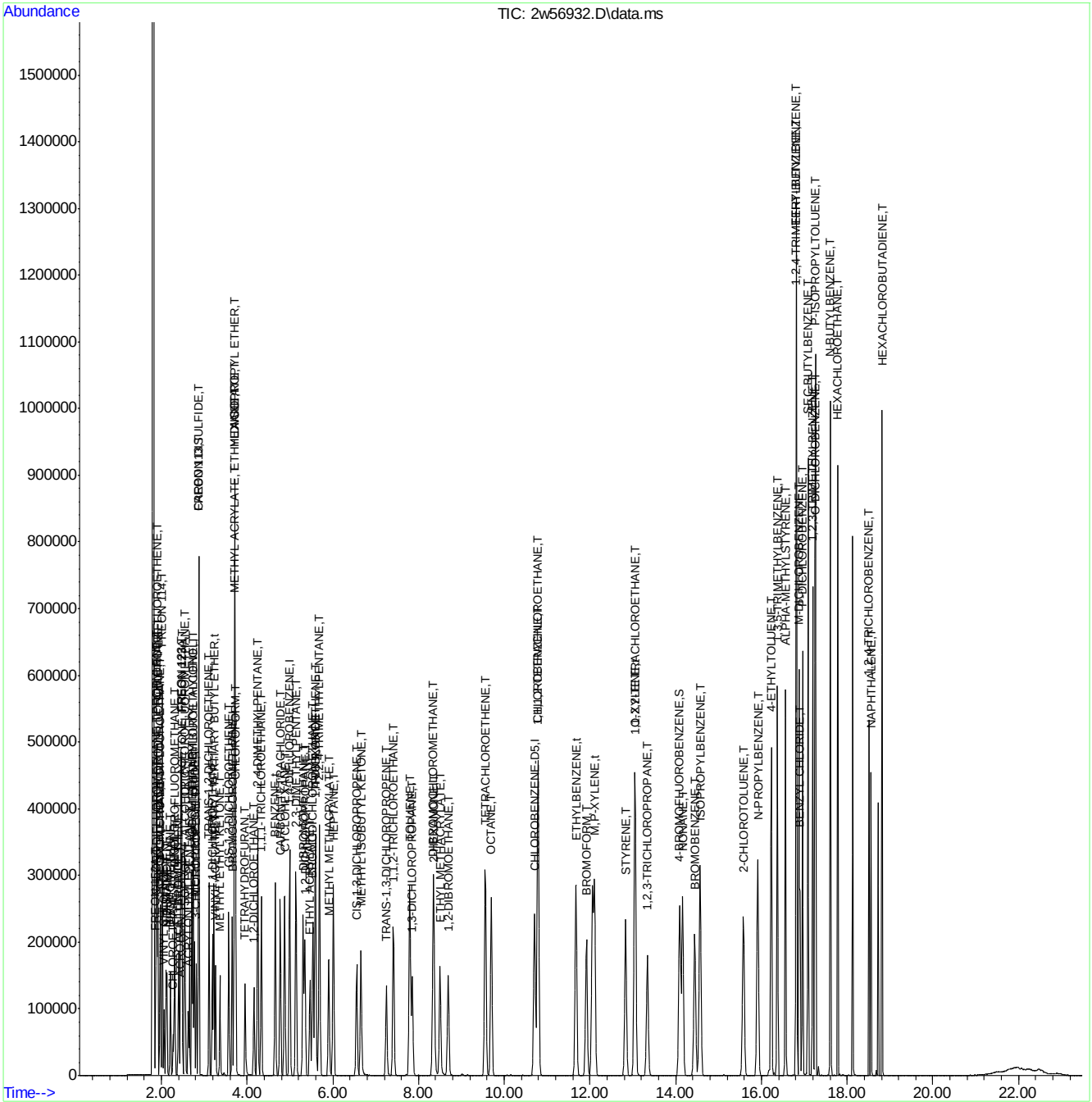
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	166492	9.86	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	209036	9.70	PPBV	100
99)	P-DICHLOROBENZENE	16.958	146	205369	9.80	PPBV	100
100)	O-DICHLOROBENZENE	17.248	146	191215	9.66	PPBV	99
101)	SEC-BUTYLBENZENE	17.087	134	99421	10.25	PPBV	96
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	301638	9.99	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.261	134	104155	10.22	PPBV	99
104)	N-BUTYLBENZENE	17.605	134	91627	10.43	PPBV	95
105)	HEXACHLOROETHANE	17.781	117	119666	9.61	PPBV	98
106)	HEXACHLOROBUTADIENE	18.817	225	110793	8.92	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.508	180	101872	9.07	PPBV	100
108)	NAPHTHALENE	18.559	128	211674	8.64	PPBV	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56932.D
Acq On : 28 Dec 2021 9:04 am
Operator : thomash
Sample : bsd
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 16:26:16 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57043.D
Acq On : 4 Jan 2022 1:47 pm
Operator : danat
Sample : bs
Misc : MS55592,V2w2539,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 16:14:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.647	128	56851	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.988	114	300640	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.698	117	261223	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	170922	9.79	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.865	65	48191	9.24	PPBV		99
4) CHLORODIFLUOROMETHANE	1.882	67	19173	9.17	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.898	116	127023	9.59	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.917	85	244963	11.97	PPBV	#	98
7) PROPYLENE	1.894	41	51939	8.94	PPBV		100
8) 1-CHLORO-1,1-DIFLUOROE...	1.968	65	130394	9.64	PPBV		99
9) FREON 114	2.013	85	222242	10.06	PPBV		99
10) CHLOROMETHANE	1.975	52	20394	10.38	PPBV		100
11) VINYL CHLORIDE	2.058	62	82004	9.81	PPBV		100
12) 1,3-BUTADIENE	2.110	54	58594	9.93	PPBV		99
13) N-BUTANE	2.129	43	96138	9.48	PPBV	#	99
14) BROMOMETHANE	2.206	94	83081	9.89	PPBV		100
15) CHLOROETHANE	2.271	64	46535	9.95	PPBV	#	85
16) DICHLOROFLUOROMETHANE	2.303	67	174734	9.81	PPBV		100
17) ACETONITRILE	2.390	41	53471	8.92	PPBV		99
18) ACROLEIN	2.435	56	33077	9.52	PPBV		99
19) FREON 123	2.451	83	189624	10.08	PPBV		99
20) FREON 123A	2.470	117	108381	10.19	PPBV		100
21) TRICHLOROFLUOROMETHANE	2.534	101	179141	10.04	PPBV		100
22) ISOPROPYL ALCOHOL	2.550	45	107910	10.15	PPBV		98
23) ACETONE	2.476	58	35438	9.42	PPBV		96
24) PENTANE	2.647	42	56469	10.60	PPBV		99
25) IODOMETHANE	2.705	142	208525	10.31	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.730	96	78779	10.64	PPBV		100
27) CARBON DISULFIDE	2.865	76	203714	10.84	PPBV		99
28) ETHANOL	2.309	45	27021	8.94	PPBV		100
29) BROMOETHENE	2.399	106	80628	10.21	PPBV		100
30) ACRYLONITRILE	2.618	52	44531	9.99	PPBV		99
31) METHYLENE CHLORIDE	2.766	84	71198	8.99	PPBV		98
32) 3-CHLOROPROPENE	2.808	76	38031	11.29	PPBV		98
33) FREON 113	2.862	151	132916	10.52	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	3.103	96	87597	9.76	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.740	59	106127	12.25	PPBV		93
36) METHYL TERTIARY BUTYL ...	3.216	73	185798	10.55	PPBV		100
37) TETRAHYDROFURAN	3.946	72	43136	10.98	PPBV		99
38) HEXANE	3.701	57	133011	9.93	PPBV		99
39) VINYL ACETATE	3.258	86	21991	9.71	PPBV		98
40) 1,1-DICHLOROETHANE	3.184	63	141280	9.77	PPBV		99
41) METHYL ETHYL KETONE	3.357	72	43591	9.75	PPBV		100
42) CIS-1,2-DICHLOROETHENE	3.566	96	94957	9.98	PPBV		99
43) DIISOPROPYL ETHER	3.705	59	38960	10.72	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57043.D
Acq On : 4 Jan 2022 1:47 pm
Operator : danat
Sample : bs
Misc : MS55592,V2w2539,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 16:14:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	ETHYL ACETATE	3.711	61	26137	10.96	PPBV		100
45)	METHYL ACRYLATE	3.695	55	150470	9.88	PPBV	#	99
46)	CHLOROFORM	3.724	83	169267	9.84	PPBV		99
47)	2,4-DIMETHYLPENTANE	4.242	57	159186	9.87	PPBV		99
48)	1,1,1-TRICHLOROETHANE	4.325	97	158891	10.09	PPBV		99
49)	CARBON TETRACHLORIDE	4.766	117	168820	10.09	PPBV		100
50)	1,2-DICHLOROETHANE	4.152	62	94154	9.70	PPBV		99
51)	BENZENE	4.650	78	280945	9.74	PPBV		99
53)	CYCLOHEXANE	4.869	84	126719	10.02	PPBV		97
54)	2,3-DIMETHYLPENTANE	5.132	71	65546	10.20	PPBV		99
55)	TRICHLOROETHENE	5.582	95	120200	9.82	PPBV		98
56)	1,2-DICHLOROPROPANE	5.344	63	100002	9.83	PPBV		100
57)	DIBROMOMETHANE	5.299	174	116549	9.58	PPBV		98
58)	ETHYL ACRYLATE	5.460	55	183032	10.83	PPBV		100
59)	BROMODICHLOROMETHANE	5.528	83	187333	9.77	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.682	57	427910	9.65	PPBV		99
61)	1,4-DIOXANE	5.589	88	65266	8.81	PPBV		97
62)	HEPTANE	6.010	43	131871	9.92	PPBV		98
63)	METHYL METHACRYLATE	5.897	69	103639	10.70	PPBV		99
64)	METHYL ISOBUTYL KETONE	6.650	58	82216	10.95	PPBV		99
65)	CIS-1,3-DICHLOROPROPENE	6.547	75	148791	10.58	PPBV		99
66)	TOLUENE	7.788	91	339744	9.97	PPBV		100
67)	1,3-DICHLOROPROPANE	7.846	76	157861	10.02	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	7.245	75	122040	10.67	PPBV		99
69)	1,1,2-TRICHLOROETHANE	7.405	83	97188	9.91	PPBV		99
70)	2-HEXANONE	8.351	58	102217	10.61	PPBV		98
71)	ETHYL METHACRYLATE	8.495	69	164241	11.67	PPBV		100
72)	TETRACHLOROETHENE	9.550	164	134114	10.61	PPBV		99
73)	DIBROMOCHLOROMETHANE	8.335	129	195908	10.15	PPBV		99
74)	1,2-DIBROMOETHANE	8.685	107	168572	10.11	PPBV		100
75)	OCTANE	9.692	43	176118	10.26	PPBV		99
77)	1,1,1,2-TETRACHLOROETHANE	10.785	131	135173	10.32	PPBV		99
78)	CHLOROBENZENE	10.778	112	258289	9.92	PPBV		99
79)	ETHYLBENZENE	11.669	91	416217	10.39	PPBV		100
80)	M,P-XYLENE	12.100	91	625228	20.86	PPBV		99
81)	O-XYLENE	13.042	91	314210	10.44	PPBV		99
82)	STYRENE	12.830	104	248524	11.03	PPBV		99
83)	NONANE	14.154	43	173082	9.84	PPBV		99
84)	BROMOFORM	11.913	173	188969	10.64	PPBV		99
85)	1,1,2,2-TETRACHLOROETHANE	13.048	83	227459	10.31	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.338	75	164343	10.15	PPBV	#	100
88)	ISOPROPYLBENZENE	14.566	120	122899	10.61	PPBV		98
89)	BROMOBENZENE	14.441	77	202310	9.92	PPBV		97
90)	2-CHLOROTOLUENE	15.576	126	105164	10.87	PPBV		100
91)	N-PROPYLBENZENE	15.910	120	123154	11.26	PPBV		100
92)	4-ETHYLTOLUENE	16.225	105	431056	11.04	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.370	105	348662	10.83	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.559	118	180803	11.13	PPBV		100
95)	TERT-BUTYLBENZENE	16.810	134	88441	10.76	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.820	105	342259	10.88	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57043.D
Acq On : 4 Jan 2022 1:47 pm
Operator : danat
Sample : bs
Misc : MS55592,V2w2539,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 16:14:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

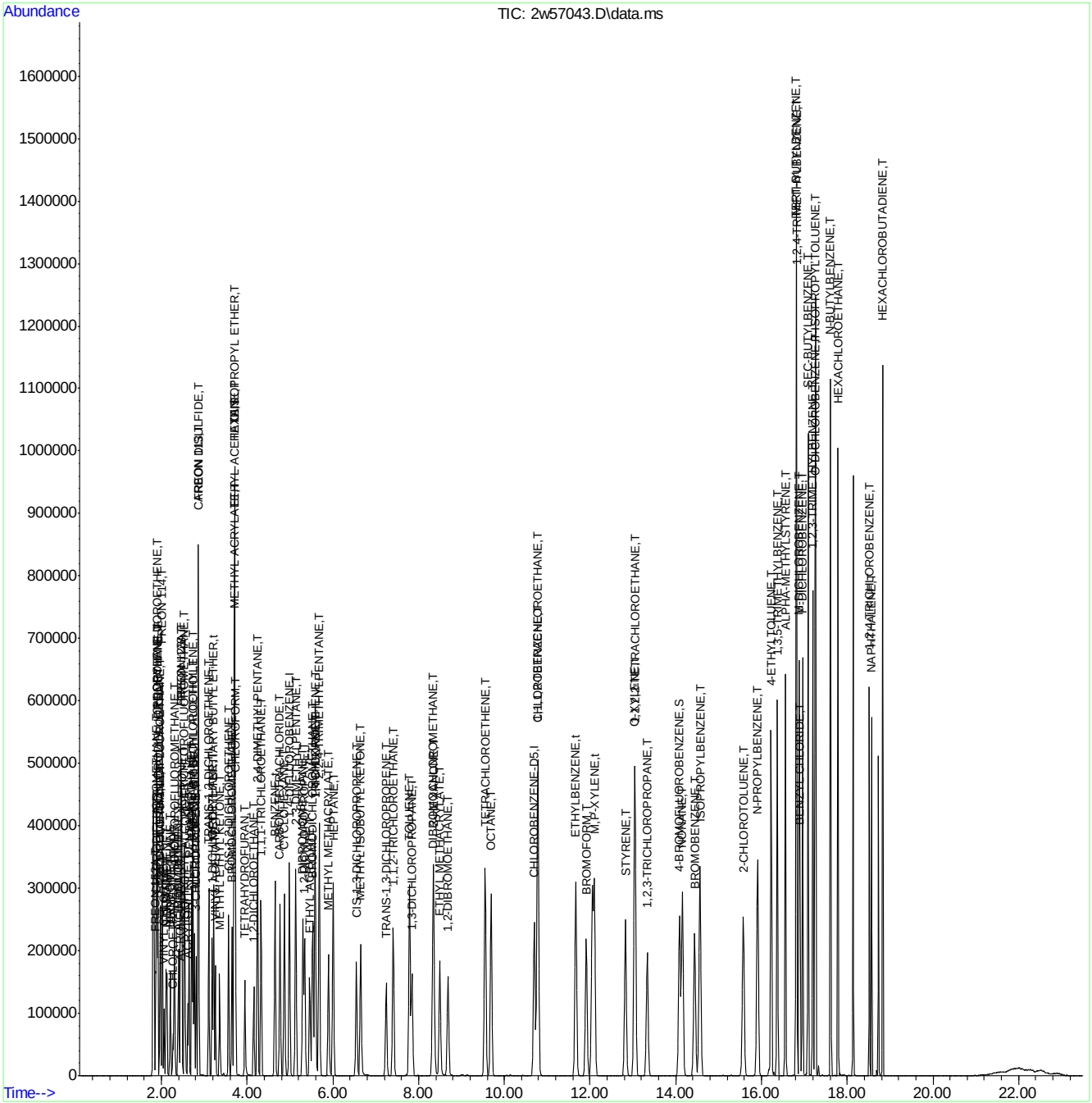
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	182669	10.77	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	225700	10.43	PPBV	99
99)	P-DICHLOROBENZENE	16.958	146	222352	10.57	PPBV	100
100)	O-DICHLOROBENZENE	17.251	146	209846	10.56	PPBV	99
101)	SEC-BUTYLBENZENE	17.087	134	107552	11.04	PPBV	99
102)	1,2,3-TRIMETHYLBENZENE	17.199	105	329847	10.88	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.264	134	113465	11.09	PPBV	98
104)	N-BUTYLBENZENE	17.608	134	99862	11.32	PPBV	98
105)	HEXACHLOROETHANE	17.788	117	126789	10.14	PPBV	99
106)	HEXACHLOROBUTADIENE	18.826	225	124969	10.02	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.521	180	117270	10.40	PPBV	99
108)	NAPHTHALENE	18.569	128	258293	10.50	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57043.D
Acq On : 4 Jan 2022 1:47 pm
Operator : danat
Sample : bs
Misc : MS55592,V2w2539,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 16:14:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57044.D
Acq On : 4 Jan 2022 2:24 pm
Operator : danat
Sample : bsd
Misc : MS55592,V2w2539,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 16:14:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.650	128	56477	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.987	114	300245	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	258576	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.087	95	170088	9.84	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.859	65	47496	9.17	PPBV		99
4) CHLORODIFLUOROMETHANE	1.878	67	18978	9.14	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.891	116	125493	9.54	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.914	85	240801	11.85	PPBV	#	98
7) PROPYLENE	1.888	41	52166	9.04	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.965	65	128304	9.54	PPBV		99
9) FREON 114	2.010	85	218806	9.97	PPBV		98
10) CHLOROMETHANE	1.971	52	20211	10.35	PPBV		99
11) VINYL CHLORIDE	2.052	62	80658	9.72	PPBV		99
12) 1,3-BUTADIENE	2.103	54	57101	9.74	PPBV		99
13) N-BUTANE	2.123	43	95280	9.45	PPBV		99
14) BROMOMETHANE	2.203	94	82112	9.84	PPBV		100
15) CHLOROETHANE	2.267	64	46102	9.92	PPBV	#	85
16) DICHLOROFLUOROMETHANE	2.299	67	173206	9.78	PPBV		100
17) ACETONITRILE	2.386	41	53390	8.96	PPBV		100
18) ACROLEIN	2.431	56	32992	9.56	PPBV		100
19) FREON 123	2.447	83	191066	10.22	PPBV		99
20) FREON 123A	2.467	117	108406	10.26	PPBV		100
21) TRICHLOROFLUOROMETHANE	2.534	101	178238	10.06	PPBV		100
22) ISOPROPYL ALCOHOL	2.550	45	107885	10.22	PPBV		98
23) ACETONE	2.473	58	35358	9.46	PPBV		96
24) PENTANE	2.647	42	57294	10.82	PPBV		97
25) IODOMETHANE	2.704	142	207883	10.34	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.733	96	77171	10.49	PPBV		99
27) CARBON DISULFIDE	2.865	76	201313	10.79	PPBV		99
28) ETHANOL	2.303	45	27028	9.00	PPBV		99
29) BROMOETHENE	2.396	106	80753	10.30	PPBV		99
30) ACRYLONITRILE	2.621	52	43990	9.93	PPBV		99
31) METHYLENE CHLORIDE	2.769	84	70550	8.96	PPBV		99
32) 3-CHLOROPROPENE	2.811	76	37565	11.23	PPBV		98
33) FREON 113	2.865	151	132589	10.56	PPBV		100
34) TRANS-1,2-DICHLOROETHENE	3.106	96	86719	9.73	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.740	59	105207	12.22	PPBV		93
36) METHYL TERTIARY BUTYL ...	3.219	73	184036	10.52	PPBV		100
37) TETRAHYDROFURAN	3.946	72	42784	10.97	PPBV		99
38) HEXANE	3.704	57	130919	9.84	PPBV		99
39) VINYL ACETATE	3.261	86	21706	9.65	PPBV		99
40) 1,1-DICHLOROETHANE	3.187	63	139589	9.72	PPBV		99
41) METHYL ETHYL KETONE	3.360	72	44120	9.94	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.569	96	94111	9.96	PPBV		99
43) DIISOPROPYL ETHER	3.708	59	38629	10.70	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57044.D
Acq On : 4 Jan 2022 2:24 pm
Operator : danat
Sample : bsd
Misc : MS55592,V2w2539,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 16:14:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.711	61	25560	10.78	PPBV		99
45) METHYL ACRYLATE	3.698	55	148803	9.83	PPBV	#	99
46) CHLOROFORM	3.727	83	167691	9.81	PPBV		99
47) 2,4-DIMETHYLPENTANE	4.245	57	157889	9.86	PPBV		100
48) 1,1,1-TRICHLOROETHANE	4.328	97	157159	10.04	PPBV		98
49) CARBON TETRACHLORIDE	4.769	117	167553	10.08	PPBV		99
50) 1,2-DICHLOROETHANE	4.155	62	92270	9.57	PPBV		100
51) BENZENE	4.653	78	278348	9.71	PPBV		100
53) CYCLOHEXANE	4.872	84	123857	9.80	PPBV		99
54) 2,3-DIMETHYLPENTANE	5.132	71	64395	10.03	PPBV		99
55) TRICHLOROETHENE	5.589	95	119321	9.76	PPBV		98
56) 1,2-DICHLOROPROPANE	5.344	63	99063	9.75	PPBV		99
57) DIBROMOMETHANE	5.302	174	115190	9.48	PPBV		98
58) ETHYL ACRYLATE	5.460	55	181795	10.77	PPBV		100
59) BROMODICHLOROMETHANE	5.531	83	185625	9.70	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.682	57	420518	9.49	PPBV		100
61) 1,4-DIOXANE	5.592	88	64316	8.70	PPBV		98
62) HEPTANE	6.010	43	130313	9.81	PPBV		99
63) METHYL METHACRYLATE	5.901	69	102913	10.64	PPBV		99
64) METHYL ISOBUTYL KETONE	6.650	58	82243	10.96	PPBV		99
65) CIS-1,3-DICHLOROPROPENE	6.553	75	146734	10.45	PPBV		99
66) TOLUENE	7.791	91	337124	9.91	PPBV		100
67) 1,3-DICHLOROPROPANE	7.849	76	157124	9.99	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	7.248	75	120257	10.53	PPBV		99
69) 1,1,2-TRICHLOROETHANE	7.409	83	96013	9.80	PPBV		99
70) 2-HEXANONE	8.357	58	101621	10.56	PPBV		98
71) ETHYL METHACRYLATE	8.495	69	163523	11.63	PPBV		99
72) TETRACHLOROETHENE	9.553	164	133802	10.60	PPBV		99
73) DIBROMOCHLOROMETHANE	8.338	129	194928	10.11	PPBV		100
74) 1,2-DIBROMOETHANE	8.688	107	167979	10.08	PPBV		99
75) OCTANE	9.695	43	174276	10.17	PPBV		99
77) 1,1,1,2-TETRACHLOROETHANE	10.791	131	134560	10.38	PPBV		98
78) CHLOROBENZENE	10.778	112	256649	9.96	PPBV		98
79) ETHYLBENZENE	11.666	91	412528	10.40	PPBV		100
80) M,P-XYLENE	12.103	91	620884	20.92	PPBV		100
81) O-XYLENE	13.045	91	312436	10.48	PPBV		99
82) STYRENE	12.826	104	247241	11.08	PPBV		99
83) NONANE	14.157	43	171831	9.87	PPBV		100
84) BROMOFORM	11.913	173	187377	10.65	PPBV		100
85) 1,1,2,2-TETRACHLOROETHANE	13.051	83	225060	10.30	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.338	75	164232	10.24	PPBV		100
88) ISOPROPYLBENZENE	14.569	120	122502	10.68	PPBV		98
89) BROMOBENZENE	14.440	77	199275	9.88	PPBV		96
90) 2-CHLOROTOLUENE	15.575	126	105740	11.04	PPBV		99
91) N-PROPYLBENZENE	15.913	120	123762	11.43	PPBV		99
92) 4-ETHYLTOLUENE	16.228	105	429503	11.12	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.373	105	346015	10.86	PPBV		99
94) ALPHA-METHYLSTYRENE	16.559	118	180803	11.24	PPBV		99
95) TERT-BUTYLBENZENE	16.810	134	87759	10.79	PPBV		98
96) 1,2,4-TRIMETHYLBENZENE	16.820	105	345260	11.09	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57044.D
Acq On : 4 Jan 2022 2:24 pm
Operator : danat
Sample : bsd
Misc : MS55592,V2w2539,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 16:14:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

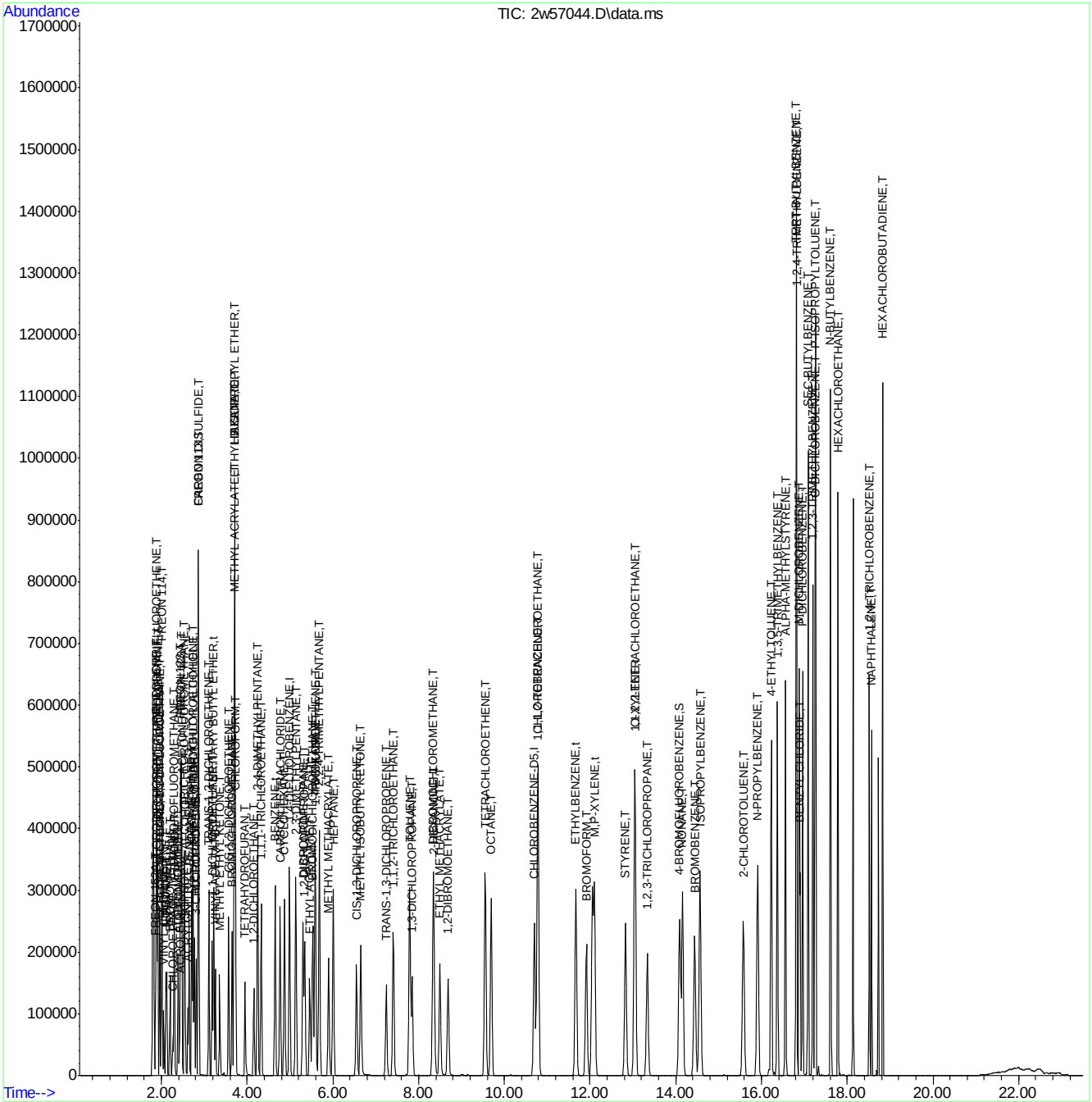
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	183552	10.94	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	226148	10.56	PPBV	100
99)	P-DICHLOROBENZENE	16.958	146	221472	10.64	PPBV	99
100)	O-DICHLOROBENZENE	17.251	146	207834	10.57	PPBV	99
101)	SEC-BUTYLBENZENE	17.087	134	107603	11.16	PPBV	97
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	329763	10.99	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.263	134	112536	11.11	PPBV	99
104)	N-BUTYLBENZENE	17.607	134	100183	11.47	PPBV	97
105)	HEXACHLOROETHANE	17.784	117	126047	10.18	PPBV	99
106)	HEXACHLOROBUTADIENE	18.826	225	125214	10.14	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.517	180	118273	10.60	PPBV	100
108)	NAPHTHALENE	18.566	128	259754	10.67	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57044.D
Acq On : 4 Jan 2022 2:24 pm
Operator : danat
Sample : bsd
Misc : MS55592,V2w2539,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 16:14:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47616.D
Acq On : 27 Jan 2022 7:57 pm
Operator : thomash
Sample : jd38291-2dup
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 28 10:48:38 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

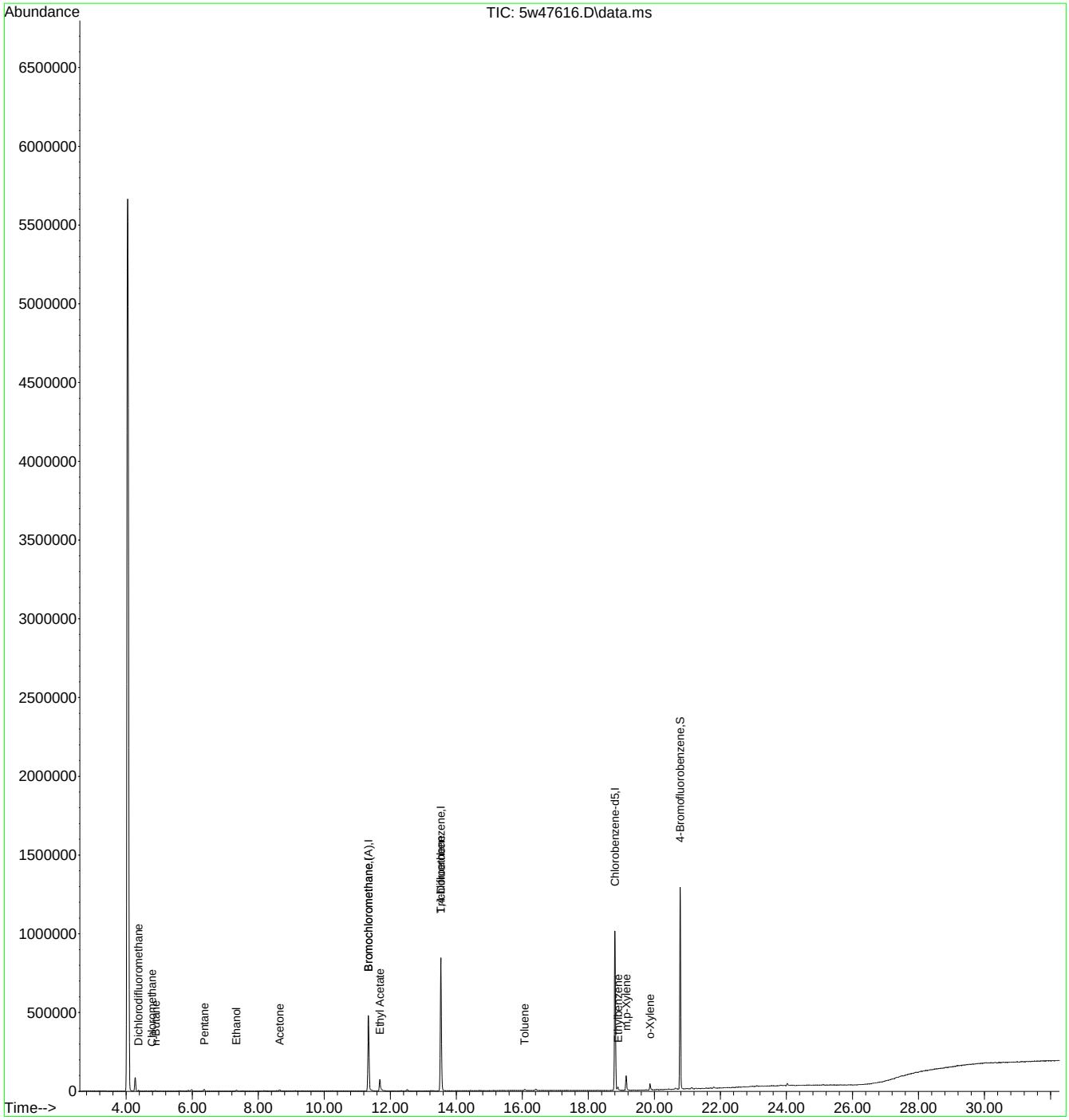
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	234594	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	13.531	114	924579	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	424603	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	234594	10.00	ppb(v	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	498455	9.29	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 92.90%			
Target Compounds						Qvalue
6) Dichlorodifluoromethane	4.373	85	6934	0.11	ppb(v	96
8) Chloromethane	4.783	50	1588	0.10	ppb(v	91
12) n-Butane	4.893	58	519	0.19	ppb(v#	54
22) Acetone	8.643	58	4082	0.43	ppb(v	94
23) Pentane	6.368	57	1489	0.27	ppb(v	99
30) Ethanol	7.340	45	10787	1.37	ppb(v	95
42) Ethyl Acetate	11.684	61	19246	2.75	ppb(v	99
56) Trichloroethene	13.531	97	2426	0.10	ppb(v#	1
66) Toluene	16.070	91	11498	0.12	ppb(v	91
78) Ethylbenzene	18.897	91	22091	0.19	ppb(v	96
79) m,p-Xylene	19.147	91	75010	0.88	ppb(v	98
82) o-Xylene	19.869	91	31381	0.35	ppb(v#	98

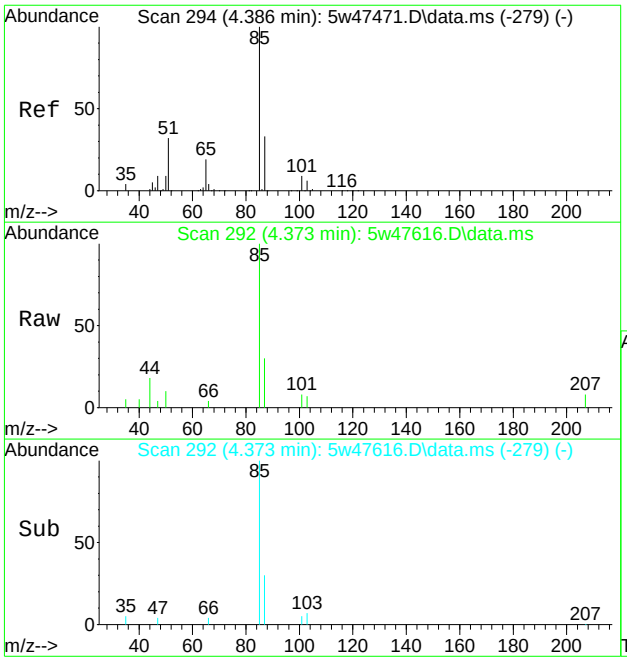
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47616.D
Acq On : 27 Jan 2022 7:57 pm
Operator : thomash
Sample : jd38291-2dup
Misc : ms56243,v5w1967,100,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 28 10:48:38 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

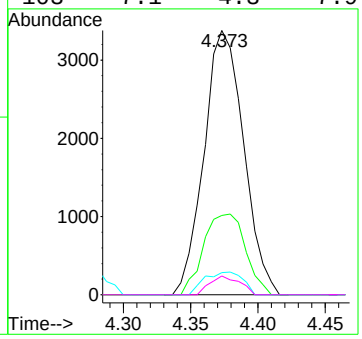


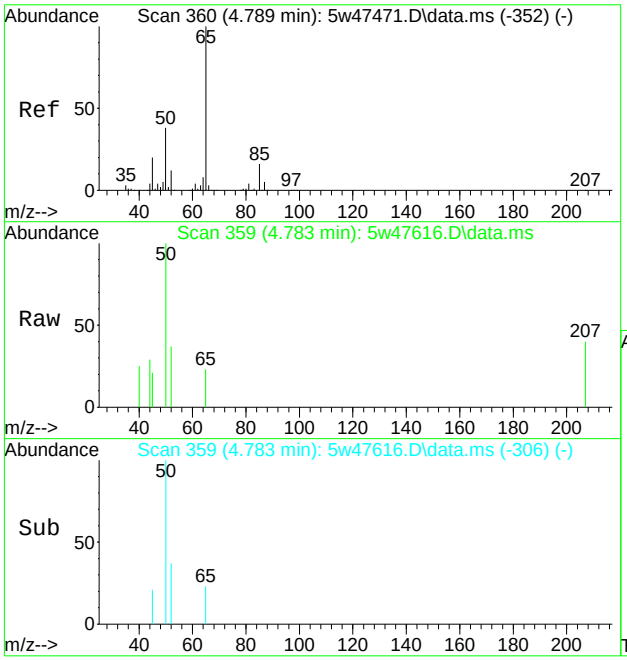


#6
Dichlorodifluoromethane
Concen: 0.11 ppb(v)
RT: 4.373 min Scan# 292
Delta R.T. -0.012 min
Lab File: 5w47616.D
Acq: 27 Jan 2022 7:57 pm

Tgt Ion: 85 Resp: 6934

Ion	Ratio	Lower	Upper
85	100		
87	30.1	23.0	42.8
101	8.4	6.5	12.1
103	7.1	4.3	7.9

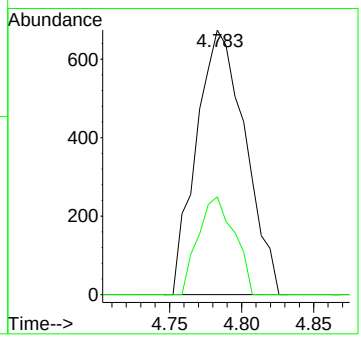


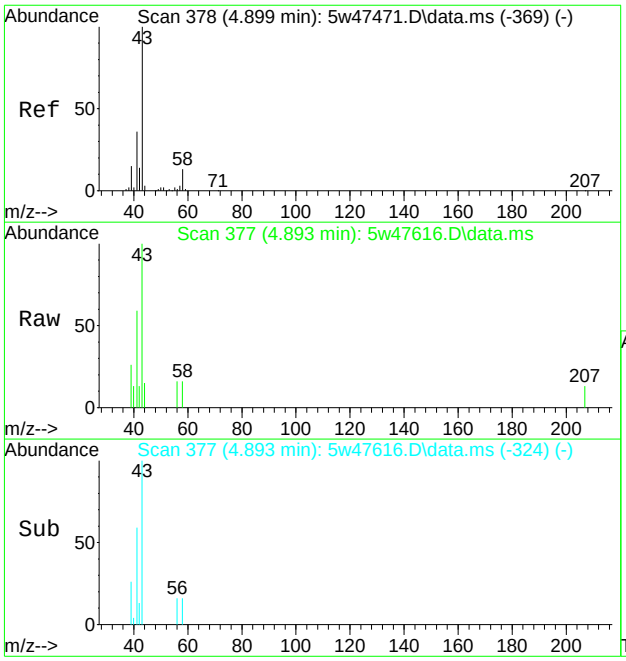


#8
Chloromethane
Concen: 0.10 ppb(v)
RT: 4.783 min Scan# 359
Delta R.T. -0.006 min
Lab File: 5w47616.D
Acq: 27 Jan 2022 7:57 pm

Tgt Ion: 50 Resp: 1588

Ion	Ratio	Lower	Upper
50	100		
52	36.9	22.4	41.6

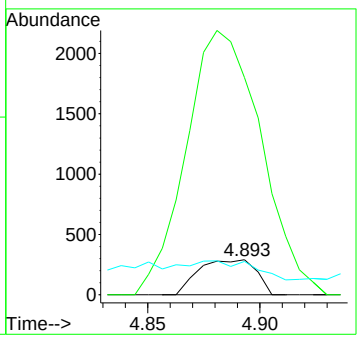


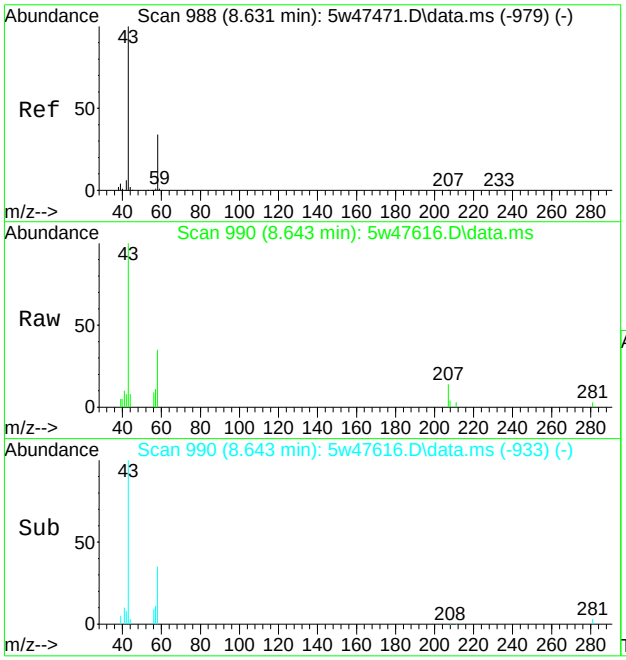


#12
n-Butane
Concen: 0.19 ppb(v)
RT: 4.893 min Scan# 377
Delta R.T. -0.006 min
Lab File: 5w47616.D
Acq: 27 Jan 2022 7:57 pm

Tgt Ion: 58 Resp: 519

Ion	Ratio	Lower	Upper
58	100		
43	618.6	547.0	1015.8
44	94.8	18.8	35.0#

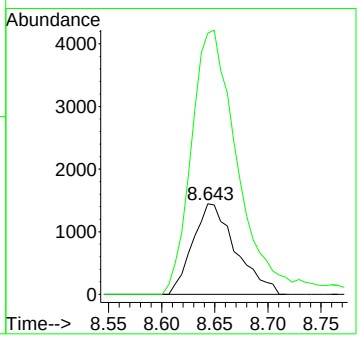


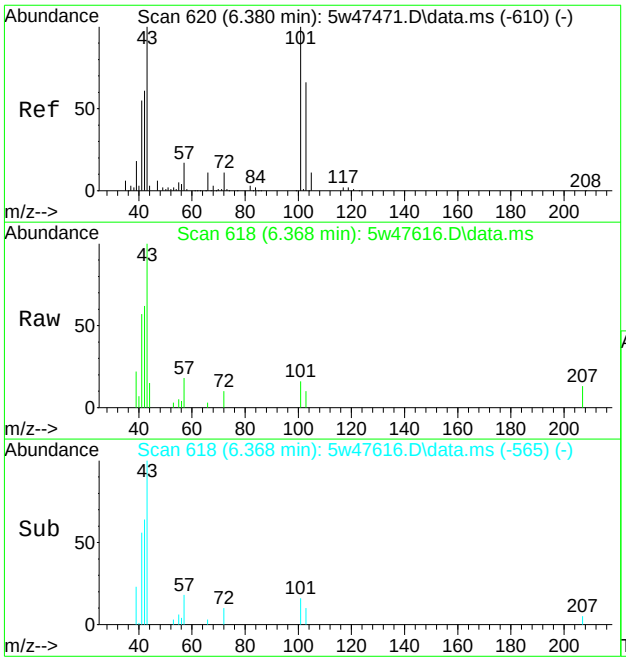


#22
Acetone
Concen: 0.43 ppb(v)
RT: 8.643 min Scan# 990
Delta R.T. 0.018 min
Lab File: 5w47616.D
Acq: 27 Jan 2022 7:57 pm

Tgt Ion: 58 Resp: 4082

Ion	Ratio	Lower	Upper
58	100		
43	288.4	210.1	390.1

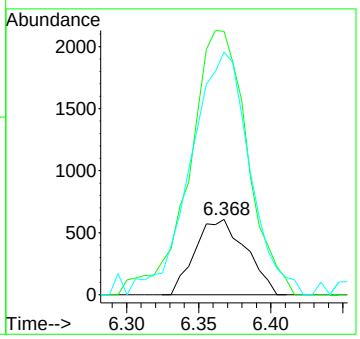


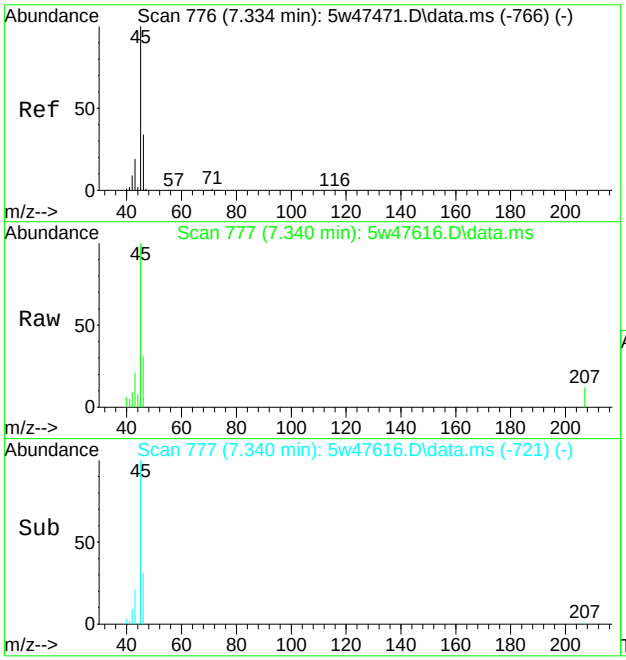


#23
Pentane
Concen: 0.27 ppb(v)
RT: 6.368 min Scan# 618
Delta R.T. -0.006 min
Lab File: 5w47616.D
Acq: 27 Jan 2022 7:57 pm

Tgt Ion: 57 Resp: 1489

Ion	Ratio	Lower	Upper
57	100		
42	348.8	245.1	455.1
41	321.3	221.8	412.0

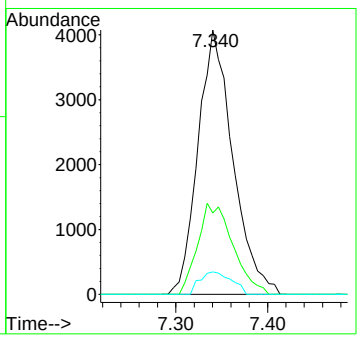


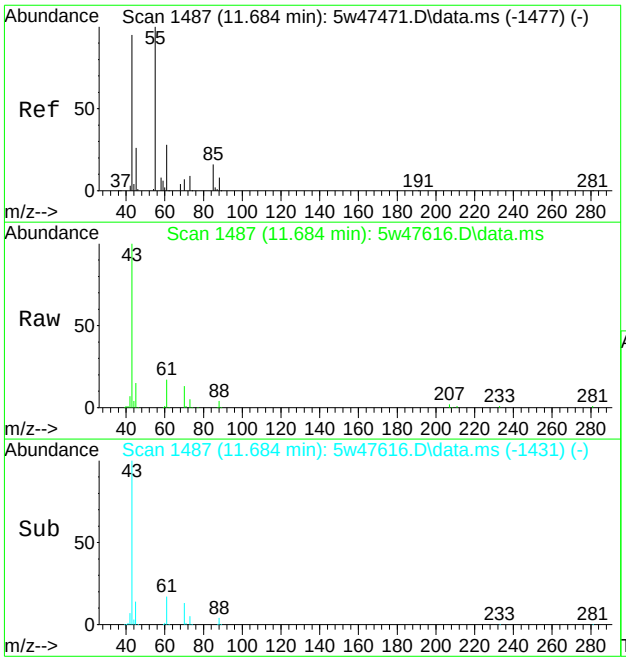


#30
Ethanol
Concen: 1.37 ppb(v)
RT: 7.340 min Scan# 777
Delta R.T. 0.012 min
Lab File: 5w47616.D
Acq: 27 Jan 2022 7:57 pm

Tgt Ion: 45 Resp: 10787

Ion	Ratio	Lower	Upper
45	100		
46	30.8	23.9	44.5
42	8.5	6.1	11.3

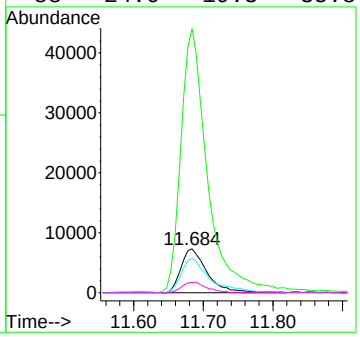


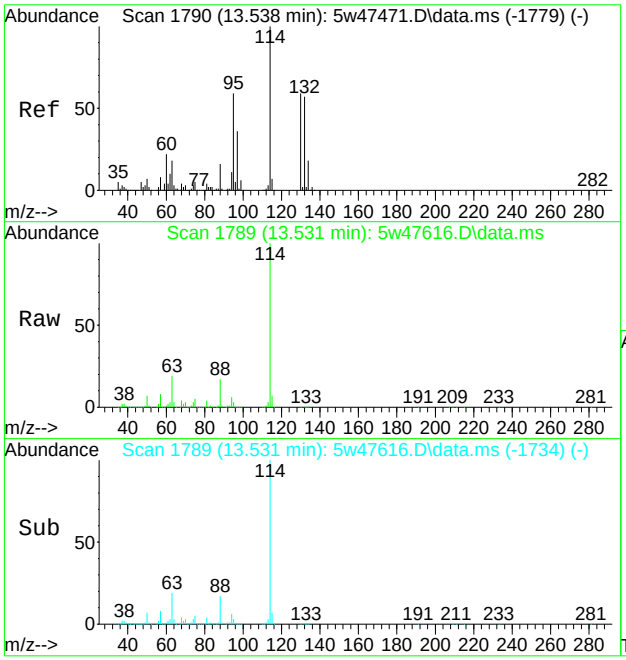


#42
Ethyl Acetate
Concen: 2.75 ppb(v)
RT: 11.684 min Scan# 1487
Delta R.T. 0.012 min
Lab File: 5w47616.D
Acq: 27 Jan 2022 7:57 pm

Tgt Ion: 61 Resp: 19246

Ion	Ratio	Lower	Upper
61	100		
43	601.0	421.6	783.0
70	77.1	57.0	105.8
88	24.0	19.3	35.8

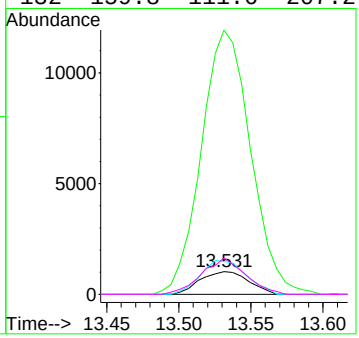


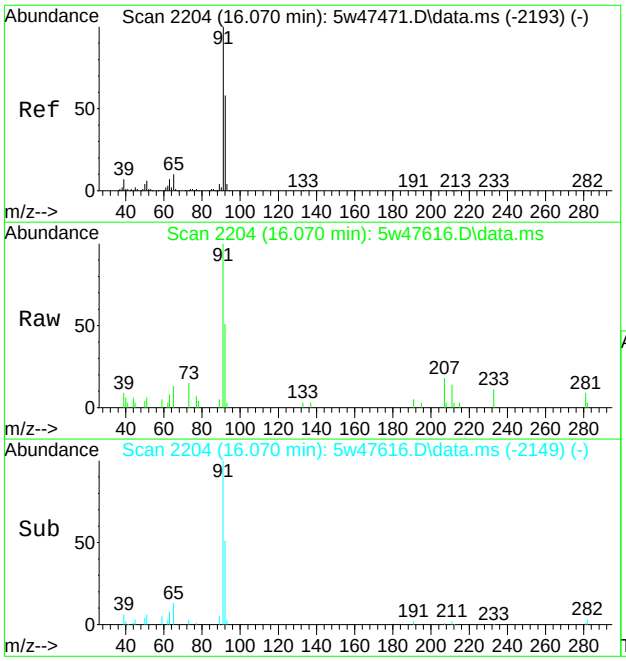


#56
Trichloroethene
Concen: 0.10 ppb(v)
RT: 13.531 min Scan# 1789
Delta R.T. 0.006 min
Lab File: 5w47616.D
Acq: 27 Jan 2022 7:57 pm

Tgt Ion: 97 Resp: 2426

Ion	Ratio	Lower	Upper
97	100		
95	1160.9	114.4	212.6#
130	144.8	115.1	213.8
132	159.8	111.6	207.2

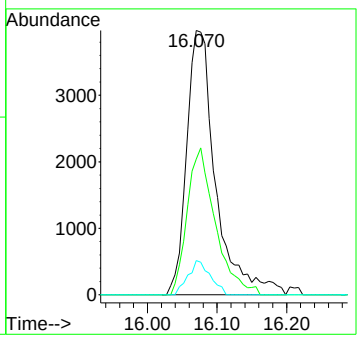


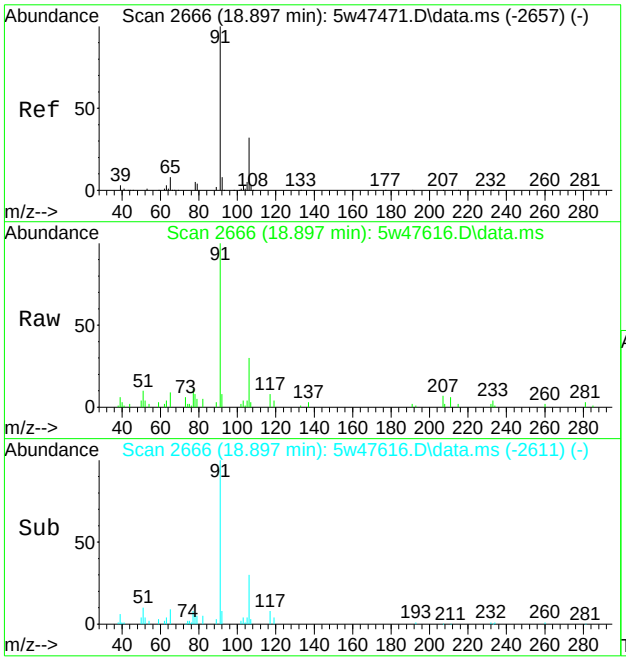


#66
Toluene
Concen: 0.12 ppb(v)
RT: 16.070 min Scan# 2204
Delta R.T. 0.006 min
Lab File: 5w47616.D
Acq: 27 Jan 2022 7:57 pm

Tgt Ion: 91 Resp: 11498

Ion	Ratio	Lower	Upper
91	100		
92	51.3	40.9	75.9
65	12.9	7.3	13.5

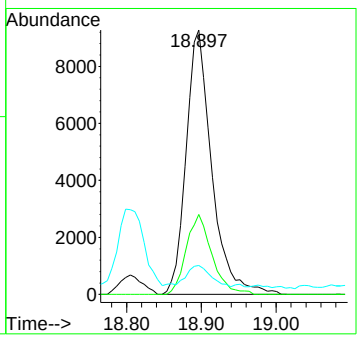


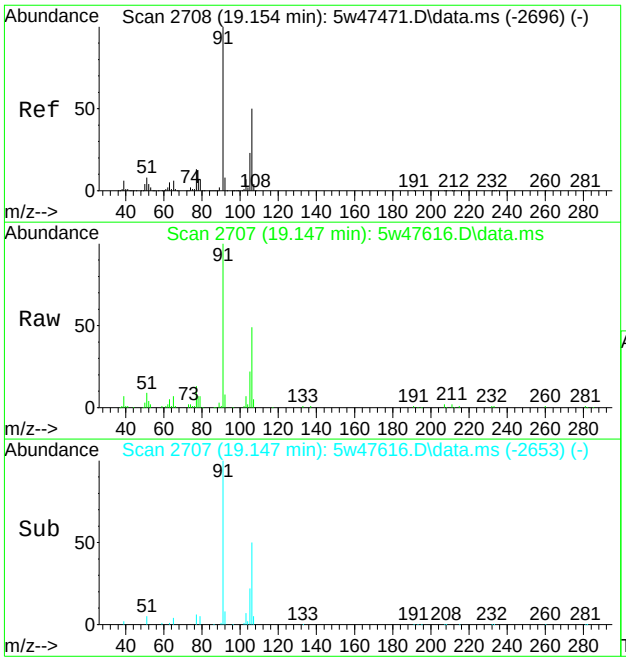


#78
Ethylbenzene
Concen: 0.19 ppb(v)
RT: 18.897 min Scan# 2666
Delta R.T. 0.006 min
Lab File: 5w47616.D
Acq: 27 Jan 2022 7:57 pm

Tgt Ion: 91 Resp: 22091

Ion	Ratio	Lower	Upper
91	100		
106	30.2	22.5	41.7
77	11.0	6.1	11.3

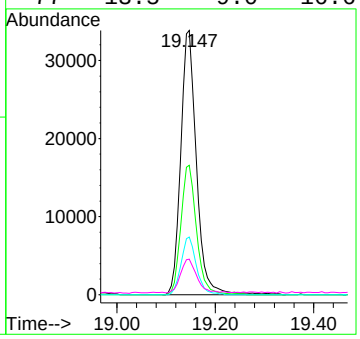


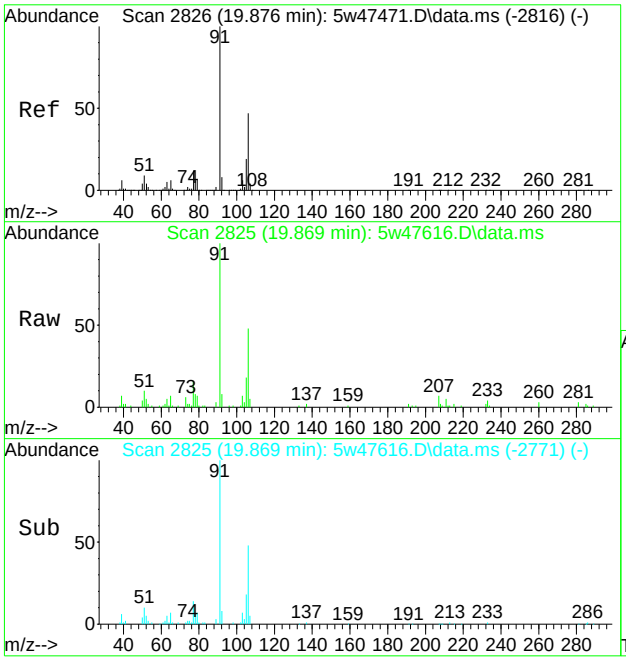


#79
m,p-Xylene
Concen: 0.88 ppb(v)
RT: 19.147 min Scan# 2707
Delta R.T. -0.000 min
Lab File: 5w47616.D
Acq: 27 Jan 2022 7:57 pm

Tgt Ion: 91 Resp: 75010

Ion	Ratio	Lower	Upper
91	100		
106	49.0	35.3	65.5
105	21.8	15.9	29.5
77	13.5	9.0	16.6

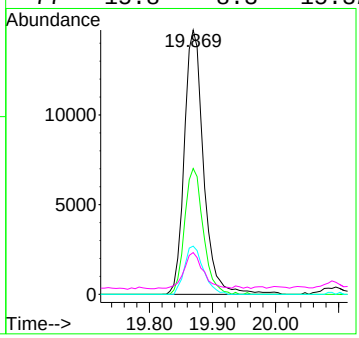




#82
o-Xylene
Concen: 0.35 ppb(v)
RT: 19.869 min Scan# 2825
Delta R.T. -0.000 min
Lab File: 5w47616.D
Acq: 27 Jan 2022 7:57 pm

Tgt Ion: 91 Resp: 31381

Ion	Ratio	Lower	Upper
91	100		
106	47.6	33.2	61.7
105	18.3	13.5	25.1
77	15.8	8.3	15.3#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57484.D
Acq On : 28 Jan 2022 5:00 pm
Operator : thomash
Sample : jd38683-5dup
Misc : MS56382,V2w2558,400,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 31 16:13:43 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

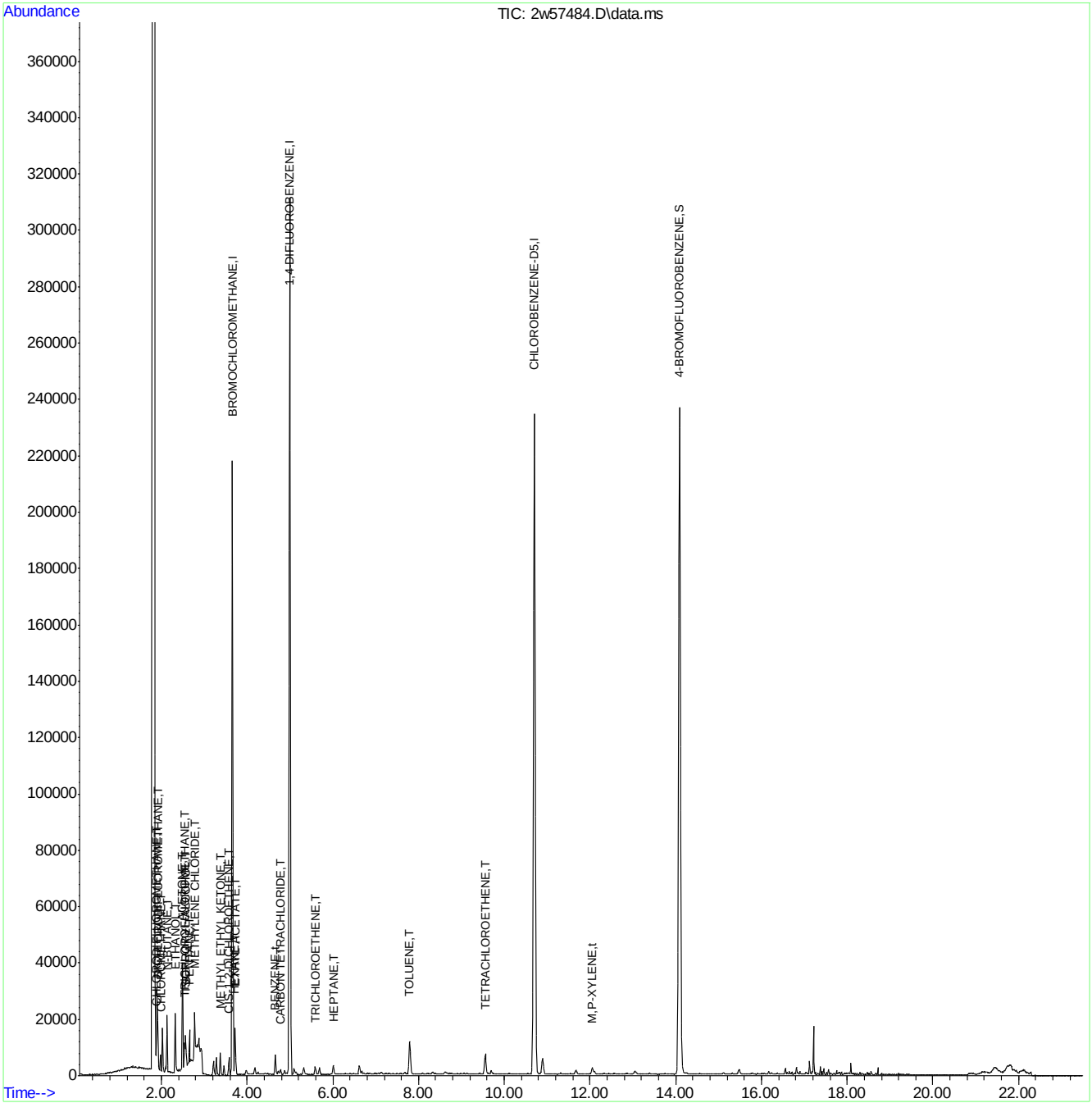
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.657	128	48414	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.994	114	261336	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	232651	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.087	95	158033	10.17	PPBV		0.00
Target Compounds							Qvalue
4) CHLORODIFLUOROMETHANE	1.882	67	549	0.31	PPBV		96
6) DICHLORODIFLUOROMETHANE	1.920	85	8890	0.51	PPBV		98
10) CHLOROMETHANE	1.982	52	1054	0.63	PPBV		98
13) N-BUTANE	2.133	43	12058	1.40	PPBV		96
21) TRICHLOROFLUOROMETHANE	2.541	101	4682	0.31	PPBV		99
22) ISOPROPYL ALCOHOL	2.563	45	10527	1.16	PPBV	#	96
23) ACETONE	2.490	58	9177	2.87	PPBV		86
24) PENTANE	2.654	42	2623	0.58	PPBV		93
28) ETHANOL	2.322	45	17110	6.64	PPBV		99
31) METHYLENE CHLORIDE	2.776	84	4031	0.60	PPBV		91
38) HEXANE	3.711	57	2814	0.25	PPBV	#	85
41) METHYL ETHYL KETONE	3.374	72	1983	0.52	PPBV		80
42) CIS-1,2-DICHLOROETHENE	3.576	96	2356	0.29	PPBV		95
44) ETHYL ACETATE	3.721	61	1572	0.77	PPBV	#	9
49) CARBON TETRACHLORIDE	4.772	117	1081	0.08	PPBV		98
51) BENZENE	4.657	78	6051	0.25	PPBV		100
55) TRICHLOROETHENE	5.592	95	1173	0.11	PPBV		96
62) HEPTANE	6.013	43	1480	0.13	PPBV		87
66) TOLUENE	7.788	91	13049	0.44	PPBV		99
72) TETRACHLOROETHENE	9.560	164	2658	0.24	PPBV		95
80) M,P-XYLENE	12.049	91	3849	0.14	PPBV		98

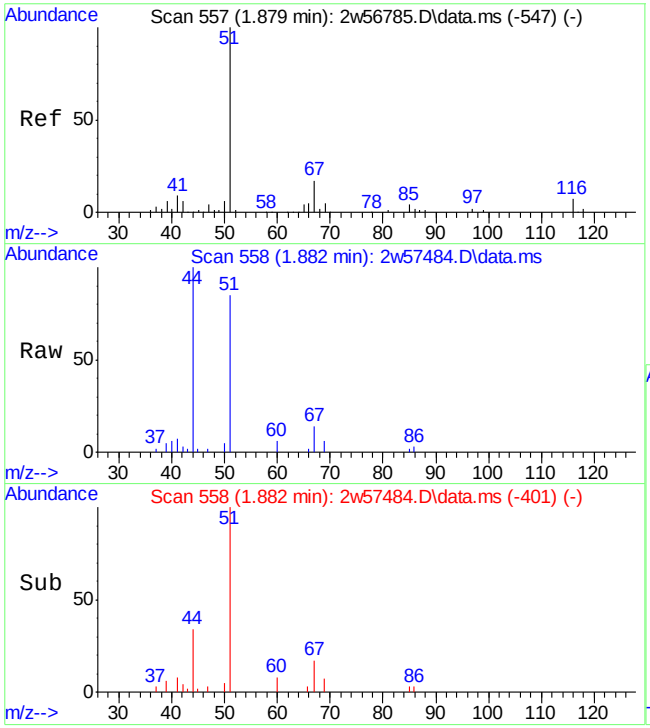
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57484.D
Acq On : 28 Jan 2022 5:00 pm
Operator : thomash
Sample : jd38683-5dup
Misc : MS56382,V2w2558,400,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 31 16:13:43 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

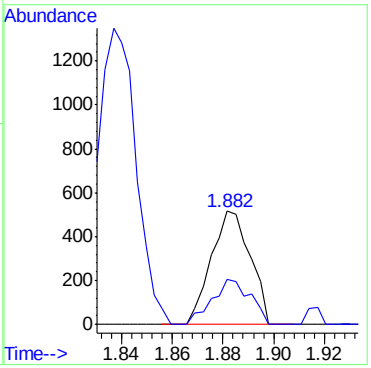


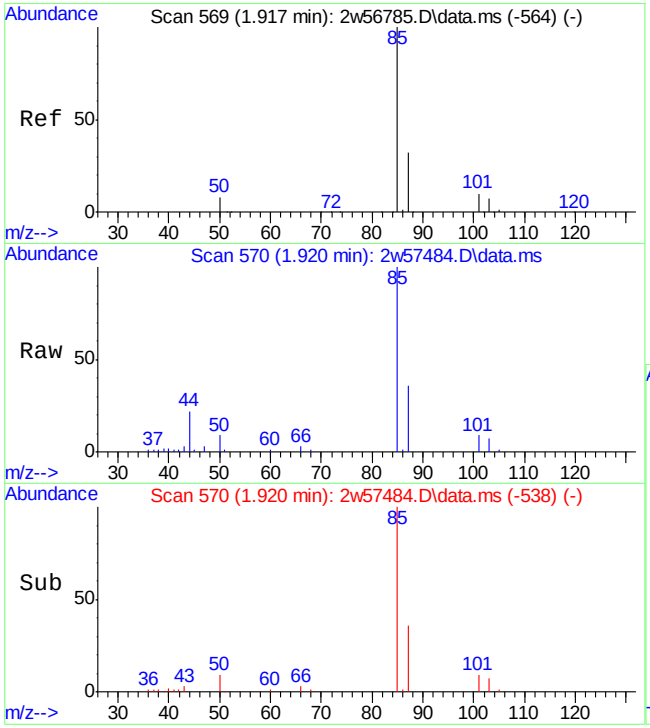


#4
CHLORODIFLUOROMETHANE
Concen: 0.31 PPBV
RT: 1.882 min Scan# 558
Delta R.T. 0.003 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 67 Resp: 549

Ion	Ratio	Lower	Upper
67	100		
69	38.4	28.8	43.2

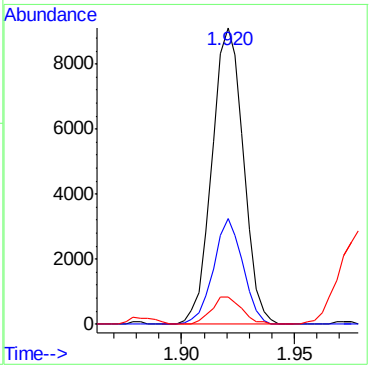


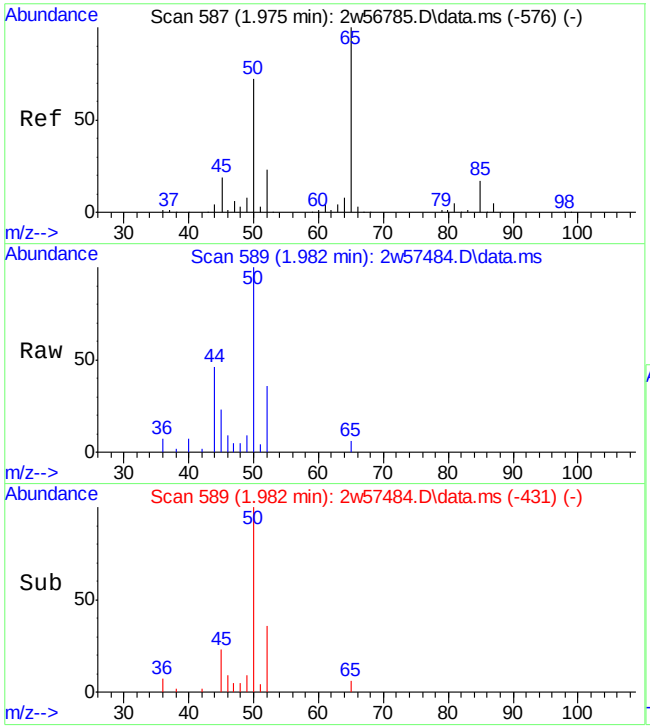


#6
DICHLORODIFLUOROMETHANE
Concen: 0.51 PPBV
RT: 1.920 min Scan# 570
Delta R.T. 0.003 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 85 Resp: 8890

Ion	Ratio	Lower	Upper
85	100		
87	33.4	25.8	38.6
50	8.6	7.4	11.2

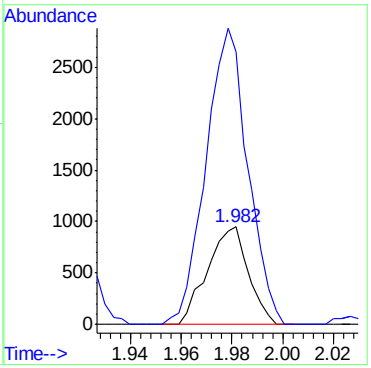


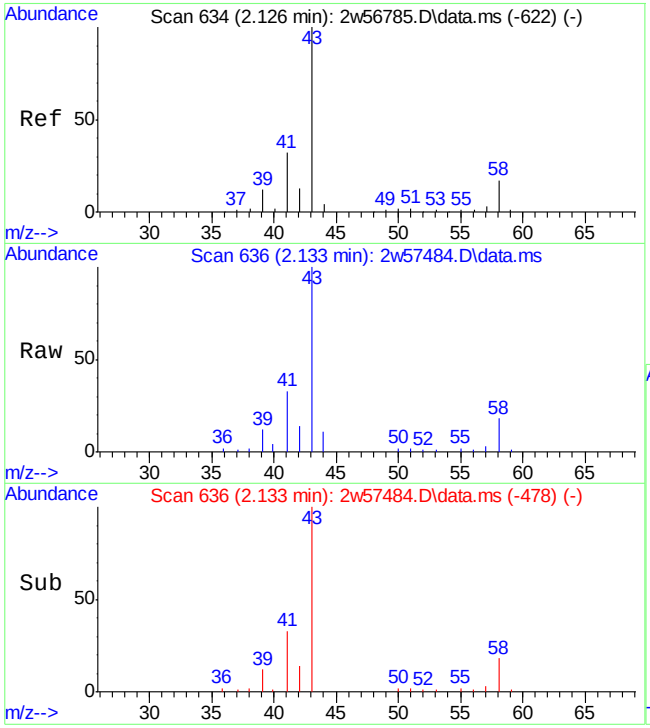


#10
CHLOROMETHANE
Concen: 0.63 PPBV
RT: 1.982 min Scan# 589
Delta R.T. 0.006 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 52 Resp: 1054

Ion	Ratio	Lower	Upper
52	100		
50	313.8	248.2	372.2

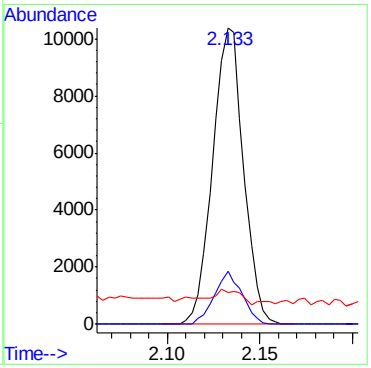


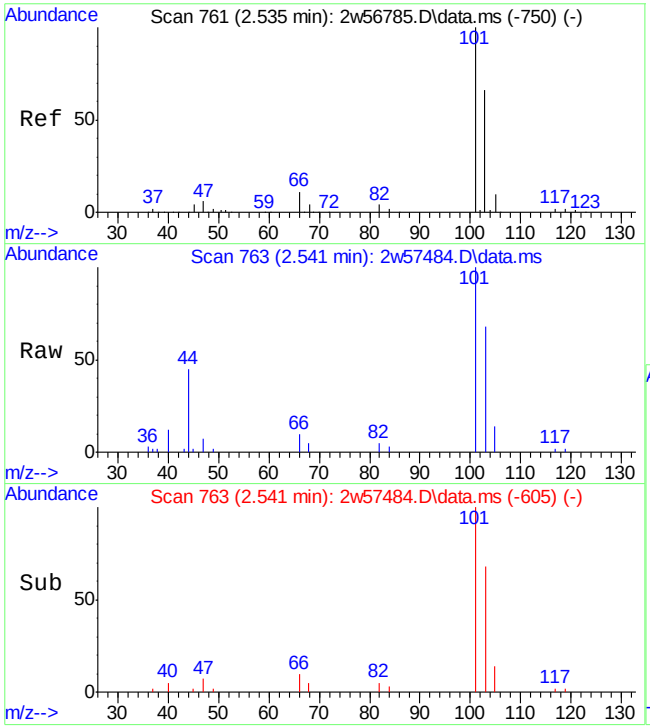


#13
N-BUTANE
Concen: 1.40 PPBV
RT: 2.133 min Scan# 636
Delta R.T. 0.006 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 43 Resp: 12058

Ion	Ratio	Lower	Upper
43	100		
58	15.8	14.2	21.2
44	4.7	4.2	6.4

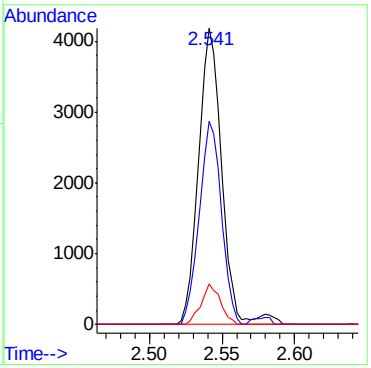


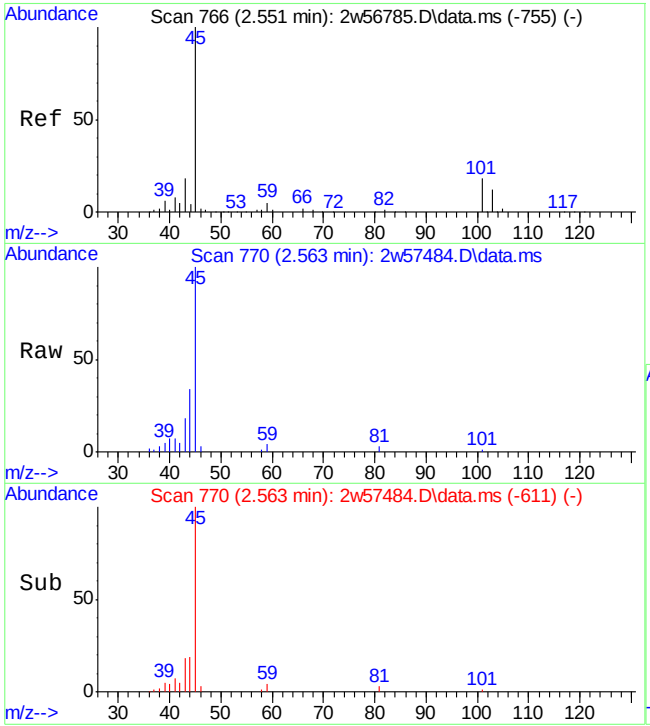


#21
TRICHLOROFLUOROMETHANE
Concen: 0.31 PPBV
RT: 2.541 min Scan# 763
Delta R.T. 0.006 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion:101 Resp: 4682

Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.8	77.6
105	11.3	8.4	12.6

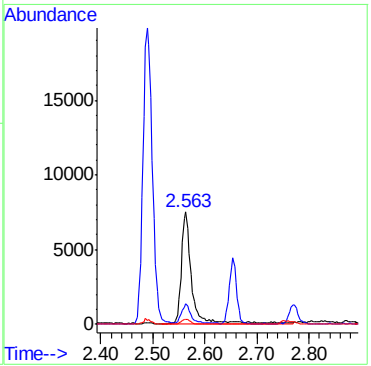


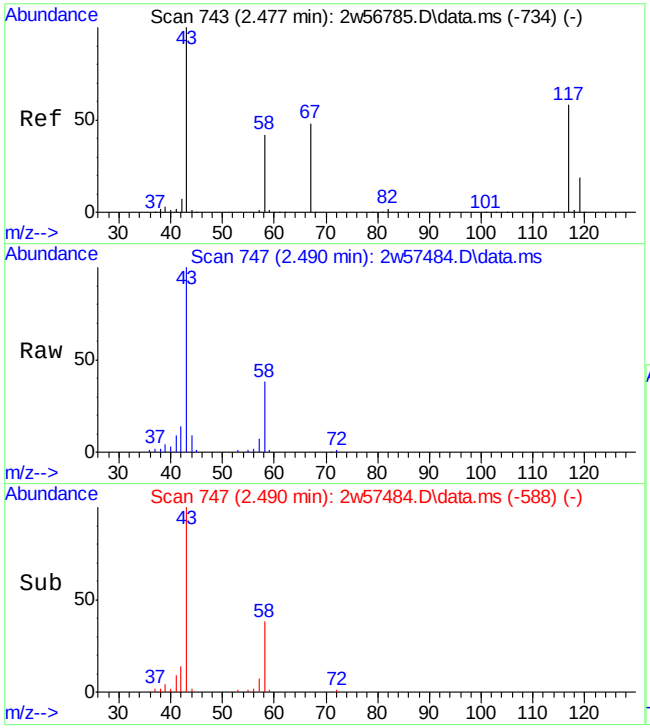


#22
ISOPROPYL ALCOHOL
Concen: 1.16 PPBV
RT: 2.563 min Scan# 770
Delta R.T. 0.012 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 45 Resp: 10527

Ion	Ratio	Lower	Upper
45	100		
43	17.6	15.5	23.3
59	3.3	4.1	6.1#

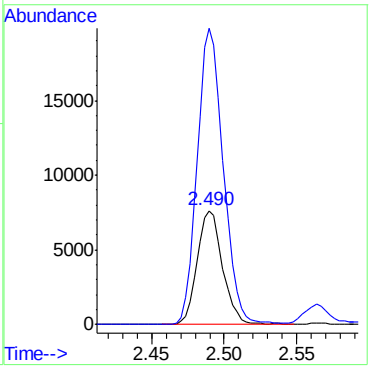


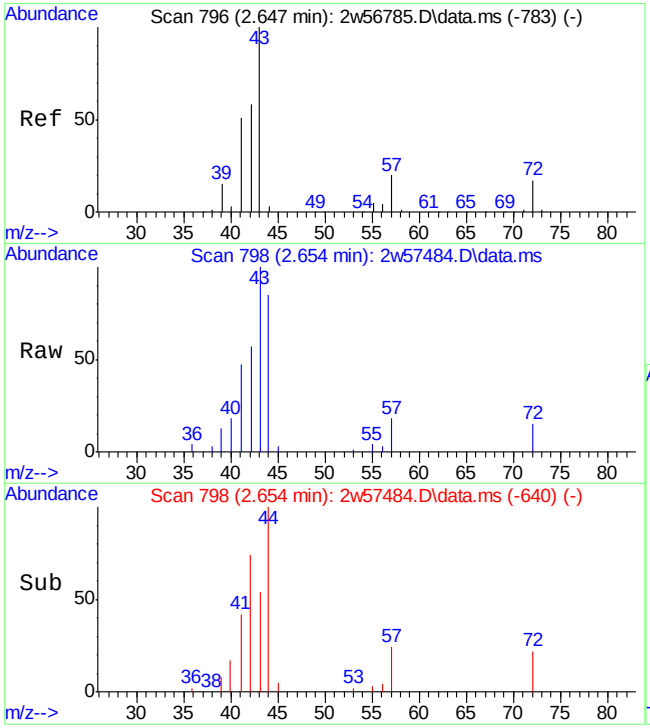


#23
ACETONE
Concen: 2.87 PPBV
RT: 2.490 min Scan# 747
Delta R.T. 0.013 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 58 Resp: 9177

Ion	Ratio	Lower	Upper
58	100		
43	269.7	195.9	293.9

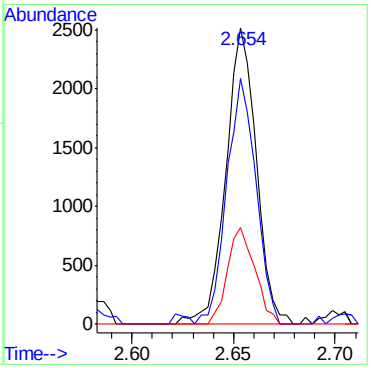


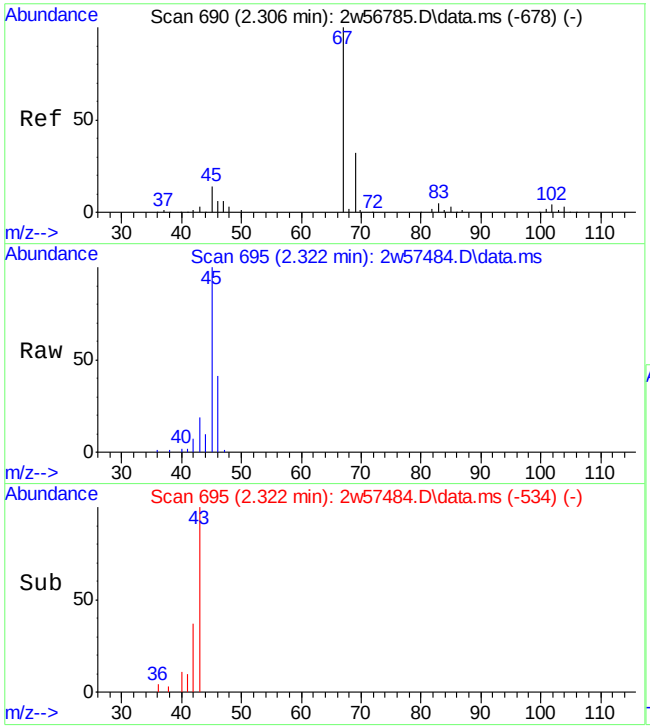


#24
PENTANE
Concen: 0.58 PPBV
RT: 2.654 min Scan# 798
Delta R.T. 0.006 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 42 Resp: 2623

Ion	Ratio	Lower	Upper
42	100		
41	81.3	69.5	104.3
57	29.5	27.4	41.0

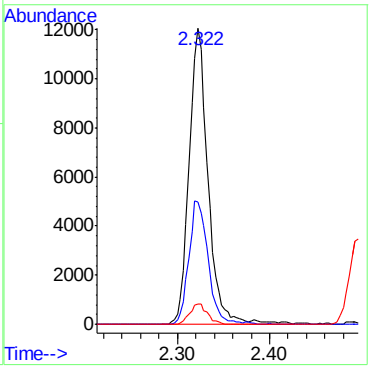


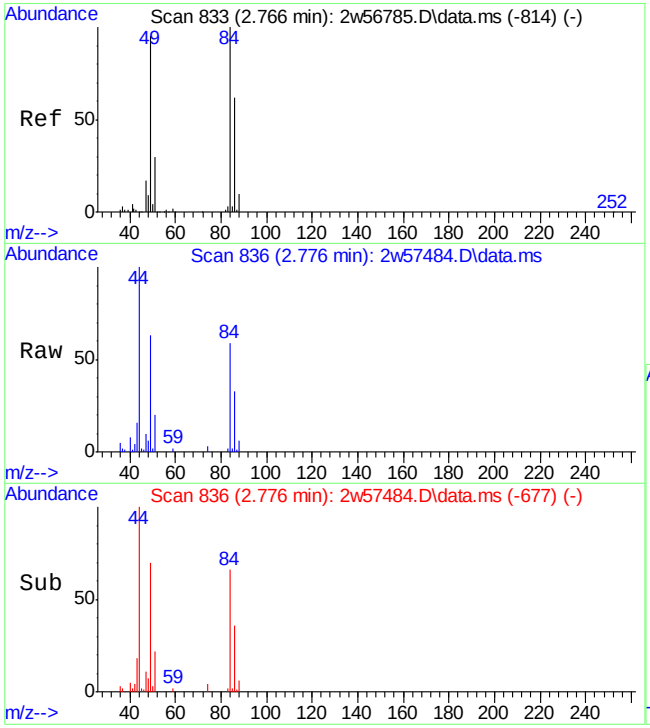


#28
ETHANOL
Concen: 6.64 PPBV
RT: 2.322 min Scan# 695
Delta R.T. 0.016 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 45 Resp: 17110

Ion	Ratio	Lower	Upper
45	100		
46	42.7	34.1	51.1
42	6.5	6.1	9.1

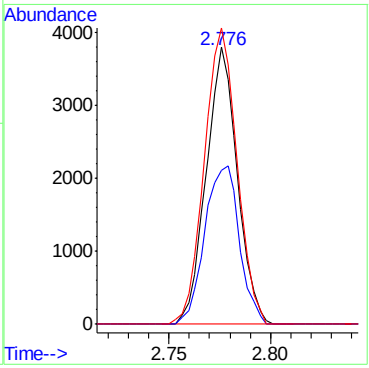


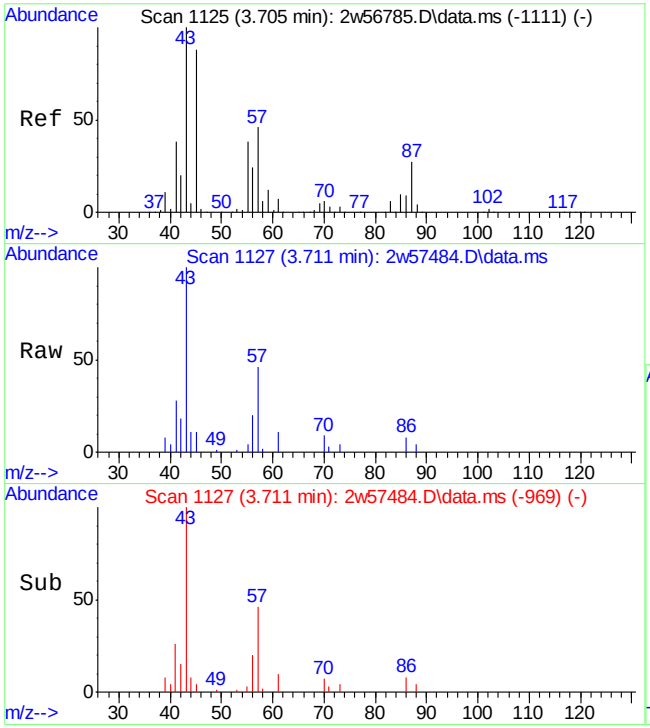


#31
METHYLENE CHLORIDE
Concen: 0.60 PPBV
RT: 2.776 min Scan# 836
Delta R.T. 0.010 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 84 Resp: 4031

Ion	Ratio	Lower	Upper
84	100		
86	63.3	50.9	76.3
49	111.9	78.6	118.0

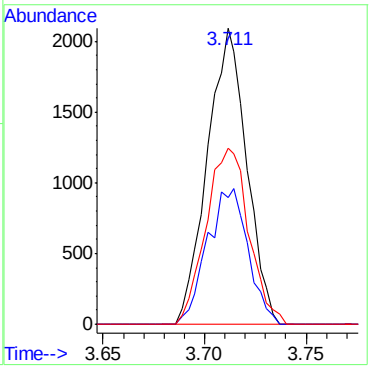


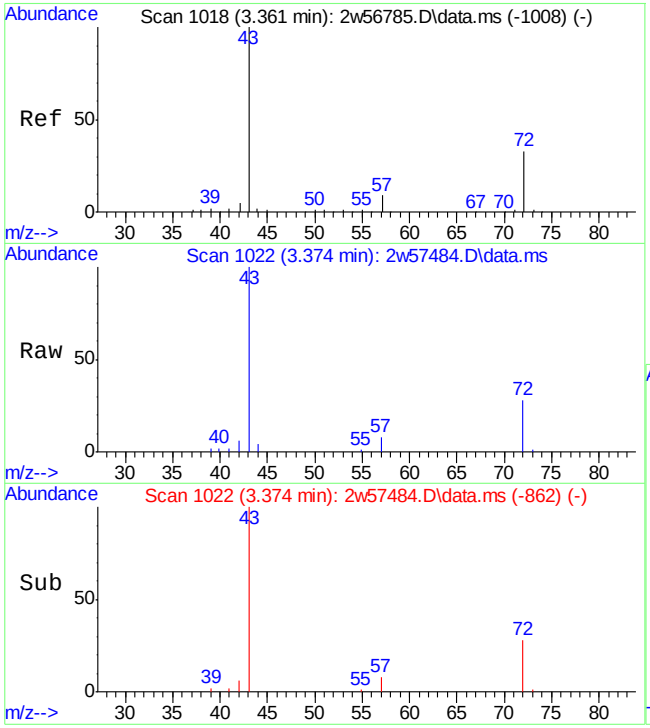


#38
HEXANE
Concen: 0.25 PPBV
RT: 3.711 min Scan# 1127
Delta R.T. 0.006 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 57 Resp: 2814

Ion	Ratio	Lower	Upper
57	100		
56	47.5	42.0	63.0
41	64.7	66.2	99.2#

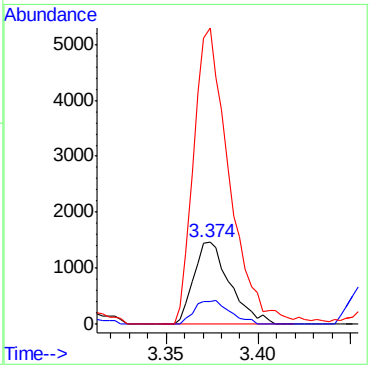


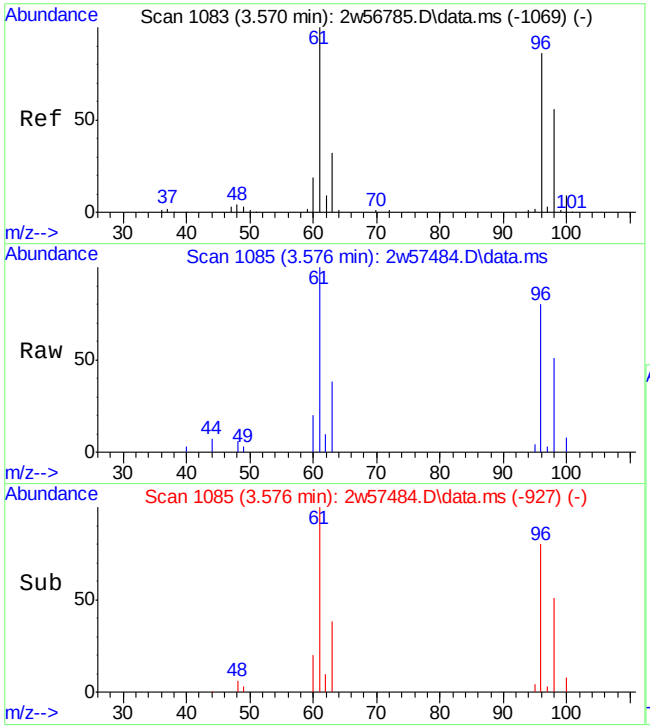


#41
METHYL ETHYL KETONE
Concen: 0.52 PPBV
RT: 3.374 min Scan# 1022
Delta R.T. 0.013 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 72 Resp: 1983

Ion	Ratio	Lower	Upper
72	100		
57	28.2	22.2	33.4
43	360.5	252.6	378.8

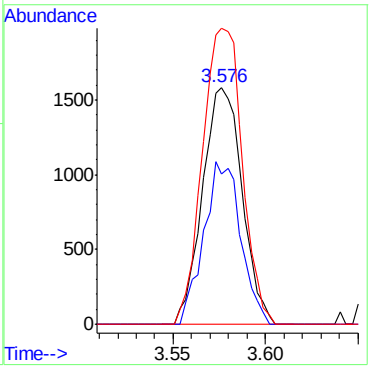


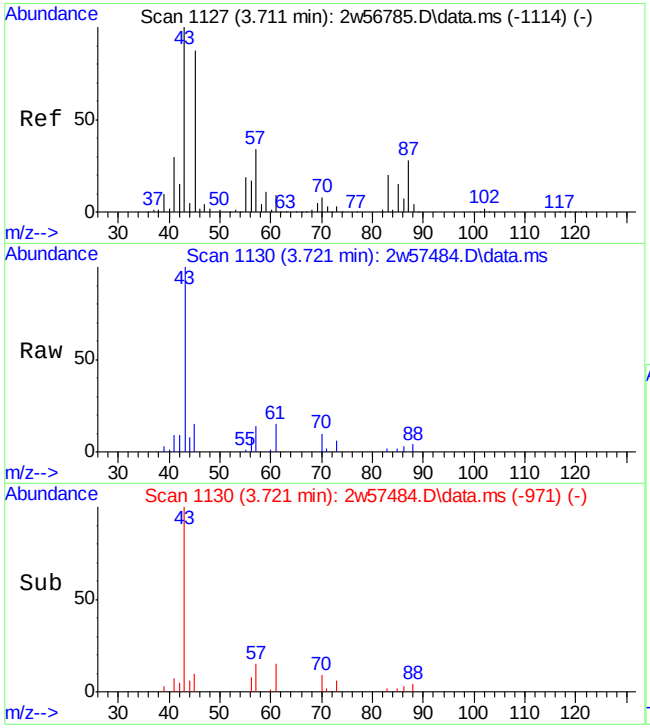


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.29 PPBV
RT: 3.576 min Scan# 1085
Delta R.T. 0.006 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 96 Resp: 2356

Ion	Ratio	Lower	Upper
96	100		
98	63.8	51.1	76.7
61	126.1	93.9	140.9

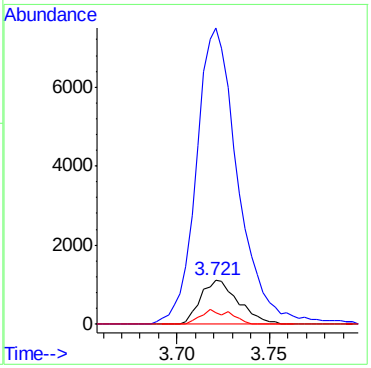


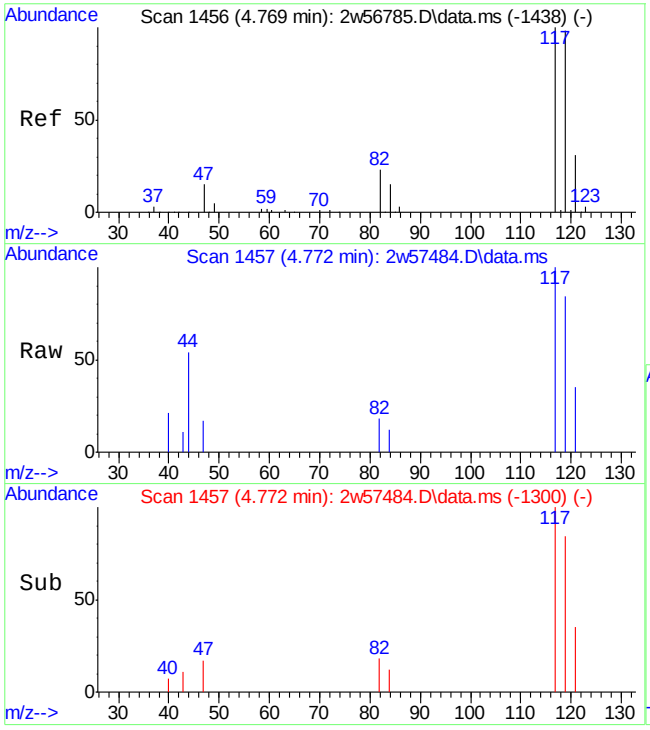


#44
ETHYL ACETATE
Concen: 0.77 PPBV
RT: 3.721 min Scan# 1130
Delta R.T. 0.010 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 61 Resp: 1572

Ion	Ratio	Lower	Upper
61	100		
43	750.8	986.2	1479.2#
88	26.1	38.8	58.2#

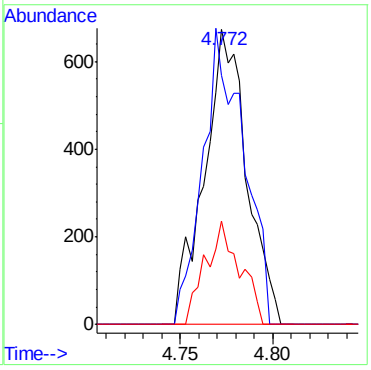


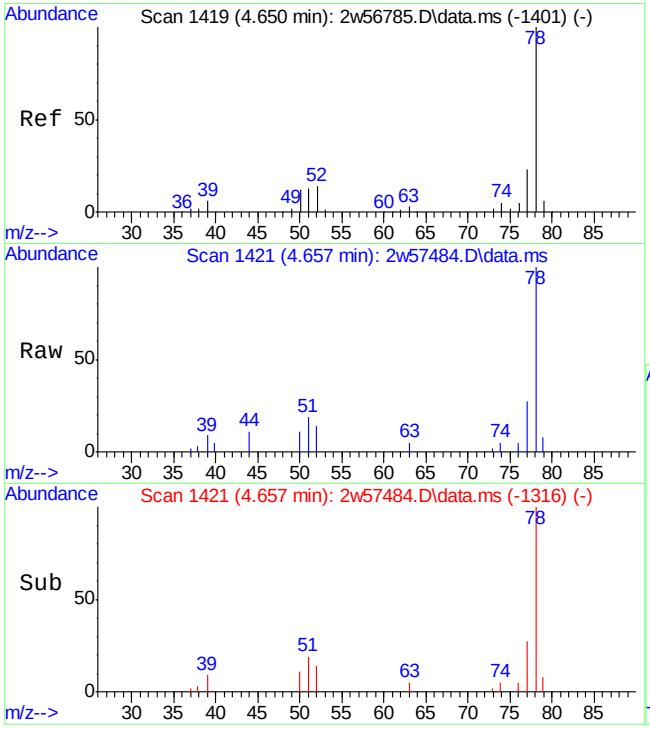


#49
CARBON TETRACHLORIDE
Concen: 0.08 PPBV
RT: 4.772 min Scan# 1457
Delta R.T. 0.003 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion:117 Resp: 1081

Ion	Ratio	Lower	Upper
117	100		
119	96.4	77.5	116.3
121	28.1	24.9	37.3

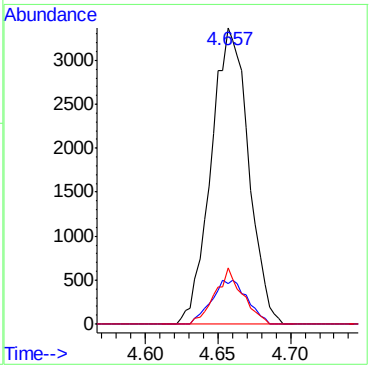


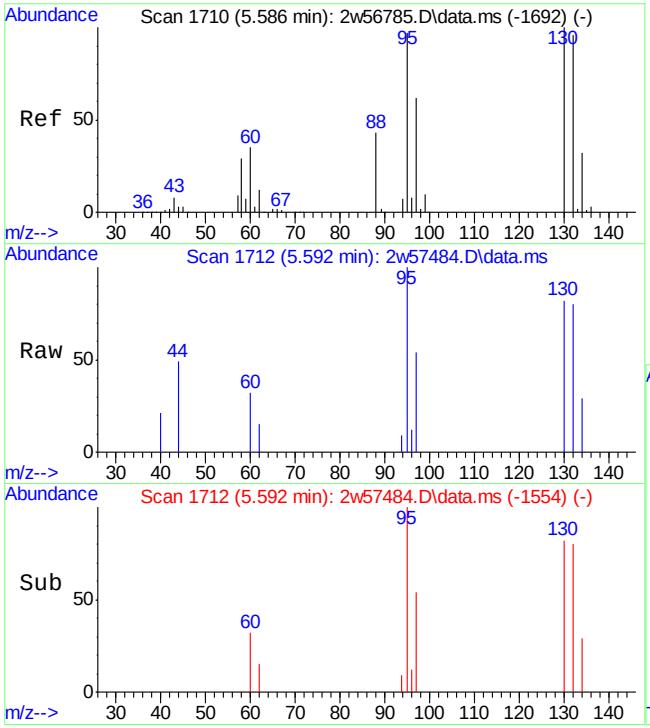


#51
BENZENE
Concen: 0.25 PPBV
RT: 4.657 min Scan# 1421
Delta R.T. 0.006 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 78 Resp: 6051

Ion	Ratio	Lower	Upper
78	100		
52	14.1	0.0	34.0
51	13.8	0.0	33.5

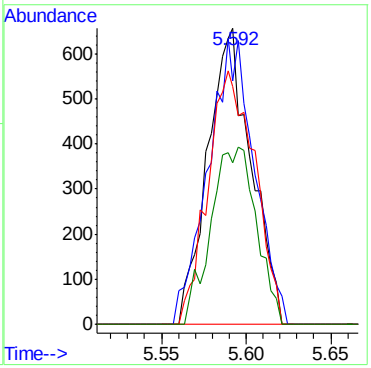


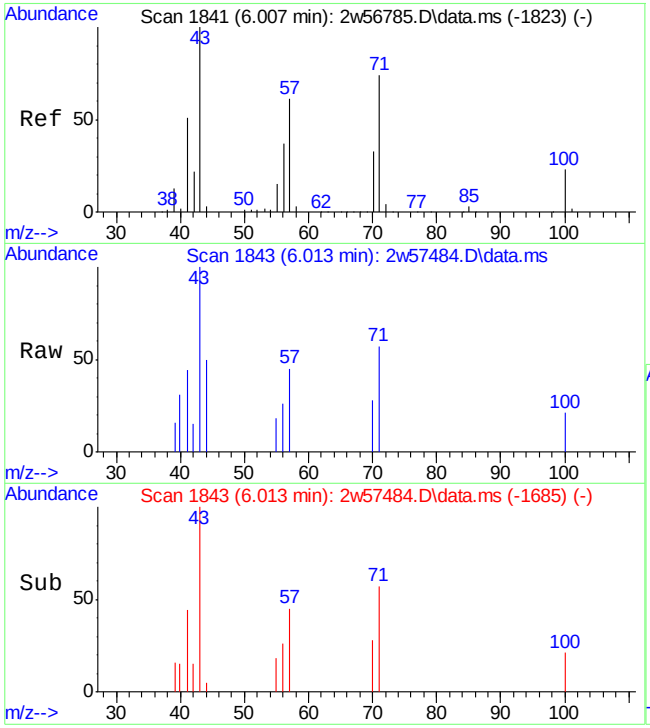


#55
TRICHLOROETHENE
Concen: 0.11 PPBV
RT: 5.592 min Scan# 1712
Delta R.T. 0.006 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 95 Resp: 1173

Ion	Ratio	Lower	Upper
95	100		
130	102.6	83.2	124.8
132	91.7	79.8	119.6
97	62.7	51.3	76.9

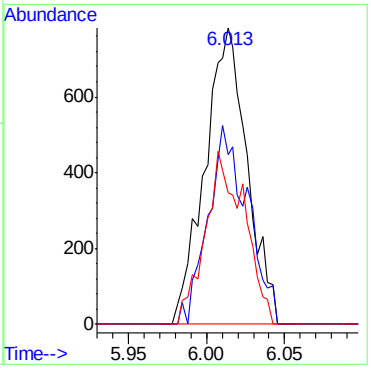


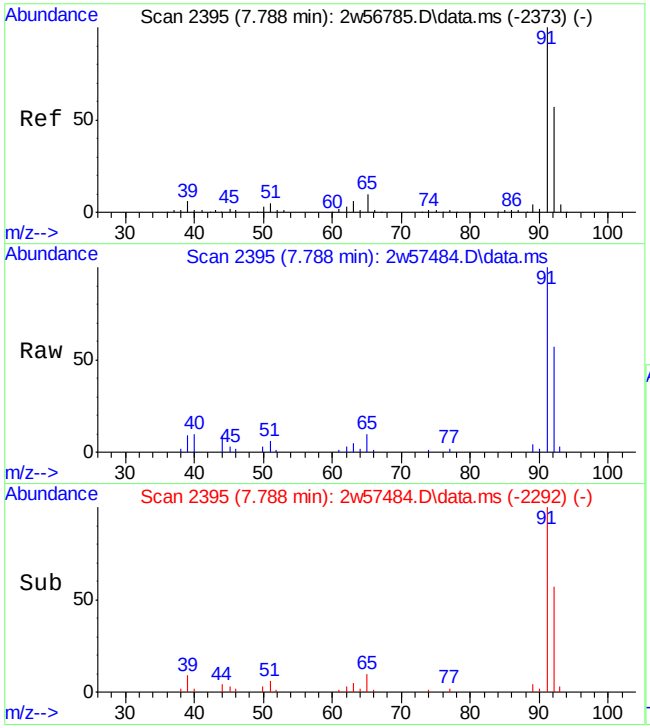


#62
HEPTANE
Concen: 0.13 PPBV
RT: 6.013 min Scan# 1843
Delta R.T. 0.006 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 43 Resp: 1480

Ion	Ratio	Lower	Upper
43	100		
71	62.8	60.6	90.8
57	54.1	50.2	75.4

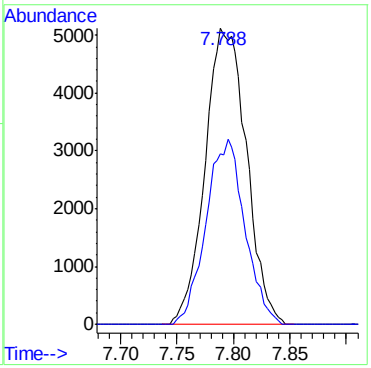


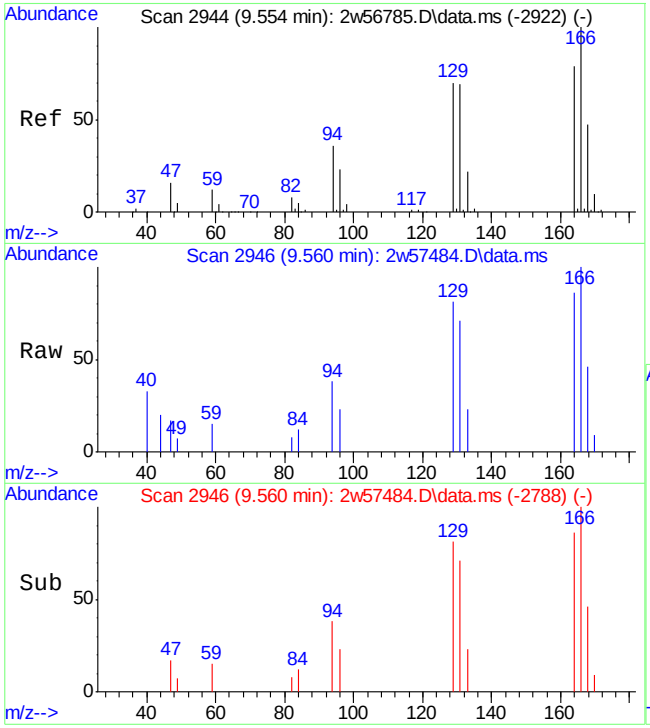


#66
TOLUENE
Concen: 0.44 PPBV
RT: 7.788 min Scan# 2395
Delta R.T. 0.000 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 91 Resp: 13049

Ion	Ratio	Lower	Upper
91	100		
92	58.5	38.9	78.9

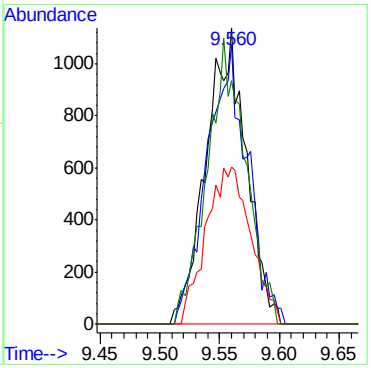


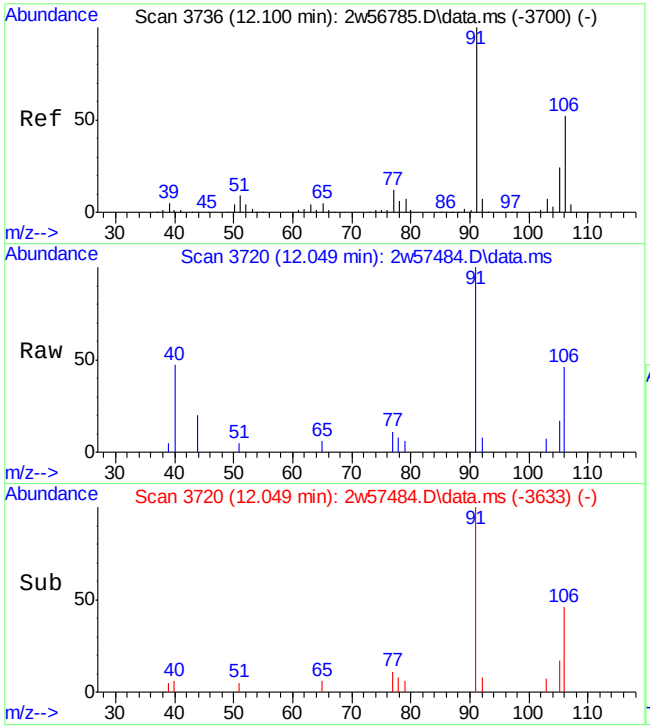


#72
TETRACHLOROETHENE
Concen: 0.24 PPBV
RT: 9.560 min Scan# 2946
Delta R.T. 0.006 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion:164 Resp: 2658

Ion	Ratio	Lower	Upper
164	100		
129	95.6	72.0	108.0
168	59.4	48.6	72.8
131	92.7	69.0	103.6

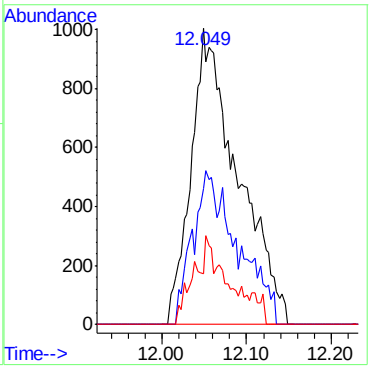




#80
M,P-XYLENE
Concen: 0.14 PPBV
RT: 12.049 min Scan# 3720
Delta R.T. -0.051 min
Lab File: 2w57484.D
Acq: 28 Jan 2022 5:00 pm

Tgt Ion: 91 Resp: 3849

Ion	Ratio	Lower	Upper
91	100		
106	49.9	31.5	71.5
105	22.9	3.6	43.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56868.D
Acq On : 23 Dec 2021 12:56 am
Operator : thomash
Sample : scc(a1302),cp11485
Misc : MS55527,V2w2532,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 23 08:43:26 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

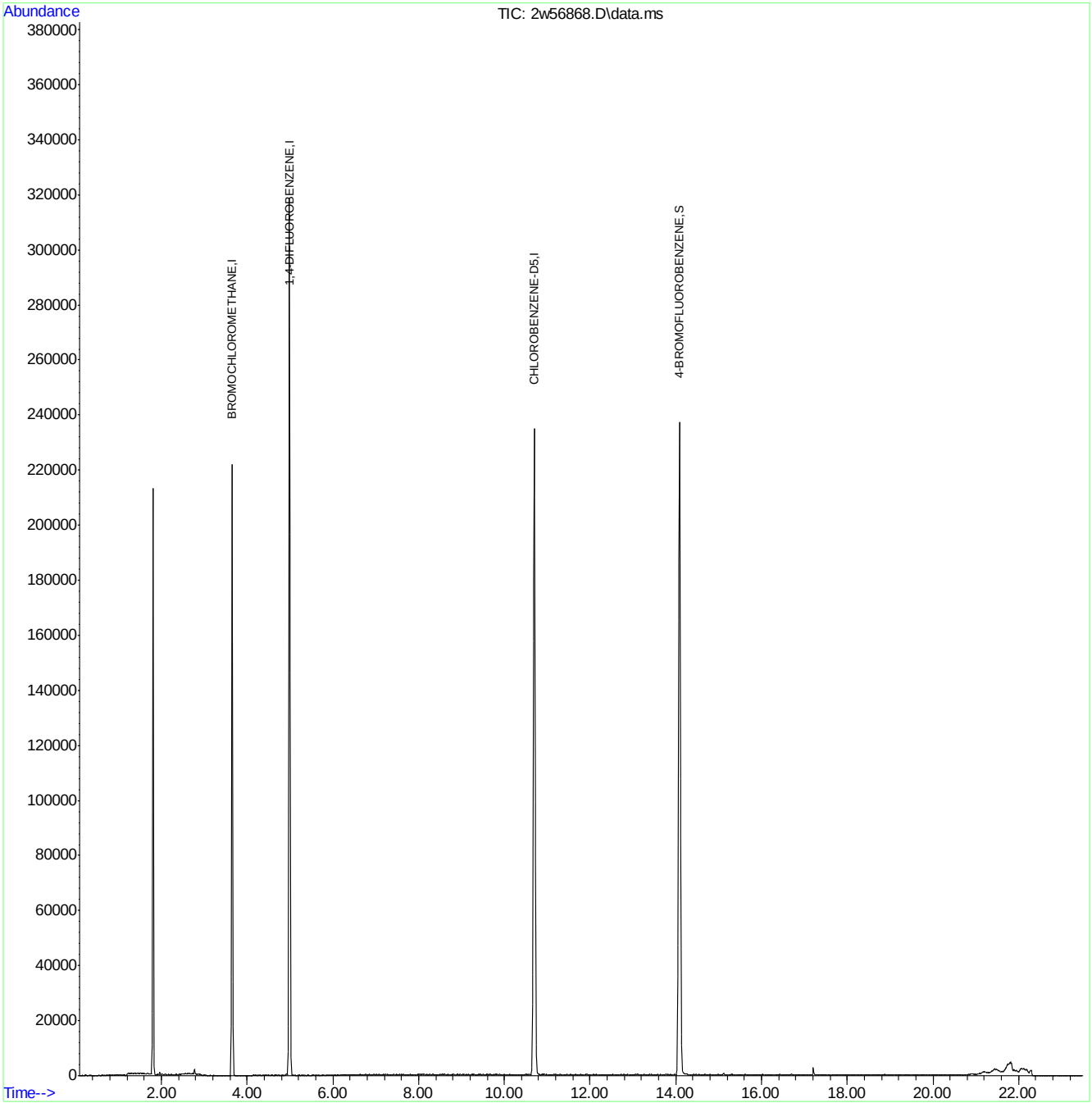
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.650	128	56164	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.988	114	285402	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.698	117	245640	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.084	95	159342	9.71	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56868.D
Acq On : 23 Dec 2021 12:56 am
Operator : thomash
Sample : scc(a1302),cp11485
Misc : MS55527,V2w2532,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 23 08:43:26 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56908.D
Acq On : 27 Dec 2021 12:56 pm
Operator : thomash
Sample : scc(a473),cp11487
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 28 14:08:48 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

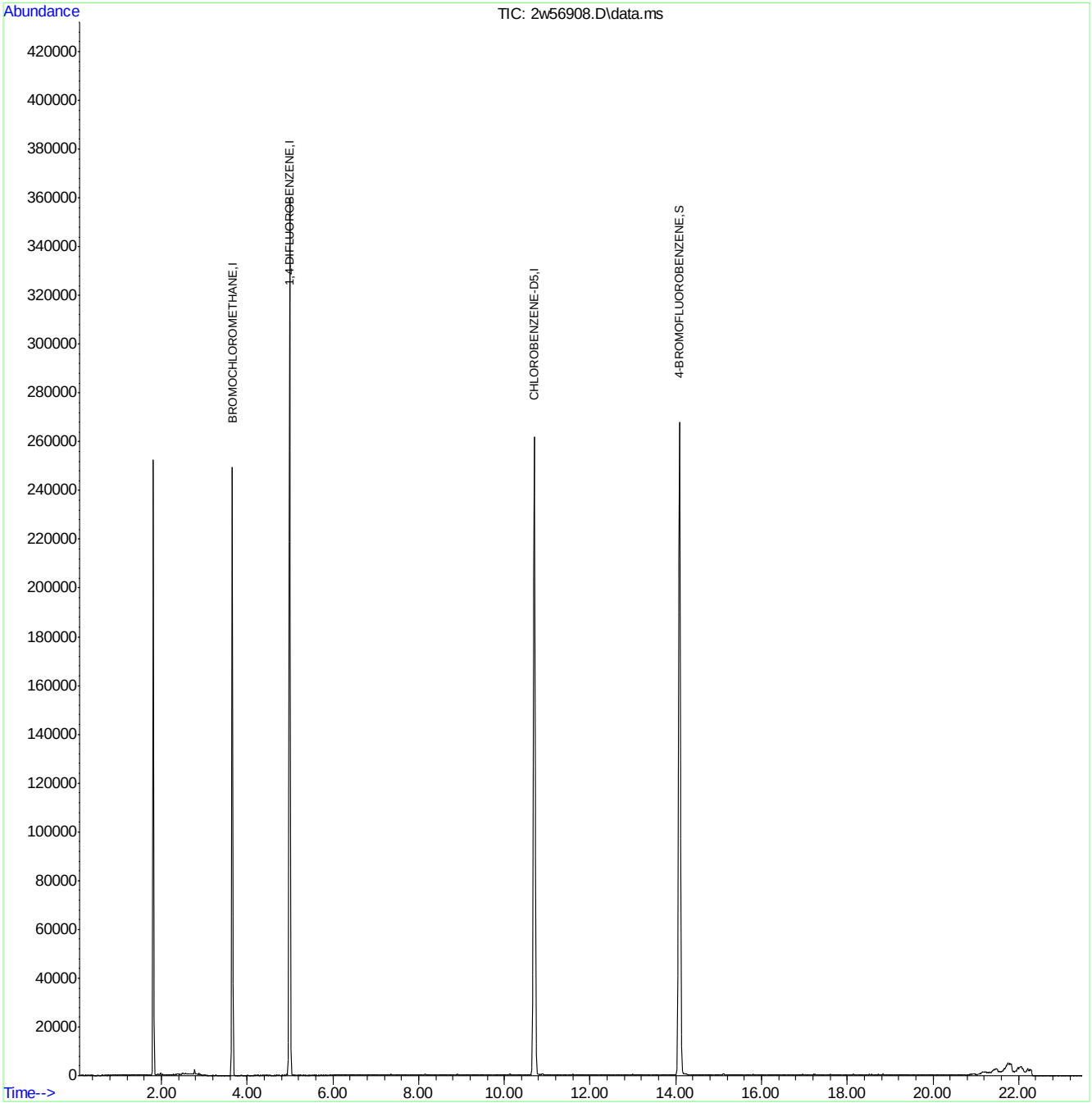
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.653	128	63064	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.991	114	322140	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.695	117	276867	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.087	95	180714	9.77	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56908.D
Acq On : 27 Dec 2021 12:56 pm
Operator : thomash
Sample : scc(a473),cp11487
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 28 14:08:48 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56955.D
Acq On : 29 Dec 2021 12:33 am
Operator : thomash
Sample : scc(a1329),cp11486
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 29 08:38:19 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

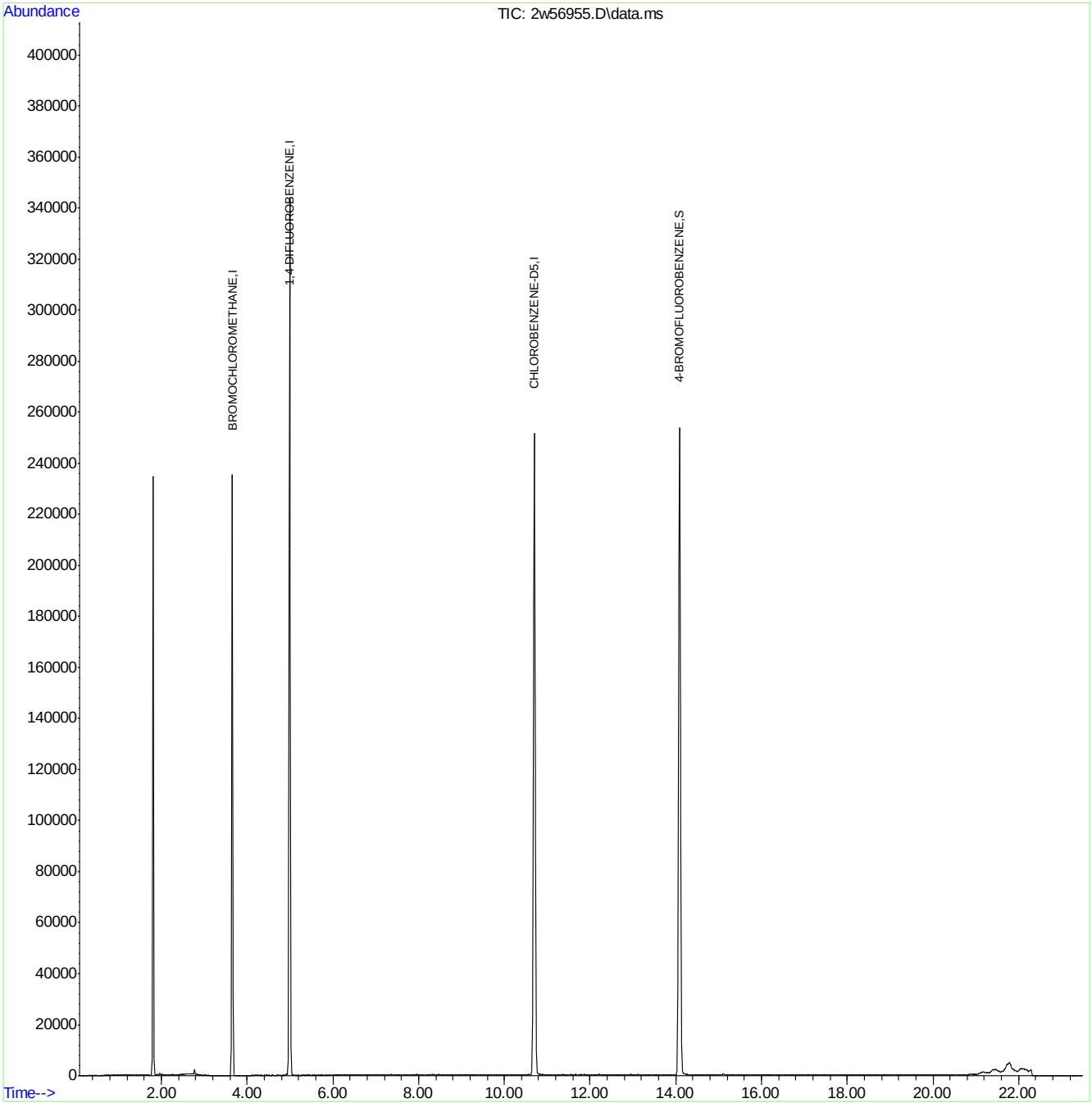
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.653	128	60920	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.991	114	309536	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.701	117	264989	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.090	95	171246	9.67	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56955.D
Acq On : 29 Dec 2021 12:33 am
Operator : thomash
Sample : scc(a1329),cp11486
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 29 08:38:19 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57064.D
Acq On : 5 Jan 2022 2:49 am
Operator : danat
Sample : scc(a633),cp11499
Misc : MS55941,V2w2539,400,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 06 10:50:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

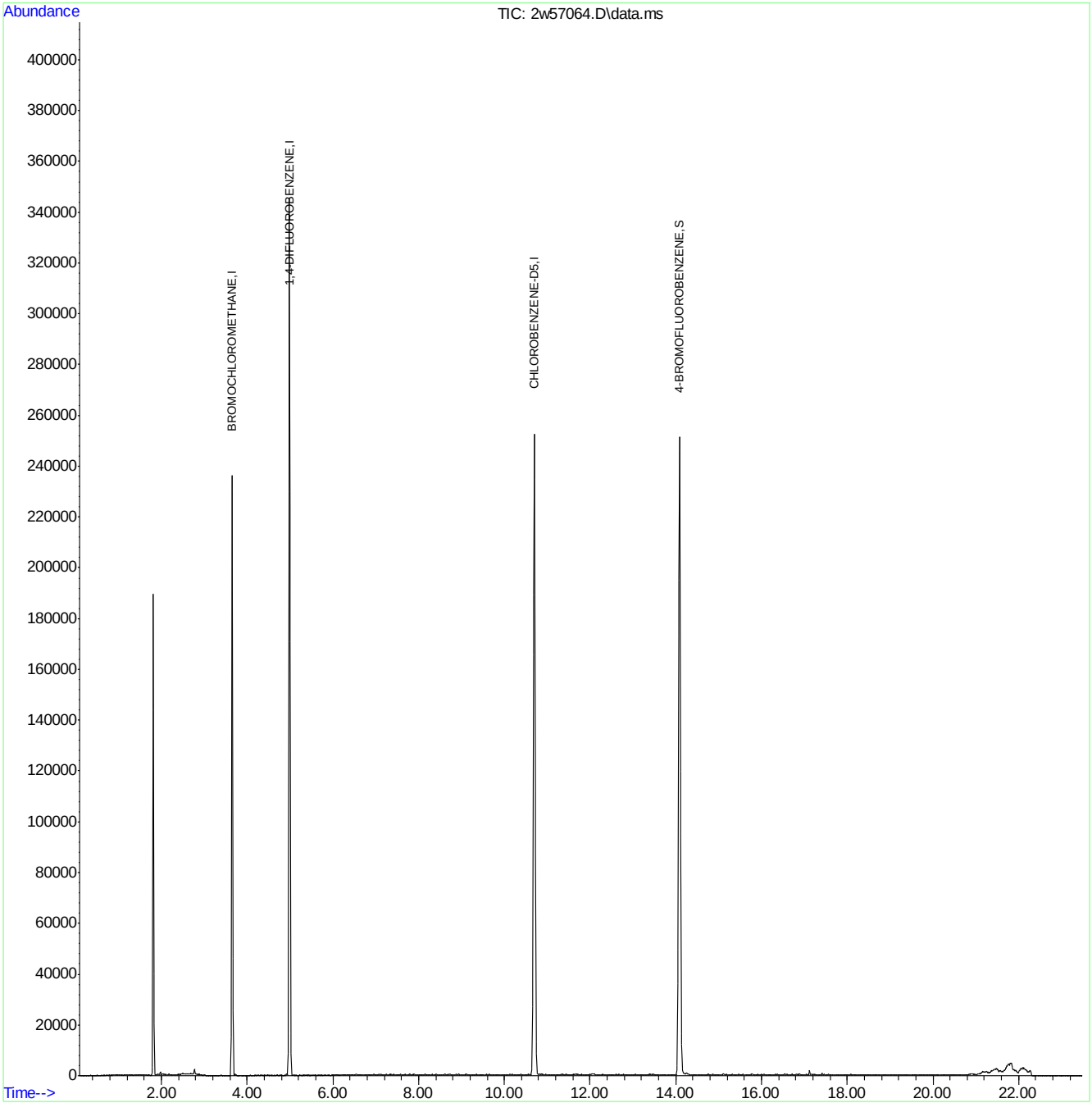
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.650	128	60133	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.991	114	306687	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.701	117	264859	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.090	95	168604	9.53	PPBV	0.00
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57064.D
Acq On : 5 Jan 2022 2:49 am
Operator : danat
Sample : scc(a633),cp11499
Misc : MS55941,V2w2539,400,,,,1
ALS Vial : 4 Sample Multiplier: 1

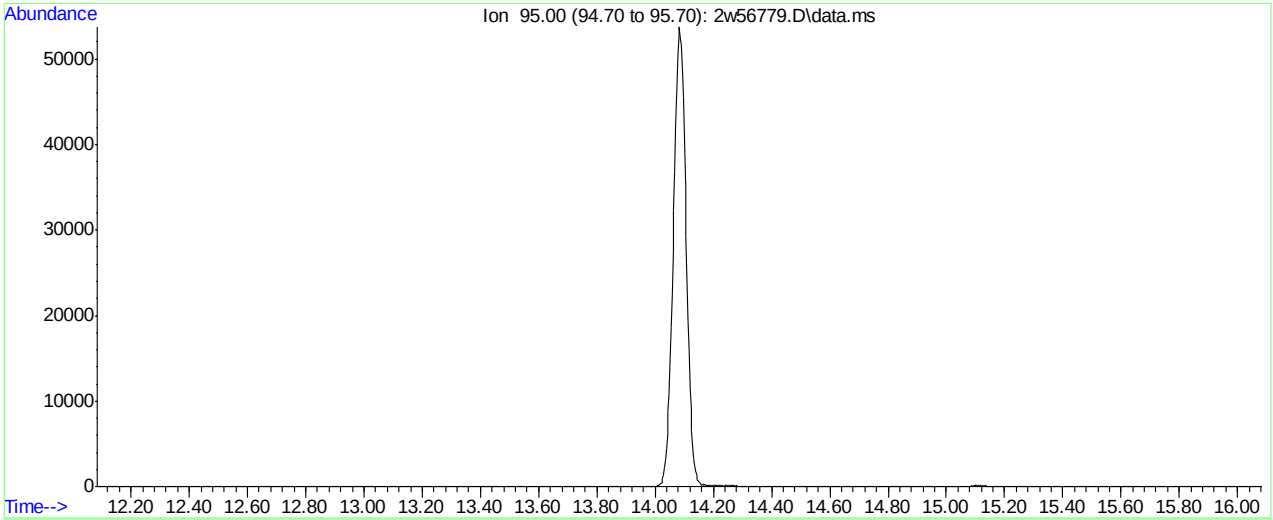
Quant Time: Jan 06 10:50:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

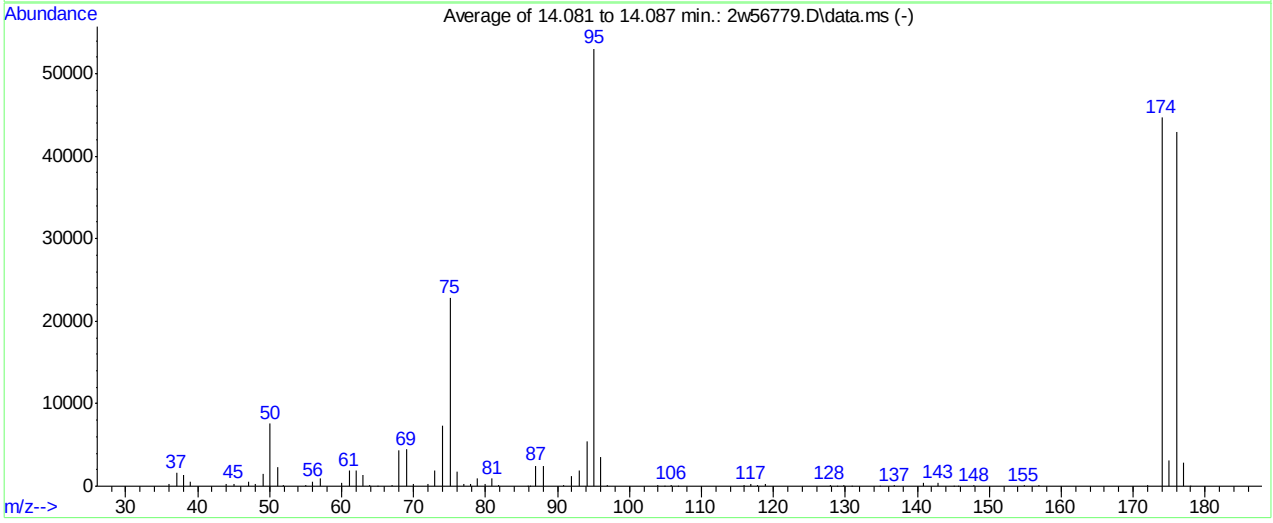


BFB

Data File : C:\msdchem\1\DATA\2w56779.D Vial: 1
Acq On : 20 Dec 2021 11:24 am Operator: danat
Sample : bfb Inst : MS2W
Misc : MS55592,V2w2529,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\M2W2529.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um





AutoFind: Scans 4352, 4353, 4354; Background Corrected with Scan 4326

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.3	7587	PASS
75	95	30	66	42.9	22773	PASS
95	95	100	100	100.0	53043	PASS
96	95	5	9	6.7	3576	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	84.1	44629	PASS
175	174	4	9	7.0	3123	PASS
176	174	93	101	96.1	42872	PASS
177	176	5	9	6.6	2829	PASS

2w56779.D M2W2529.M Tue Dec 21 09:14:46 2021 GCMS2W

Average of 14.081 to 14.087 min.: 2w56779.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	327	51.95	76	68.00	4342	79.90	283
37.05	1627	54.95	80	69.00	4469	80.90	889
38.00	1395	56.00	569	70.00	271	81.85	169
39.05	563	57.05	989	72.00	215	85.85	57
44.00	229	60.00	395	73.00	1923	86.10	22
45.00	329	61.05	1876	74.00	7284	87.00	2489
47.00	615	62.00	1842	75.10	22773	88.00	2483
47.95	241	63.00	1424	76.00	1810	90.90	143
49.05	1515	63.95	155	76.95	283	92.00	1264
50.10	7587	65.00	20	77.95	219	93.00	1881
51.05	2332	67.00	102	78.90	900	94.05	5435

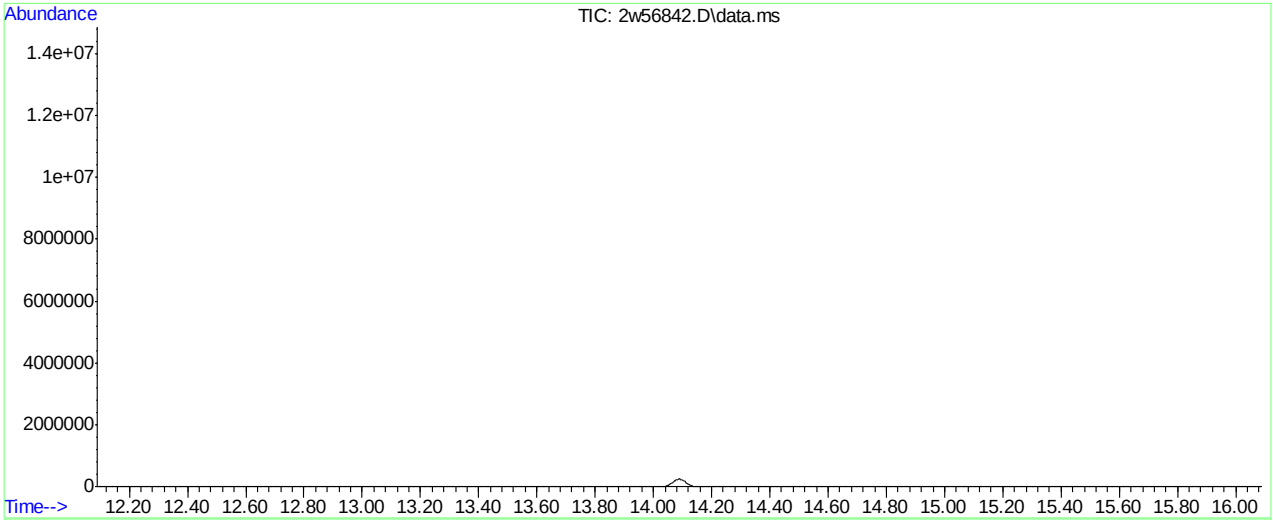
Average of 14.081 to 14.087 min.: 2w56779.D\data.ms
bfb
Modified:subtracted

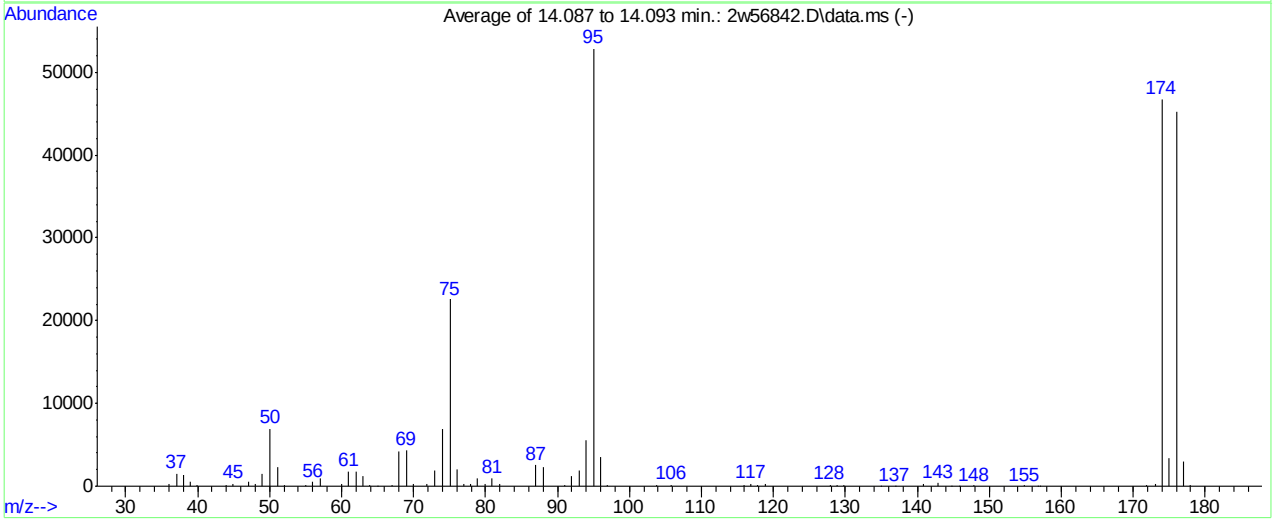
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.10	53043	127.90	169	154.85	124		
96.00	3576	128.85	64	156.95	77		
96.95	85	129.85	165	171.95	79		
103.90	151	130.90	57	174.00	44629		
104.90	31	134.85	54	175.00	3123		
105.85	168	136.85	77	176.00	42872		
106.80	19	140.90	349	176.95	2829		
115.90	149	142.90	382	177.90	42		
116.90	234	145.00	17				
117.85	125	145.70	18				
118.85	219	147.90	102				

BFB

Data File : C:\msdchem\1\DATA\2w56842.D Vial: 1
Acq On : 22 Dec 2021 6:54 am Operator: thomash
Sample : bfb Inst : MS2W
Misc : MS55668,V2w2532,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\M2W2529.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um





AutoFind: Scans 4354, 4355, 4356; Background Corrected with Scan 4328

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.1	6927	PASS
75	95	30	66	42.7	22573	PASS
95	95	100	100	100.0	52877	PASS
96	95	5	9	6.8	3580	PASS
173	174	0.00	2	0.5	222	PASS
174	95	50	120	88.4	46744	PASS
175	174	4	9	7.3	3390	PASS
176	174	93	101	96.8	45227	PASS
177	176	5	9	6.6	2994	PASS

2w56842.D M2W2529.M Wed Dec 22 14:37:35 2021 GCMS2W

Average of 14.087 to 14.093 min.: 2w56842.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	259	51.05	2244	66.95	114	78.90	891
37.05	1514	52.00	90	68.00	4224	79.95	258
38.05	1296	54.95	75	69.00	4371	80.90	967
39.05	575	56.00	536	69.95	283	81.90	218
39.90	72	57.05	980	71.90	230	87.00	2543
44.00	185	59.95	332	73.00	1838	88.00	2353
44.95	308	61.00	1773	74.00	6917	90.95	159
47.00	611	62.00	1707	75.05	22573	92.00	1259
48.00	210	63.00	1241	76.05	2003	93.00	1917
49.00	1540	63.95	117	76.95	320	94.00	5506
50.05	6927	64.95	56	77.85	225	95.00	52877

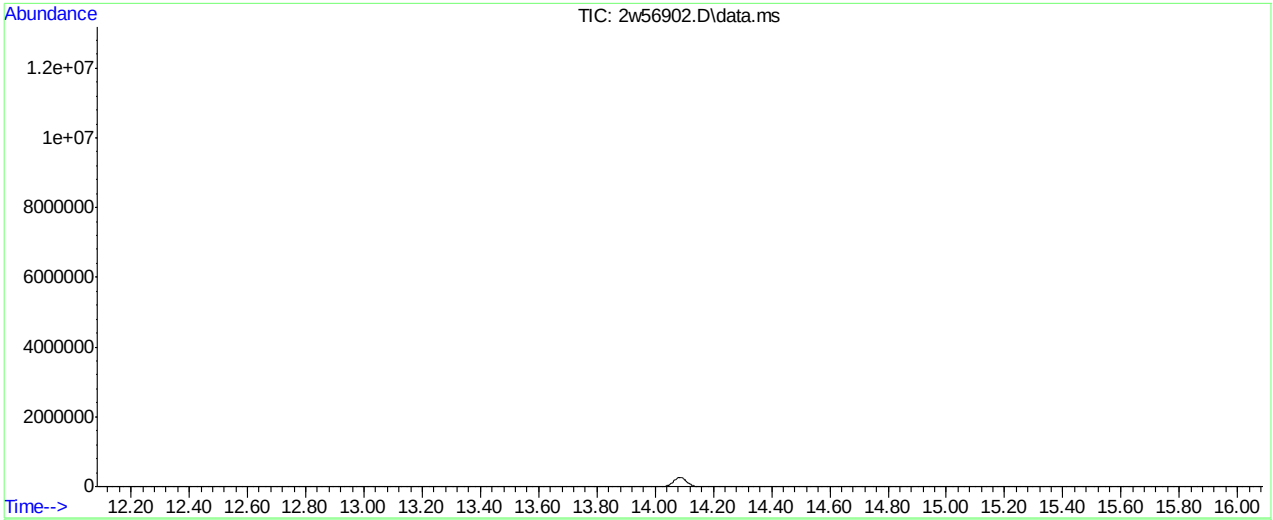
Average of 14.087 to 14.093 min.: 2w56842.D\data.ms
bfb
Modified:subtracted

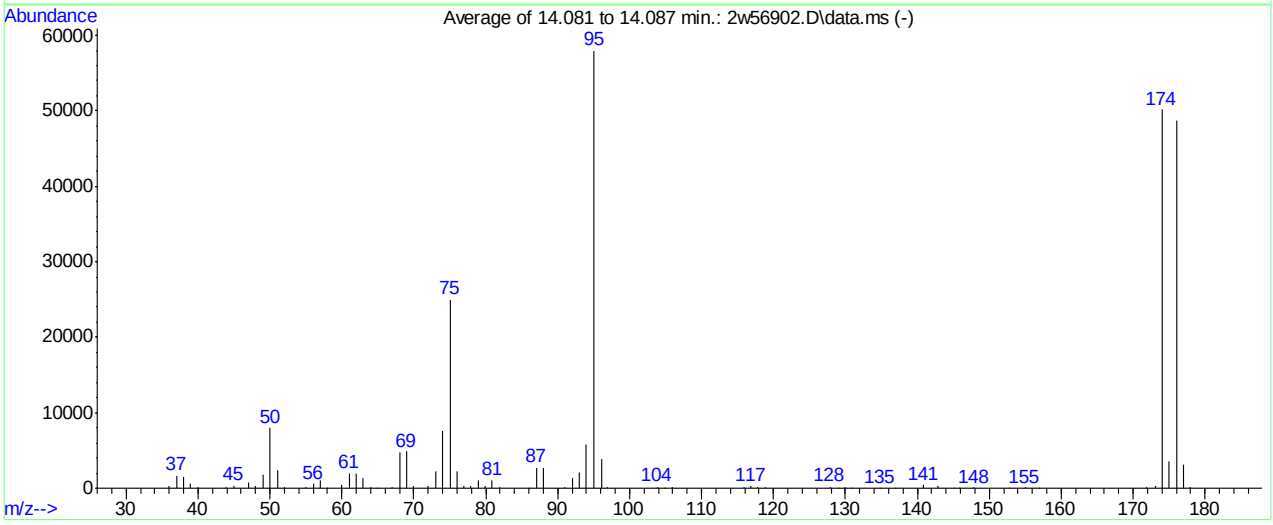
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	3580	134.90	47	173.05	222		
97.00	84	136.90	64	174.00	46744		
103.85	147	140.85	320	175.00	3390		
105.85	160	142.90	354	176.00	45227		
115.90	133	144.70	17	176.95	2994		
116.90	284	145.90	19	177.90	94		
117.85	137	147.90	129				
118.85	222	154.90	121				
127.90	164	156.80	26				
128.90	77	157.00	24				
129.85	160	171.85	90				

BFB

Data File : C:\msdchem\1\DATA\2w56902.D Vial: 1
Acq On : 27 Dec 2021 7:21 am Operator: thomash
Sample : bfb Inst : MS2W
Misc : MS55749,V2w2534,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\M2W2529.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um





AutoFind: Scans 4352, 4353, 4354; Background Corrected with Scan 4326

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.7	7954	PASS
75	95	30	66	43.1	24971	PASS
95	95	100	100	100.0	58000	PASS
96	95	5	9	6.8	3938	PASS
173	174	0.00	2	0.6	309	PASS
174	95	50	120	86.5	50187	PASS
175	174	4	9	7.2	3620	PASS
176	174	93	101	97.2	48784	PASS
177	176	5	9	6.5	3158	PASS

2w56902.D M2W2529.M Mon Dec 27 15:06:14 2021 GCMS2W

Average of 14.081 to 14.087 min.: 2w56902.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	277	51.05	2425	64.95	58	77.95	238
37.05	1698	51.95	100	67.05	108	78.90	981
38.05	1508	54.95	111	68.00	4716	79.95	320
39.00	609	56.00	545	69.00	4855	80.90	1060
39.95	81	57.00	1091	70.00	361	81.90	207
43.95	168	57.90	21	71.90	233	85.95	70
45.00	303	60.00	424	73.00	2161	87.00	2711
47.00	704	61.00	2005	74.05	7556	87.95	2655
47.95	293	62.00	1936	75.05	24971	90.90	157
49.00	1738	63.00	1395	76.00	2197	92.00	1400
50.05	7954	63.95	128	76.95	283	93.00	2019

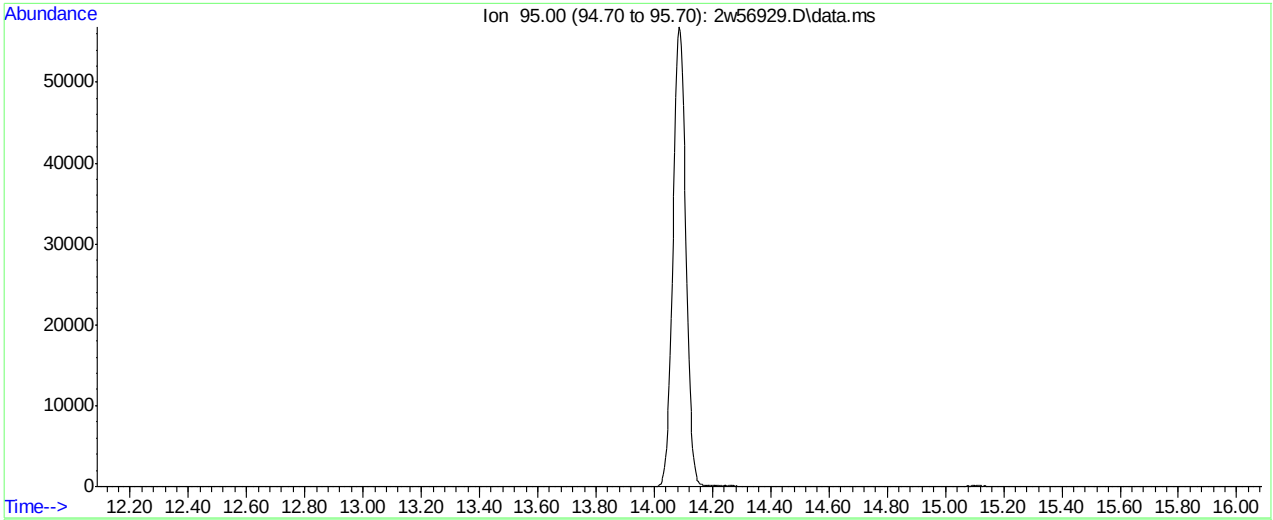
Average of 14.081 to 14.087 min.: 2w56902.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	5756	127.90	186	152.90	41		
95.05	58000	128.95	39	154.95	145		
96.05	3938	129.90	126	156.85	67		
96.95	104	130.90	21	171.80	105		
103.90	162	134.80	55	173.05	309		
104.90	58	136.90	51	174.00	50187		
105.90	160	140.90	382	175.00	3620		
115.85	136	142.85	372	176.00	48784		
116.90	238	145.10	17	176.95	3158		
117.80	154	145.85	58	177.90	95		
118.85	207	147.90	103				

BFB

Data File : C:\msdchem\1\DATA\2w56929.D Vial: 1
Acq On : 28 Dec 2021 7:11 am Operator: thomash
Sample : bfb Inst : MS2W
Misc : MS55749,V2w2535,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\M2W2529.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4353, 4354, 4355; Background Corrected with Scan 4326

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.2	7465	PASS
75	95	30	66	42.3	23925	PASS
95	95	100	100	100.0	56611	PASS
96	95	5	9	6.7	3778	PASS
173	174	0.00	2	0.2	119	PASS
174	95	50	120	87.4	49485	PASS
175	174	4	9	7.1	3532	PASS
176	174	93	101	98.1	48541	PASS
177	176	5	9	6.2	3028	PASS

2w56929.D M2W2529.M Tue Dec 28 16:25:08 2021 GCMS2W

Average of 14.084 to 14.090 min.: 2w56929.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	329	51.00	2462	67.10	90	77.90	235
37.05	1569	52.05	87	68.00	4478	78.90	1012
38.05	1331	54.95	82	69.00	4431	79.95	273
39.05	526	55.95	605	69.95	314	80.90	1075
39.95	75	57.00	1025	71.95	200	81.85	196
44.00	241	59.95	400	73.00	1991	85.95	62
44.95	282	61.00	1776	74.00	7444	86.95	2710
46.95	548	62.05	1932	75.00	23925	88.00	2598
47.95	198	63.00	1366	76.00	2168	90.90	149
49.00	1505	63.95	119	76.90	206	92.00	1316
50.05	7465	65.00	31	77.10	110	93.00	2137

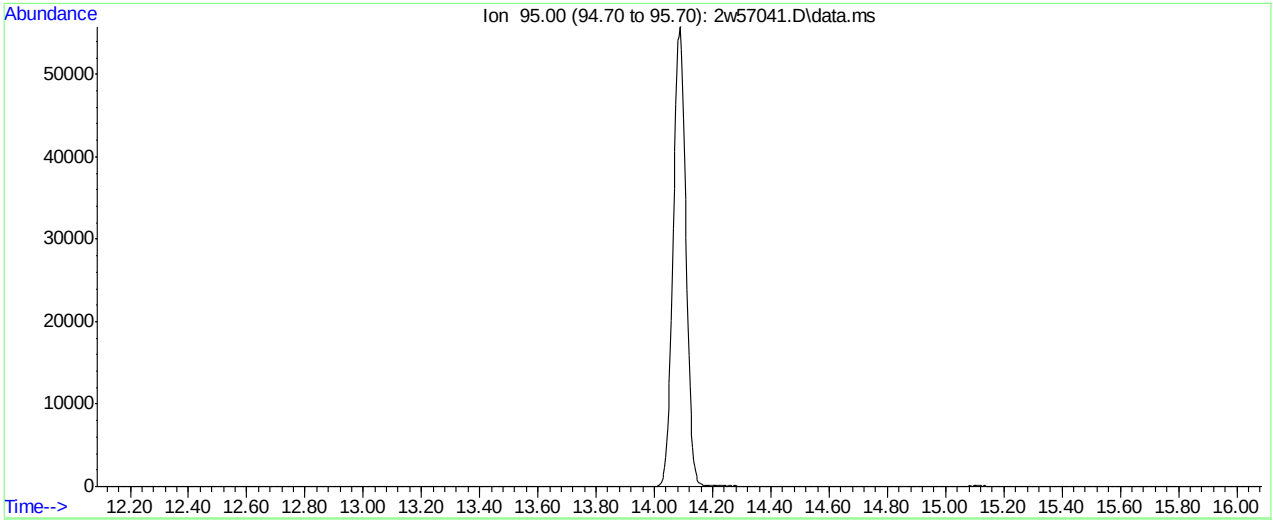
Average of 14.084 to 14.090 min.: 2w56929.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	5869	127.90	194	152.90	58		
95.00	56611	129.90	199	154.80	117		
96.00	3778	130.85	66	156.90	83		
96.90	94	134.80	67	160.80	36		
103.85	170	136.85	83	171.95	126		
104.90	60	140.90	321	172.80	119		
105.85	157	142.90	390	174.00	49485		
115.90	130	145.80	60	174.95	3532		
116.95	287	146.00	21	176.00	48541		
117.85	163	147.85	107	177.00	3028		
118.90	180	149.80	18	177.90	78		

BFB

Data File : C:\msdchem\1\DATA\2w57041.D Vial: 1
Acq On : 4 Jan 2022 12:27 pm Operator: danat
Sample : bfb Inst : MS2W
Misc : MS55592,V2w2539,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\M2W2529.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4353, 4354, 4355; Background Corrected with Scan 4326

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.7	7603	PASS
75	95	30	66	43.0	23808	PASS
95	95	100	100	100.0	55333	PASS
96	95	5	9	6.7	3701	PASS
173	174	0.00	2	0.5	224	PASS
174	95	50	120	89.3	49392	PASS
175	174	4	9	7.0	3451	PASS
176	174	93	101	97.3	48059	PASS
177	176	5	9	6.4	3085	PASS

2w57041.D M2W2529.M Tue Jan 04 16:13:39 2022 GCMS2W

Average of 14.083 to 14.090 min.: 2w57041.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	288	51.00	2449	66.95	124	77.95	250
37.05	1709	52.05	101	68.00	4528	78.95	975
38.00	1473	54.95	94	69.00	4538	79.90	233
39.00	552	56.00	497	70.00	331	80.90	1058
40.00	37	57.00	1076	71.90	151	81.90	213
44.00	170	57.90	38	72.10	83	86.00	76
45.05	327	60.00	345	73.00	1957	87.00	2682
47.05	667	61.00	2016	74.00	7605	88.00	2561
48.00	225	62.00	1829	75.10	23808	90.90	140
49.00	1632	63.00	1460	76.05	2066	92.05	1244
50.05	7603	63.95	114	76.95	342	93.00	1883

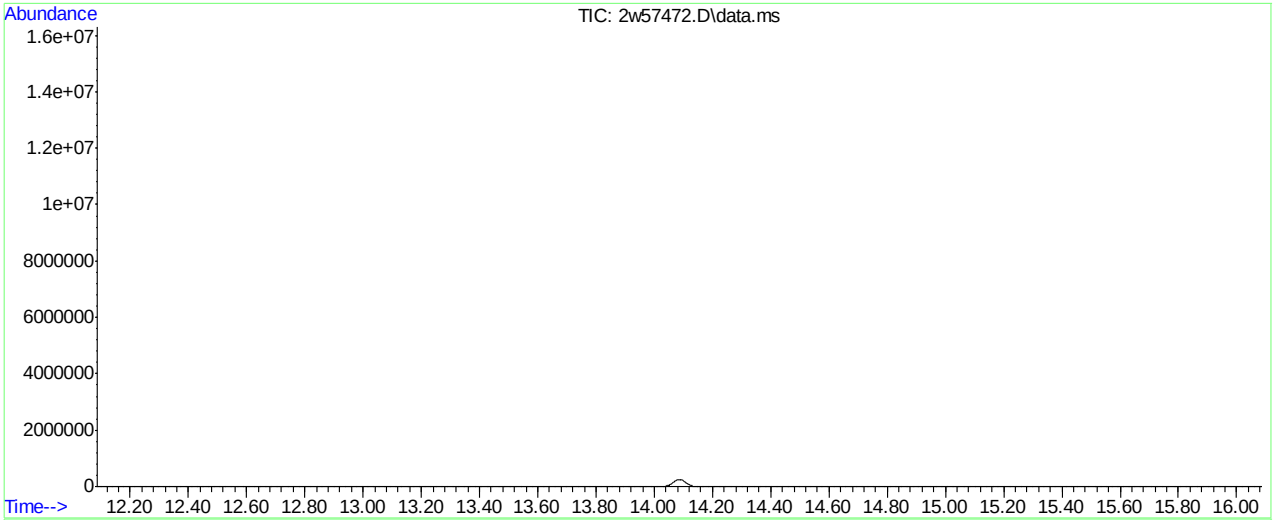
Average of 14.083 to 14.090 min.: 2w57041.D\data.ms
bfb
Modified:subtracted

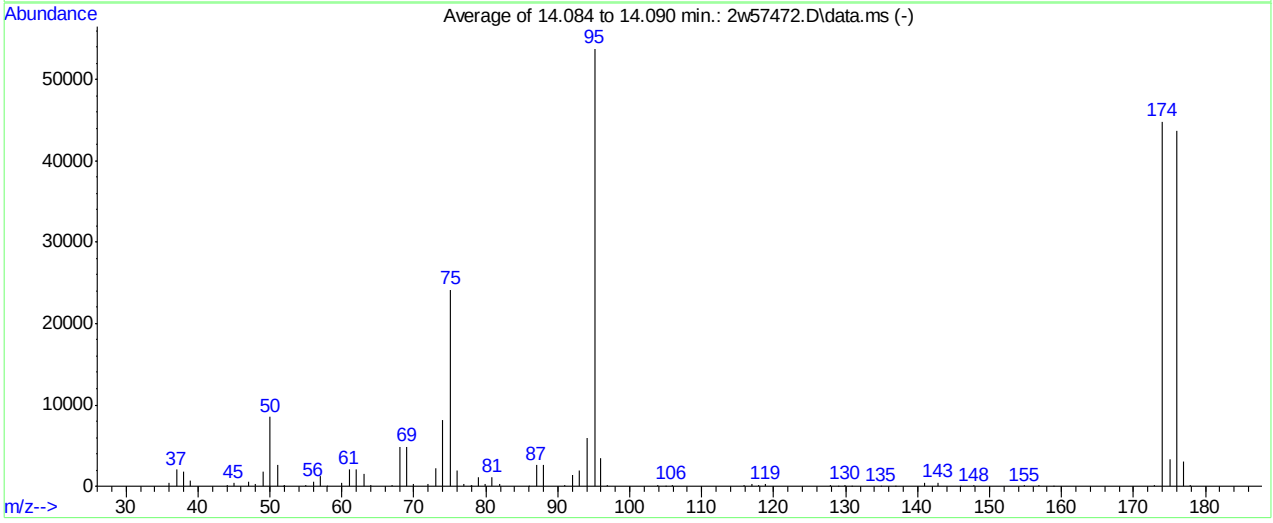
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	5866	127.85	171	156.85	82		
95.10	55333	128.85	52	158.85	39		
96.05	3701	129.90	146	160.85	47		
97.00	92	131.00	51	171.90	87		
103.85	196	134.90	33	173.00	224		
104.85	86	136.70	17	174.00	49392		
105.85	171	140.90	345	175.00	3451		
115.85	130	142.85	396	176.00	48059		
116.85	282	145.85	73	177.00	3085		
117.85	155	147.90	113	177.90	34		
118.90	215	154.85	110				

BFB

Data File : C:\msdchem\1\DATA\2w57472.D Vial: 1
Acq On : 28 Jan 2022 7:47 am Operator: thomash
Sample : bfb Inst : MS2W
Misc : MS56382,V2w2558,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\M2W2529.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um





AutoFind: Scans 4353, 4354, 4355; Background Corrected with Scan 4326

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.8	8490	PASS
75	95	30	66	44.9	24149	PASS
95	95	100	100	100.0	53840	PASS
96	95	5	9	6.4	3432	PASS
173	174	0.00	2	0.2	110	PASS
174	95	50	120	83.2	44821	PASS
175	174	4	9	7.5	3367	PASS
176	174	93	101	97.5	43712	PASS
177	176	5	9	6.8	2993	PASS

2w57472.D M2W2529.M Fri Jan 28 10:55:32 2022 GCMS2W

Average of 14.084 to 14.090 min.: 2w57472.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	373	51.90	38	67.00	120	78.00	130
37.05	2046	52.05	76	68.00	4842	78.90	1084
38.05	1760	54.95	116	69.05	4897	79.90	316
39.00	710	56.00	620	70.00	329	80.90	1170
44.00	205	57.00	1223	72.00	266	81.90	220
45.00	407	57.90	26	73.00	2156	85.90	66
47.05	622	60.00	455	74.05	8091	87.00	2597
47.95	222	61.00	2129	75.10	24149	88.00	2576
49.00	1835	62.05	2061	76.00	1979	90.90	185
50.05	8490	63.00	1527	76.95	323	92.00	1410
51.05	2581	63.95	154	77.80	69	93.00	1967

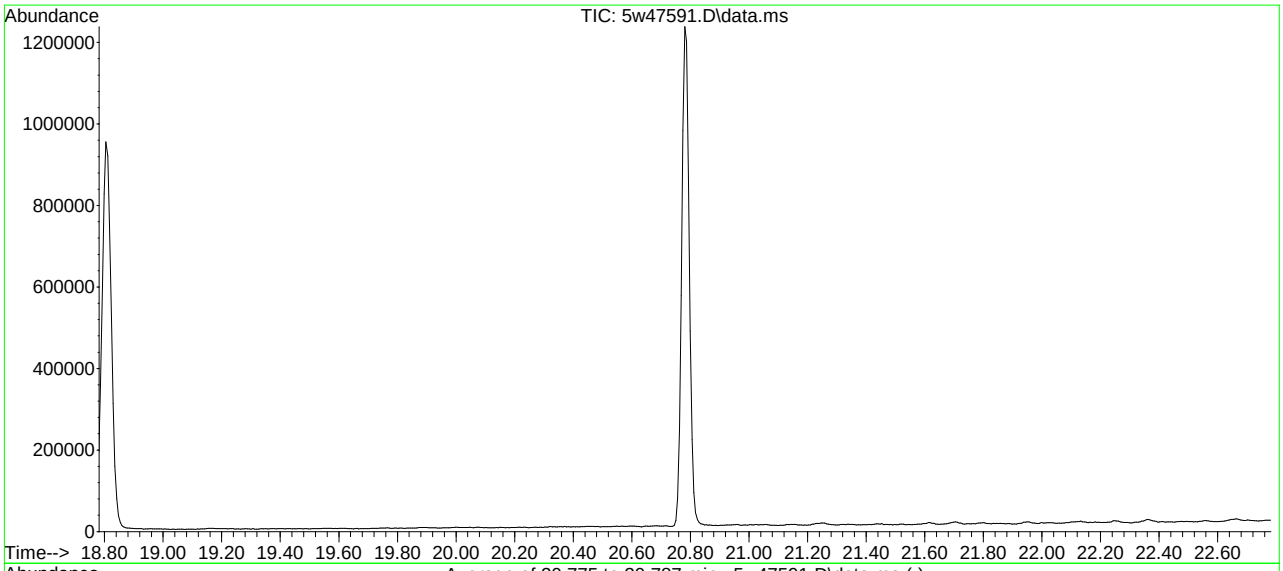
Average of 14.084 to 14.090 min.: 2w57472.D\data.ms
bfb
Modified:subtracted

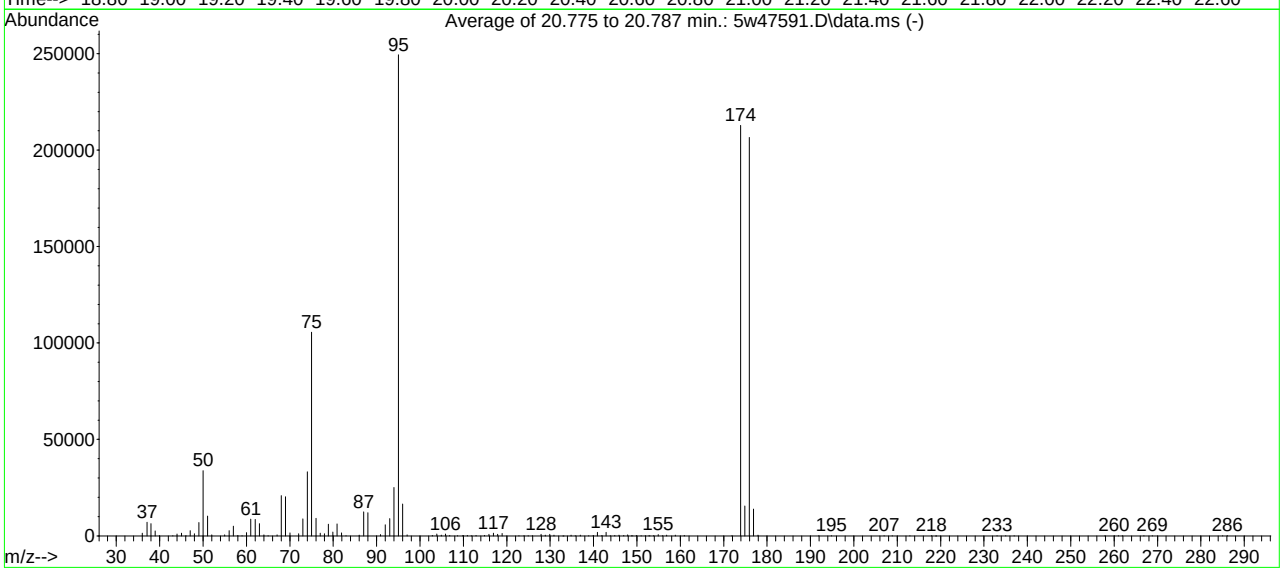
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	5961	127.90	155	156.90	92		
95.10	53840	128.90	45	158.80	23		
96.00	3432	129.95	160	172.90	110		
96.95	98	130.85	57	174.00	44821		
103.85	167	134.90	69	175.00	3367		
104.90	19	136.85	55	176.00	43712		
105.85	181	140.90	388	177.00	2993		
115.85	176	142.90	427	177.85	94		
116.90	244	145.95	60				
117.85	164	147.85	107				
118.90	254	154.85	122				

BFB

Data File : C:\msdchem\1\data\5w47591.D Vial: 1
Acq On : 26 Jan 2022 1:33 pm Operator: danat
Sample : bfb Inst : Air5w
Misc : ms56359,v5w1966,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m5w1966.M (RTE Integrator)
Title : TO-15 Full Scan Mode





AutoFind: Scans 2973, 2974, 2975; Background Corrected with Scan 2965

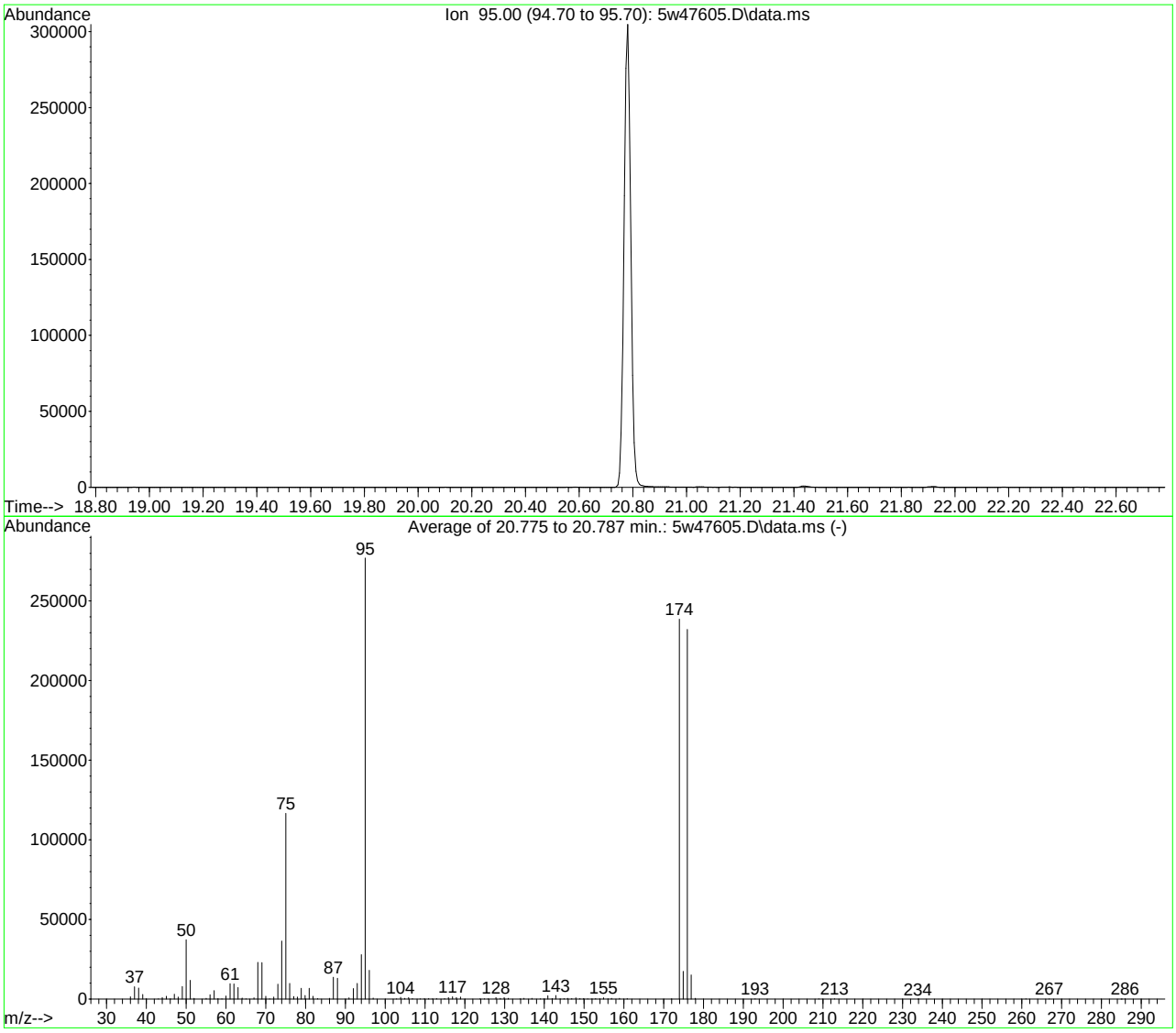
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.5	33720	PASS
75	95	30	66	42.4	105641	PASS
95	95	100	100	100.0	249408	PASS
96	95	5	9	6.6	16495	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.3	212821	PASS
175	174	4	9	7.3	15472	PASS
176	174	93	101	97.1	206613	PASS
177	176	5	9	6.7	13871	PASS

5w47591.D m5w1966.M Thu Jan 27 08:44:20 2022

BFB

Data File : C:\msdchem\1\data\5w47605.D Vial: 1
Acq On : 27 Jan 2022 9:04 am Operator: thomash
Sample : bfb Inst : Air5w
Misc : ms56359,v5w1967,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m5w1966.M (RTE Integrator)
Title : TO-15 Full Scan Mode



AutoFind: Scans 2973, 2974, 2975; Background Corrected with Scan 2964

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.4	37171	PASS
75	95	30	66	42.1	116646	PASS
95	95	100	100	100.0	276971	PASS
96	95	5	9	6.5	18077	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.2	238635	PASS
175	174	4	9	7.3	17410	PASS
176	174	93	101	97.3	232107	PASS
177	176	5	9	6.5	15161	PASS

5w47605.D m5w1966.M Fri Jan 28 10:20:46 2022

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56780.D
Acq On : 20 Dec 2021 12:01 pm
Operator : danat
Sample : ic2529-0.5
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 14:55:29 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:54:25 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.644	128	52536	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.985	114	278725	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.698	117	247333	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	164596	9.86	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.866	65	2566	0.51	PPBV	#	73
4) CHLORODIFLUOROMETHANE	1.879	67	1030	0.52	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.895	116	6400	0.52	PPBV	#	99
6) DICHLORODIFLUOROMETHANE	1.914	85	10331	0.54	PPBV		98
7) PROPYLENE	1.891	41	2836	0.53	PPBV		90
8) 1-CHLORO-1,1-DIFLUOROE...	1.969	65	6840	0.54	PPBV	#	84
9) FREON 114	2.014	85	10881	0.52	PPBV		94
10) CHLOROMETHANE	1.975	52	1016	0.51	PPBV		100
11) VINYL CHLORIDE	2.052	62	4157	0.53	PPBV	#	96
12) 1,3-BUTADIENE	2.107	54	2893	0.52	PPBV	#	73
13) N-BUTANE	2.126	43	4976	0.52	PPBV	#	93
14) BROMOMETHANE	2.203	94	4073	0.52	PPBV		96
15) CHLOROETHANE	2.268	64	2337	0.53	PPBV	#	86
16) DICHLOROFLUOROMETHANE	2.303	67	8797	0.52	PPBV	#	97
17) ACETONITRILE	2.390	41	3367	0.68	PPBV	#	80
18) ACROLEIN	2.432	56	1892	0.60	PPBV		98
19) FREON 123	2.448	83	9220	0.52	PPBV	#	92
20) FREON 123A	2.464	117	5293	0.53	PPBV		88
21) TRICHLOROFLUOROMETHANE	2.531	101	8540	0.51	PPBV		99
22) ISOPROPYL ALCOHOL	2.551	45	6323	0.69	PPBV		97
23) ACETONE	2.473	58	2420	0.75	PPBV	#	38
24) PENTANE	2.647	42	2632	0.53	PPBV	#	81
25) IODOMETHANE	2.702	142	9852	0.53	PPBV	#	78
26) 1,1-DICHLOROETHYLENE	2.727	96	3748	0.54	PPBV	#	74
27) CARBON DISULFIDE	2.862	76	9339	0.53	PPBV	#	84
28) ETHANOL	2.309	45	2449	0.97	PPBV	#	96
29) BROMOETHENE	2.396	106	3845	0.52	PPBV	#	96
30) ACRYLONITRILE	2.615	52	2428	0.63	PPBV		92
31) METHYLENE CHLORIDE	2.766	84	3778	0.59	PPBV		92
32) 3-CHLOROPROPENE	2.805	76	1685	0.52	PPBV	#	60
33) FREON 113	2.862	151	6204	0.52	PPBV		97
34) TRANS-1,2-DICHLOROETHENE	3.104	96	4283	0.51	PPBV		99
35) TERTIARY BUTYL ALCOHOL	2.740	59	4174	0.51	PPBV	#	77
36) METHYL TERTIARY BUTYL ...	3.216	73	8201	0.51	PPBV		99
37) TETRAHYDROFURAN	3.952	72	1863	0.47	PPBV		95
38) HEXANE	3.698	57	6668	0.51	PPBV	#	76
39) VINYL ACETATE	3.258	86	1018	0.51	PPBV	#	88
40) 1,1-DICHLOROETHANE	3.184	63	7214	0.53	PPBV		98
41) METHYL ETHYL KETONE	3.361	72	2298	0.57	PPBV		99
42) CIS-1,2-DICHLOROETHENE	3.563	96	4653	0.52	PPBV		97
43) DIISOPROPYL ETHER	3.702	59	1840	0.49	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56780.D
Acq On : 20 Dec 2021 12:01 pm
Operator : danat
Sample : ic2529-0.5
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 14:55:29 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:54:25 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.711	61	1118	0.46	PPBV		82
45) METHYL ACRYLATE	3.698	55	7942	0.57	PPBV	#	100
46) CHLOROFORM	3.721	83	8621	0.54	PPBV	#	94
47) 2,4-DIMETHYLPENTANE	4.239	57	7840	0.51	PPBV		95
48) 1,1,1-TRICHLOROETHANE	4.322	97	7562	0.52	PPBV		98
49) CARBON TETRACHLORIDE	4.763	117	7883	0.51	PPBV		98
50) 1,2-DICHLOROETHANE	4.152	62	4858	0.53	PPBV	#	98
51) BENZENE	4.647	78	13929	0.52	PPBV		93
53) CYCLOHEXANE	4.869	84	5930	0.50	PPBV		93
54) 2,3-DIMETHYLPENTANE	5.132	71	3174	0.50	PPBV	#	99
55) TRICHLOROETHENE	5.586	95	5915	0.52	PPBV		98
56) 1,2-DICHLOROPROPANE	5.341	63	4924	0.52	PPBV	#	77
57) DIBROMOMETHANE	5.296	174	5582	0.53	PPBV		94
58) ETHYL ACRYLATE	5.460	55	8090	0.50	PPBV		95
59) BROMODICHLOROMETHANE	5.525	83	9179	0.52	PPBV		98
60) 2,2,4-TRIMETHYLPENTANE	5.676	57	21644	0.52	PPBV	#	98
61) 1,4-DIOXANE	5.605	88	4562	0.77	PPBV	#	89
62) HEPTANE	6.007	43	6508	0.50	PPBV		98
63) METHYL METHACRYLATE	5.898	69	4451	0.48	PPBV		83
64) METHYL ISOBUTYL KETONE	6.657	58	3357	0.46	PPBV	#	89
65) CIS-1,3-DICHLOROPROPENE	6.547	75	6577	0.49	PPBV	#	81
66) TOLUENE	7.788	91	16147	0.50	PPBV		99
67) 1,3-DICHLOROPROPANE	7.846	76	7793	0.52	PPBV	#	99
68) TRANS-1,3-DICHLOROPROPENE	7.238	75	5402	0.51	PPBV	#	86
69) 1,1,2-TRICHLOROETHANE	7.406	83	4793	0.52	PPBV		93
70) 2-HEXANONE	8.361	58	5724	0.68	PPBV	#	81
71) ETHYL METHACRYLATE	8.496	69	6305	0.43	PPBV		90
72) TETRACHLOROETHENE	9.550	164	6011	0.51	PPBV		98
73) DIBROMOCHLOROMETHANE	8.328	129	9154	0.51	PPBV		99
74) 1,2-DIBROMOETHANE	8.682	107	8251	0.53	PPBV	#	97
75) OCTANE	9.689	43	8427	0.49	PPBV		97
77) 1,1,1,2-TETRACHLOROETHANE	10.785	131	6475	0.52	PPBV		89
78) CHLOROBENZENE	10.779	112	12653	0.52	PPBV		98
79) ETHYLBENZENE	11.666	91	18755	0.48	PPBV		98
80) M,P-XYLENE	12.097	91	28467	0.96	PPBV	#	98
81) O-XYLENE	13.036	91	14337	0.48	PPBV		97
82) STYRENE	12.827	104	10465	0.45	PPBV		94
83) NONANE	14.148	43	8977	0.53	PPBV		92
84) BROMOFORM	11.907	173	8502	0.51	PPBV		99
85) 1,1,2,2-TETRACHLOROETHANE	13.049	83	10727	0.51	PPBV	#	98
86) 1,2,3-TRICHLOROPROPANE	13.328	75	7959	0.51	PPBV	#	99
88) ISOPROPYLBENZENE	14.560	120	5434	0.48	PPBV		90
89) BROMOBENZENE	14.431	77	10108	0.53	PPBV		88
90) 2-CHLOROTOLUENE	15.573	126	4660	0.48	PPBV		97
91) N-PROPYLBENZENE	15.907	120	4992	0.44	PPBV		96
92) 4-ETHYLTOLUENE	16.225	105	17651	0.44	PPBV		98
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	15182	0.47	PPBV	#	96
94) ALPHA-METHYLSTYRENE	16.560	118	7408	0.45	PPBV		96
95) TERT-BUTYLBENZENE	16.810	134	3995	0.49	PPBV		83
96) 1,2,4-TRIMETHYLBENZENE	16.817	105	15241	0.48	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56780.D
Acq On : 20 Dec 2021 12:01 pm
Operator : danat
Sample : ic2529-0.5
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 14:55:29 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:54:25 2021
Response via : Initial Calibration

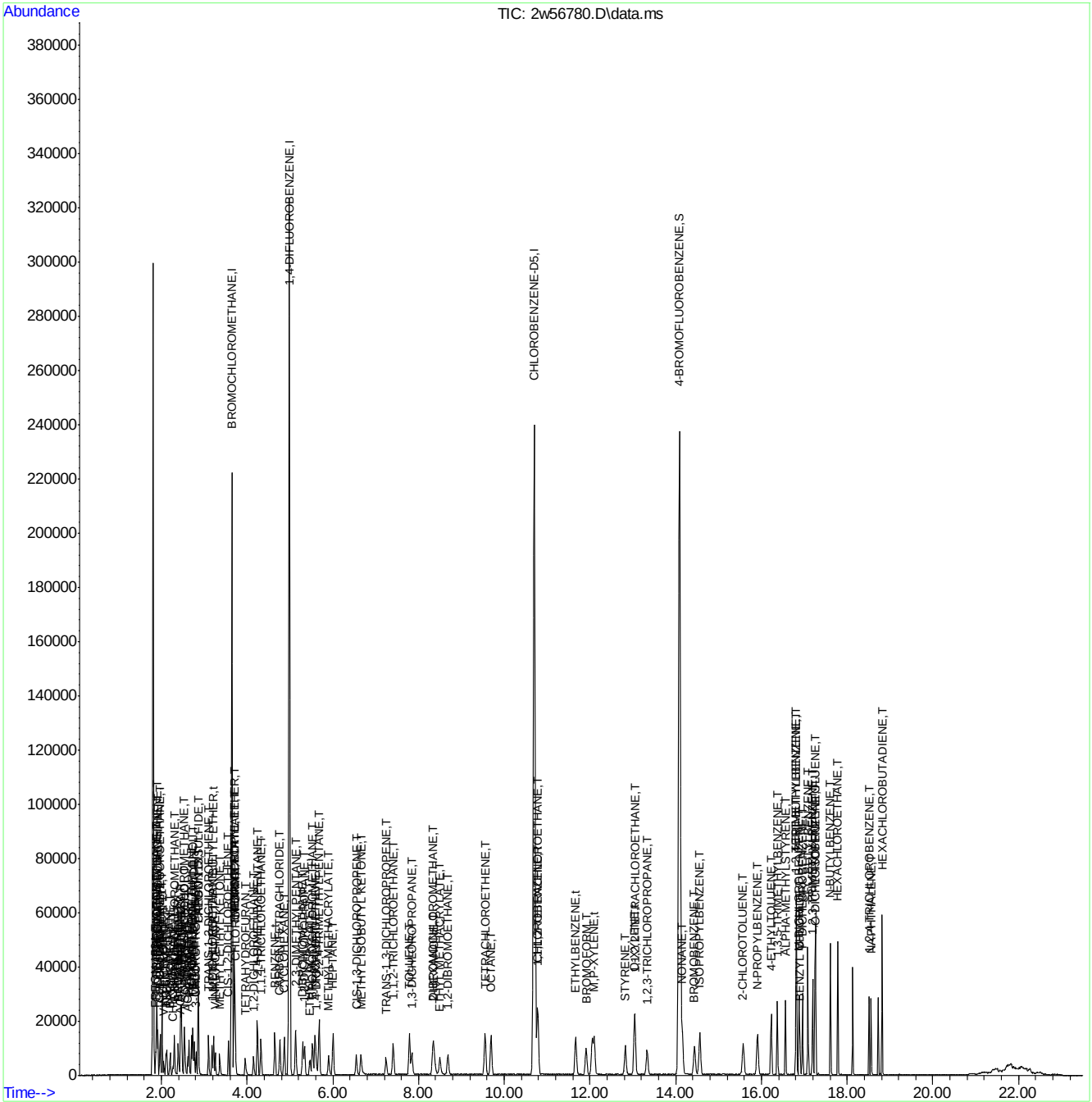
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	6421	0.45	PPBV	98
98)	M-DICHLOROBENZENE	16.875	146	10363	0.51	PPBV	98
99)	P-DICHLOROBENZENE	16.958	146	9966	0.50	PPBV	97
100)	O-DICHLOROBENZENE	17.248	146	9436	0.51	PPBV	99
101)	SEC-BUTYLBENZENE	17.084	134	4632	0.48	PPBV	99
102)	1,2,3-TRIMETHYLBENZENE	17.193	105	14705	0.49	PPBV	95
103)	P-ISOPROPYLTOLUENE	17.261	134	4942	0.49	PPBV	93
104)	N-BUTYLBENZENE	17.605	134	4161	0.48	PPBV	92
105)	HEXACHLOROETHANE	17.781	117	5942	0.51	PPBV	97
106)	HEXACHLOROBUTADIENE	18.817	225	6366	0.62	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.511	180	5509	0.58	PPBV	97
108)	NAPHTHALENE	18.560	128	13539	0.66	PPBV	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56780.D
Acq On : 20 Dec 2021 12:01 pm
Operator : danat
Sample : ic2529-0.5
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 14:55:29 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:54:25 2021
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Dana Tryon 12/21/21 09:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56781.D
Acq On : 20 Dec 2021 12:37 pm
Operator : danat
Sample : ic2529-0.2
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:11:34 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:56:48 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.644	128	52743	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.984	114	278911	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.698	117	245719	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.084	95	162965	9.90	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.862	65	1028m	0.20	PPBV		
4) CHLORODIFLUOROMETHANE	1.878	67	423	0.21	PPBV		93
5) CHLOROTRIFLUOROETHENE	1.894	116	2525	0.20	PPBV	#	98
6) DICHLORODIFLUOROMETHANE	1.914	85	4058	0.20	PPBV	#	97
7) PROPYLENE	1.891	41	1078	0.19	PPBV		91
8) 1-CHLORO-1,1-DIFLUOROE...	1.965	65	2685	0.20	PPBV	#	68
9) FREON 114	2.010	85	4280	0.20	PPBV		93
10) CHLOROMETHANE	1.968	52	371	0.18	PPBV		90
11) VINYL CHLORIDE	2.052	62	1591	0.20	PPBV	#	92
12) 1,3-BUTADIENE	2.103	54	1170	0.21	PPBV	#	73
13) N-BUTANE	2.126	43	1901	0.19	PPBV	#	94
14) BROMOMETHANE	2.200	94	1592	0.20	PPBV		98
15) CHLOROETHANE	2.264	64	928	0.20	PPBV	#	91
16) DICHLOROFLUOROMETHANE	2.300	67	3599	0.21	PPBV	#	93
17) ACETONITRILE	2.386	41	1393	0.24	PPBV	#	41
18) ACROLEIN	2.431	56	711	0.20	PPBV		99
19) FREON 123	2.447	83	3653	0.20	PPBV	#	95
20) FREON 123A	2.464	117	2082	0.20	PPBV		86
21) TRICHLOROFLUOROMETHANE	2.531	101	3560	0.21	PPBV		99
22) ISOPROPYL ALCOHOL	2.547	45	2654	0.24	PPBV	#	92
23) ACETONE	2.476	58	911	0.23	PPBV	#	48
24) PENTANE	2.640	42	1103	0.21	PPBV	#	77
25) IODOMETHANE	2.701	142	3891	0.20	PPBV	#	79
26) 1,1-DICHLOROETHYLENE	2.727	96	1387	0.19	PPBV		84
27) CARBON DISULFIDE	2.859	76	3656	0.20	PPBV	#	75
29) BROMOETHENE	2.393	106	1557	0.20	PPBV	#	96
30) ACRYLONITRILE	2.615	52	949	0.22	PPBV		92
31) METHYLENE CHLORIDE	2.766	84	1857	0.27	PPBV		89
32) 3-CHLOROPROPENE	2.804	76	635	0.19	PPBV	#	66
33) FREON 113	2.862	151	2476	0.20	PPBV		97
34) TRANS-1,2-DICHLOROETHENE	3.100	96	1721	0.20	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.737	59	1710	0.21	PPBV	#	79
36) METHYL TERTIARY BUTYL ...	3.216	73	3103	0.19	PPBV		98
37) TETRAHYDROFURAN	3.959	72	618	0.16	PPBV		87
38) HEXANE	3.701	57	2500	0.19	PPBV	#	80
39) VINYL ACETATE	3.258	86	428	0.21	PPBV	#	69
40) 1,1-DICHLOROETHANE	3.181	63	2816	0.20	PPBV		98
41) METHYL ETHYL KETONE	3.367	72	824	0.19	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.563	96	1773	0.19	PPBV		99
43) DIISOPROPYL ETHER	3.701	59	679	0.18	PPBV		88
44) ETHYL ACETATE	3.714	61	424	0.18	PPBV	#	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56781.D
Acq On : 20 Dec 2021 12:37 pm
Operator : danat
Sample : ic2529-0.2
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:11:34 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:56:48 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	METHYL ACRYLATE	3.695	55	3022	0.20	PPBV	#	96
46)	CHLOROFORM	3.721	83	3328	0.20	PPBV	#	92
47)	2,4-DIMETHYLPENTANE	4.238	57	3053	0.20	PPBV		93
48)	1,1,1-TRICHLOROETHANE	4.325	97	2928	0.20	PPBV		98
49)	CARBON TETRACHLORIDE	4.763	117	3253	0.21	PPBV		97
50)	1,2-DICHLOROETHANE	4.148	62	1987	0.21	PPBV	#	95
51)	BENZENE	4.644	78	5480	0.20	PPBV		93
53)	CYCLOHEXANE	4.869	84	2355	0.20	PPBV		89
54)	2,3-DIMETHYLPENTANE	5.129	71	1248	0.20	PPBV	#	95
55)	TRICHLOROETHENE	5.582	95	2370	0.20	PPBV		96
56)	1,2-DICHLOROPROPANE	5.341	63	1861	0.19	PPBV	#	78
57)	DIBROMOMETHANE	5.293	174	2305	0.21	PPBV		93
58)	ETHYL ACRYLATE	5.470	55	2919	0.18	PPBV	#	93
59)	BROMODICHLOROMETHANE	5.525	83	3589	0.20	PPBV		94
60)	2,2,4-TRIMETHYLPENTANE	5.679	57	8815	0.21	PPBV	#	96
61)	1,4-DIOXANE	5.621	88	1832	0.24	PPBV	#	82
62)	HEPTANE	6.004	43	2533	0.20	PPBV		99
63)	METHYL METHACRYLATE	5.901	69	1548	0.17	PPBV		85
64)	METHYL ISOBUTYL KETONE	6.660	58	1219	0.17	PPBV	#	86
65)	CIS-1,3-DICHLOROPROPENE	6.544	75	2601	0.20	PPBV	#	79
66)	TOLUENE	7.788	91	6249	0.19	PPBV		100
67)	1,3-DICHLOROPROPANE	7.846	76	3005	0.20	PPBV	#	97
68)	TRANS-1,3-DICHLOROPROPENE	7.242	75	1984	0.18	PPBV	#	83
69)	1,1,2-TRICHLOROETHANE	7.409	83	1825	0.19	PPBV		95
70)	2-HEXANONE	8.367	58	1897	0.19	PPBV	#	88
71)	ETHYL METHACRYLATE	8.499	69	2219	0.16	PPBV	#	89
72)	TETRACHLOROETHENE	9.550	164	2367	0.20	PPBV		99
73)	DIBROMOCHLOROMETHANE	8.328	129	3666	0.20	PPBV		95
74)	1,2-DIBROMOETHANE	8.685	107	3098	0.19	PPBV	#	97
75)	OCTANE	9.695	43	3082	0.18	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.785	131	2441	0.19	PPBV		90
78)	CHLOROBENZENE	10.775	112	5031	0.20	PPBV		98
79)	ETHYLBENZENE	11.659	91	7325	0.19	PPBV		98
80)	M,P-XYLENE	12.093	91	10350	0.36	PPBV	#	54
81)	O-XYLENE	13.042	91	5420	0.19	PPBV		91
82)	STYRENE	12.823	104	3709	0.17	PPBV		93
83)	NONANE	14.158	43	3368	0.19	PPBV		95
84)	BROMOFORM	11.913	173	3240	0.19	PPBV		97
85)	1,1,2,2-TETRACHLOROETHANE	13.045	83	4248	0.20	PPBV	#	98
86)	1,2,3-TRICHLOROPROPANE	13.335	75	3248	0.21	PPBV	#	99
88)	ISOPROPYLBENZENE	14.563	120	2033	0.18	PPBV		87
89)	BROMOBENZENE	14.434	77	3885	0.20	PPBV		88
90)	2-CHLOROTOLUENE	15.572	126	1723	0.18	PPBV		92
91)	N-PROPYLBENZENE	15.916	120	1853	0.17	PPBV		96
92)	4-ETHYLTOLUENE	16.228	105	6491	0.17	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.373	105	5633	0.18	PPBV	#	95
94)	ALPHA-METHYLSTYRENE	16.559	118	2674	0.17	PPBV		97
95)	TERT-BUTYLBENZENE	16.807	134	1481	0.19	PPBV		86
96)	1,2,4-TRIMETHYLBENZENE	16.817	105	5516	0.18	PPBV		94
97)	BENZYL CHLORIDE	16.897	91	2517	0.19	PPBV	#	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56781.D
Acq On : 20 Dec 2021 12:37 pm
Operator : danat
Sample : ic2529-0.2
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:11:34 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:56:48 2021
Response via : Initial Calibration

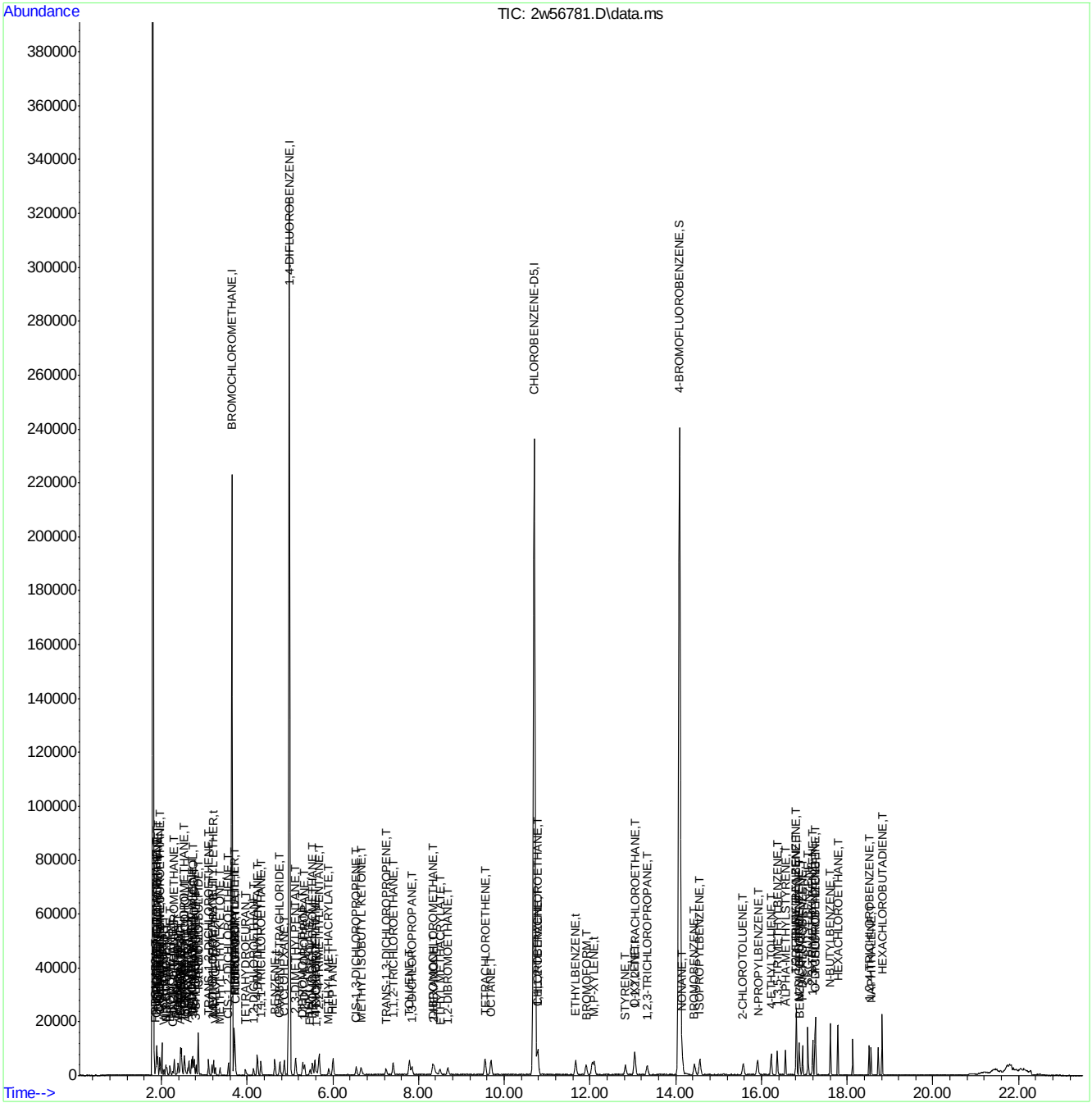
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98)	M-DICHLOROBENZENE	16.875	146	3952	0.19	PPBV	98
99)	P-DICHLOROBENZENE	16.958	146	3887	0.20	PPBV	92
100)	O-DICHLOROBENZENE	17.248	146	3778	0.20	PPBV	99
101)	SEC-BUTYLBENZENE	17.087	134	1712	0.18	PPBV	99
102)	1,2,3-TRIMETHYLBENZENE	17.193	105	5491	0.19	PPBV	94
103)	P-ISOPROPYLTOLUENE	17.260	134	1846	0.19	PPBV	96
104)	N-BUTYLBENZENE	17.601	134	1500	0.18	PPBV	88
105)	HEXACHLOROETHANE	17.785	117	2314	0.20	PPBV	97
106)	HEXACHLOROBUTADIENE	18.820	225	2615	0.23	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.511	180	2229	0.22	PPBV	96
108)	NAPHTHALENE	18.559	128	4927	0.21	PPBV	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56781.D
Acq On : 20 Dec 2021 12:37 pm
Operator : danat
Sample : ic2529-0.2
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:11:34 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:56:48 2021
Response via : Initial Calibration



Manual Integration Approval Summary

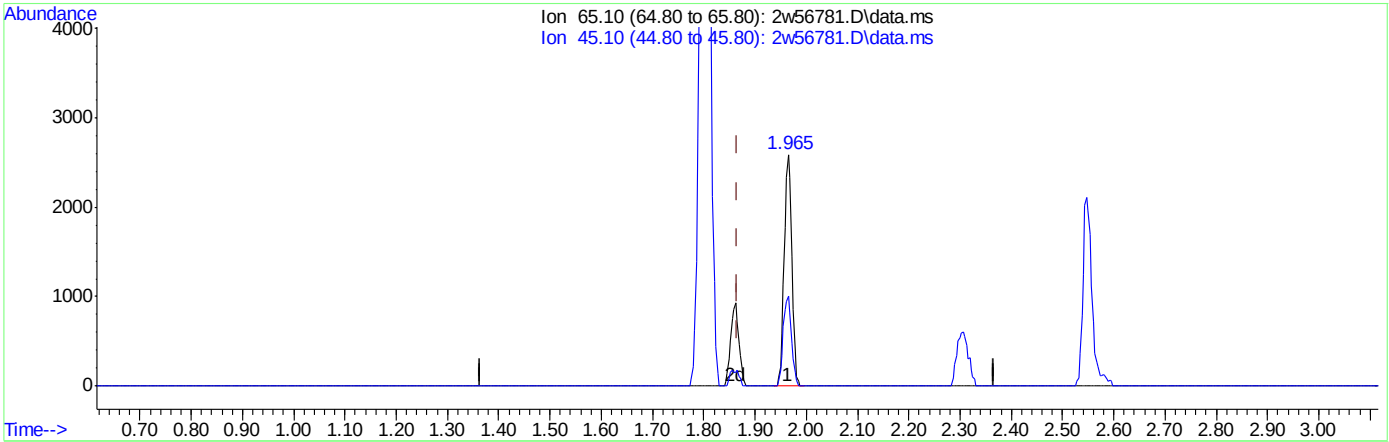
Sample Number:	V2W2529-IC2529	**Method:**	TO-15
Lab FileID:	2W56781.D	**Analyst approved:**	12/21/21 09:22 Dana Tryon
Injection Time:	12/20/21 12:37	**Supervisor approved:**	12/21/21 09:28 Dana Tryon

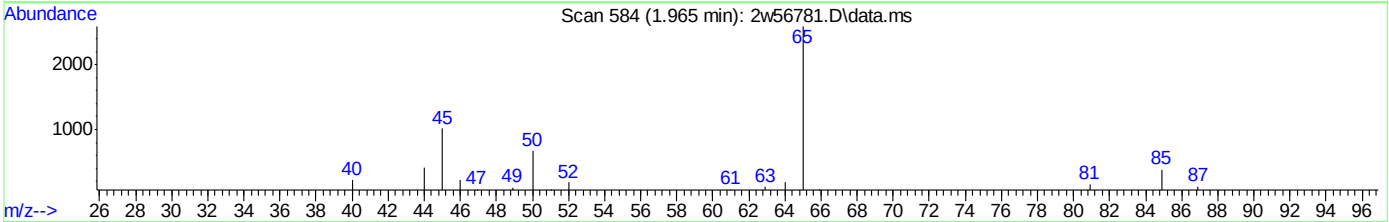
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.86	Missed peak

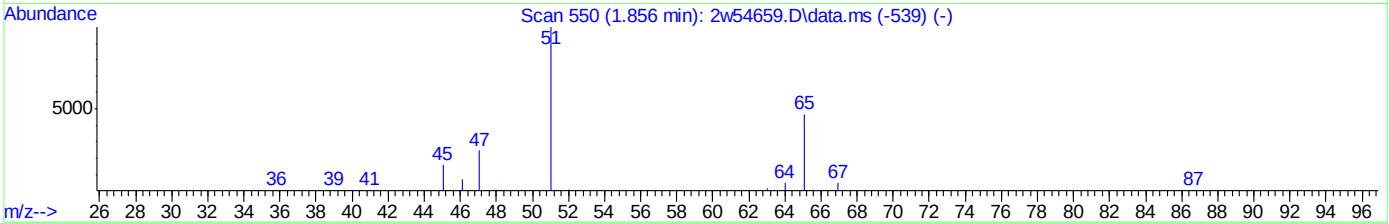
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56781.D
Acq On : 20 Dec 2021 12:37 pm
Operator : danat
Sample : ic2529-0.2
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 14:57:04 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:56:48 2021
Response via : Initial Calibration







TIC: 2w56781.D\data.ms

(3) FREON 152A (T)

1.965min (+0.099) 0.53PPBV

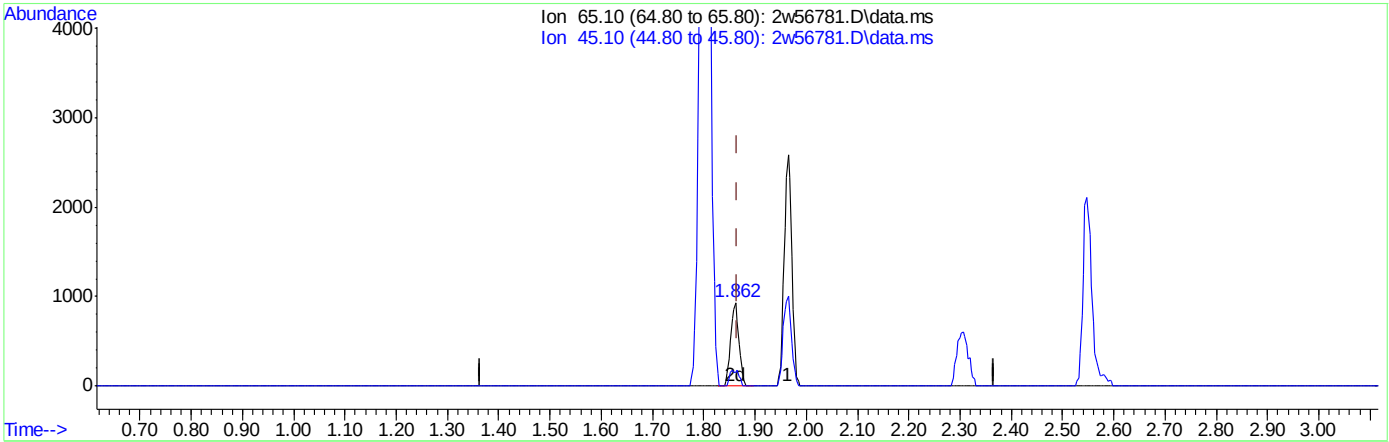
response 2685

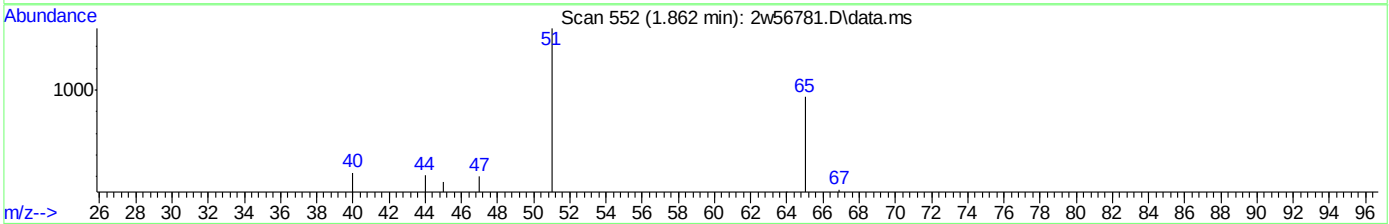
Ion	Exp%	Act%
65.10	100	100
45.10	36.50	42.16
0.00	0.00	0.00
0.00	0.00	0.00

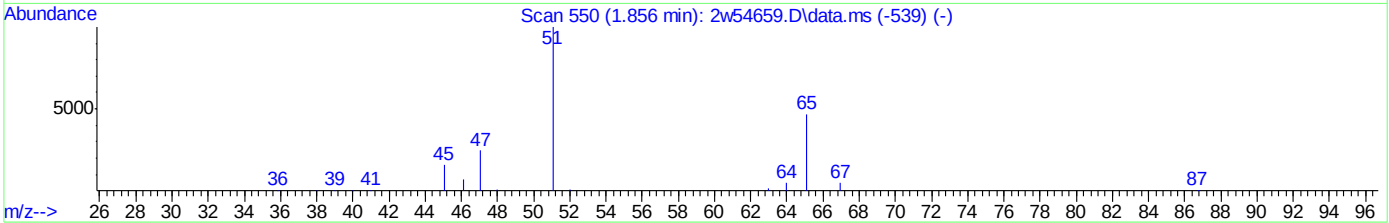
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56781.D
Acq On : 20 Dec 2021 12:37 pm
Operator : danat
Sample : ic2529-0.2
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 14:57:04 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:56:48 2021
Response via : Initial Calibration







TIC: 2w56781.D\data.ms

(3) FREON 152A (T)

1.862min (-0.004) 0.20PPBV m

response 1028

Ion	Exp%	Act%
65.10	100	100
45.10	36.50	110.12#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56782.D
Acq On : 20 Dec 2021 1:12 pm
Operator : danat
Sample : ic2529-0.1
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:11:49 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:58:49 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.644	128	52684	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.985	114	279303	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.698	117	246432	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	162534	9.88	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.862	65	464	0.09	PPBV	#	38
4) CHLORODIFLUOROMETHANE	1.882	67	184	0.09	PPBV	#	40
5) CHLOROTRIFLUOROETHENE	1.898	116	1254	0.10	PPBV	#	98
6) DICHLORODIFLUOROMETHANE	1.917	85	1928	0.10	PPBV	#	96
7) PROPYLENE	1.888	41	523	0.10	PPBV		95
8) 1-CHLORO-1,1-DIFLUOROE...	1.969	65	1300	0.10	PPBV	#	33
9) FREON 114	2.014	85	2086	0.10	PPBV		93
10) CHLOROMETHANE	1.978	52	186	0.09	PPBV		75
11) VINYL CHLORIDE	2.055	62	853	0.11	PPBV	#	89
12) 1,3-BUTADIENE	2.107	54	569	0.10	PPBV	#	75
13) N-BUTANE	2.129	43	1016	0.11	PPBV	#	89
14) BROMOMETHANE	2.203	94	847	0.11	PPBV	#	89
15) CHLOROETHANE	2.268	64	423	0.09	PPBV	#	72
16) DICHLOROFLUOROMETHANE	2.300	67	1652	0.09	PPBV	#	97
17) ACETONITRILE	2.390	41	668	0.11	PPBV	#	3
18) ACROLEIN	2.428	56	326	0.09	PPBV		96
19) FREON 123	2.448	83	1896	0.10	PPBV	#	89
20) FREON 123A	2.467	117	1012	0.10	PPBV		88
21) TRICHLOROFLUOROMETHANE	2.534	101	1694	0.10	PPBV		99
24) PENTANE	2.647	42	511	0.10	PPBV		85
25) IODOMETHANE	2.705	142	1932	0.10	PPBV	#	77
26) 1,1-DICHLOROETHYLENE	2.727	96	708	0.10	PPBV	#	77
27) CARBON DISULFIDE	2.862	76	1882	0.10	PPBV	#	74
29) BROMOETHENE	2.399	106	717	0.09	PPBV	#	91
30) ACRYLONITRILE	2.618	52	474	0.11	PPBV	#	91
31) METHYLENE CHLORIDE	2.766	84	1174	0.15	PPBV		87
32) 3-CHLOROPROPENE	2.805	76	308	0.09	PPBV	#	71
33) FREON 113	2.862	151	1176	0.10	PPBV		93
34) TRANS-1,2-DICHLOROETHENE	3.100	96	845	0.10	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.740	59	866	0.10	PPBV	#	69
36) METHYL TERTIARY BUTYL ...	3.219	73	1528	0.10	PPBV	#	85
37) TETRAHYDROFURAN	3.969	72	221	0.06	PPBV	#	59
38) HEXANE	3.702	57	1302	0.10	PPBV	#	77
39) VINYL ACETATE	3.261	86	163	0.08	PPBV	#	54
40) 1,1-DICHLOROETHANE	3.181	63	1323	0.09	PPBV	#	96
41) METHYL ETHYL KETONE	3.364	72	388	0.09	PPBV	#	94
42) CIS-1,2-DICHLOROETHENE	3.563	96	850	0.09	PPBV		96
43) DIISOPROPYL ETHER	3.705	59	294	0.08	PPBV		75
44) ETHYL ACETATE	3.715	61	157	0.07	PPBV	#	55
45) METHYL ACRYLATE	3.698	55	1475	0.10	PPBV	#	96
46) CHLOROFORM	3.721	83	1653	0.10	PPBV	#	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56782.D
Acq On : 20 Dec 2021 1:12 pm
Operator : danat
Sample : ic2529-0.1
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:11:49 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:58:49 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47)	2,4-DIMETHYLPENTANE	4.242	57	1518	0.10	PPBV		90
48)	1,1,1-TRICHLOROETHANE	4.325	97	1422	0.10	PPBV		95
49)	CARBON TETRACHLORIDE	4.766	117	1533	0.10	PPBV		95
50)	1,2-DICHLOROETHANE	4.155	62	912	0.09	PPBV	#	95
51)	BENZENE	4.650	78	2685	0.10	PPBV		90
53)	CYCLOHEXANE	4.866	84	1154	0.10	PPBV		96
54)	2,3-DIMETHYLPENTANE	5.136	71	569	0.09	PPBV	#	81
55)	TRICHLOROETHENE	5.579	95	1117	0.10	PPBV		100
56)	1,2-DICHLOROPROPANE	5.338	63	932	0.10	PPBV	#	76
57)	DIBROMOMETHANE	5.303	174	1156	0.10	PPBV		92
58)	ETHYL ACRYLATE	5.470	55	1333	0.08	PPBV	#	81
59)	BROMODICHLOROMETHANE	5.525	83	1772	0.10	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.685	57	4373	0.10	PPBV	#	94
61)	1,4-DIOXANE	5.634	88	694	0.09	PPBV	#	47
62)	HEPTANE	6.007	43	1217	0.09	PPBV		99
63)	METHYL METHACRYLATE	5.904	69	691	0.08	PPBV		86
64)	METHYL ISOBUTYL KETONE	6.663	58	548	0.08	PPBV	#	84
65)	CIS-1,3-DICHLOROPROPENE	6.544	75	1176	0.09	PPBV	#	83
66)	TOLUENE	7.785	91	3083	0.10	PPBV		98
67)	1,3-DICHLOROPROPANE	7.843	76	1486	0.10	PPBV	#	90
68)	TRANS-1,3-DICHLOROPROPENE	7.242	75	897	0.09	PPBV	#	80
69)	1,1,2-TRICHLOROETHANE	7.406	83	883	0.09	PPBV		95
70)	2-HEXANONE	8.377	58	787	0.08	PPBV	#	88
71)	ETHYL METHACRYLATE	8.496	69	974	0.08	PPBV	#	78
72)	TETRACHLOROETHENE	9.557	164	1145	0.10	PPBV		96
73)	DIBROMOCHLOROMETHANE	8.338	129	1703	0.09	PPBV		98
74)	1,2-DIBROMOETHANE	8.685	107	1508	0.10	PPBV	#	98
75)	OCTANE	9.689	43	1428	0.09	PPBV		93
77)	1,1,1,2-TETRACHLOROETHANE	10.788	131	1165	0.09	PPBV		88
78)	CHLOROBENZENE	10.779	112	2430	0.10	PPBV		98
79)	ETHYLBENZENE	11.669	91	3446	0.09	PPBV		97
80)	M,P-XYLENE	12.097	91	5060	0.18	PPBV	#	54
81)	O-XYLENE	13.039	91	2552	0.09	PPBV		99
82)	STYRENE	12.823	104	1808	0.09	PPBV	#	88
83)	NONANE	14.151	43	1644	0.10	PPBV	#	32
84)	BROMOFORM	11.917	173	1555	0.09	PPBV	#	91
85)	1,1,2,2-TETRACHLOROETHANE	13.052	83	1986	0.09	PPBV	#	94
86)	1,2,3-TRICHLOROPROPANE	13.335	75	1438	0.09	PPBV	#	99
88)	ISOPROPYLBENZENE	14.560	120	1058	0.10	PPBV	#	82
89)	BROMOBENZENE	14.441	77	1894	0.10	PPBV		87
90)	2-CHLOROTOLUENE	15.582	126	783	0.09	PPBV	#	82
91)	N-PROPYLBENZENE	15.910	120	863	0.08	PPBV	#	62
92)	4-ETHYLTOLUENE	16.228	105	3135	0.09	PPBV	#	96
93)	1,3,5-TRIMETHYLBENZENE	16.367	105	2599	0.09	PPBV		97
94)	ALPHA-METHYLSTYRENE	16.560	118	1270	0.09	PPBV		94
95)	TERT-BUTYLBENZENE	16.810	134	708	0.09	PPBV		89
96)	1,2,4-TRIMETHYLBENZENE	16.817	105	2645	0.09	PPBV		94
97)	BENZYL CHLORIDE	16.897	91	1167	0.09	PPBV	#	97
98)	M-DICHLOROBENZENE	16.875	146	1879	0.09	PPBV		98
99)	P-DICHLOROBENZENE	16.958	146	1749	0.09	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56782.D
Acq On : 20 Dec 2021 1:12 pm
Operator : danat
Sample : ic2529-0.1
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:11:49 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:58:49 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
100) O-DICHLOROBENZENE	17.248	146	1784	0.10	PPBV		98
101) SEC-BUTYLBENZENE	17.087	134	824	0.09	PPBV		100
102) 1,2,3-TRIMETHYLBENZENE	17.193	105	2485	0.09	PPBV	#	92
103) P-ISOPROPYLTOLUENE	17.261	134	851	0.09	PPBV		93
104) N-BUTYLBENZENE	17.601	134	725	0.09	PPBV		97
105) HEXACHLOROETHANE	17.785	117	1105	0.09	PPBV		98
106) HEXACHLOROBUTADIENE	18.814	225	1248	0.10	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.508	180	1000	0.09	PPBV		92
108) NAPHTHALENE	18.556	128	2287	0.10	PPBV		97

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

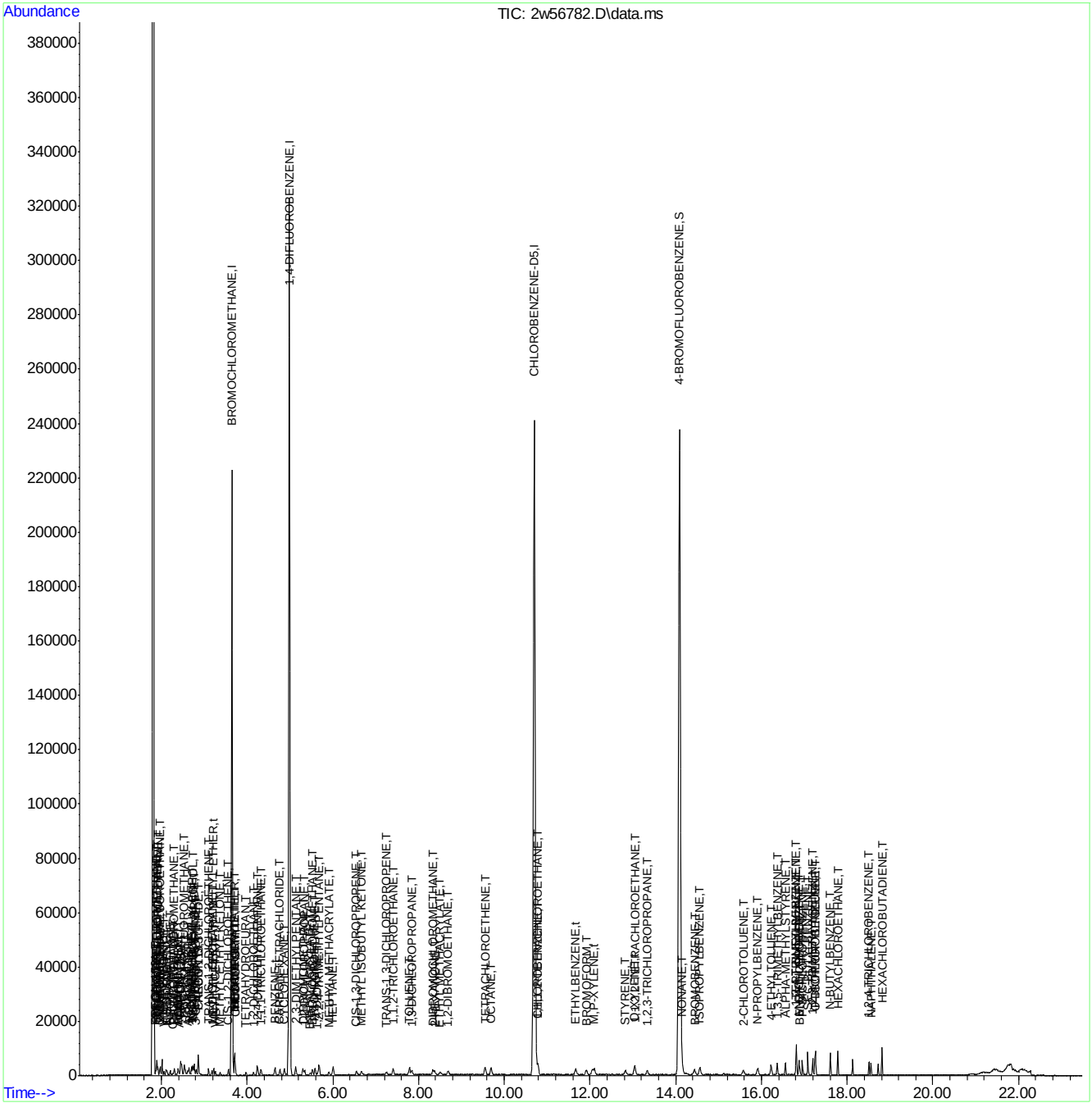
7.7.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56782.D
Acq On : 20 Dec 2021 1:12 pm
Operator : danat
Sample : ic2529-0.1
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:11:49 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 14:58:49 2021
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Dana Tryon
12/21/21 09:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56783.D
Acq On : 20 Dec 2021 1:48 pm
Operator : danat
Sample : ic2529-0.04
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:12:04 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:01:06 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.647	128	53159	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.985	114	280557	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.695	117	244809	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.087	95	160819	9.87	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.859	65	181	0.04	PPBV	#	38
5) CHLOROTRIFLUOROETHENE	1.888	116	505	0.04	PPBV	#	93
6) DICHLORODIFLUOROMETHANE	1.911	85	725	0.04	PPBV	#	90
7) PROPYLENE	1.888	41	244	0.04	PPBV		93
8) 1-CHLORO-1,1-DIFLUOROE...	1.962	65	503	0.04	PPBV	#	1
9) FREON 114	2.007	85	860	0.04	PPBV		93
10) CHLOROMETHANE	1.972	52	57m	0.03	PPBV		
11) VINYL CHLORIDE	2.052	62	305	0.04	PPBV	#	49
12) 1,3-BUTADIENE	2.104	54	215	0.04	PPBV	#	63
13) N-BUTANE	2.123	43	445	0.05	PPBV	#	68
14) BROMOMETHANE	2.203	94	327	0.04	PPBV	#	94
15) CHLOROETHANE	2.271	64	172	0.04	PPBV	#	44
16) DICHLOROFLUOROMETHANE	2.300	67	664	0.04	PPBV	#	92
17) ACETONITRILE	2.383	41	257	0.04	PPBV	#	31
18) ACROLEIN	2.425	56	133	0.04	PPBV	#	13
19) FREON 123	2.444	83	732	0.04	PPBV	#	88
20) FREON 123A	2.467	117	392	0.04	PPBV		81
21) TRICHLOROFLUOROMETHANE	2.534	101	710	0.04	PPBV	#	93
24) PENTANE	2.641	42	208	0.04	PPBV	#	68
25) IODOMETHANE	2.702	142	791	0.04	PPBV	#	75
26) 1,1-DICHLOROETHYLENE	2.731	96	279	0.04	PPBV	#	64
27) CARBON DISULFIDE	2.862	76	744	0.04	PPBV	#	64
29) BROMOETHENE	2.390	106	288	0.04	PPBV	#	88
30) ACRYLONITRILE	2.618	52	181	0.04	PPBV	#	72
32) 3-CHLOROPROPENE	2.801	76	98m	0.03	PPBV		
33) FREON 113	2.862	151	458	0.04	PPBV		96
34) TRANS-1,2-DICHLOROETHENE	3.104	96	319	0.04	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.743	59	339	0.04	PPBV	#	73
36) METHYL TERTIARY BUTYL ...	3.219	73	601	0.04	PPBV	#	85
38) HEXANE	3.705	57	506	0.04	PPBV	#	73
40) 1,1-DICHLOROETHANE	3.184	63	512	0.04	PPBV	#	82
42) CIS-1,2-DICHLOROETHENE	3.567	96	341	0.04	PPBV		98
43) DIISOPROPYL ETHER	3.698	59	100	0.03	PPBV	#	33
45) METHYL ACRYLATE	3.702	55	543	0.04	PPBV	#	65
46) CHLOROFORM	3.727	83	627	0.04	PPBV	#	88
47) 2,4-DIMETHYLPENTANE	4.239	57	578	0.04	PPBV		93
48) 1,1,1-TRICHLOROETHANE	4.325	97	574	0.04	PPBV		99
49) CARBON TETRACHLORIDE	4.763	117	593	0.04	PPBV	#	95
50) 1,2-DICHLOROETHANE	4.152	62	339	0.04	PPBV	#	49
51) BENZENE	4.644	78	1127	0.04	PPBV	#	74
53) CYCLOHEXANE	4.862	84	452	0.04	PPBV	#	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56783.D
Acq On : 20 Dec 2021 1:48 pm
Operator : danat
Sample : ic2529-0.04
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:12:04 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:01:06 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54)	2,3-DIMETHYLPENTANE	5.126	71	185	0.03	PPBV	#	42
55)	TRICHLOROETHENE	5.579	95	449	0.04	PPBV		90
56)	1,2-DICHLOROPROPANE	5.335	63	397	0.04	PPBV	#	52
57)	DIBROMOMETHANE	5.300	174	545	0.05	PPBV		94
58)	ETHYL ACRYLATE	5.473	55	478	0.03	PPBV	#	72
59)	BROMODICHLOROMETHANE	5.531	83	763	0.04	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.676	57	1638	0.04	PPBV	#	91
62)	HEPTANE	6.001	43	473	0.04	PPBV		95
65)	CIS-1,3-DICHLOROPROPENE	6.554	75	388	0.03	PPBV	#	31
66)	TOLUENE	7.798	91	1257	0.04	PPBV		93
67)	1,3-DICHLOROPROPANE	7.846	76	488	0.03	PPBV	#	42
68)	TRANS-1,3-DICHLOROPROPENE	7.245	75	307	0.03	PPBV	#	35
69)	1,1,2-TRICHLOROETHANE	7.402	83	366	0.04	PPBV	#	80
70)	2-HEXANONE	8.373	58	239	0.03	PPBV	#	74
71)	ETHYL METHACRYLATE	8.499	69	323	0.03	PPBV	#	65
72)	TETRACHLOROETHENE	9.553	164	410	0.03	PPBV		90
73)	DIBROMOCHLOROMETHANE	8.328	129	666	0.04	PPBV	#	83
74)	1,2-DIBROMOETHANE	8.695	107	552	0.04	PPBV	#	97
75)	OCTANE	9.689	43	575	0.04	PPBV		90
77)	1,1,1,2-TETRACHLOROETHANE	10.791	131	431	0.04	PPBV	#	34
78)	CHLOROBENZENE	10.775	112	935	0.04	PPBV	#	92
79)	ETHYLBENZENE	11.659	91	1348	0.04	PPBV		91
80)	M,P-XYLENE	12.110	91	2015	0.07	PPBV	#	54
81)	O-XYLENE	13.039	91	1017	0.04	PPBV	#	92
82)	STYRENE	12.833	104	604	0.03	PPBV	#	87
83)	NONANE	14.161	43	654	0.04	PPBV	#	26
84)	BROMOFORM	11.923	173	525	0.03	PPBV	#	76
85)	1,1,2,2-TETRACHLOROETHANE	13.042	83	829	0.04	PPBV	#	93
86)	1,2,3-TRICHLOROPROPANE	13.335	75	540	0.03	PPBV	#	99
88)	ISOPROPYLBENZENE	14.579	120	353	0.03	PPBV	#	19
89)	BROMOBENZENE	14.438	77	713	0.04	PPBV	#	83
90)	2-CHLOROTOLUENE	15.566	126	268	0.03	PPBV	#	42
91)	N-PROPYLBENZENE	15.910	120	281	0.03	PPBV	#	62
92)	4-ETHYLTOLUENE	16.228	105	1202	0.03	PPBV	#	96
93)	1,3,5-TRIMETHYLBENZENE	16.373	105	1049	0.04	PPBV	#	93
94)	ALPHA-METHYLSTYRENE	16.560	118	493	0.03	PPBV	#	91
95)	TERT-BUTYLBENZENE	16.807	134	273	0.04	PPBV		90
96)	1,2,4-TRIMETHYLBENZENE	16.817	105	1002	0.03	PPBV		91
97)	BENZYL CHLORIDE	16.900	91	451	0.04	PPBV	#	62
98)	M-DICHLOROBENZENE	16.878	146	777	0.04	PPBV		92
99)	P-DICHLOROBENZENE	16.958	146	731	0.04	PPBV		95
100)	O-DICHLOROBENZENE	17.248	146	747	0.04	PPBV		91
101)	SEC-BUTYLBENZENE	17.087	134	304	0.03	PPBV		92
102)	1,2,3-TRIMETHYLBENZENE	17.190	105	961	0.03	PPBV	#	89
103)	P-ISOPROPYLTOLUENE	17.261	134	326	0.03	PPBV		89
104)	N-BUTYLBENZENE	17.601	134	249	0.03	PPBV		82
105)	HEXACHLOROETHANE	17.781	117	441	0.04	PPBV		93
106)	HEXACHLOROBUTADIENE	18.817	225	481	0.04	PPBV		93
107)	1,2,4-TRICHLOROBENZENE	18.508	180	407	0.04	PPBV		97
108)	NAPHTHALENE	18.556	128	846	0.04	PPBV	#	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56783.D
Acq On : 20 Dec 2021 1:48 pm
Operator : danat
Sample : ic2529-0.04
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:12:04 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:01:06 2021
Response via : Initial Calibration

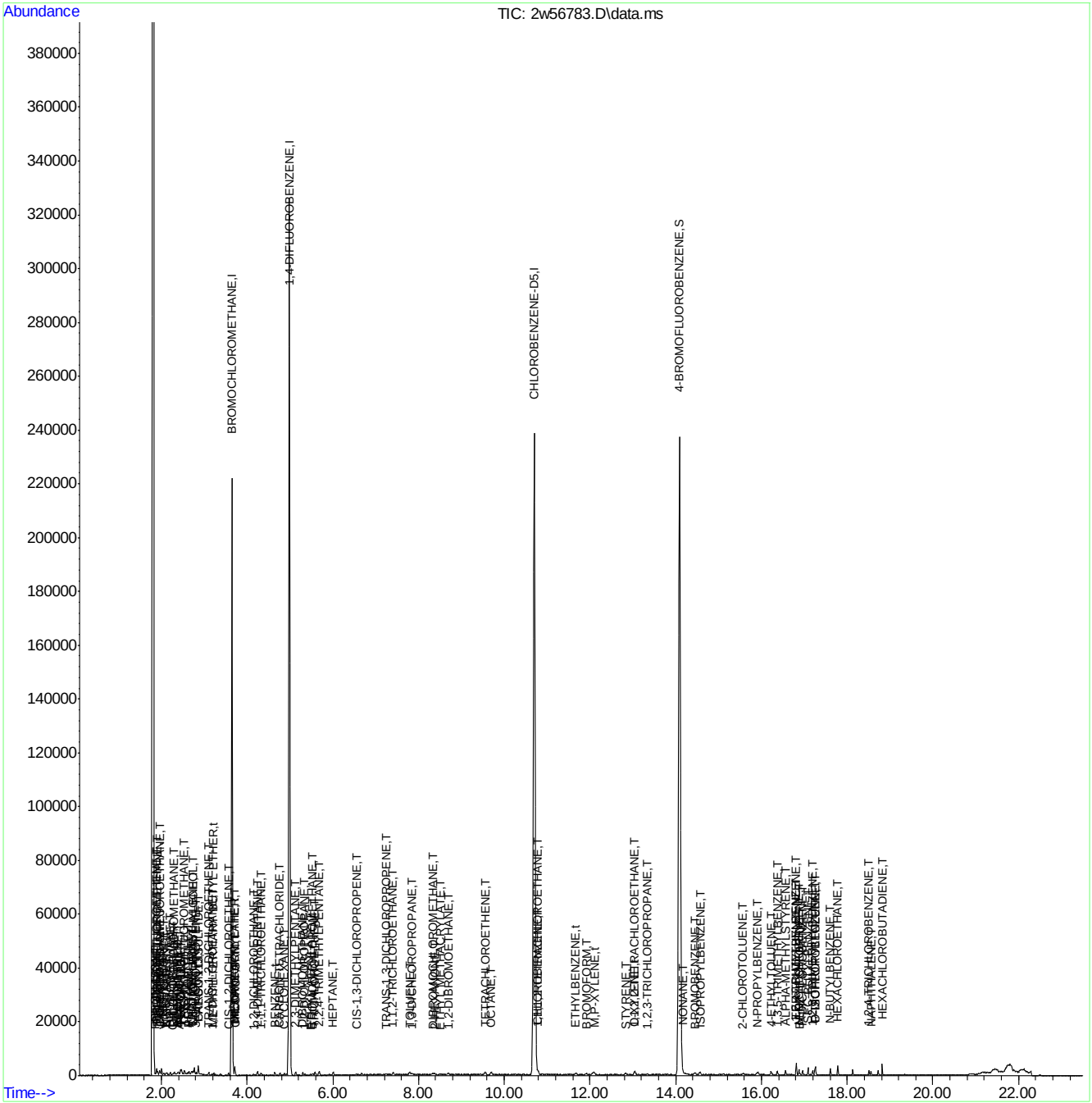
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56783.D
Acq On : 20 Dec 2021 1:48 pm
Operator : danat
Sample : ic2529-0.04
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 09:12:04 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:01:06 2021
Response via : Initial Calibration



Manual Integration Approval Summary

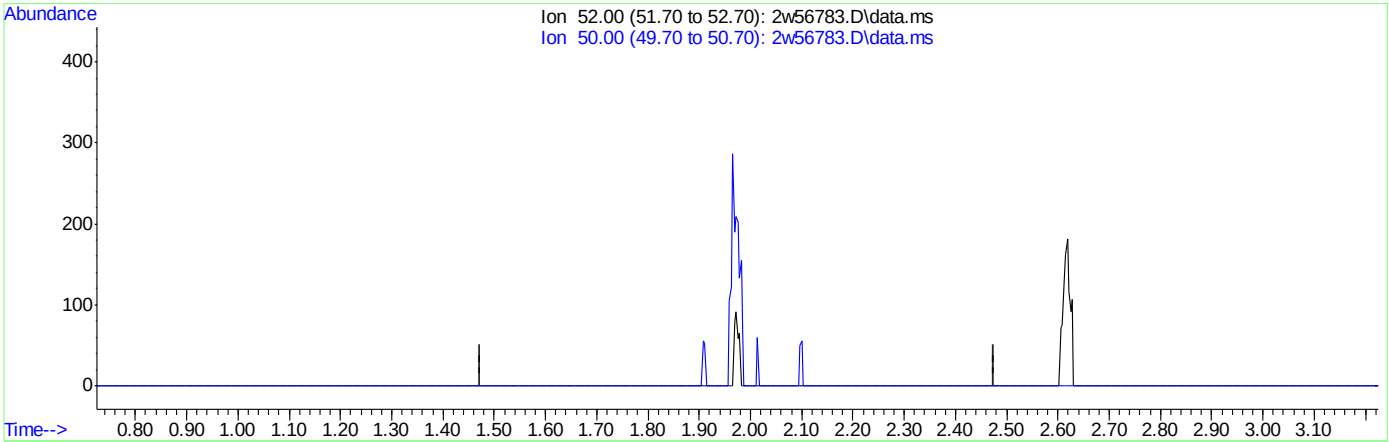
Sample Number: V2W2529-IC2529
Lab FileID: 2W56783.D
Injection Time: 12/20/21 13:48
Method: TO-15
Analyst approved: 12/21/21 09:22 Dana Tryon
Supervisor approved: 12/21/21 09:28 Dana Tryon

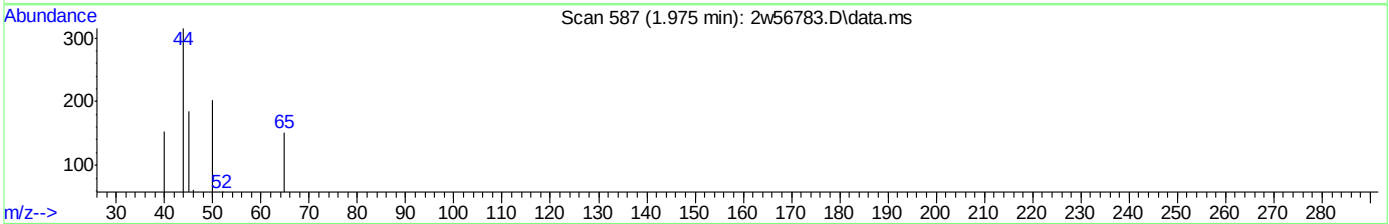
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloromethane	74-87-3		1.97	Missed peak
3-Chloropropene	107-05-1		2.80	Missed peak

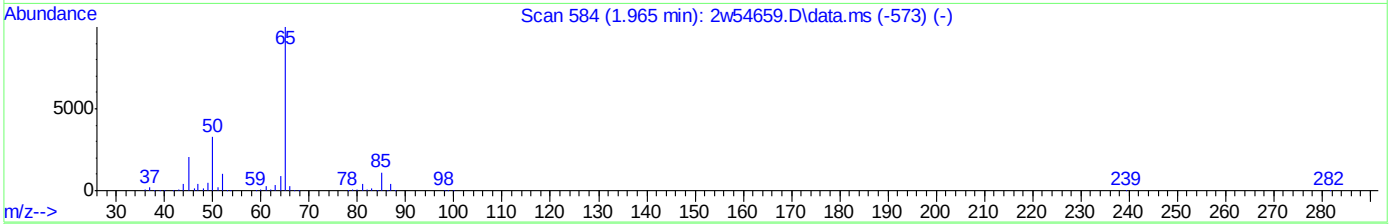
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56783.D
Acq On : 20 Dec 2021 1:48 pm
Operator : danat
Sample : ic2529-0.04
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 15:01:17 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:01:06 2021
Response via : Initial Calibration







TIC: 2w56783.D\data.ms

(10) CHLOROMETHANE (T)

1.975min (-1.975) 0.00PPBV

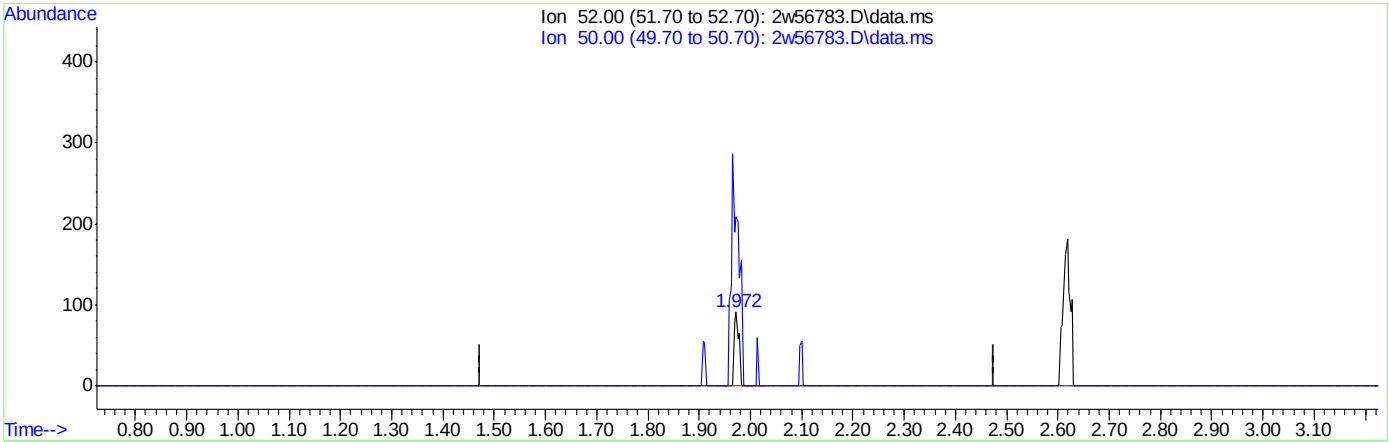
response 0

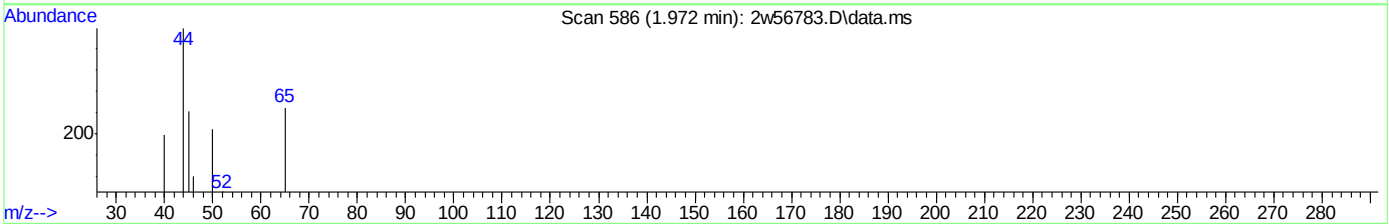
Ion	Exp%	Act%
52.00	100	0.00
50.00	316.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

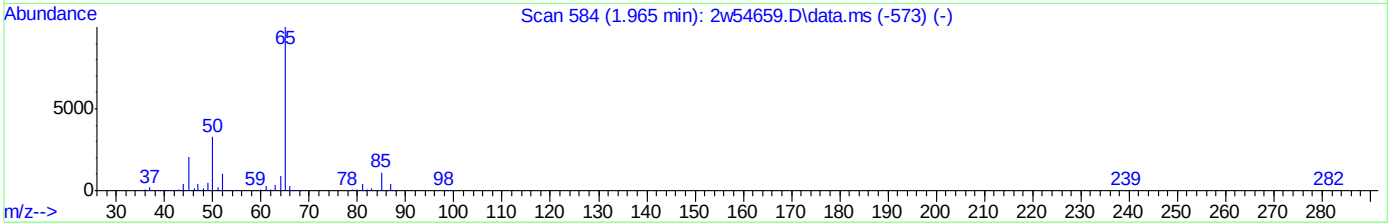
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56783.D
Acq On : 20 Dec 2021 1:48 pm
Operator : danat
Sample : ic2529-0.04
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 15:01:17 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:01:06 2021
Response via : Initial Calibration







TIC: 2w56783.D\data.ms

(10) CHLOROMETHANE (T)

1.972min (-0.003) 0.03PPBV m

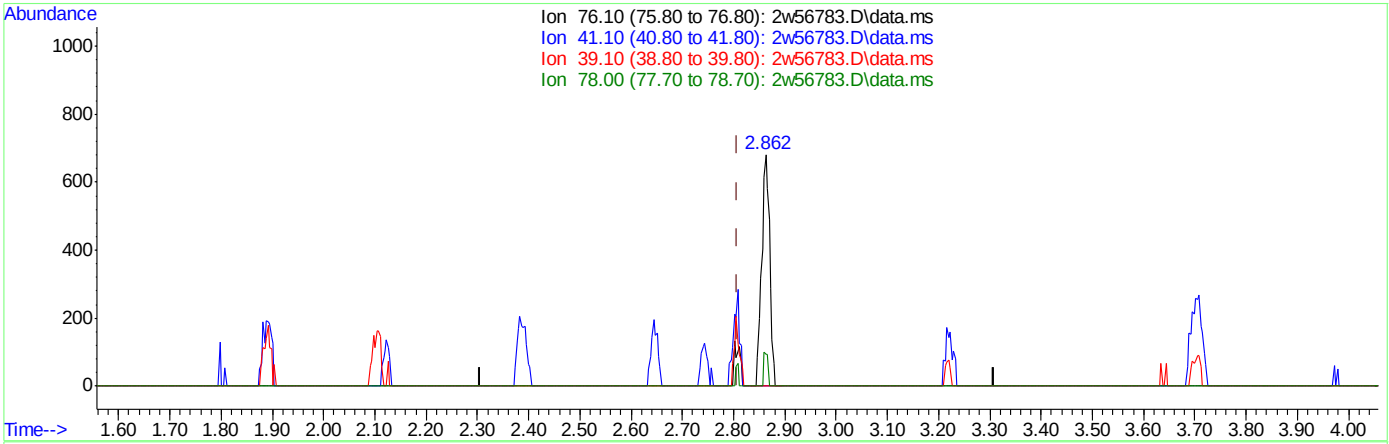
response 57

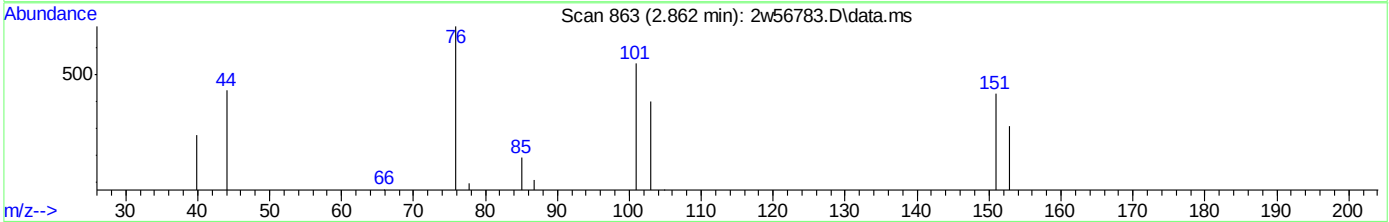
Ion	Exp%	Act%
52.00	100	100
50.00	316.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

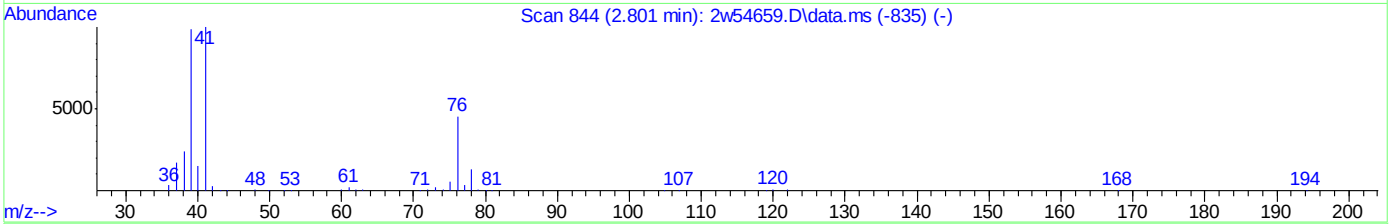
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56783.D
Acq On : 20 Dec 2021 1:48 pm
Operator : danat
Sample : ic2529-0.04
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 15:01:17 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:01:06 2021
Response via : Initial Calibration







TIC: 2w56783.D\data.ms

(32) 3-CHLOROPROPENE (T)

2.862min (+0.055) 0.23PPBV

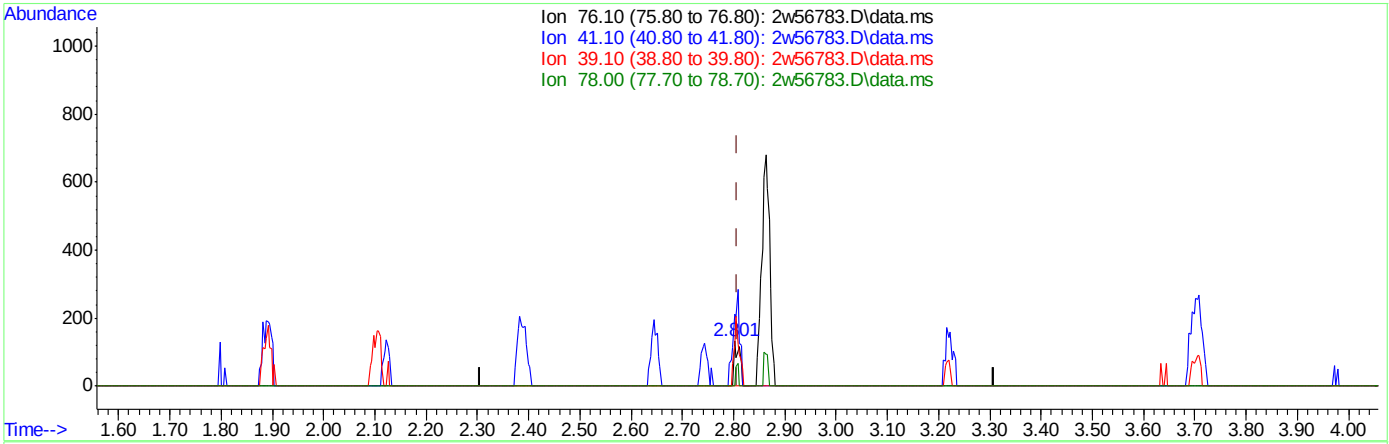
response 744

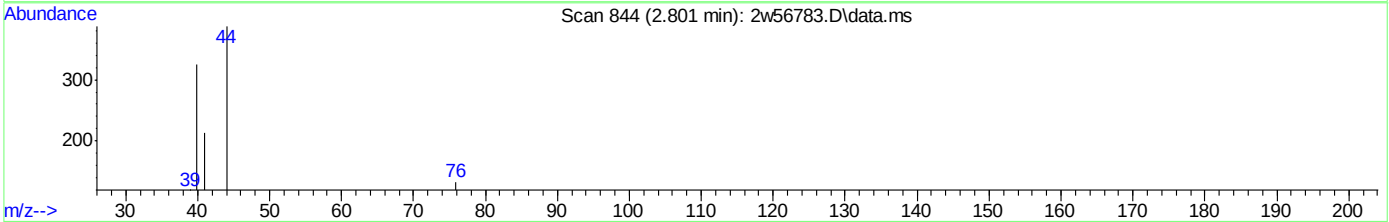
Ion	Exp%	Act%
76.10	100	100
41.10	228.30	0.00#
39.10	226.60	0.00#
78.00	31.60	0.00#

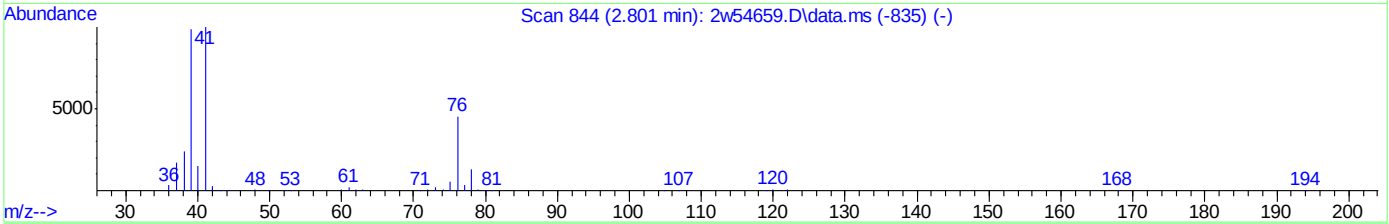
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56783.D
Acq On : 20 Dec 2021 1:48 pm
Operator : danat
Sample : ic2529-0.04
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 15:01:17 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:01:06 2021
Response via : Initial Calibration







TIC: 2w56783.D\data.ms

(32) 3-CHLOROPROPENE (T)

2.801min (-0.006) 0.03PPBV m

response 98

Ion	Exp%	Act%
76.10	100	100
41.10	228.30	0.00#
39.10	226.60	0.00#
78.00	31.60	0.00#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56784.D
Acq On : 20 Dec 2021 2:23 pm
Operator : danat
Sample : ic2529-5
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 14:52:59 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 07:13:39 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.644	128	51576	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.985	114	273003	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	241427	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.087	95	162942	9.97	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.856	65	24560	5.28	PPBV	#	77
4) CHLORODIFLUOROMETHANE	1.872	67	9762	5.40	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.888	116	60535	5.14	PPBV	#	99
6) DICHLORODIFLUOROMETHANE	1.911	85	94760	4.42	PPBV		98
7) PROPYLENE	1.888	41	26485	4.99	PPBV		91
8) 1-CHLORO-1,1-DIFLUOROE...	1.962	65	61777	4.93	PPBV	#	94
9) FREON 114	2.007	85	102687	5.12	PPBV		94
10) CHLOROMETHANE	1.969	52	9747	5.16	PPBV		98
11) VINYL CHLORIDE	2.049	62	38537	5.13	PPBV		98
12) 1,3-BUTADIENE	2.100	54	27396	5.04	PPBV	#	74
13) N-BUTANE	2.120	43	46603	5.04	PPBV		96
14) BROMOMETHANE	2.197	94	38295	5.03	PPBV		97
15) CHLOROETHANE	2.261	64	21816	5.07	PPBV	#	88
16) DICHLOROFLUOROMETHANE	2.297	67	82737	5.00	PPBV	#	98
17) ACETONITRILE	2.383	41	24433	4.10	PPBV	#	91
18) ACROLEIN	2.428	56	15413	4.39	PPBV		98
19) FREON 123	2.445	83	87011	5.09	PPBV	#	93
20) FREON 123A	2.464	117	49042	5.16	PPBV		84
21) TRICHLOROFLUOROMETHANE	2.531	101	81939	5.03	PPBV		100
22) ISOPROPYL ALCOHOL	2.547	45	45275	4.27	PPBV	#	95
23) ACETONE	2.470	58	15744	4.31	PPBV	#	35
24) PENTANE	2.644	42	24488	4.80	PPBV	#	82
25) IODOMETHANE	2.702	142	91656	5.06	PPBV	#	79
26) 1,1-DICHLOROETHYLENE	2.727	96	34168	5.03	PPBV	#	77
27) CARBON DISULFIDE	2.863	76	86935	5.02	PPBV	#	88
28) ETHANOL	2.300	45	12354	4.23	PPBV	#	96
29) BROMOETHENE	2.393	106	36639	5.08	PPBV	#	96
30) ACRYLONITRILE	2.615	52	18771	4.30	PPBV		94
31) METHYLENE CHLORIDE	2.763	84	31207	4.74	PPBV		91
32) 3-CHLOROPROPENE	2.805	76	15877	4.89	PPBV	#	60
33) FREON 113	2.863	151	58668	5.09	PPBV		98
34) TRANS-1,2-DICHLOROETHENE	3.100	96	41122	5.11	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.737	59	40062	5.05	PPBV	#	78
36) METHYL TERTIARY BUTYL ...	3.216	73	78497	4.98	PPBV		98
37) TETRAHYDROFURAN	3.943	72	19395	5.17	PPBV		99
38) HEXANE	3.702	57	63943	5.18	PPBV	#	75
39) VINYL ACETATE	3.255	86	9844	4.68	PPBV		83
40) 1,1-DICHLOROETHANE	3.181	63	66730	4.92	PPBV		98
41) METHYL ETHYL KETONE	3.358	72	19804	4.51	PPBV		84
42) CIS-1,2-DICHLOROETHENE	3.567	96	43891	4.92	PPBV		95
43) DIISOPROPYL ETHER	3.702	59	18297	5.41	PPBV		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56784.D
Acq On : 20 Dec 2021 2:23 pm
Operator : danat
Sample : ic2529-5
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 14:52:59 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 07:13:39 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	ETHYL ACETATE	3.708	61	11820	5.14	PPBV		57
45)	METHYL ACRYLATE	3.695	55	68623	4.40	PPBV	#	99
46)	CHLOROFORM	3.721	83	78932	4.92	PPBV		94
47)	2,4-DIMETHYLPENTANE	4.239	57	75816	5.06	PPBV		96
48)	1,1,1-TRICHLOROETHANE	4.325	97	71568	5.01	PPBV		98
49)	CARBON TETRACHLORIDE	4.766	117	75729	5.03	PPBV		99
50)	1,2-DICHLOROETHANE	4.152	62	45063	4.91	PPBV	#	97
51)	BENZENE	4.647	78	131513	4.94	PPBV		94
53)	CYCLOHEXANE	4.869	84	58002	5.07	PPBV		93
54)	2,3-DIMETHYLPENTANE	5.129	71	30818	5.20	PPBV		96
55)	TRICHLOROETHENE	5.583	95	56057	5.12	PPBV		97
56)	1,2-DICHLOROPROPANE	5.342	63	46450	4.98	PPBV	#	78
57)	DIBROMOMETHANE	5.300	174	51399	4.71	PPBV		96
58)	ETHYL ACRYLATE	5.464	55	79718	4.86	PPBV		98
59)	BROMODICHLOROMETHANE	5.525	83	86173	5.03	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.679	57	203652	5.05	PPBV		99
61)	1,4-DIOXANE	5.592	88	28909	4.26	PPBV	#	92
62)	HEPTANE	6.007	43	63238	5.11	PPBV		98
63)	METHYL METHACRYLATE	5.898	69	45591	5.15	PPBV		84
64)	METHYL ISOBUTYL KETONE	6.650	58	35666	5.07	PPBV		82
65)	CIS-1,3-DICHLOROPROPENE	6.547	75	65378	4.96	PPBV	#	81
66)	TOLUENE	7.792	91	156737	5.08	PPBV		100
67)	1,3-DICHLOROPROPANE	7.846	76	73971	4.99	PPBV	#	99
68)	TRANS-1,3-DICHLOROPROPENE	7.245	75	52270	4.87	PPBV	#	87
69)	1,1,2-TRICHLOROETHANE	7.409	83	45352	5.12	PPBV		94
70)	2-HEXANONE	8.357	58	41313	4.41	PPBV		80
71)	ETHYL METHACRYLATE	8.492	69	71048	5.42	PPBV		89
72)	TETRACHLOROETHENE	9.554	164	57806	5.09	PPBV		99
73)	DIBROMOCHLOROMETHANE	8.335	129	87767	5.11	PPBV		100
74)	1,2-DIBROMOETHANE	8.685	107	75766	4.91	PPBV		100
75)	OCTANE	9.695	43	84445	5.26	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	10.785	131	60388	5.04	PPBV		92
78)	CHLOROBENZENE	10.779	112	119177	4.83	PPBV		98
79)	ETHYLBENZENE	11.666	91	191216	5.06	PPBV		98
80)	M,P-XYLENE	12.100	91	290739	10.33	PPBV	#	97
81)	O-XYLENE	13.042	91	145548	5.16	PPBV		94
82)	STYRENE	12.827	104	112693	5.27	PPBV		93
83)	NONANE	14.155	43	83281	4.95	PPBV		91
84)	BROMOFORM	11.914	173	81538	4.91	PPBV	#	98
85)	1,1,2,2-TETRACHLOROETHANE	13.052	83	102511	4.73	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	13.335	75	76433	4.78	PPBV		100
88)	ISOPROPYLBENZENE	14.563	120	55588	5.06	PPBV		87
89)	BROMOBENZENE	14.434	77	93932	4.73	PPBV		92
90)	2-CHLOROTOLUENE	15.579	126	47320	4.97	PPBV		98
91)	N-PROPYLBENZENE	15.910	120	55448	5.38	PPBV		99
92)	4-ETHYLTOLUENE	16.229	105	195807	5.25	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	16.370	105	157152	5.10	PPBV	#	94
94)	ALPHA-METHYLSTYRENE	16.560	118	80508	5.14	PPBV		97
95)	TERT-BUTYLBENZENE	16.807	134	39653	5.17	PPBV		86
96)	1,2,4-TRIMETHYLBENZENE	16.817	105	155635	5.07	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56784.D
Acq On : 20 Dec 2021 2:23 pm
Operator : danat
Sample : ic2529-5
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 14:52:59 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 07:13:39 2021
Response via : Initial Calibration

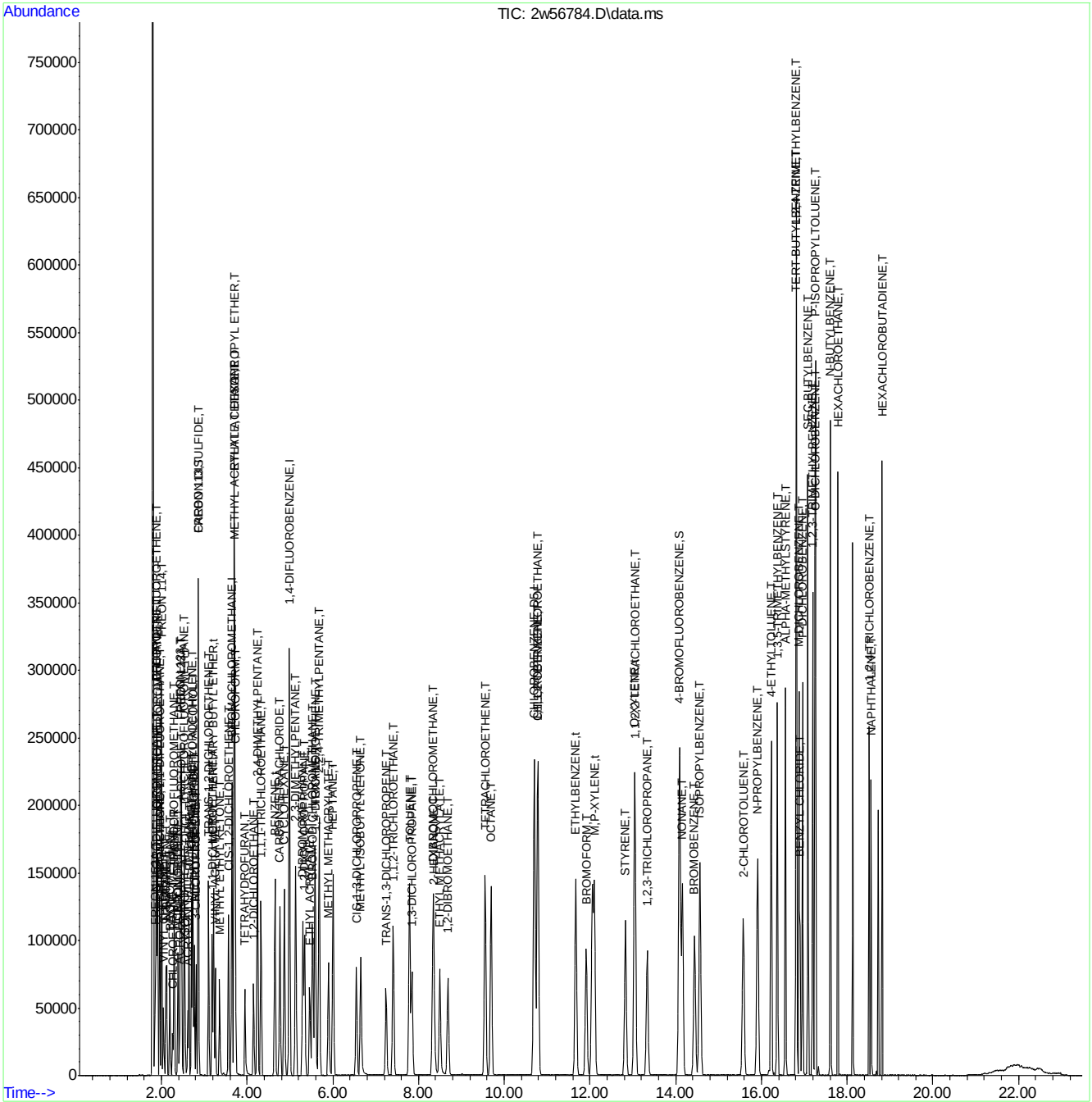
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	BENZYL CHLORIDE	16.901	91	70073	4.11	PPBV		97
98)	M-DICHLOROBENZENE	16.878	146	99289	4.77	PPBV		99
99)	P-DICHLOROBENZENE	16.958	146	97479	4.74	PPBV		97
100)	O-DICHLOROBENZENE	17.248	146	89997	4.62	PPBV		98
101)	SEC-BUTYLBENZENE	17.084	134	47170	5.08	PPBV		94
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	146835	4.85	PPBV	#	95
103)	P-ISOPROPYLTOLUENE	17.261	134	49456	4.97	PPBV		89
104)	N-BUTYLBENZENE	17.605	134	42675	4.86	PPBV		98
105)	HEXACHLOROETHANE	17.785	117	56837	4.60	PPBV		98
106)	HEXACHLOROBUTADIENE	18.820	225	49864	3.39	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.511	180	46617	3.40	PPBV		99
108)	NAPHTHALENE	18.560	128	100031	3.20	PPBV		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56784.D
Acq On : 20 Dec 2021 2:23 pm
Operator : danat
Sample : ic2529-5
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 14:52:59 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 07:13:39 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56785.D
Acq On : 20 Dec 2021 2:59 pm
Operator : danat
Sample : icc2529-10
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 15:33:06 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:03:51 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.650	128	51715	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.988	114	272799	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	237865	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.094	95	160208	10.14	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.863	65	48114	10.03	PPBV	#	77
4) CHLORODIFLUOROMETHANE	1.879	67	19317	9.82	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.895	116	120549	9.77	PPBV	#	99
6) DICHLORODIFLUOROMETHANE	1.917	85	188280	9.83	PPBV		98
7) PROPYLENE	1.895	41	52258	9.59	PPBV		90
8) 1-CHLORO-1,1-DIFLUOROE...	1.969	65	122102	9.54	PPBV	#	94
9) FREON 114	2.014	85	201081	9.63	PPBV		94
10) CHLOROMETHANE	1.975	52	18853	10.49	PPBV		97
11) VINYL CHLORIDE	2.055	62	75850	9.60	PPBV		98
12) 1,3-BUTADIENE	2.107	54	54236	9.78	PPBV	#	73
13) N-BUTANE	2.126	43	90472	9.18	PPBV		97
14) BROMOMETHANE	2.207	94	75220	9.46	PPBV		97
15) CHLOROETHANE	2.271	64	43026	9.84	PPBV		98
16) DICHLOROFLUOROMETHANE	2.303	67	162947	9.71	PPBV	#	98
17) ACETONITRILE	2.387	41	47294	7.59	PPBV	#	92
18) ACROLEIN	2.432	56	30444	9.10	PPBV		97
19) FREON 123	2.451	83	169391	9.42	PPBV	#	94
20) FREON 123A	2.467	117	96510	9.66	PPBV		86
21) TRICHLOROFLUOROMETHANE	2.535	101	159814	9.45	PPBV		100
22) ISOPROPYL ALCOHOL	2.551	45	89089	7.18	PPBV	#	92
23) ACETONE	2.477	58	30539	6.49	PPBV	#	37
24) PENTANE	2.647	42	47867	9.36	PPBV	#	82
25) IODOMETHANE	2.705	142	182361	9.59	PPBV	#	79
26) 1,1-DICHLOROETHYLENE	2.731	96	67348	9.69	PPBV	#	77
27) CARBON DISULFIDE	2.866	76	170250	9.43	PPBV	#	88
28) ETHANOL	2.306	45	24177	5.60	PPBV	#	94
29) BROMOETHENE	2.396	106	72046	9.84	PPBV	#	96
30) ACRYLONITRILE	2.618	52	36758	8.26	PPBV		91
31) METHYLENE CHLORIDE	2.766	84	60954	7.10	PPBV		91
32) 3-CHLOROPROPENE	2.808	76	32340	10.76	PPBV	#	57
33) FREON 113	2.866	151	115758	9.84	PPBV		98
34) TRANS-1,2-DICHLOROETHENE	3.104	96	81925	9.95	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.740	59	81067	9.80	PPBV	#	80
36) METHYL TERTIARY BUTYL ...	3.219	73	162290	10.58	PPBV		97
37) TETRAHYDROFURAN	3.946	72	39756	12.47	PPBV		98
38) HEXANE	3.705	57	124111	9.80	PPBV	#	76
39) VINYL ACETATE	3.258	86	20944	10.91	PPBV		80
40) 1,1-DICHLOROETHANE	3.187	63	133885	10.02	PPBV		98
41) METHYL ETHYL KETONE	3.361	72	40370	9.88	PPBV		83
42) CIS-1,2-DICHLOROETHENE	3.570	96	87745	10.13	PPBV		95
43) DIISOPROPYL ETHER	3.705	59	36457	11.44	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56785.D
Acq On : 20 Dec 2021 2:59 pm
Operator : danat
Sample : icc2529-10
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 15:33:06 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:03:51 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.711	61	24194	11.81	PPBV	#	49
45) METHYL ACRYLATE	3.698	55	137763	9.58	PPBV	#	100
46) CHLOROFORM	3.727	83	157373	9.76	PPBV	#	94
47) 2,4-DIMETHYLPENTANE	4.242	57	149984	10.06	PPBV		97
48) 1,1,1-TRICHLOROETHANE	4.325	97	145094	10.14	PPBV		99
49) CARBON TETRACHLORIDE	4.769	117	152492	10.02	PPBV		99
50) 1,2-DICHLOROETHANE	4.155	62	87714	9.63	PPBV	#	96
51) BENZENE	4.650	78	260166	9.68	PPBV		93
53) CYCLOHEXANE	4.869	84	115957	10.18	PPBV		94
54) 2,3-DIMETHYLPENTANE	5.136	71	60915	10.68	PPBV		98
55) TRICHLOROETHENE	5.586	95	111190	9.89	PPBV		99
56) 1,2-DICHLOROPROPANE	5.345	63	92337	9.87	PPBV	#	78
57) DIBROMOMETHANE	5.303	174	103448	9.07	PPBV		97
58) ETHYL ACRYLATE	5.460	55	166480	11.78	PPBV		99
59) BROMODICHLOROMETHANE	5.528	83	171751	9.69	PPBV		98
60) 2,2,4-TRIMETHYLPENTANE	5.682	57	397900	9.53	PPBV		98
61) 1,4-DIOXANE	5.592	88	57787	7.59	PPBV	#	92
62) HEPTANE	6.007	43	124672	10.19	PPBV		98
63) METHYL METHACRYLATE	5.901	69	95015	11.82	PPBV		83
64) METHYL ISOBUTYL KETONE	6.650	58	74216	11.87	PPBV		80
65) CIS-1,3-DICHLOROPROPENE	6.550	75	136077	11.42	PPBV	#	81
66) TOLUENE	7.788	91	312935	10.15	PPBV		99
67) 1,3-DICHLOROPROPANE	7.846	76	146142	10.28	PPBV	#	100
68) TRANS-1,3-DICHLOROPROPENE	7.248	75	110331	11.75	PPBV	#	87
69) 1,1,2-TRICHLOROETHANE	7.409	83	89424	9.96	PPBV		94
70) 2-HEXANONE	8.357	58	88958	10.53	PPBV		79
71) ETHYL METHACRYLATE	8.499	69	147915	13.51	PPBV		89
72) TETRACHLOROETHENE	9.554	164	116635	10.41	PPBV		98
73) DIBROMOCHLOROMETHANE	8.338	129	176769	10.25	PPBV		100
74) 1,2-DIBROMOETHANE	8.689	107	152795	10.24	PPBV		100
75) OCTANE	9.695	43	166421	10.90	PPBV		98
77) 1,1,1,2-TETRACHLOROETHANE	10.788	131	121527	10.50	PPBV		91
78) CHLOROBENZENE	10.782	112	235925	9.97	PPBV		99
79) ETHYLBENZENE	11.669	91	382800	10.92	PPBV		97
80) M,P-XYLENE	12.100	91	577229	22.21	PPBV	#	97
81) O-XYLENE	13.045	91	289100	10.97	PPBV		94
82) STYRENE	12.830	104	228235	12.35	PPBV		93
83) NONANE	14.158	43	161984	9.91	PPBV		92
84) BROMOFORM	11.914	173	166116	10.95	PPBV	#	99
85) 1,1,2,2-TETRACHLOROETHANE	13.052	83	202673	10.06	PPBV		99
86) 1,2,3-TRICHLOROPROPANE	13.338	75	150239	10.28	PPBV		100
88) ISOPROPYLBENZENE	14.569	120	110984	11.09	PPBV		86
89) BROMOBENZENE	14.444	77	187661	10.16	PPBV		93
90) 2-CHLOROTOLUENE	15.579	126	94965	11.67	PPBV		100
91) N-PROPYLBENZENE	15.910	120	111569	12.49	PPBV		99
92) 4-ETHYLTOLUENE	16.228	105	394437	12.07	PPBV		97
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	316861	11.48	PPBV	#	95
94) ALPHA-METHYLSTYRENE	16.563	118	163657	12.16	PPBV		97
95) TERT-BUTYLBENZENE	16.814	134	78996	10.93	PPBV		86
96) 1,2,4-TRIMETHYLBENZENE	16.820	105	309789	11.34	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56785.D
Acq On : 20 Dec 2021 2:59 pm
Operator : danat
Sample : icc2529-10
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 15:33:06 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:03:51 2021
Response via : Initial Calibration

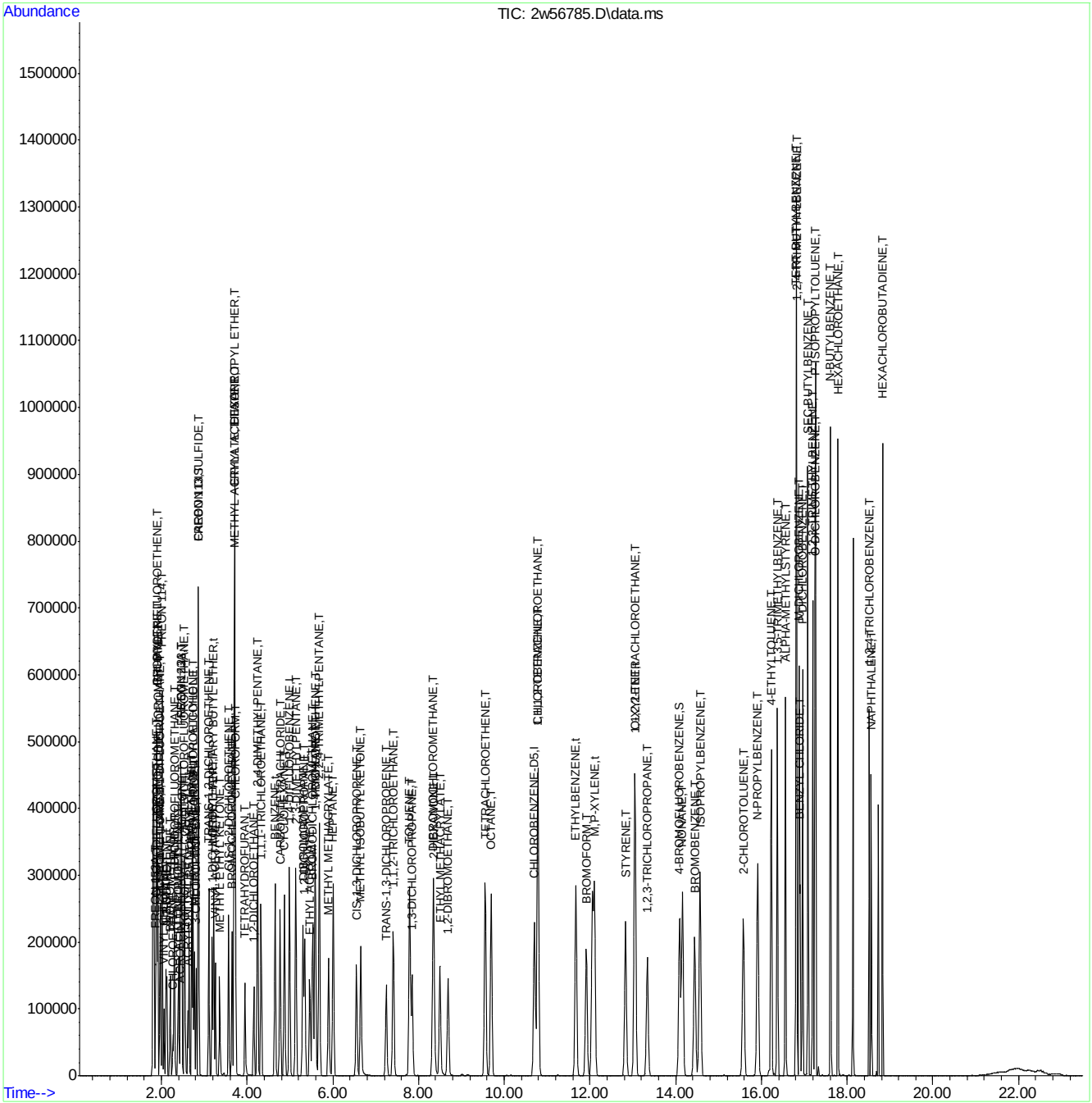
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	166124	13.72	PPBV	97
98)	M-DICHLOROBENZENE	16.878	146	203327	10.63	PPBV	98
99)	P-DICHLOROBENZENE	16.958	146	199685	10.87	PPBV	98
100)	O-DICHLOROBENZENE	17.248	146	183553	10.25	PPBV	98
101)	SEC-BUTYLBENZENE	17.087	134	94613	11.31	PPBV	93
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	296977	11.32	PPBV	95
103)	P-ISOPROPYLTOLUENE	17.264	134	99562	11.23	PPBV	89
104)	N-BUTYLBENZENE	17.605	134	88100	12.00	PPBV	97
105)	HEXACHLOROETHANE	17.785	117	116647	10.56	PPBV	99
106)	HEXACHLOROBUTADIENE	18.823	225	104232	8.92	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.515	180	98123	9.79	PPBV	99
108)	NAPHTHALENE	18.563	128	209395	9.33	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56785.D
Acq On : 20 Dec 2021 2:59 pm
Operator : danat
Sample : icc2529-10
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 15:33:06 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:03:51 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56786.D
Acq On : 20 Dec 2021 3:36 pm
Operator : danat
Sample : ic2529-20
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 16:09:37 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:34:25 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.647	128	52593	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.984	114	275585	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	238896	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	160623	10.10	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.866	65	95846	19.64	PPBV		100
4) CHLORODIFLUOROMETHANE	1.882	67	37686	18.91	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.895	116	240572	19.24	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.917	85	386142	19.88	PPBV		96
7) PROPYLENE	1.891	41	105546	19.18	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.969	65	240494	18.61	PPBV		100
9) FREON 114	2.014	85	396514	18.79	PPBV		99
10) CHLOROMETHANE	1.975	52	37058	20.11	PPBV		100
11) VINYL CHLORIDE	2.055	62	149419	18.72	PPBV		99
12) 1,3-BUTADIENE	2.107	54	106234	18.90	PPBV		99
13) N-BUTANE	2.126	43	174842	17.69	PPBV	#	99
14) BROMOMETHANE	2.206	94	149528	18.65	PPBV		100
15) CHLOROETHANE	2.271	64	84189	18.98	PPBV	#	86
16) DICHLOROFLUOROMETHANE	2.303	67	319996	18.84	PPBV		100
17) ACETONITRILE	2.387	41	92128	15.14	PPBV		99
18) ACROLEIN	2.432	56	60172	17.95	PPBV		99
19) FREON 123	2.448	83	331723	18.31	PPBV		100
20) FREON 123A	2.467	117	190771	18.89	PPBV		98
21) TRICHLOROFLUOROMETHANE	2.531	101	318586	18.69	PPBV		100
22) ISOPROPYL ALCOHOL	2.547	45	171417	14.26	PPBV		99
23) ACETONE	2.473	58	59742	13.25	PPBV		100
24) PENTANE	2.644	42	94389	18.34	PPBV		99
25) IODOMETHANE	2.702	142	364716	18.99	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.727	96	134714	19.15	PPBV		99
27) CARBON DISULFIDE	2.862	76	336118	18.47	PPBV		100
28) ETHANOL	2.306	45	47658	11.72	PPBV		99
29) BROMOETHENE	2.396	106	143733	19.36	PPBV		100
30) ACRYLONITRILE	2.615	52	73757	16.78	PPBV		99
31) METHYLENE CHLORIDE	2.763	84	121419	14.77	PPBV		99
32) 3-CHLOROPROPENE	2.805	76	65006	21.01	PPBV		100
33) FREON 113	2.862	151	232621	19.50	PPBV		98
34) TRANS-1,2-DICHLOROETHENE	3.100	96	166752	19.93	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.737	59	156702	18.68	PPBV		97
36) METHYL TERTIARY BUTYL ...	3.216	73	344546	21.87	PPBV		100
37) TETRAHYDROFURAN	3.943	72	81663	24.00	PPBV		99
38) HEXANE	3.702	57	245204	19.11	PPBV		99
39) VINYL ACETATE	3.255	86	45239	22.76	PPBV		93
40) 1,1-DICHLOROETHANE	3.181	63	266709	19.62	PPBV		99
41) METHYL ETHYL KETONE	3.354	72	83948	20.25	PPBV		96
42) CIS-1,2-DICHLOROETHENE	3.567	96	178237	20.20	PPBV		100
43) DIISOPROPYL ETHER	3.705	59	72496	21.84	PPBV		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56786.D
Acq On : 20 Dec 2021 3:36 pm
Operator : danat
Sample : ic2529-20
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 16:09:37 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:34:25 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	ETHYL ACETATE	3.705	61	48275	22.37	PPBV		97
45)	METHYL ACRYLATE	3.695	55	279434	19.24	PPBV	#	100
46)	CHLOROFORM	3.724	83	312904	19.16	PPBV		99
47)	2,4-DIMETHYLPENTANE	4.242	57	299864	19.75	PPBV		100
48)	1,1,1-TRICHLOROETHANE	4.325	97	296129	20.31	PPBV		98
49)	CARBON TETRACHLORIDE	4.766	117	313643	20.25	PPBV		100
50)	1,2-DICHLOROETHANE	4.152	62	176214	19.14	PPBV		100
51)	BENZENE	4.650	78	526728	19.37	PPBV		100
53)	CYCLOHEXANE	4.869	84	236129	20.45	PPBV		98
54)	2,3-DIMETHYLPENTANE	5.132	71	122586	21.03	PPBV		98
55)	TRICHLOROETHENE	5.586	95	224284	19.79	PPBV		99
56)	1,2-DICHLOROPROPANE	5.341	63	186910	19.82	PPBV		99
57)	DIBROMOMETHANE	5.300	174	214422	18.91	PPBV		98
58)	ETHYL ACRYLATE	5.460	55	346361	23.56	PPBV		100
59)	BROMODICHLOROMETHANE	5.528	83	348930	19.59	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.682	57	796521	19.04	PPBV		100
61)	1,4-DIOXANE	5.589	88	119672	16.35	PPBV		98
62)	HEPTANE	6.010	43	247285	19.95	PPBV		99
63)	METHYL METHACRYLATE	5.898	69	195331	23.21	PPBV		99
64)	METHYL ISOBUTYL KETONE	6.650	58	151138	23.06	PPBV		99
65)	CIS-1,3-DICHLOROPROPENE	6.547	75	280828	22.79	PPBV		99
66)	TOLUENE	7.791	91	632055	20.24	PPBV		100
67)	1,3-DICHLOROPROPANE	7.849	76	293386	20.33	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	7.245	75	234499	24.02	PPBV		99
69)	1,1,2-TRICHLOROETHANE	7.409	83	180010	19.86	PPBV		100
70)	2-HEXANONE	8.357	58	186515	21.67	PPBV		97
71)	ETHYL METHACRYLATE	8.499	69	305914	26.12	PPBV		99
72)	TETRACHLOROETHENE	9.557	164	236507	20.75	PPBV		99
73)	DIBROMOCHLOROMETHANE	8.338	129	360390	20.60	PPBV		100
74)	1,2-DIBROMOETHANE	8.689	107	312646	20.66	PPBV		100
75)	OCTANE	9.695	43	328313	20.96	PPBV		99
77)	1,1,1,2-TETRACHLOROETHANE	10.791	131	247722	21.13	PPBV		99
78)	CHLOROBENZENE	10.782	112	478714	20.15	PPBV		99
79)	ETHYLBENZENE	11.672	91	771825	21.60	PPBV		100
80)	M,P-XYLENE	12.106	91	1166041	43.86	PPBV		100
81)	O-XYLENE	13.052	91	581410	21.61	PPBV		99
82)	STYRENE	12.833	104	464499	24.08	PPBV		100
83)	NONANE	14.167	43	317839	19.39	PPBV		99
84)	BROMOFORM	11.920	173	347592	22.46	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	13.055	83	407342	20.12	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.338	75	301046	20.41	PPBV	#	100
88)	ISOPROPYLBENZENE	14.569	120	225793	22.07	PPBV		98
89)	BROMOBENZENE	14.444	77	376418	20.24	PPBV		98
90)	2-CHLOROTOLUENE	15.582	126	194167	23.11	PPBV		99
91)	N-PROPYLBENZENE	15.913	120	226024	24.19	PPBV		99
92)	4-ETHYLTOLUENE	16.228	105	788972	23.24	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.373	105	634118	22.33	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.560	118	334014	23.85	PPBV		99
95)	TERT-BUTYLBENZENE	16.814	134	159102	21.59	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.820	105	619477	22.09	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56786.D
Acq On : 20 Dec 2021 3:36 pm
Operator : danat
Sample : ic2529-20
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 16:09:37 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:34:25 2021
Response via : Initial Calibration

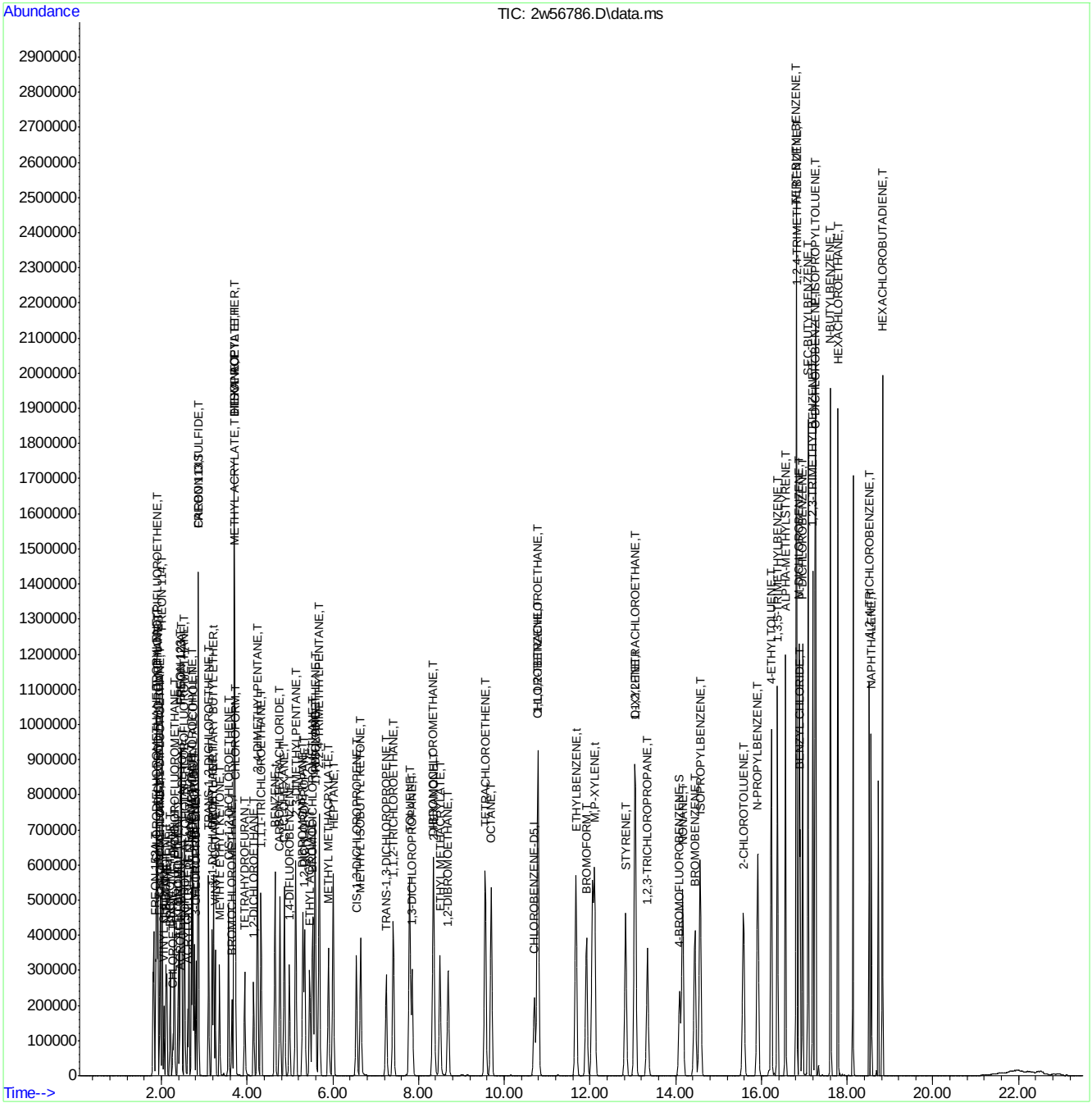
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	388188	30.05	PPBV	100
98)	M-DICHLOROBENZENE	16.881	146	415635	21.41	PPBV	100
99)	P-DICHLOROBENZENE	16.958	146	411971	22.01	PPBV	100
100)	O-DICHLOROBENZENE	17.251	146	377930	20.93	PPBV	100
101)	SEC-BUTYLBENZENE	17.087	134	194215	22.62	PPBV	96
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	601078	22.33	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.264	134	204024	22.46	PPBV	99
104)	N-BUTYLBENZENE	17.608	134	181569	23.82	PPBV	97
105)	HEXACHLOROETHANE	17.785	117	241731	21.60	PPBV	99
106)	HEXACHLOROBUTADIENE	18.823	225	218630	18.96	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.515	180	209866	20.92	PPBV	100
108)	NAPHTHALENE	18.563	128	452032	20.28	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56786.D
Acq On : 20 Dec 2021 3:36 pm
Operator : danat
Sample : ic2529-20
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 16:09:37 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 15:34:25 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56787.D
Acq On : 20 Dec 2021 4:18 pm
Operator : danat
Sample : ic2529-40
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 16:42:25 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 16:10:53 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.647	128	52483	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.988	114	273864	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	237365	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	160258	10.13	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.859	65	191692	39.47	PPBV		99
4) CHLORODIFLUOROMETHANE	1.875	67	74171	37.64	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.888	116	475071	38.28	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.911	85	704752	36.38	PPBV		99
7) PROPYLENE	1.888	41	206994	37.91	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.962	65	475627	37.26	PPBV		100
9) FREON 114	2.007	85	773619	37.06	PPBV		98
10) CHLOROMETHANE	1.969	52	71824	39.03	PPBV		99
11) VINYL CHLORIDE	2.049	62	294192	37.28	PPBV		100
12) 1,3-BUTADIENE	2.100	54	209272	37.60	PPBV		99
13) N-BUTANE	2.123	43	343201	35.38	PPBV	#	99
14) BROMOMETHANE	2.200	94	296913	37.48	PPBV		100
15) CHLOROETHANE	2.264	64	167950	38.23	PPBV	#	85
16) DICHLOROFLUOROMETHANE	2.297	67	630347	37.50	PPBV		100
17) ACETONITRILE	2.383	41	183185	31.26	PPBV		99
18) ACROLEIN	2.428	56	119883	36.36	PPBV		100
19) FREON 123	2.444	83	653070	36.57	PPBV		100
20) FREON 123A	2.464	117	380555	38.06	PPBV		96
21) TRICHLOROFLUOROMETHANE	2.531	101	625352	37.11	PPBV		100
22) ISOPROPYL ALCOHOL	2.547	45	330083	28.69	PPBV		99
23) ACETONE	2.470	58	118192	27.60	PPBV		100
24) PENTANE	2.644	42	181491	35.76	PPBV		99
25) IODOMETHANE	2.702	142	719354	37.81	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.727	96	262868	37.68	PPBV		99
27) CARBON DISULFIDE	2.862	76	631145	35.15	PPBV		100
28) ETHANOL	2.300	45	93350	24.45	PPBV		99
29) BROMOETHENE	2.393	106	288787	39.16	PPBV		100
30) ACRYLONITRILE	2.615	52	146106	34.10	PPBV		98
31) METHYLENE CHLORIDE	2.766	84	236000	30.08	PPBV		99
32) 3-CHLOROPROPENE	2.805	76	128471	41.31	PPBV		98
33) FREON 113	2.862	151	453625	38.24	PPBV		97
34) TRANS-1,2-DICHLOROETHENE	3.104	96	331310	39.70	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.737	59	282897	34.12	PPBV		94
36) METHYL TERTIARY BUTYL ...	3.216	73	710789	44.62	PPBV		100
37) TETRAHYDROFURAN	3.940	72	162990	46.45	PPBV		97
38) HEXANE	3.702	57	462234	36.33	PPBV		99
39) VINYL ACETATE	3.258	86	92812	45.75	PPBV		87
40) 1,1-DICHLOROETHANE	3.184	63	522642	38.63	PPBV		98
41) METHYL ETHYL KETONE	3.358	72	167040	40.30	PPBV		93
42) CIS-1,2-DICHLOROETHENE	3.567	96	354117	40.15	PPBV		99
43) DIISOPROPYL ETHER	3.705	59	139492	41.56	PPBV		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56787.D
Acq On : 20 Dec 2021 4:18 pm
Operator : danat
Sample : ic2529-40
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 16:42:25 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 16:10:53 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	ETHYL ACETATE	3.708	61	91785	41.79	PPBV		91
45)	METHYL ACRYLATE	3.695	55	534548	37.09	PPBV	#	100
46)	CHLOROFORM	3.727	83	610927	37.72	PPBV		99
47)	2,4-DIMETHYLPENTANE	4.242	57	580785	38.41	PPBV		99
48)	1,1,1-TRICHLOROETHANE	4.325	97	591010	40.53	PPBV		98
49)	CARBON TETRACHLORIDE	4.769	117	626866	40.49	PPBV		100
50)	1,2-DICHLOROETHANE	4.155	62	345185	37.81	PPBV		99
51)	BENZENE	4.650	78	1039159	38.47	PPBV		99
53)	CYCLOHEXANE	4.869	84	469309	40.77	PPBV		97
54)	2,3-DIMETHYLPENTANE	5.136	71	241410	41.37	PPBV		97
55)	TRICHLOROETHENE	5.589	95	441563	39.26	PPBV		99
56)	1,2-DICHLOROPROPANE	5.345	63	365601	39.06	PPBV		100
57)	DIBROMOMETHANE	5.303	174	433262	38.75	PPBV		97
58)	ETHYL ACRYLATE	5.464	55	686061	45.79	PPBV		99
59)	BROMODICHLOROMETHANE	5.534	83	684169	38.77	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.685	57	1530482	37.06	PPBV		99
61)	1,4-DIOXANE	5.592	88	235881	33.45	PPBV		98
62)	HEPTANE	6.013	43	469537	38.13	PPBV		97
63)	METHYL METHACRYLATE	5.901	69	387926	45.18	PPBV		97
64)	METHYL ISOBUTYL KETONE	6.653	58	299199	44.80	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	6.554	75	565382	45.27	PPBV		99
66)	TOLUENE	7.795	91	1254164	40.35	PPBV		100
67)	1,3-DICHLOROPROPANE	7.853	76	578245	40.22	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	7.248	75	483617	48.46	PPBV		99
69)	1,1,2-TRICHLOROETHANE	7.412	83	353934	39.33	PPBV		99
70)	2-HEXANONE	8.364	58	373890	43.19	PPBV		95
71)	ETHYL METHACRYLATE	8.502	69	617938	50.88	PPBV		98
72)	TETRACHLOROETHENE	9.560	164	482392	42.36	PPBV		99
73)	DIBROMOCHLOROMETHANE	8.341	129	728291	41.72	PPBV		100
74)	1,2-DIBROMOETHANE	8.698	107	629672	41.68	PPBV		100
75)	OCTANE	9.701	43	638315	40.74	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	10.798	131	501565	42.71	PPBV		99
78)	CHLOROBENZENE	10.788	112	961844	40.70	PPBV		98
79)	ETHYLBENZENE	11.676	91	1538320	42.84	PPBV		99
80)	M,P-XYLENE	12.116	91	2329394	86.98	PPBV		99
81)	O-XYLENE	13.055	91	1153231	42.65	PPBV		99
82)	STYRENE	12.836	104	935051	47.41	PPBV		100
83)	NONANE	14.171	43	616160	38.00	PPBV		98
84)	BROMOFORM	11.926	173	718447	45.91	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	13.065	83	801337	39.80	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.348	75	599939	40.82	PPBV	#	100
88)	ISOPROPYLBENZENE	14.576	120	456241	44.22	PPBV		97
89)	BROMOBENZENE	14.450	77	751378	40.59	PPBV		96
90)	2-CHLOROTOLUENE	15.585	126	392136	45.95	PPBV		99
91)	N-PROPYLBENZENE	15.923	120	453544	47.44	PPBV		99
92)	4-ETHYLTOLUENE	16.235	105	1567751	45.42	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.380	105	1264093	44.06	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.566	118	662534	46.34	PPBV		100
95)	TERT-BUTYLBENZENE	16.817	134	311050	42.00	PPBV		98
96)	1,2,4-TRIMETHYLBENZENE	16.827	105	1204173	42.58	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56787.D
Acq On : 20 Dec 2021 4:18 pm
Operator : danat
Sample : ic2529-40
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 16:42:25 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 16:10:53 2021
Response via : Initial Calibration

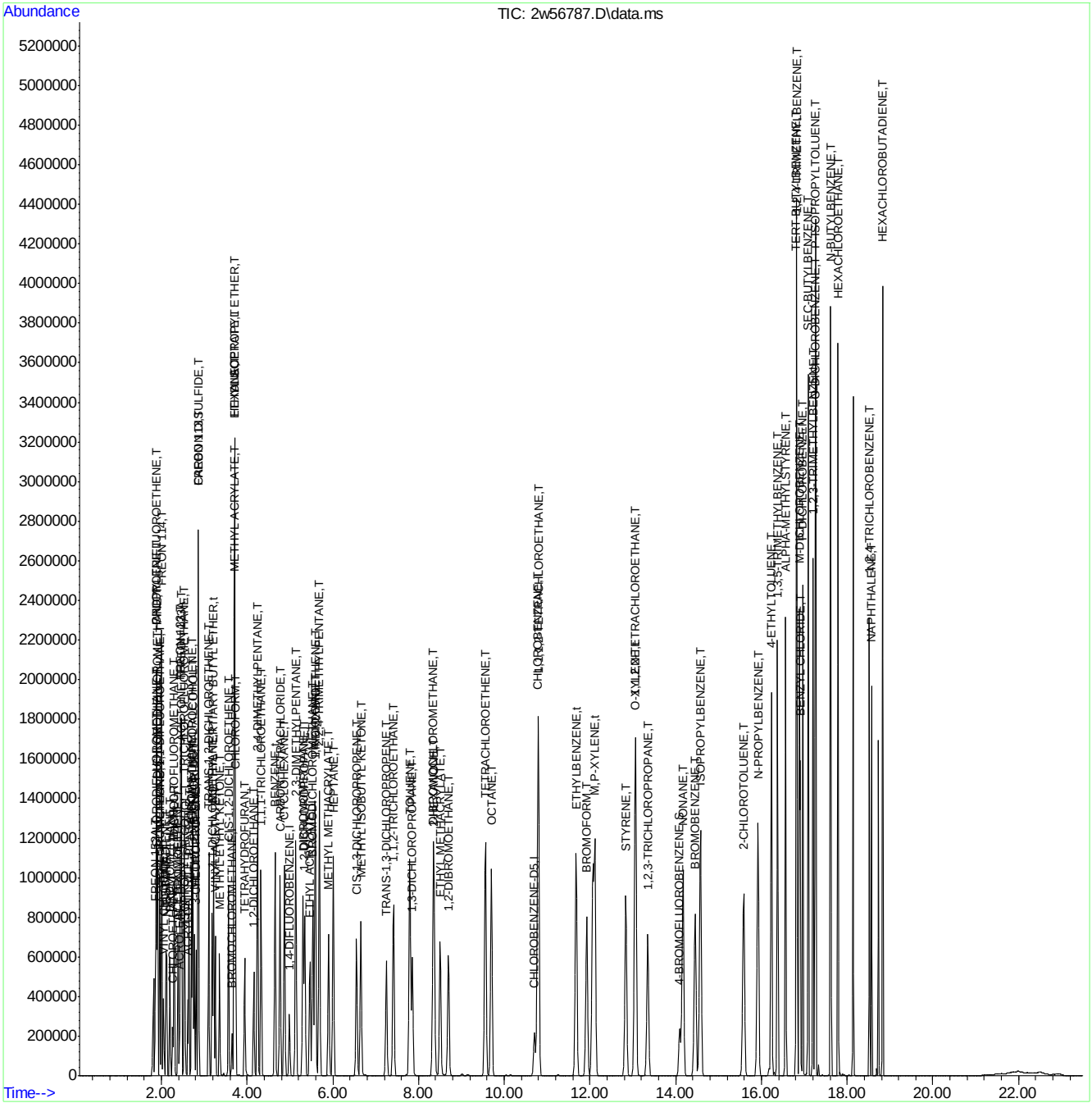
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.907	91	842220	61.22	PPBV	99
98)	M-DICHLOROBENZENE	16.884	146	820016	42.09	PPBV	100
99)	P-DICHLOROBENZENE	16.965	146	809942	42.94	PPBV	100
100)	O-DICHLOROBENZENE	17.254	146	729829	40.41	PPBV	99
101)	SEC-BUTYLBENZENE	17.090	134	380005	43.73	PPBV	93
102)	1,2,3-TRIMETHYLBENZENE	17.203	105	1169913	43.02	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.267	134	393458	42.84	PPBV	97
104)	N-BUTYLBENZENE	17.611	134	357351	45.94	PPBV	93
105)	HEXACHLOROETHANE	17.788	117	477426	42.44	PPBV	97
106)	HEXACHLOROBUTADIENE	18.826	225	447913	39.39	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.518	180	436400	43.50	PPBV	99
108)	NAPHTHALENE	18.566	128	912387	41.11	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56787.D
Acq On : 20 Dec 2021 4:18 pm
Operator : danat
Sample : ic2529-40
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 16:42:25 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 16:10:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56788.D
Acq On : 20 Dec 2021 5:01 pm
Operator : danat
Sample : ic2529-50
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 21 09:05:01 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 16:43:43 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.650	128	54833	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.988	114	280709	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.708	117	240737	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.097	95	161852	10.07	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.862	65	237338	46.85	PPBV		99
4) CHLORODIFLUOROMETHANE	1.878	67	91924	45.03	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.891	116	588674	45.65	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.914	85	875345	43.75	PPBV		99
7) PROPYLENE	1.888	41	253676	44.76	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.965	65	584054	44.17	PPBV		99
9) FREON 114	2.010	85	940159	43.51	PPBV		97
10) CHLOROMETHANE	1.972	52	86314	45.03	PPBV		98
11) VINYL CHLORIDE	2.052	62	357072	43.68	PPBV		99
12) 1,3-BUTADIENE	2.104	54	253355	43.90	PPBV		99
13) N-BUTANE	2.126	43	408367	40.89	PPBV	#	98
14) BROMOMETHANE	2.203	94	362585	44.15	PPBV		100
15) CHLOROETHANE	2.268	64	203640	44.61	PPBV	#	85
16) DICHLOROFLUOROMETHANE	2.300	67	763664	43.82	PPBV		100
17) ACETONITRILE	2.386	41	220459	37.02	PPBV		99
18) ACROLEIN	2.431	56	145828	42.83	PPBV		100
19) FREON 123	2.448	83	785564	42.56	PPBV		99
20) FREON 123A	2.467	117	463073	44.60	PPBV		94
21) TRICHLOROFLUOROMETHANE	2.534	101	764377	43.81	PPBV		99
22) ISOPROPYL ALCOHOL	2.550	45	406507	35.05	PPBV		98
23) ACETONE	2.473	58	140866	32.76	PPBV		99
24) PENTANE	2.647	42	220270	42.10	PPBV		99
25) IODOMETHANE	2.702	142	885871	44.88	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.731	96	318977	44.08	PPBV		99
27) CARBON DISULFIDE	2.862	76	762393	41.26	PPBV		100
28) ETHANOL	2.306	45	113648	29.95	PPBV		99
29) BROMOETHENE	2.396	106	352571	45.88	PPBV		100
30) ACRYLONITRILE	2.618	52	177448	40.38	PPBV		100
31) METHYLENE CHLORIDE	2.766	84	289182	36.57	PPBV		98
32) 3-CHLOROPROPENE	2.808	76	156613	48.00	PPBV		98
33) FREON 113	2.862	151	555185	45.05	PPBV		96
34) TRANS-1,2-DICHLOROETHENE	3.103	96	409913	47.06	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.740	59	358846	42.20	PPBV		93
36) METHYL TERTIARY BUTYL ...	3.216	73	889687	52.69	PPBV		100
37) TETRAHYDROFURAN	3.939	72	202355	53.95	PPBV		95
38) HEXANE	3.702	57	555108	42.24	PPBV		98
39) VINYL ACETATE	3.258	86	116708	53.95	PPBV		83
40) 1,1-DICHLOROETHANE	3.184	63	642678	45.66	PPBV		99
41) METHYL ETHYL KETONE	3.357	72	207086	47.76	PPBV		90
42) CIS-1,2-DICHLOROETHENE	3.570	96	441121	47.85	PPBV		98
43) DIISOPROPYL ETHER	3.708	59	167362	47.50	PPBV		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56788.D
Acq On : 20 Dec 2021 5:01 pm
Operator : danat
Sample : ic2529-50
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 21 09:05:01 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 16:43:43 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.711	61	112185	48.58	PPBV		85
45) METHYL ACRYLATE	3.698	55	644487	43.19	PPBV	#	100
46) CHLOROFORM	3.727	83	746615	44.44	PPBV		98
47) 2,4-DIMETHYLPENTANE	4.245	57	710875	45.22	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.325	97	733794	48.08	PPBV		97
49) CARBON TETRACHLORIDE	4.769	117	782591	48.31	PPBV		99
50) 1,2-DICHLOROETHANE	4.155	62	423949	44.75	PPBV		100
51) BENZENE	4.653	78	1285930	45.78	PPBV		99
53) CYCLOHEXANE	4.872	84	584493	49.42	PPBV		96
54) 2,3-DIMETHYLPENTANE	5.136	71	298005	49.61	PPBV		96
55) TRICHLOROETHENE	5.592	95	545017	47.39	PPBV		98
56) 1,2-DICHLOROPROPANE	5.348	63	446444	46.67	PPBV		100
57) DIBROMOMETHANE	5.306	174	543511	47.61	PPBV		96
58) ETHYL ACRYLATE	5.467	55	848412	54.26	PPBV		99
59) BROMODICHLOROMETHANE	5.534	83	845669	46.94	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.689	57	1863774	44.44	PPBV		99
61) 1,4-DIOXANE	5.592	88	294833	41.77	PPBV		97
62) HEPTANE	6.013	43	568591	45.32	PPBV		95
63) METHYL METHACRYLATE	5.901	69	479674	53.52	PPBV		96
64) METHYL ISOBUTYL KETONE	6.656	58	368117	52.87	PPBV		96
65) CIS-1,3-DICHLOROPROPENE	6.557	75	701756	53.93	PPBV		99
66) TOLUENE	7.798	91	1553045	48.69	PPBV		99
67) 1,3-DICHLOROPROPANE	7.859	76	718230	48.71	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	7.251	75	606357	57.75	PPBV		99
69) 1,1,2-TRICHLOROETHANE	7.418	83	438988	47.69	PPBV		98
70) 2-HEXANONE	8.367	58	462801	51.64	PPBV		95
71) ETHYL METHACRYLATE	8.508	69	766501	59.55	PPBV		97
72) TETRACHLOROETHENE	9.563	164	605487	51.49	PPBV		99
73) DIBROMOCHLOROMETHANE	8.344	129	912964	50.75	PPBV		100
74) 1,2-DIBROMOETHANE	8.701	107	782521	50.27	PPBV		100
75) OCTANE	9.701	43	773222	48.03	PPBV		96
77) 1,1,1,2-TETRACHLOROETHANE	10.804	131	625472	52.08	PPBV		98
78) CHLOROBENZENE	10.791	112	1188996	49.50	PPBV		98
79) ETHYLBENZENE	11.682	91	1913743	52.08	PPBV		99
80) M,P-XYLENE	12.119	91	2898654	105.57	PPBV		100
81) O-XYLENE	13.061	91	1424413	51.51	PPBV		100
82) STYRENE	12.839	104	1159807	56.67	PPBV		100
83) NONANE	14.174	43	756584	46.29	PPBV		98
84) BROMOFORM	11.929	173	902327	55.82	PPBV		100
85) 1,1,2,2-TETRACHLOROETHANE	13.071	83	987305	48.38	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.351	75	739929	49.51	PPBV	#	100
88) ISOPROPYLBENZENE	14.582	120	565185	53.31	PPBV		97
89) BROMOBENZENE	14.457	77	929676	49.42	PPBV		95
90) 2-CHLOROTOLUENE	15.592	126	487115	55.26	PPBV		100
91) N-PROPYLBENZENE	15.926	120	566652	57.11	PPBV		99
92) 4-ETHYLTOLUENE	16.238	105	1945786	54.66	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.379	105	1561034	52.98	PPBV		99
94) ALPHA-METHYLSTYRENE	16.563	118	823963	55.72	PPBV		100
95) TERT-BUTYLBENZENE	16.820	134	384942	50.93	PPBV		97
96) 1,2,4-TRIMETHYLBENZENE	16.830	105	1475609	51.04	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56788.D
Acq On : 20 Dec 2021 5:01 pm
Operator : danat
Sample : ic2529-50
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 21 09:05:01 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 16:43:43 2021
Response via : Initial Calibration

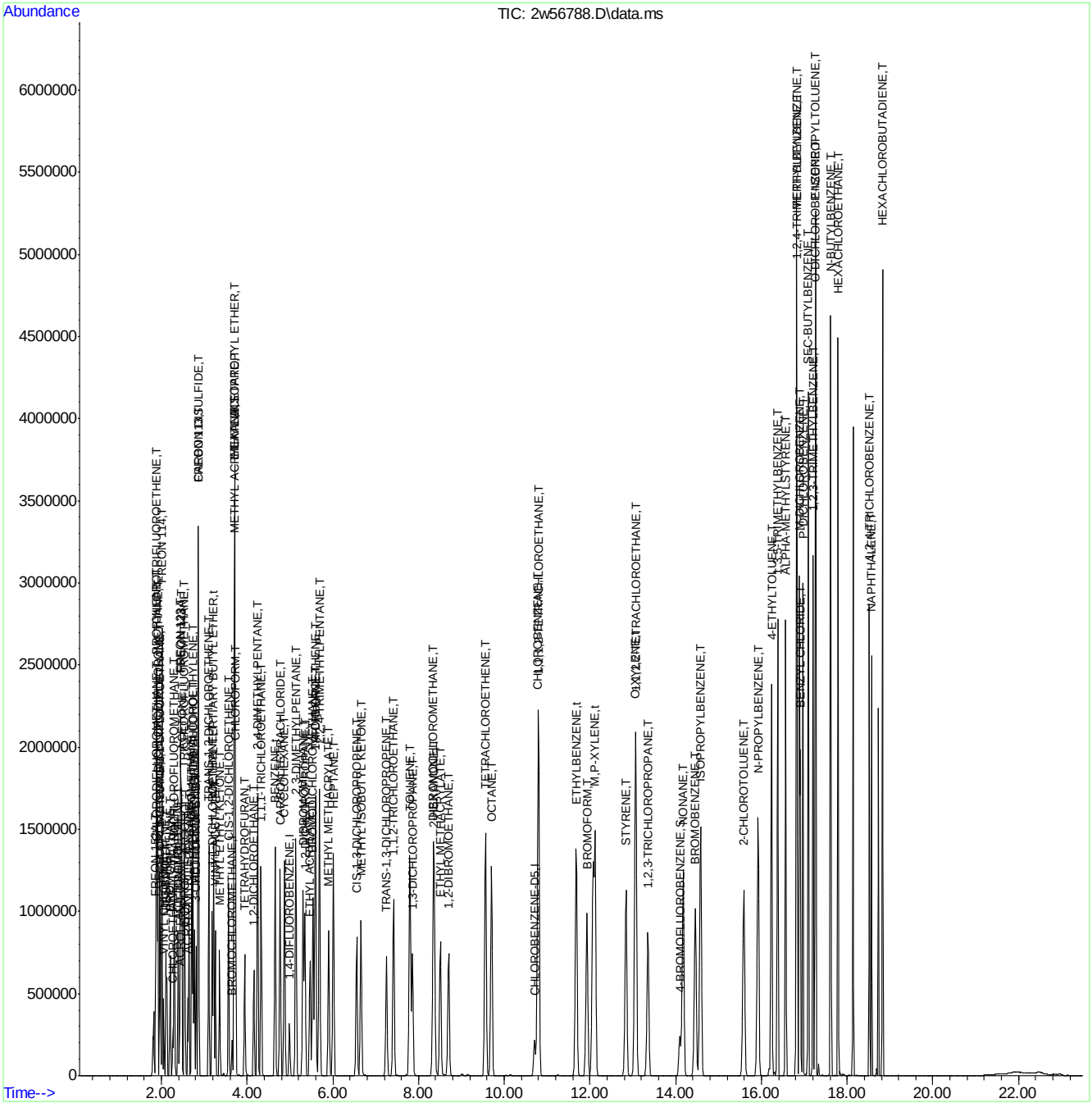
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.910	91	1081446	72.69	PPBV	99
98)	M-DICHLOROBENZENE	16.887	146	1018015	51.19	PPBV	100
99)	P-DICHLOROBENZENE	16.968	146	999623	51.78	PPBV	100
100)	O-DICHLOROBENZENE	17.257	146	904382	49.31	PPBV	100
101)	SEC-BUTYLBENZENE	17.093	134	473163	53.07	PPBV	90
102)	1,2,3-TRIMETHYLBENZENE	17.203	105	1440400	51.74	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.267	134	485226	51.63	PPBV	94
104)	N-BUTYLBENZENE	17.611	134	443456	55.18	PPBV	90
105)	HEXACHLOROETHANE	17.788	117	588305	51.18	PPBV	96
106)	HEXACHLOROBUTADIENE	18.823	225	569038	49.44	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.518	180	561322	54.57	PPBV	99
108)	NAPHTHALENE	18.566	128	1166106	51.63	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56788.D
Acq On : 20 Dec 2021 5:01 pm
Operator : danat
Sample : ic2529-50
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 21 09:05:01 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Dec 20 16:43:43 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56791.D
Acq On : 20 Dec 2021 6:48 pm
Operator : danat
Sample : icv2529-10
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 21 09:19:10 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.647	128	51787	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.988	114	272656	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	237017	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	159146	10.05	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.856	65	47311	9.96	PPBV		99
4) CHLORODIFLUOROMETHANE	1.872	67	18666	9.80	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.888	116	123201	10.21	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.911	85	168551	9.04	PPBV		99
7) PROPYLENE	1.885	41	50712	9.59	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.962	65	121355	9.85	PPBV		99
9) FREON 114	2.007	85	188577	9.37	PPBV		99
10) CHLOROMETHANE	1.969	52	17634	9.85	PPBV		99
11) VINYL CHLORIDE	2.049	62	72055	9.47	PPBV		99
12) 1,3-BUTADIENE	2.100	54	51145	9.51	PPBV		99
13) N-BUTANE	2.120	43	84150	9.11	PPBV	#	98
14) BROMOMETHANE	2.200	94	71774	9.38	PPBV		100
15) CHLOROETHANE	2.261	64	41006	9.63	PPBV	#	85
16) DICHLOROFLUOROMETHANE	2.297	67	149364	9.20	PPBV		100
17) ACETONITRILE	2.383	41	42392	7.76	PPBV		100
18) ACROLEIN	2.428	56	26980	8.53	PPBV		100
19) FREON 123	2.444	83	170414	9.94	PPBV		98
20) FREON 123A	2.464	117	105418	10.88	PPBV		96
21) TRICHLOROFLUOROMETHANE	2.531	101	151714	9.34	PPBV		99
22) ISOPROPYL ALCOHOL	2.547	45	81830	8.45	PPBV		100
23) ACETONE	2.470	58	29614	8.64	PPBV		97
24) PENTANE	2.644	42	45273	9.33	PPBV		100
25) IODOMETHANE	2.702	142	179310	9.73	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.731	96	66807	9.91	PPBV		98
27) CARBON DISULFIDE	2.862	76	175285	10.24	PPBV		100
28) ETHANOL	2.300	45	20275	7.36	PPBV		100
29) BROMOETHENE	2.393	106	72300	10.05	PPBV		99
30) ACRYLONITRILE	2.615	52	34278	8.44	PPBV		99
31) METHYLENE CHLORIDE	2.766	84	58479	8.10	PPBV		97
32) 3-CHLOROPROPENE	2.808	76	31311	10.21	PPBV		96
33) FREON 113	2.862	151	114621	9.96	PPBV		97
34) TRANS-1,2-DICHLOROETHENE	3.104	96	84289	10.31	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.737	59	70046	8.88	PPBV		98
36) METHYL TERTIARY BUTYL ...	3.216	73	161337	10.06	PPBV		100
37) TETRAHYDROFURAN	3.943	72	36603	10.23	PPBV		97
38) HEXANE	3.702	57	122507	10.04	PPBV		99
39) VINYL ACETATE	3.258	86	20758	10.06	PPBV		94
40) 1,1-DICHLOROETHANE	3.184	63	128285	9.74	PPBV		99
41) METHYL ETHYL KETONE	3.358	72	39364	9.67	PPBV		96
42) CIS-1,2-DICHLOROETHENE	3.567	96	87171	10.06	PPBV		99
43) DIISOPROPYL ETHER	3.702	59	35313	10.67	PPBV		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56791.D
Acq On : 20 Dec 2021 6:48 pm
Operator : danat
Sample : icv2529-10
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 21 09:19:10 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.708	61	24799	11.41	PPBV		92
45) METHYL ACRYLATE	3.695	55	135427	9.76	PPBV	#	100
46) CHLOROFORM	3.724	83	155883	9.95	PPBV		100
47) 2,4-DIMETHYLPENTANE	4.242	57	143407	9.76	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.325	97	143799	10.02	PPBV		98
49) CARBON TETRACHLORIDE	4.766	117	151872	9.96	PPBV		100
50) 1,2-DICHLOROETHANE	4.152	62	85903	9.71	PPBV		99
51) BENZENE	4.650	78	257407	9.79	PPBV		99
53) CYCLOHEXANE	4.869	84	114768	10.00	PPBV		98
54) 2,3-DIMETHYLPENTANE	5.136	71	58714	10.07	PPBV		99
55) TRICHLOROETHENE	5.586	95	110227	9.93	PPBV		98
56) 1,2-DICHLOROPROPANE	5.341	63	90041	9.76	PPBV		100
57) DIBROMOMETHANE	5.303	174	106407	9.65	PPBV		98
58) ETHYL ACRYLATE	5.460	55	162110	10.57	PPBV		100
59) BROMODICHLOROMETHANE	5.528	83	167696	9.65	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.682	57	385465	9.58	PPBV		100
61) 1,4-DIOXANE	5.592	88	54389	8.10	PPBV		97
62) HEPTANE	6.007	43	119187	9.88	PPBV		98
63) METHYL METHACRYLATE	5.898	69	91265	10.39	PPBV		98
64) METHYL ISOBUTYL KETONE	6.650	58	71842	10.55	PPBV		99
65) CIS-1,3-DICHLOROPROPENE	6.550	75	142528	11.18	PPBV		99
66) TOLUENE	7.788	91	308591	9.99	PPBV		100
67) 1,3-DICHLOROPROPANE	7.846	76	145352	10.18	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	7.245	75	110048	10.61	PPBV		99
69) 1,1,2-TRICHLOROETHANE	7.406	83	88108	9.91	PPBV		99
70) 2-HEXANONE	8.357	58	86133	9.86	PPBV		98
71) ETHYL METHACRYLATE	8.496	69	147688	11.57	PPBV		99
72) TETRACHLOROETHENE	9.553	164	120018	10.47	PPBV		100
73) DIBROMOCHLOROMETHANE	8.338	129	175099	10.00	PPBV		100
74) 1,2-DIBROMOETHANE	8.685	107	153221	10.13	PPBV		100
75) OCTANE	9.695	43	159155	10.22	PPBV		99
77) 1,1,1,2-TETRACHLOROETHANE	10.791	131	121378	10.22	PPBV		99
78) CHLOROBENZENE	10.782	112	236922	10.03	PPBV		99
79) ETHYLBENZENE	11.666	91	385043	10.59	PPBV		100
80) M,P-XYLENE	12.100	91	583136	21.44	PPBV		100
81) O-XYLENE	13.045	91	290722	10.64	PPBV		99
82) STYRENE	12.830	104	230296	11.26	PPBV		100
83) NONANE	14.158	43	158878	9.96	PPBV		99
84) BROMOFORM	11.917	173	165837	10.29	PPBV		100
85) 1,1,2,2-TETRACHLOROETHANE	13.049	83	207105	10.34	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.338	75	152592	10.38	PPBV	#	100
88) ISOPROPYLBENZENE	14.566	120	114864	10.92	PPBV		99
89) BROMOBENZENE	14.441	77	187622	10.14	PPBV		98
90) 2-CHLOROTOLUENE	15.582	126	98839	11.26	PPBV		99
91) N-PROPYLBENZENE	15.913	120	117083	11.80	PPBV		100
92) 4-ETHYLTOLUENE	16.228	105	413090	11.66	PPBV		100
93) 1,3,5-TRIMETHYLBENZENE	16.373	105	333334	11.41	PPBV		99
94) ALPHA-METHYLSTYRENE	16.560	118	168645	11.44	PPBV		100
95) TERT-BUTYLBENZENE	16.814	134	83261	11.17	PPBV		100
96) 1,2,4-TRIMETHYLBENZENE	16.820	105	329438	11.55	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56791.D
Acq On : 20 Dec 2021 6:48 pm
Operator : danat
Sample : icv2529-10
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 21 09:19:10 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

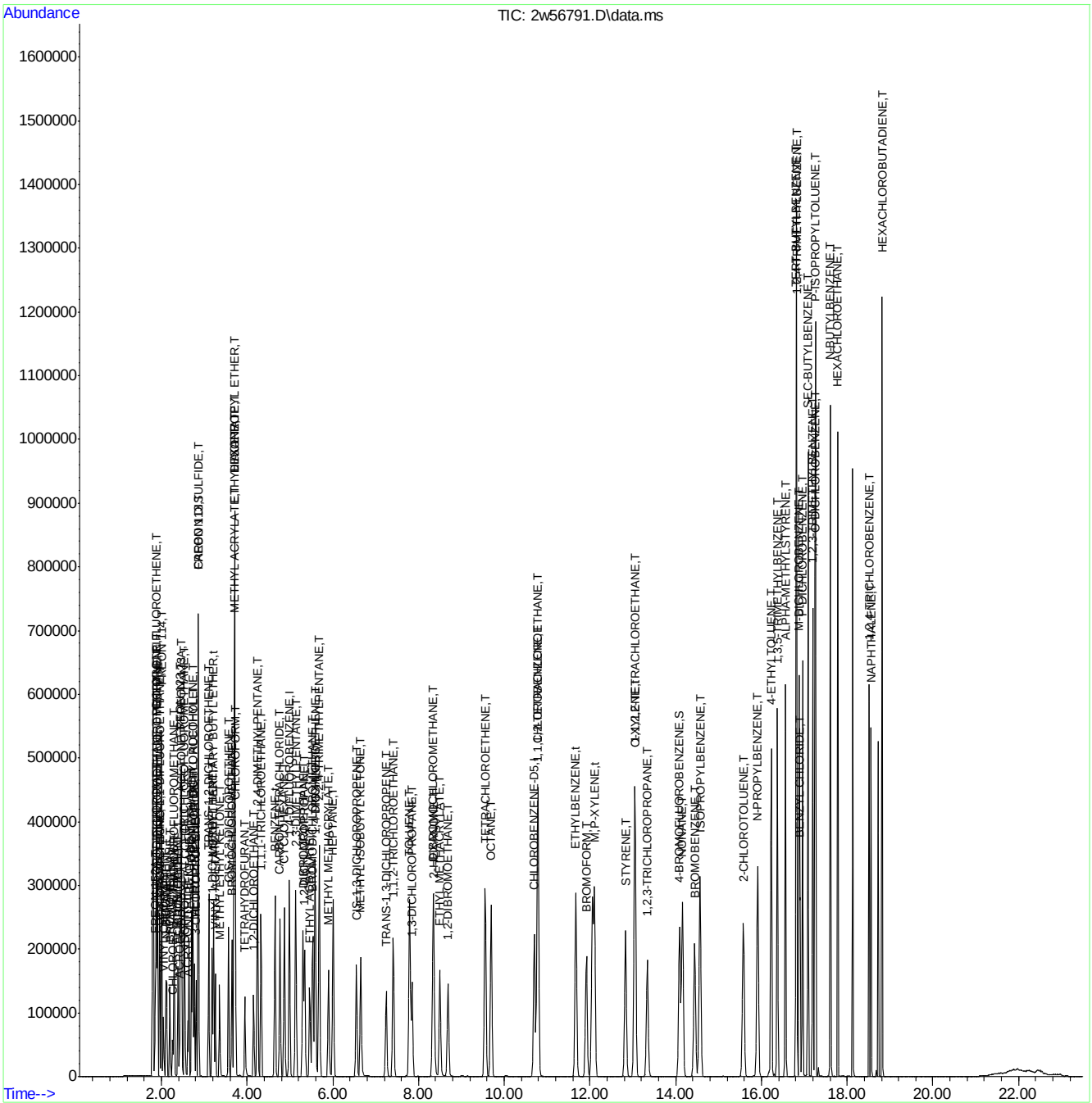
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	167131	10.86	PPBV	100
98)	M-DICHLOROBENZENE	16.878	146	213844	10.89	PPBV	100
99)	P-DICHLOROBENZENE	16.958	146	210949	11.05	PPBV	100
100)	O-DICHLOROBENZENE	17.248	146	195655	10.85	PPBV	100
101)	SEC-BUTYLBENZENE	17.087	134	102097	11.55	PPBV	97
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	311114	11.31	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.261	134	108114	11.64	PPBV	100
104)	N-BUTYLBENZENE	17.605	134	96436	12.05	PPBV	100
105)	HEXACHLOROETHANE	17.781	117	124970	11.01	PPBV	99
106)	HEXACHLOROBUTADIENE	18.817	225	137216	12.12	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.511	180	119877	11.72	PPBV	99
108)	NAPHTHALENE	18.560	128	254197	11.39	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56791.D
Acq On : 20 Dec 2021 6:48 pm
Operator : danat
Sample : icv2529-10
Misc : MS55592,V2w2529,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 21 09:19:10 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



M2W2529.M Tue Dec 21 09:19:13 2021 GCMS2W Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56843.D
Acq On : 22 Dec 2021 7:30 am
Operator : thomash
Sample : cc2529-10
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:37:47 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.656	128	55812	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.994	114	290353	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.704	117	251523	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	166429	9.90	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.865	65	49048	9.58	PPBV		99
4) CHLORODIFLUOROMETHANE	1.882	67	19252	9.38	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.898	116	125563	9.66	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.920	85	191265	9.52	PPBV		99
7) PROPYLENE	1.894	41	52345	9.18	PPBV		100
8) 1-CHLORO-1,1-DIFLUOROE...	1.972	65	123297	9.28	PPBV		99
9) FREON 114	2.017	85	208349	9.61	PPBV		99
10) CHLOROMETHANE	1.978	52	19197	9.95	PPBV		100
11) VINYL CHLORIDE	2.062	62	76635	9.34	PPBV		99
12) 1,3-BUTADIENE	2.113	54	54774	9.45	PPBV		98
13) N-BUTANE	2.132	43	88836	8.92	PPBV		98
14) BROMOMETHANE	2.213	94	77844	9.44	PPBV		100
15) CHLOROETHANE	2.277	64	43344	9.44	PPBV	#	84
16) DICHLOROFLUOROMETHANE	2.309	67	165620	9.47	PPBV		100
17) ACETONITRILE	2.396	41	46548	7.91	PPBV		100
18) ACROLEIN	2.441	56	30713	9.00	PPBV		98
19) FREON 123	2.460	83	174336	9.44	PPBV		100
20) FREON 123A	2.476	117	100807	9.66	PPBV		96
21) TRICHLOROFLUOROMETHANE	2.544	101	164571	9.40	PPBV		99
22) ISOPROPYL ALCOHOL	2.560	45	86177	8.26	PPBV		100
23) ACETONE	2.486	58	30469	8.25	PPBV		96
24) PENTANE	2.656	42	46762	8.94	PPBV		99
25) IODOMETHANE	2.714	142	193614	9.75	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.740	96	70060	9.64	PPBV		96
27) CARBON DISULFIDE	2.872	76	172704	9.36	PPBV		100
28) ETHANOL	2.316	45	24415	8.22	PPBV		98
29) BROMOETHENE	2.406	106	75588	9.75	PPBV		100
30) ACRYLONITRILE	2.628	52	36385	8.31	PPBV		99
31) METHYLENE CHLORIDE	2.775	84	62630	8.05	PPBV		97
32) 3-CHLOROPROPENE	2.817	76	32943	9.96	PPBV		94
33) FREON 113	2.872	151	122877	9.90	PPBV		97
34) TRANS-1,2-DICHLOROETHENE	3.113	96	84540	9.60	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.750	59	82721	9.73	PPBV		96
36) METHYL TERTIARY BUTYL ...	3.226	73	166556	9.63	PPBV		100
37) TETRAHYDROFURAN	3.952	72	40465	10.50	PPBV		96
38) HEXANE	3.711	57	124383	9.46	PPBV		98
39) VINYL ACETATE	3.267	86	21754	9.78	PPBV		85
40) 1,1-DICHLOROETHANE	3.193	63	132920	9.37	PPBV		99
41) METHYL ETHYL KETONE	3.367	72	40869	9.31	PPBV		94
42) CIS-1,2-DICHLOROETHENE	3.576	96	90721	9.72	PPBV		98
43) DIISOPROPYL ETHER	3.714	59	36461	10.22	PPBV		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56843.D
Acq On : 22 Dec 2021 7:30 am
Operator : thomash
Sample : cc2529-10
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:37:47 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	ETHYL ACETATE	3.717	61	23963	10.23	PPBV		97
45)	METHYL ACRYLATE	3.705	55	138406	9.25	PPBV	#	100
46)	CHLOROFORM	3.734	83	160816	9.52	PPBV		99
47)	2,4-DIMETHYLPENTANE	4.251	57	148937	9.41	PPBV		99
48)	1,1,1-TRICHLOROETHANE	4.335	97	148453	9.60	PPBV		99
49)	CARBON TETRACHLORIDE	4.775	117	159304	9.70	PPBV		100
50)	1,2-DICHLOROETHANE	4.161	62	88546	9.29	PPBV		100
51)	BENZENE	4.660	78	265442	9.37	PPBV		99
53)	CYCLOHEXANE	4.875	84	119237	9.76	PPBV		97
54)	2,3-DIMETHYLPENTANE	5.142	71	62029	9.99	PPBV		96
55)	TRICHLOROETHENE	5.592	95	114749	9.70	PPBV		98
56)	1,2-DICHLOROPROPANE	5.351	63	93510	9.52	PPBV		100
57)	DIBROMOMETHANE	5.309	174	110955	9.45	PPBV		97
58)	ETHYL ACRYLATE	5.467	55	163829	10.04	PPBV		99
59)	BROMODICHLOROMETHANE	5.537	83	176545	9.54	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.688	57	399308	9.32	PPBV		100
61)	1,4-DIOXANE	5.598	88	59191	8.28	PPBV		97
62)	HEPTANE	6.016	43	121615	9.47	PPBV		97
63)	METHYL METHACRYLATE	5.907	69	95234	10.18	PPBV		98
64)	METHYL ISOBUTYL KETONE	6.656	58	73329	10.11	PPBV		98
65)	CIS-1,3-DICHLOROPROPENE	6.557	75	137430	10.12	PPBV		99
66)	TOLUENE	7.795	91	320487	9.74	PPBV		100
67)	1,3-DICHLOROPROPANE	7.852	76	149042	9.80	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	7.251	75	111667	10.11	PPBV		99
69)	1,1,2-TRICHLOROETHANE	7.415	83	91009	9.61	PPBV		98
70)	2-HEXANONE	8.360	58	86996	9.35	PPBV		98
71)	ETHYL METHACRYLATE	8.502	69	148058	10.89	PPBV		98
72)	TETRACHLOROETHENE	9.556	164	122270	10.02	PPBV		99
73)	DIBROMOCHLOROMETHANE	8.344	129	184442	9.90	PPBV		99
74)	1,2-DIBROMOETHANE	8.692	107	158273	9.82	PPBV		100
75)	OCTANE	9.701	43	160761	9.70	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	10.791	131	127064	10.08	PPBV		98
78)	CHLOROBENZENE	10.782	112	245281	9.78	PPBV		98
79)	ETHYLBENZENE	11.672	91	387467	10.05	PPBV		100
80)	M,P-XYLENE	12.106	91	584415	20.25	PPBV		99
81)	O-XYLENE	13.048	91	293470	10.12	PPBV		99
82)	STYRENE	12.836	104	231561	10.67	PPBV		99
83)	NONANE	14.161	43	156881	9.26	PPBV		98
84)	BROMOFORM	11.917	173	175473	10.26	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	13.052	83	206977	9.74	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.338	75	151602	9.72	PPBV		100
88)	ISOPROPYLBENZENE	14.569	120	115398	10.34	PPBV		97
89)	BROMOBENZENE	14.447	77	188054	9.58	PPBV		97
90)	2-CHLOROTOLUENE	15.579	126	98117	10.53	PPBV		99
91)	N-PROPYLBENZENE	15.913	120	114554	10.88	PPBV		99
92)	4-ETHYLTOLUENE	16.231	105	399746	10.64	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.373	105	322866	10.42	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.559	118	167698	10.72	PPBV		99
95)	TERT-BUTYLBENZENE	16.810	134	81752	10.33	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.820	105	316585	10.46	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56843.D
Acq On : 22 Dec 2021 7:30 am
Operator : thomash
Sample : cc2529-10
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:37:47 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

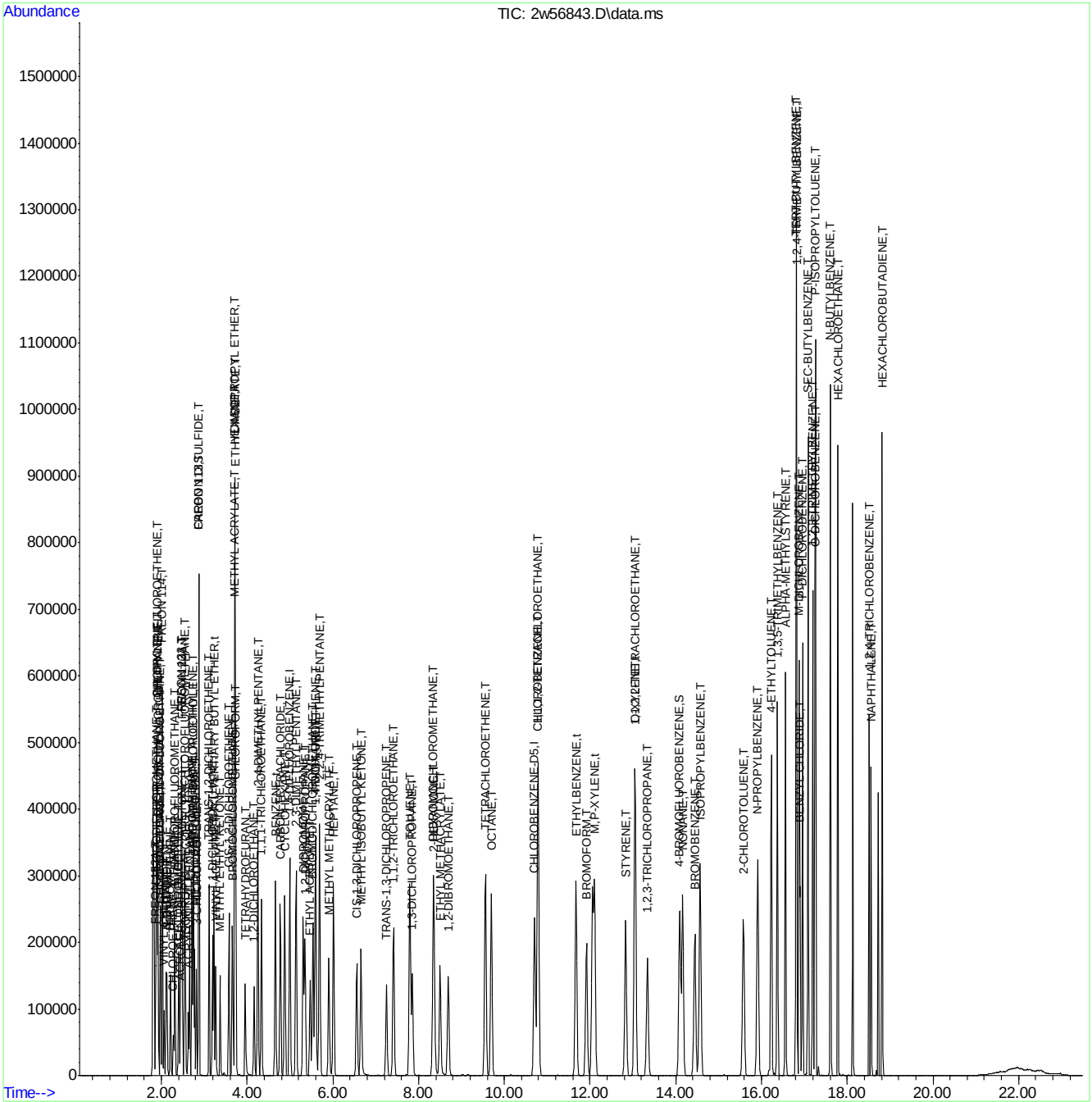
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	164299	10.06	PPBV	100
98)	M-DICHLOROBENZENE	16.878	146	210423	10.10	PPBV	99
99)	P-DICHLOROBENZENE	16.958	146	206895	10.22	PPBV	99
100)	O-DICHLOROBENZENE	17.247	146	190681	9.97	PPBV	100
101)	SEC-BUTYLBENZENE	17.087	134	99114	10.57	PPBV	97
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	304083	10.41	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.260	134	103955	10.55	PPBV	98
104)	N-BUTYLBENZENE	17.604	134	91408	10.76	PPBV	96
105)	HEXACHLOROETHANE	17.784	117	120452	10.00	PPBV	99
106)	HEXACHLOROBUTADIENE	18.820	225	109542	9.12	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.511	180	101526	9.35	PPBV	99
108)	NAPHTHALENE	18.559	128	213635	9.02	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56843.D
Acq On : 22 Dec 2021 7:30 am
Operator : thomash
Sample : cc2529-10
Misc : MS55668,V2w2532,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:37:47 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56871.D
Acq On : 23 Dec 2021 8:19 am
Operator : thomash
Sample : cc2529-10
Misc : MS55592,V2w2533,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 23 14:36:19 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.647	128	56984	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.988	114	296719	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.698	117	256866	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	169646	9.88	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.866	65	49593	9.49	PPBV		99
4) CHLORODIFLUOROMETHANE	1.882	67	19697	9.40	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.898	116	127781	9.63	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.917	85	239804	11.69	PPBV	#	99
7) PROPYLENE	1.895	41	52775	9.07	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.969	65	126170	9.30	PPBV		99
9) FREON 114	2.014	85	213056	9.63	PPBV		100
10) CHLOROMETHANE	1.975	52	19673	9.99	PPBV		99
11) VINYL CHLORIDE	2.059	62	78567	9.38	PPBV		99
12) 1,3-BUTADIENE	2.110	54	55989	9.46	PPBV		99
13) N-BUTANE	2.129	43	92709	9.12	PPBV	#	98
14) BROMOMETHANE	2.207	94	79365	9.42	PPBV		100
15) CHLOROETHANE	2.271	64	44369	9.47	PPBV	#	84
16) DICHLOROFLUOROMETHANE	2.303	67	168183	9.42	PPBV		100
17) ACETONITRILE	2.390	41	47136	7.84	PPBV		100
18) ACROLEIN	2.435	56	31065	8.92	PPBV		99
19) FREON 123	2.451	83	178602	9.47	PPBV		100
20) FREON 123A	2.470	117	102592	9.62	PPBV		98
21) TRICHLOROFLUOROMETHANE	2.534	101	169485	9.48	PPBV		100
22) ISOPROPYL ALCOHOL	2.551	45	89852	8.43	PPBV		100
23) ACETONE	2.477	58	31613	8.39	PPBV		96
24) PENTANE	2.647	42	49157	9.20	PPBV		99
25) IODOMETHANE	2.705	142	198010	9.76	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.731	96	72525	9.77	PPBV		97
27) CARBON DISULFIDE	2.866	76	181650	9.65	PPBV		99
28) ETHANOL	2.309	45	24717	8.16	PPBV		98
29) BROMOETHENE	2.399	106	77369	9.78	PPBV		99
30) ACRYLONITRILE	2.618	52	37788	8.46	PPBV		99
31) METHYLENE CHLORIDE	2.766	84	64502	8.12	PPBV		98
32) 3-CHLOROPROPENE	2.808	76	33812	10.02	PPBV		97
33) FREON 113	2.866	151	126685	10.00	PPBV		98
34) TRANS-1,2-DICHLOROETHENE	3.104	96	86638	9.63	PPBV		96
35) TERTIARY BUTYL ALCOHOL	2.740	59	85602	9.86	PPBV		96
36) METHYL TERTIARY BUTYL ...	3.219	73	172045	9.75	PPBV		100
37) TETRAHYDROFURAN	3.943	72	40885	10.39	PPBV		96
38) HEXANE	3.702	57	126711	9.44	PPBV		98
39) VINYL ACETATE	3.258	86	21929	9.66	PPBV		90
40) 1,1-DICHLOROETHANE	3.184	63	135885	9.38	PPBV		99
41) METHYL ETHYL KETONE	3.358	72	41547	9.27	PPBV		96
42) CIS-1,2-DICHLOROETHENE	3.570	96	92412	9.69	PPBV		98
43) DIISOPROPYL ETHER	3.705	59	37483	10.29	PPBV		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56871.D
Acq On : 23 Dec 2021 8:19 am
Operator : thomash
Sample : cc2529-10
Misc : MS55592,V2w2533,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 23 14:36:19 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	ETHYL ACETATE	3.711	61	24709	10.33	PPBV		97
45)	METHYL ACRYLATE	3.695	55	141607	9.27	PPBV	#	100
46)	CHLOROFORM	3.724	83	164134	9.52	PPBV		99
47)	2,4-DIMETHYLPENTANE	4.242	57	151840	9.39	PPBV		99
48)	1,1,1-TRICHLOROETHANE	4.329	97	152124	9.63	PPBV		98
49)	CARBON TETRACHLORIDE	4.769	117	161720	9.64	PPBV		100
50)	1,2-DICHLOROETHANE	4.155	62	89916	9.24	PPBV		99
51)	BENZENE	4.650	78	272508	9.42	PPBV		99
53)	CYCLOHEXANE	4.869	84	121833	9.76	PPBV		98
54)	2,3-DIMETHYLPENTANE	5.136	71	63244	9.97	PPBV		97
55)	TRICHLOROETHENE	5.586	95	117567	9.73	PPBV		99
56)	1,2-DICHLOROPROPANE	5.345	63	95018	9.47	PPBV		100
57)	DIBROMOMETHANE	5.303	174	112285	9.35	PPBV		98
58)	ETHYL ACRYLATE	5.460	55	169414	10.15	PPBV		100
59)	BROMODICHLOROMETHANE	5.528	83	181088	9.57	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.682	57	409102	9.34	PPBV		100
61)	1,4-DIOXANE	5.592	88	61137	8.37	PPBV		97
62)	HEPTANE	6.007	43	125481	9.56	PPBV		98
63)	METHYL METHACRYLATE	5.898	69	97430	10.19	PPBV		97
64)	METHYL ISOBUTYL KETONE	6.647	58	75270	10.15	PPBV		99
65)	CIS-1,3-DICHLOROPROPENE	6.550	75	140234	10.11	PPBV		99
66)	TOLUENE	7.792	91	327581	9.74	PPBV		100
67)	1,3-DICHLOROPROPANE	7.846	76	151691	9.76	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	7.248	75	114888	10.18	PPBV		98
69)	1,1,2-TRICHLOROETHANE	7.409	83	93586	9.67	PPBV		99
70)	2-HEXANONE	8.357	58	90004	9.47	PPBV		97
71)	ETHYL METHACRYLATE	8.496	69	150820	10.85	PPBV		98
72)	TETRACHLOROETHENE	9.557	164	125775	10.08	PPBV		100
73)	DIBROMOCHLOROMETHANE	8.338	129	187763	9.86	PPBV		99
74)	1,2-DIBROMOETHANE	8.689	107	162393	9.86	PPBV		100
75)	OCTANE	9.695	43	165563	9.77	PPBV		98
77)	1,1,1,2-TETRACHLOROETHANE	10.788	131	130063	10.10	PPBV		99
78)	CHLOROBENZENE	10.779	112	249146	9.73	PPBV		99
79)	ETHYLBENZENE	11.672	91	396293	10.06	PPBV		100
80)	M,P-XYLENE	12.100	91	599224	20.33	PPBV		99
81)	O-XYLENE	13.045	91	298356	10.08	PPBV		99
82)	STYRENE	12.827	104	236323	10.66	PPBV		99
83)	NONANE	14.158	43	162665	9.41	PPBV		99
84)	BROMOFORM	11.914	173	179507	10.27	PPBV		99
85)	1,1,2,2-TETRACHLOROETHANE	13.052	83	213125	9.82	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.335	75	155098	9.74	PPBV	#	100
88)	ISOPROPYLBENZENE	14.563	120	116885	10.26	PPBV		99
89)	BROMOBENZENE	14.444	77	190595	9.51	PPBV		96
90)	2-CHLOROTOLUENE	15.582	126	99712	10.48	PPBV		100
91)	N-PROPYLBENZENE	15.913	120	116158	10.80	PPBV		99
92)	4-ETHYLTOLUENE	16.228	105	409970	10.68	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.373	105	328632	10.38	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.560	118	170518	10.67	PPBV		100
95)	TERT-BUTYLBENZENE	16.810	134	82906	10.26	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.820	105	323685	10.47	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56871.D
Acq On : 23 Dec 2021 8:19 am
Operator : thomash
Sample : cc2529-10
Misc : MS55592,V2w2533,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 23 14:36:19 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

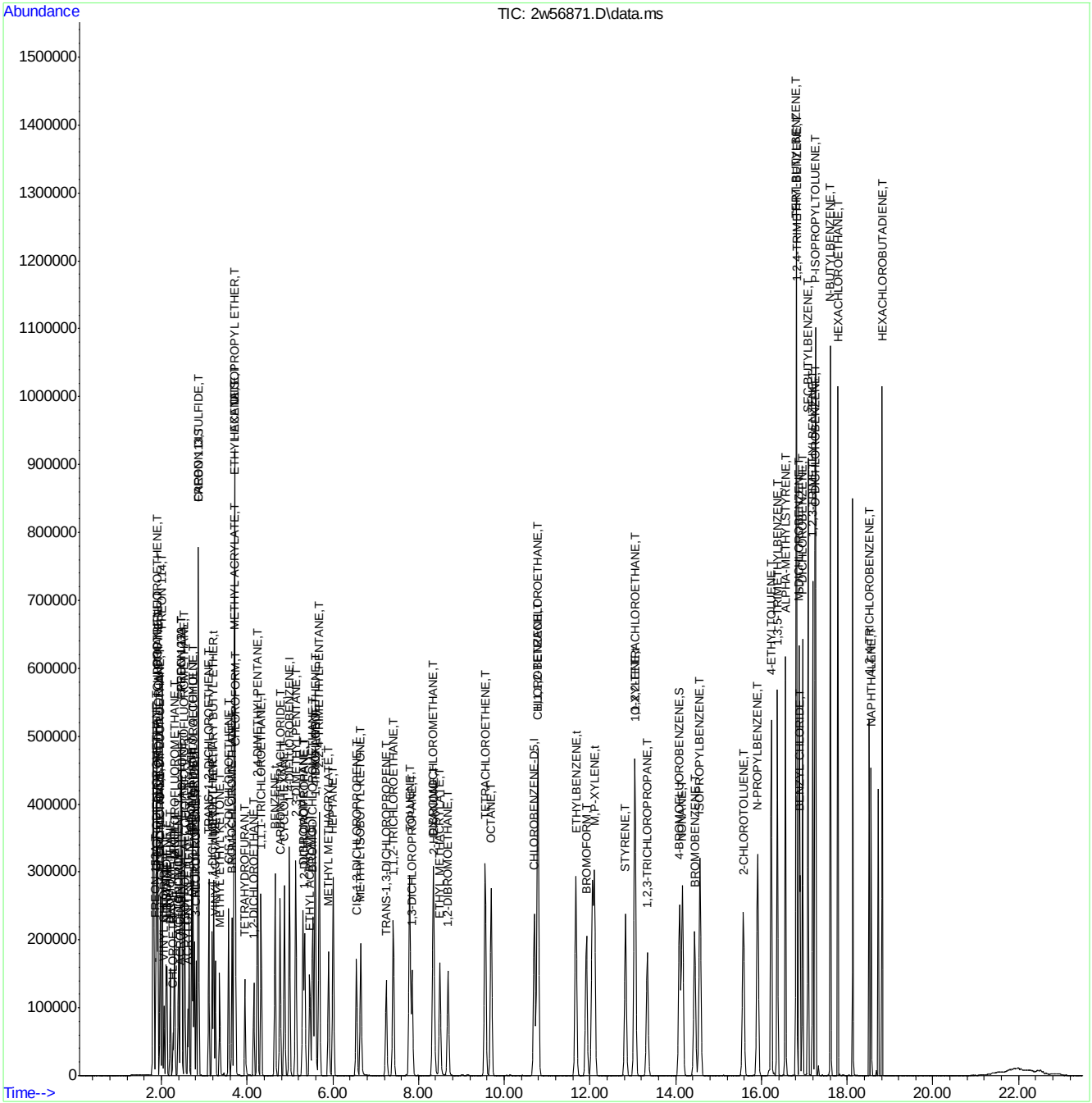
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	173462	10.40	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	213853	10.05	PPBV	100
99)	P-DICHLOROBENZENE	16.958	146	210226	10.17	PPBV	100
100)	O-DICHLOROBENZENE	17.248	146	195077	9.98	PPBV	99
101)	SEC-BUTYLBENZENE	17.087	134	100444	10.49	PPBV	98
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	311474	10.45	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.261	134	106315	10.56	PPBV	99
104)	N-BUTYLBENZENE	17.605	134	92963	10.72	PPBV	98
105)	HEXACHLOROETHANE	17.785	117	124421	10.12	PPBV	99
106)	HEXACHLOROBUTADIENE	18.820	225	111200	9.07	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.515	180	102066	9.21	PPBV	99
108)	NAPHTHALENE	18.563	128	214010	8.85	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56871.D
Acq On : 23 Dec 2021 8:19 am
Operator : thomash
Sample : cc2529-10
Misc : MS55592,V2w2533,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 23 14:36:19 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56903.D
Acq On : 27 Dec 2021 7:56 am
Operator : thomash
Sample : cc2529-10
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 15:06:24 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.650	128	59251	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.991	114	308504	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	265201	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.094	95	176146	9.94	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.863	65	51391	9.45	PPBV		99
4) CHLORODIFLUOROMETHANE	1.879	67	20359	9.35	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.895	116	133557	9.68	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.917	85	249631	11.71	PPBV	#	98
7) PROPYLENE	1.891	41	55529	9.17	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.965	65	132101	9.37	PPBV		100
9) FREON 114	2.014	85	221402	9.62	PPBV		100
10) CHLOROMETHANE	1.975	52	20989	10.25	PPBV		99
11) VINYL CHLORIDE	2.055	62	82893	9.52	PPBV		99
12) 1,3-BUTADIENE	2.107	54	59345	9.65	PPBV		99
13) N-BUTANE	2.126	43	99660	9.43	PPBV		100
14) BROMOMETHANE	2.207	94	81916	9.35	PPBV		99
15) CHLOROETHANE	2.271	64	46578	9.56	PPBV	#	86
16) DICHLOROFLUOROMETHANE	2.303	67	177227	9.54	PPBV		100
17) ACETONITRILE	2.390	41	51765	8.28	PPBV		100
18) ACROLEIN	2.432	56	32169	8.88	PPBV		99
19) FREON 123	2.451	83	186529	9.51	PPBV		100
20) FREON 123A	2.470	117	105455	9.51	PPBV		100
21) TRICHLOROFLUOROMETHANE	2.535	101	175067	9.42	PPBV		99
22) ISOPROPYL ALCOHOL	2.551	45	97736	8.82	PPBV		100
23) ACETONE	2.477	58	33547	8.56	PPBV		98
24) PENTANE	2.647	42	53872	9.70	PPBV		98
25) IODOMETHANE	2.705	142	200638	9.51	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.731	96	74621	9.67	PPBV		100
27) CARBON DISULFIDE	2.866	76	188528	9.63	PPBV		98
28) ETHANOL	2.306	45	26499	8.41	PPBV		99
29) BROMOETHENE	2.399	106	78748	9.57	PPBV		100
30) ACRYLONITRILE	2.618	52	39887	8.58	PPBV		99
31) METHYLENE CHLORIDE	2.766	84	68308	8.27	PPBV		100
32) 3-CHLOROPROPENE	2.808	76	35651	10.16	PPBV		98
33) FREON 113	2.866	151	128425	9.75	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	3.104	96	88670	9.48	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.740	59	91826	10.17	PPBV		95
36) METHYL TERTIARY BUTYL ...	3.219	73	183188	9.98	PPBV		100
37) TETRAHYDROFURAN	3.946	72	42562	10.40	PPBV		99
38) HEXANE	3.702	57	133473	9.56	PPBV		99
39) VINYL ACETATE	3.258	86	22578	9.56	PPBV		96
40) 1,1-DICHLOROETHANE	3.184	63	142811	9.48	PPBV		99
41) METHYL ETHYL KETONE	3.361	72	43152	9.26	PPBV		100
42) CIS-1,2-DICHLOROETHENE	3.570	96	94885	9.57	PPBV		99
43) DIISOPROPYL ETHER	3.705	59	38939	10.28	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56903.D
Acq On : 27 Dec 2021 7:56 am
Operator : thomash
Sample : cc2529-10
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 15:06:24 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.708	61	25340	10.19	PPBV		97
45) METHYL ACRYLATE	3.698	55	147245	9.27	PPBV	#	100
46) CHLOROFORM	3.724	83	169572	9.46	PPBV		99
47) 2,4-DIMETHYLPENTANE	4.242	57	158937	9.46	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.329	97	158830	9.67	PPBV		99
49) CARBON TETRACHLORIDE	4.769	117	168503	9.66	PPBV		100
50) 1,2-DICHLOROETHANE	4.155	62	94079	9.30	PPBV		99
51) BENZENE	4.653	78	279440	9.29	PPBV		100
53) CYCLOHEXANE	4.869	84	126105	9.71	PPBV		98
54) 2,3-DIMETHYLPENTANE	5.136	71	65507	9.93	PPBV		99
55) TRICHLOROETHENE	5.586	95	120956	9.63	PPBV		99
56) 1,2-DICHLOROPROPANE	5.345	63	99188	9.51	PPBV		100
57) DIBROMOMETHANE	5.303	174	114011	9.14	PPBV		99
58) ETHYL ACRYLATE	5.464	55	175248	10.10	PPBV		100
59) BROMODICHLOROMETHANE	5.531	83	186615	9.49	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.682	57	428191	9.41	PPBV		100
61) 1,4-DIOXANE	5.592	88	61855	8.14	PPBV		98
62) HEPTANE	6.010	43	132291	9.69	PPBV		99
63) METHYL METHACRYLATE	5.901	69	100223	10.09	PPBV		99
64) METHYL ISOBUTYL KETONE	6.650	58	77882	10.11	PPBV		99
65) CIS-1,3-DICHLOROPROPENE	6.550	75	144820	10.04	PPBV		99
66) TOLUENE	7.792	91	335142	9.59	PPBV		100
67) 1,3-DICHLOROPROPANE	7.849	76	156279	9.67	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	7.245	75	117395	10.00	PPBV		99
69) 1,1,2-TRICHLOROETHANE	7.409	83	96275	9.57	PPBV		99
70) 2-HEXANONE	8.357	58	92252	9.33	PPBV		99
71) ETHYL METHACRYLATE	8.496	69	155029	10.73	PPBV		100
72) TETRACHLOROETHENE	9.557	164	127564	9.84	PPBV		100
73) DIBROMOCHLOROMETHANE	8.338	129	193287	9.76	PPBV		99
74) 1,2-DIBROMOETHANE	8.689	107	164580	9.61	PPBV		100
75) OCTANE	9.695	43	174873	9.93	PPBV		100
77) 1,1,1,2-TETRACHLOROETHANE	10.791	131	133793	10.07	PPBV		99
78) CHLOROBENZENE	10.779	112	253876	9.61	PPBV		99
79) ETHYLBENZENE	11.669	91	403826	9.93	PPBV		100
80) M,P-XYLENE	12.100	91	615411	20.22	PPBV		100
81) O-XYLENE	13.045	91	308326	10.09	PPBV		99
82) STYRENE	12.830	104	237497	10.38	PPBV		100
83) NONANE	14.158	43	170759	9.56	PPBV		100
84) BROMOFORM	11.917	173	181658	10.07	PPBV		100
85) 1,1,2,2-TETRACHLOROETHANE	13.055	83	217179	9.69	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.338	75	159072	9.67	PPBV		100
88) ISOPROPYLBENZENE	14.566	120	118615	10.08	PPBV		99
89) BROMOBENZENE	14.441	77	196282	9.48	PPBV		98
90) 2-CHLOROTOLUENE	15.579	126	100434	10.22	PPBV		100
91) N-PROPYLBENZENE	15.913	120	118684	10.69	PPBV		99
92) 4-ETHYLTOLUENE	16.229	105	411725	10.39	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.373	105	334657	10.24	PPBV		99
94) ALPHA-METHYLSTYRENE	16.560	118	171937	10.42	PPBV		100
95) TERT-BUTYLBENZENE	16.810	134	84919	10.18	PPBV		99
96) 1,2,4-TRIMETHYLBENZENE	16.820	105	330214	10.34	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56903.D
Acq On : 27 Dec 2021 7:56 am
Operator : thomash
Sample : cc2529-10
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 15:06:24 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

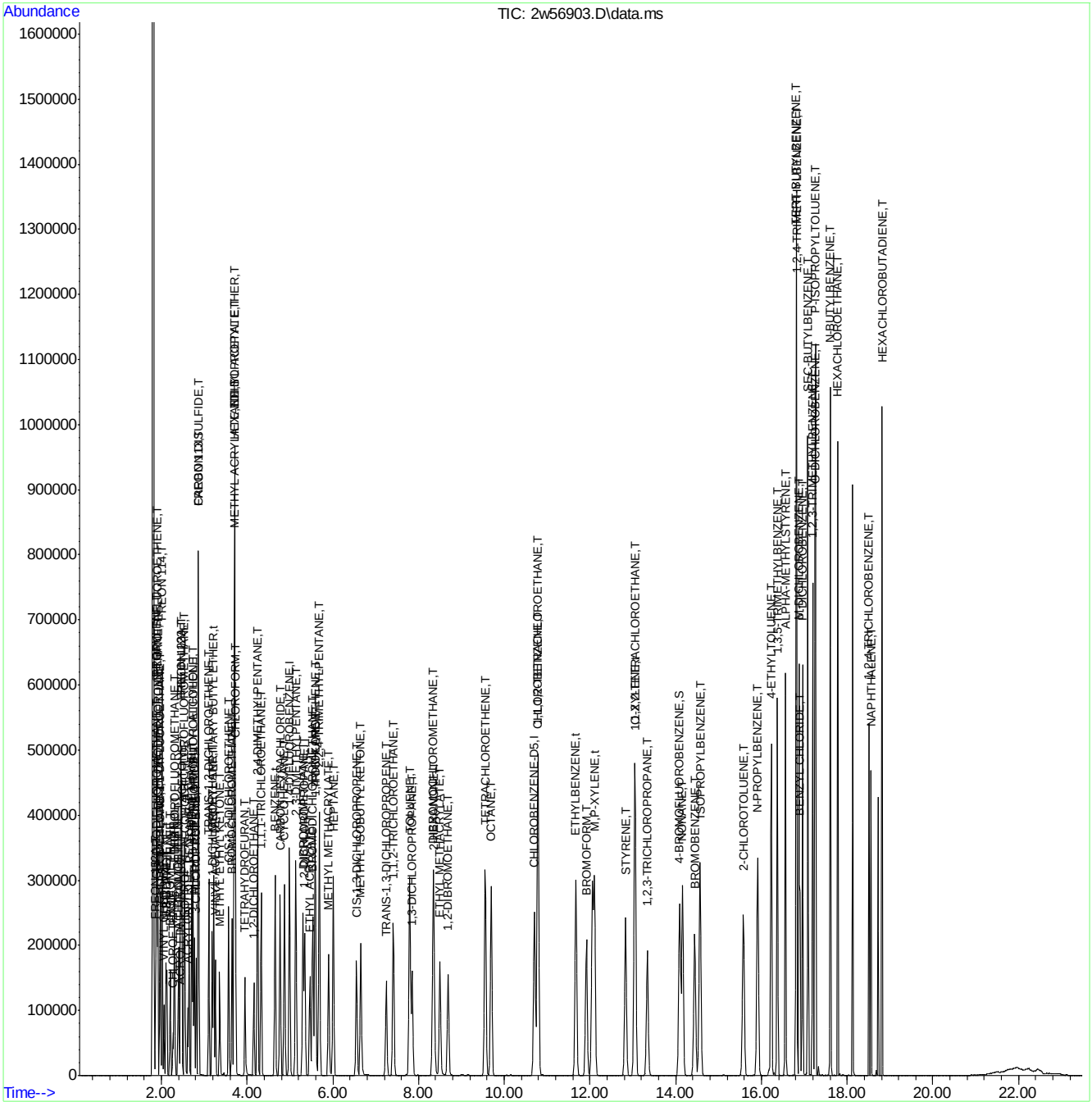
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.901	91	176616	10.26	PPBV	100
98) M-DICHLOROBENZENE	16.878	146	215923	9.83	PPBV	100
99) P-DICHLOROBENZENE	16.958	146	210197	9.84	PPBV	100
100) O-DICHLOROBENZENE	17.248	146	196502	9.74	PPBV	100
101) SEC-BUTYLBENZENE	17.084	134	101546	10.27	PPBV	99
102) 1,2,3-TRIMETHYLBENZENE	17.196	105	316568	10.28	PPBV	99
103) P-ISOPROPYLTOLUENE	17.261	134	107230	10.32	PPBV	99
104) N-BUTYLBENZENE	17.605	134	93993	10.50	PPBV	98
105) HEXACHLOROETHANE	17.782	117	125485	9.88	PPBV	99
106) HEXACHLOROBUTADIENE	18.814	225	110473	8.72	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	18.508	180	100863	8.81	PPBV	99
108) NAPHTHALENE	18.556	128	213402	8.55	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56903.D
Acq On : 27 Dec 2021 7:56 am
Operator : thomash
Sample : cc2529-10
Misc : MS55749,V2w2534,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 15:06:24 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56930.D
Acq On : 28 Dec 2021 7:47 am
Operator : thomash
Sample : cc2529-10
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 16:25:36 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.650	128	59629	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.991	114	311896	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	268693	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	174524	9.72	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.869	65	48973	8.95	PPBV		98
4) CHLORODIFLUOROMETHANE	1.882	67	19324	8.81	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.898	116	130312	9.38	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.920	85	242894	11.32	PPBV	#	98
7) PROPYLENE	1.894	41	51561	8.46	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.972	65	127092	8.95	PPBV		99
9) FREON 114	2.020	85	215698	9.31	PPBV		99
10) CHLOROMETHANE	1.981	52	19839	9.62	PPBV		99
11) VINYL CHLORIDE	2.062	62	80164	9.15	PPBV		100
12) 1,3-BUTADIENE	2.113	54	56988	9.21	PPBV		99
13) N-BUTANE	2.132	43	94498	8.88	PPBV		99
14) BROMOMETHANE	2.213	94	81147	9.21	PPBV		100
15) CHLOROETHANE	2.277	64	45356	9.25	PPBV	#	85
16) DICHLOROFLUOROMETHANE	2.309	67	171535	9.18	PPBV		100
17) ACETONITRILE	2.396	41	47705	7.58	PPBV		100
18) ACROLEIN	2.438	56	30236	8.30	PPBV		100
19) FREON 123	2.454	83	180083	9.12	PPBV		99
20) FREON 123A	2.473	117	103808	9.31	PPBV		98
21) TRICHLOROFLUOROMETHANE	2.541	101	171770	9.18	PPBV		100
22) ISOPROPYL ALCOHOL	2.554	45	91958	8.25	PPBV		100
23) ACETONE	2.480	58	32408	8.22	PPBV		94
24) PENTANE	2.650	42	50653	9.06	PPBV		99
25) IODOMETHANE	2.708	142	201288	9.48	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.737	96	73362	9.45	PPBV		98
27) CARBON DISULFIDE	2.869	76	185310	9.41	PPBV		98
28) ETHANOL	2.316	45	25035	7.89	PPBV		99
29) BROMOETHENE	2.406	106	77998	9.42	PPBV		100
30) ACRYLONITRILE	2.621	52	38742	8.28	PPBV		99
31) METHYLENE CHLORIDE	2.772	84	66797	8.04	PPBV		99
32) 3-CHLOROPROPENE	2.811	76	34590	9.79	PPBV		98
33) FREON 113	2.869	151	127293	9.60	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	3.107	96	87229	9.27	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.743	59	86477	9.52	PPBV		97
36) METHYL TERTIARY BUTYL ...	3.222	73	170376	9.22	PPBV		100
37) TETRAHYDROFURAN	3.949	72	41376	10.05	PPBV		96
38) HEXANE	3.705	57	130038	9.26	PPBV		98
39) VINYL ACETATE	3.261	86	22071	9.29	PPBV		90
40) 1,1-DICHLOROETHANE	3.187	63	138297	9.12	PPBV		99
41) METHYL ETHYL KETONE	3.361	72	42226	9.01	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.570	96	93956	9.42	PPBV		98
43) DIISOPROPYL ETHER	3.711	59	37560	9.86	PPBV		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56930.D
Acq On : 28 Dec 2021 7:47 am
Operator : thomash
Sample : cc2529-10
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 16:25:36 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	ETHYL ACETATE	3.714	61	24307	9.71	PPBV		97
45)	METHYL ACRYLATE	3.701	55	141216	8.84	PPBV	#	100
46)	CHLOROFORM	3.727	83	165551	9.17	PPBV		100
47)	2,4-DIMETHYLPENTANE	4.248	57	154060	9.11	PPBV		99
48)	1,1,1-TRICHLOROETHANE	4.332	97	153355	9.28	PPBV		98
49)	CARBON TETRACHLORIDE	4.772	117	164971	9.40	PPBV		100
50)	1,2-DICHLOROETHANE	4.158	62	90884	8.93	PPBV		99
51)	BENZENE	4.653	78	273881	9.05	PPBV		99
53)	CYCLOHEXANE	4.872	84	123569	9.42	PPBV		97
54)	2,3-DIMETHYLPENTANE	5.135	71	63468	9.52	PPBV		97
55)	TRICHLOROETHENE	5.589	95	118888	9.36	PPBV		98
56)	1,2-DICHLOROPROPANE	5.348	63	95263	9.03	PPBV		100
57)	DIBROMOMETHANE	5.306	174	114193	9.05	PPBV		97
58)	ETHYL ACRYLATE	5.463	55	166679	9.50	PPBV		100
59)	BROMODICHLOROMETHANE	5.531	83	182757	9.19	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.685	57	411209	8.94	PPBV		100
61)	1,4-DIOXANE	5.595	88	60854	7.92	PPBV		97
62)	HEPTANE	6.010	43	125402	9.09	PPBV		97
63)	METHYL METHACRYLATE	5.901	69	96599	9.62	PPBV		98
64)	METHYL ISOBUTYL KETONE	6.653	58	74293	9.53	PPBV		98
65)	CIS-1,3-DICHLOROPROPENE	6.553	75	139945	9.60	PPBV		98
66)	TOLUENE	7.795	91	328799	9.31	PPBV		100
67)	1,3-DICHLOROPROPANE	7.849	76	152272	9.32	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	7.248	75	112585	9.49	PPBV		98
69)	1,1,2-TRICHLOROETHANE	7.412	83	93794	9.22	PPBV		99
70)	2-HEXANONE	8.360	58	87195	8.73	PPBV		98
71)	ETHYL METHACRYLATE	8.499	69	148806	10.19	PPBV		98
72)	TETRACHLOROETHENE	9.560	164	127616	9.73	PPBV		99
73)	DIBROMOCHLOROMETHANE	8.338	129	189884	9.48	PPBV		99
74)	1,2-DIBROMOETHANE	8.692	107	161600	9.34	PPBV		99
75)	OCTANE	9.695	43	164419	9.23	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	10.791	131	131107	9.74	PPBV		99
78)	CHLOROBENZENE	10.782	112	250650	9.36	PPBV		98
79)	ETHYLBENZENE	11.672	91	395059	9.59	PPBV		99
80)	M,P-XYLENE	12.103	91	598122	19.40	PPBV		99
81)	O-XYLENE	13.045	91	298644	9.64	PPBV		100
82)	STYRENE	12.833	104	234447	10.11	PPBV		99
83)	NONANE	14.158	43	161359	8.92	PPBV		98
84)	BROMOFORM	11.913	173	178663	9.78	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	13.052	83	211542	9.32	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	13.338	75	154320	9.26	PPBV	#	100
88)	ISOPROPYLBENZENE	14.566	120	117853	9.89	PPBV		97
89)	BROMOBENZENE	14.444	77	188887	9.01	PPBV		95
90)	2-CHLOROTOLUENE	15.579	126	100171	10.06	PPBV		99
91)	N-PROPYLBENZENE	15.913	120	117139	10.41	PPBV		99
92)	4-ETHYLTOLUENE	16.232	105	406866	10.13	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.373	105	329242	9.94	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.559	118	170550	10.20	PPBV		100
95)	TERT-BUTYLBENZENE	16.813	134	83304	9.85	PPBV		98
96)	1,2,4-TRIMETHYLBENZENE	16.820	105	323375	10.00	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56930.D
Acq On : 28 Dec 2021 7:47 am
Operator : thomash
Sample : cc2529-10
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 16:25:36 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

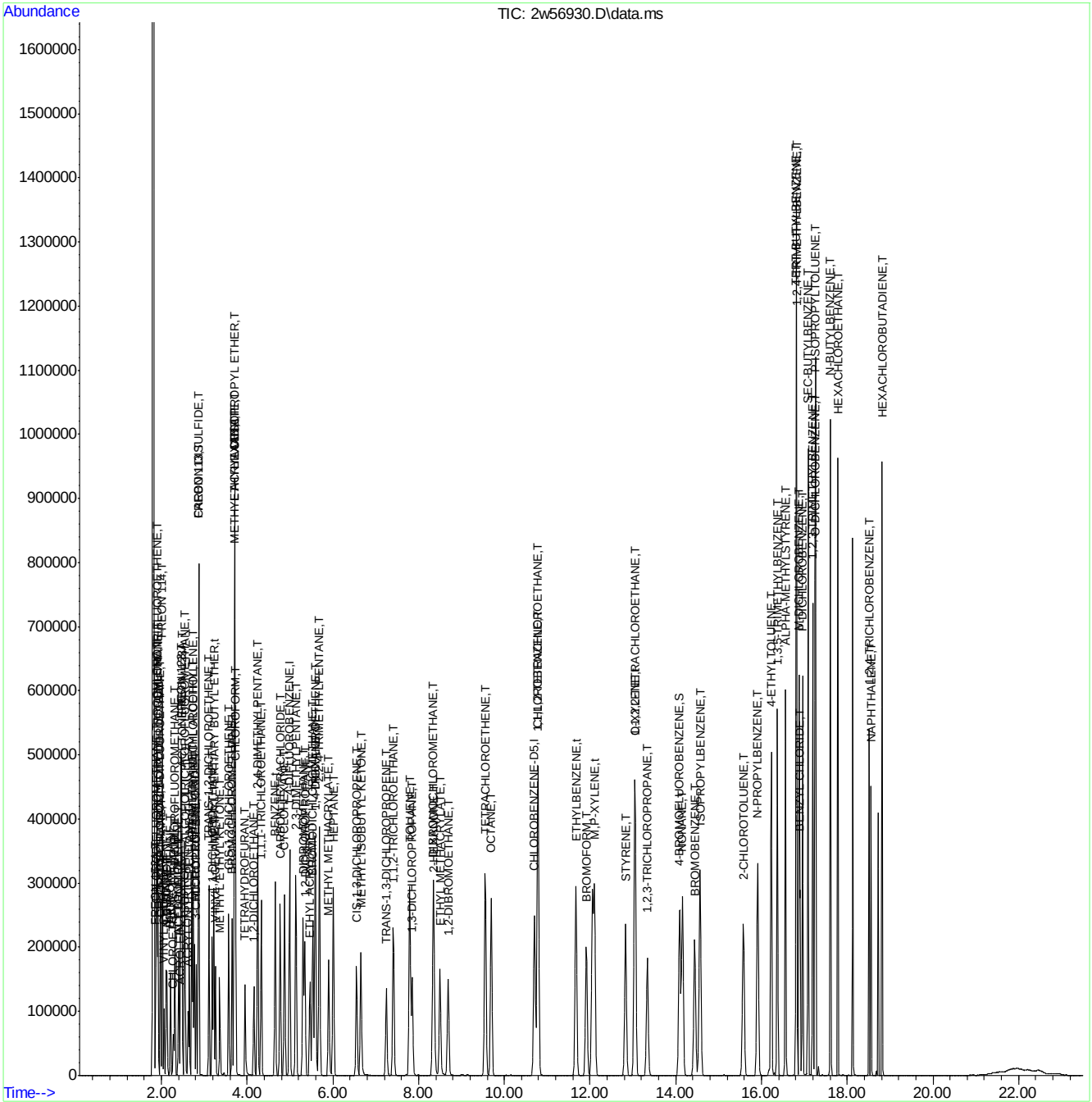
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	165189	9.47	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	210866	9.47	PPBV	100
99)	P-DICHLOROBENZENE	16.958	146	207277	9.58	PPBV	100
100)	O-DICHLOROBENZENE	17.248	146	192684	9.43	PPBV	99
101)	SEC-BUTYLBENZENE	17.087	134	100747	10.06	PPBV	97
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	307036	9.84	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.264	134	105542	10.03	PPBV	99
104)	N-BUTYLBENZENE	17.604	134	91839	10.12	PPBV	97
105)	HEXACHLOROETHANE	17.784	117	121475	9.44	PPBV	99
106)	HEXACHLOROBUTADIENE	18.817	225	109199	8.51	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.511	180	99657	8.59	PPBV	99
108)	NAPHTHALENE	18.559	128	206615	8.17	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56930.D
Acq On : 28 Dec 2021 7:47 am
Operator : thomash
Sample : cc2529-10
Misc : MS55749,V2w2535,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 16:25:36 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56959.D
Acq On : 29 Dec 2021 7:39 am
Operator : thomash
Sample : cc2529-10
Misc : MS55592,V2w2536,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 15:13:52 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.653	128	58676	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.994	114	304613	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.705	117	259809	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.090	95	170812	9.84	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.863	65	47364	8.80	PPBV		99
4) CHLORODIFLUOROMETHANE	1.875	67	19176	8.89	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.891	116	127378	9.32	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.914	85	237946	11.27	PPBV	#	98
7) PROPYLENE	1.891	41	50119	8.36	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.965	65	124499	8.91	PPBV		99
9) FREON 114	2.014	85	212010	9.30	PPBV		99
10) CHLOROMETHANE	1.975	52	19527	9.63	PPBV		100
11) VINYL CHLORIDE	2.055	62	78535	9.11	PPBV		99
12) 1,3-BUTADIENE	2.107	54	55909	9.18	PPBV		98
13) N-BUTANE	2.129	43	92374	8.82	PPBV		99
14) BROMOMETHANE	2.207	94	78985	9.11	PPBV		99
15) CHLOROETHANE	2.271	64	44385	9.20	PPBV	#	85
16) DICHLOROFLUOROMETHANE	2.306	67	167452	9.11	PPBV		100
17) ACETONITRILE	2.393	41	47910	7.74	PPBV		100
18) ACROLEIN	2.438	56	30018	8.37	PPBV		100
19) FREON 123	2.454	83	179912	9.26	PPBV		100
20) FREON 123A	2.473	117	103590	9.44	PPBV		97
21) TRICHLOROFLUOROMETHANE	2.541	101	169662	9.21	PPBV		100
22) ISOPROPYL ALCOHOL	2.557	45	90408	8.24	PPBV		100
23) ACETONE	2.480	58	32281	8.32	PPBV		94
24) PENTANE	2.653	42	49972	9.09	PPBV		98
25) IODOMETHANE	2.711	142	198789	9.52	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.737	96	72999	9.55	PPBV		98
27) CARBON DISULFIDE	2.872	76	182337	9.40	PPBV		98
28) ETHANOL	2.309	45	24350	7.80	PPBV		99
29) BROMOETHENE	2.403	106	77716	9.54	PPBV		100
30) ACRYLONITRILE	2.625	52	38457	8.36	PPBV		98
31) METHYLENE CHLORIDE	2.772	84	66447	8.13	PPBV		99
32) 3-CHLOROPROPENE	2.814	76	34174	9.83	PPBV		97
33) FREON 113	2.872	151	125268	9.60	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	3.110	96	85374	9.22	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.747	59	83468	9.33	PPBV		98
36) METHYL TERTIARY BUTYL ...	3.226	73	166706	9.17	PPBV		100
37) TETRAHYDROFURAN	3.952	72	40026	9.88	PPBV		97
38) HEXANE	3.708	57	126442	9.15	PPBV		98
39) VINYL ACETATE	3.264	86	21619	9.25	PPBV		86
40) 1,1-DICHLOROETHANE	3.190	63	134382	9.01	PPBV		98
41) METHYL ETHYL KETONE	3.364	72	40820	8.85	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.573	96	92139	9.39	PPBV		98
43) DIISOPROPYL ETHER	3.711	59	36599	9.76	PPBV		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56959.D
Acq On : 29 Dec 2021 7:39 am
Operator : thomash
Sample : cc2529-10
Misc : MS55592,V2w2536,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 15:13:52 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	ETHYL ACETATE	3.715	61	24159	9.81	PPBV		96
45)	METHYL ACRYLATE	3.702	55	138306	8.80	PPBV	#	100
46)	CHLOROFORM	3.731	83	162699	9.16	PPBV		99
47)	2,4-DIMETHYLPENTANE	4.252	57	150290	9.03	PPBV		99
48)	1,1,1-TRICHLOROETHANE	4.332	97	150501	9.26	PPBV		98
49)	CARBON TETRACHLORIDE	4.776	117	163076	9.44	PPBV		100
50)	1,2-DICHLOROETHANE	4.158	62	89405	8.92	PPBV		99
51)	BENZENE	4.657	78	268390	9.01	PPBV		99
53)	CYCLOHEXANE	4.875	84	120469	9.40	PPBV		97
54)	2,3-DIMETHYLPENTANE	5.139	71	62439	9.59	PPBV		96
55)	TRICHLOROETHENE	5.592	95	116260	9.37	PPBV		98
56)	1,2-DICHLOROPROPANE	5.348	63	93244	9.05	PPBV		99
57)	DIBROMOMETHANE	5.306	174	111672	9.06	PPBV		97
58)	ETHYL ACRYLATE	5.467	55	162460	9.49	PPBV		99
59)	BROMODICHLOROMETHANE	5.534	83	179157	9.23	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.689	57	403364	8.97	PPBV		100
61)	1,4-DIOXANE	5.599	88	59658	7.95	PPBV		96
62)	HEPTANE	6.013	43	121684	9.03	PPBV		96
63)	METHYL METHACRYLATE	5.904	69	94471	9.63	PPBV		97
64)	METHYL ISOBUTYL KETONE	6.653	58	72904	9.58	PPBV		97
65)	CIS-1,3-DICHLOROPROPENE	6.554	75	136875	9.61	PPBV		98
66)	TOLUENE	7.795	91	321960	9.33	PPBV		100
67)	1,3-DICHLOROPROPANE	7.849	76	149782	9.39	PPBV		100
68)	TRANS-1,3-DICHLOROPROPENE	7.251	75	109729	9.47	PPBV		98
69)	1,1,2-TRICHLOROETHANE	7.412	83	91685	9.23	PPBV		99
70)	2-HEXANONE	8.361	58	85285	8.74	PPBV		97
71)	ETHYL METHACRYLATE	8.499	69	145662	10.21	PPBV		98
72)	TETRACHLOROETHENE	9.560	164	125345	9.79	PPBV		100
73)	DIBROMOCHLOROMETHANE	8.338	129	187828	9.61	PPBV		100
74)	1,2-DIBROMOETHANE	8.692	107	158402	9.37	PPBV		100
75)	OCTANE	9.698	43	160614	9.23	PPBV		97
77)	1,1,1,2-TETRACHLOROETHANE	10.795	131	128751	9.89	PPBV		98
78)	CHLOROBENZENE	10.782	112	245823	9.49	PPBV		98
79)	ETHYLBENZENE	11.672	91	386155	9.69	PPBV		99
80)	M,P-XYLENE	12.106	91	587300	19.70	PPBV		99
81)	O-XYLENE	13.049	91	294701	9.84	PPBV		98
82)	STYRENE	12.830	104	230837	10.30	PPBV		99
83)	NONANE	14.155	43	156796	8.96	PPBV		98
84)	BROMOFORM	11.920	173	175876	9.95	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	13.052	83	206870	9.43	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.335	75	151270	9.39	PPBV	#	100
88)	ISOPROPYLBENZENE	14.566	120	116075	10.07	PPBV		97
89)	BROMOBENZENE	14.444	77	185165	9.13	PPBV		95
90)	2-CHLOROTOLUENE	15.576	126	99172	10.30	PPBV		99
91)	N-PROPYLBENZENE	15.913	120	114937	10.57	PPBV		99
92)	4-ETHYLTOLUENE	16.229	105	400431	10.32	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.373	105	323140	10.09	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.560	118	167377	10.36	PPBV		100
95)	TERT-BUTYLBENZENE	16.810	134	81230	9.94	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.817	105	314976	10.07	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56959.D
Acq On : 29 Dec 2021 7:39 am
Operator : thomash
Sample : cc2529-10
Misc : MS55592,V2w2536,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 15:13:52 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

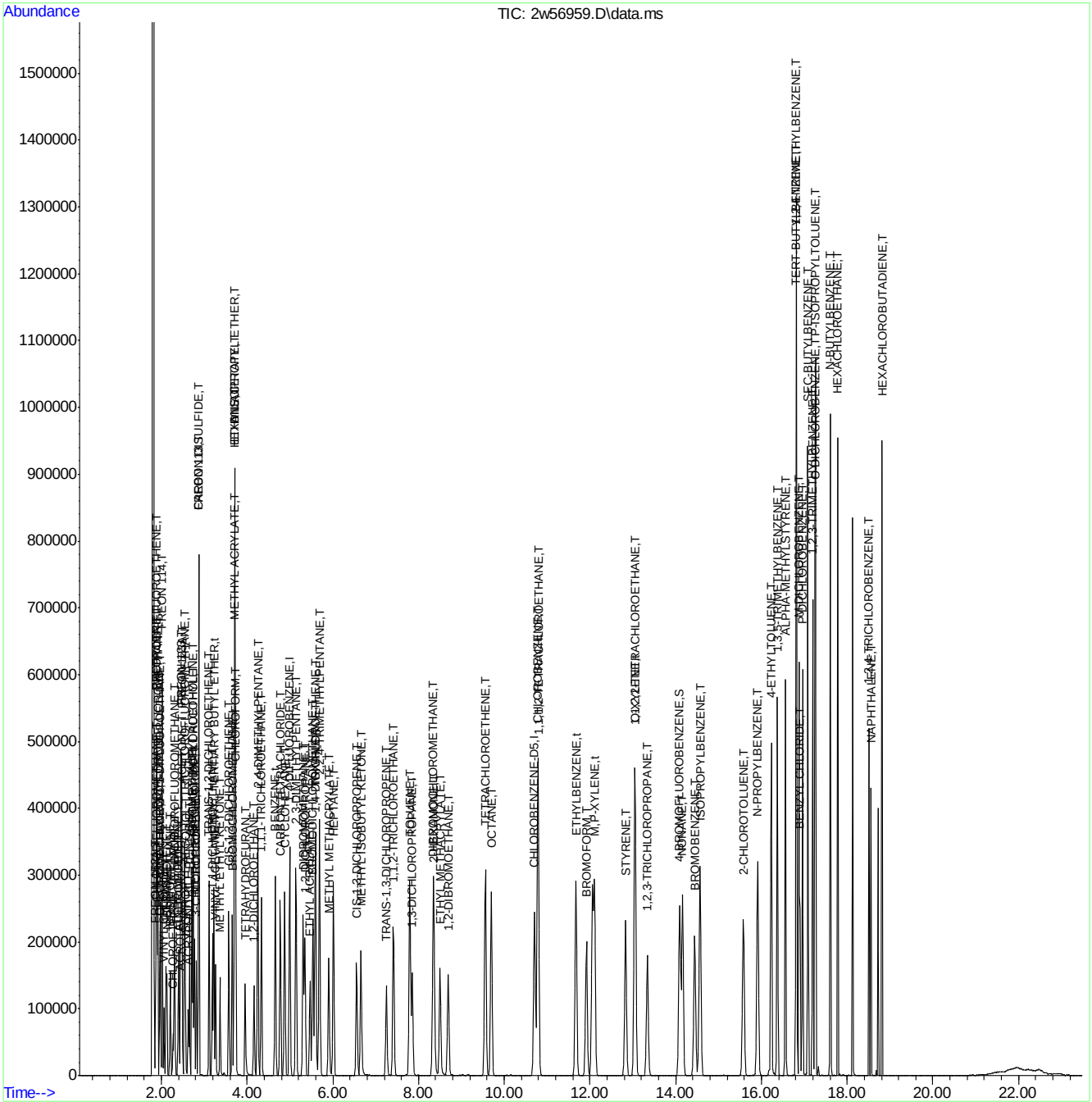
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.901	91	159409	9.45	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	207194	9.63	PPBV	100
99)	P-DICHLOROBENZENE	16.958	146	202605	9.69	PPBV	99
100)	O-DICHLOROBENZENE	17.248	146	190099	9.62	PPBV	99
101)	SEC-BUTYLBENZENE	17.084	134	100163	10.34	PPBV	96
102)	1,2,3-TRIMETHYLBENZENE	17.193	105	302775	10.04	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.261	134	104166	10.23	PPBV	98
104)	N-BUTYLBENZENE	17.601	134	90722	10.34	PPBV	97
105)	HEXACHLOROETHANE	17.782	117	118551	9.53	PPBV	98
106)	HEXACHLOROBUTADIENE	18.814	225	107777	8.69	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.508	180	96170	8.58	PPBV	99
108)	NAPHTHALENE	18.556	128	201573	8.24	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w56959.D
Acq On : 29 Dec 2021 7:39 am
Operator : thomash
Sample : cc2529-10
Misc : MS55592,V2w2536,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 15:13:52 2021
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57042.D
Acq On : 4 Jan 2022 1:03 pm
Operator : danat
Sample : cc2529-10
Misc : MS55592,V2w2539,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 16:13:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.647	128	57080	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.988	114	301464	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.698	117	262929	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.087	95	172655	9.83	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.865	65	47706	9.11	PPBV		100
4) CHLORODIFLUOROMETHANE	1.882	67	19268	9.18	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.898	116	127360	9.58	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.917	85	247091	12.03	PPBV	#	98
7) PROPYLENE	1.894	41	51940	8.91	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.968	65	132061	9.72	PPBV		99
9) FREON 114	2.013	85	223826	10.10	PPBV		99
10) CHLOROMETHANE	1.975	52	20729	10.50	PPBV		99
11) VINYL CHLORIDE	2.055	62	83204	9.92	PPBV		100
12) 1,3-BUTADIENE	2.107	54	59108	9.97	PPBV		99
13) N-BUTANE	2.129	43	98972	9.72	PPBV	#	99
14) BROMOMETHANE	2.206	94	83467	9.89	PPBV		100
15) CHLOROETHANE	2.271	64	47323	10.08	PPBV	#	86
16) DICHLOROFLUOROMETHANE	2.303	67	177531	9.92	PPBV		100
17) ACETONITRILE	2.390	41	54179	9.00	PPBV		100
18) ACROLEIN	2.431	56	33435	9.59	PPBV		99
19) FREON 123	2.451	83	191950	10.16	PPBV		100
20) FREON 123A	2.467	117	107768	10.09	PPBV		98
21) TRICHLOROFLUOROMETHANE	2.534	101	180482	10.08	PPBV		100
22) ISOPROPYL ALCOHOL	2.547	45	107708	10.09	PPBV		99
23) ACETONE	2.476	58	35602	9.43	PPBV		96
24) PENTANE	2.647	42	58520	10.94	PPBV		97
25) IODOMETHANE	2.705	142	208674	10.27	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.730	96	78837	10.61	PPBV		99
27) CARBON DISULFIDE	2.865	76	206004	10.92	PPBV		100
28) ETHANOL	2.306	45	27292	8.99	PPBV		100
29) BROMOETHENE	2.399	106	80706	10.18	PPBV		100
30) ACRYLONITRILE	2.618	52	44632	9.97	PPBV		99
31) METHYLENE CHLORIDE	2.766	84	72168	9.07	PPBV		98
32) 3-CHLOROPROPENE	2.808	76	38146	11.28	PPBV		97
33) FREON 113	2.862	151	132819	10.47	PPBV		98
34) TRANS-1,2-DICHLOROETHENE	3.103	96	87211	9.68	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.737	59	104860	12.05	PPBV		93
36) METHYL TERTIARY BUTYL ...	3.216	73	184402	10.43	PPBV		100
37) TETRAHYDROFURAN	3.946	72	43492	11.03	PPBV		99
38) HEXANE	3.701	57	134504	10.01	PPBV		99
39) VINYL ACETATE	3.258	86	21605	9.50	PPBV		98
40) 1,1-DICHLOROETHANE	3.184	63	140615	9.69	PPBV		99
41) METHYL ETHYL KETONE	3.357	72	43672	9.73	PPBV		99
42) CIS-1,2-DICHLOROETHENE	3.566	96	94934	9.94	PPBV		99
43) DIISOPROPYL ETHER	3.705	59	39864	10.93	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57042.D
Acq On : 4 Jan 2022 1:03 pm
Operator : danat
Sample : cc2529-10
Misc : MS55592,V2w2539,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 16:13:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	ETHYL ACETATE	3.708	61	26078	10.89	PPBV		97
45)	METHYL ACRYLATE	3.695	55	150985	9.87	PPBV	#	99
46)	CHLOROFORM	3.724	83	169834	9.83	PPBV		99
47)	2,4-DIMETHYLPENTANE	4.242	57	160062	9.89	PPBV		99
48)	1,1,1-TRICHLOROETHANE	4.325	97	157913	9.98	PPBV		98
49)	CARBON TETRACHLORIDE	4.769	117	168505	10.03	PPBV		100
50)	1,2-DICHLOROETHANE	4.152	62	94264	9.67	PPBV		99
51)	BENZENE	4.650	78	282222	9.74	PPBV		100
53)	CYCLOHEXANE	4.869	84	126063	9.94	PPBV		98
54)	2,3-DIMETHYLPENTANE	5.132	71	65671	10.19	PPBV		98
55)	TRICHLOROETHENE	5.586	95	120392	9.80	PPBV		99
56)	1,2-DICHLOROPROPANE	5.344	63	100293	9.84	PPBV		100
57)	DIBROMOMETHANE	5.299	174	115100	9.44	PPBV		99
58)	ETHYL ACRYLATE	5.460	55	183076	10.80	PPBV		100
59)	BROMODICHLOROMETHANE	5.528	83	188247	9.80	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.682	57	428932	9.64	PPBV		100
61)	1,4-DIOXANE	5.592	88	65010	8.76	PPBV		98
62)	HEPTANE	6.007	43	133166	9.99	PPBV		99
63)	METHYL METHACRYLATE	5.898	69	103602	10.67	PPBV		100
64)	METHYL ISOBUTYL KETONE	6.650	58	82632	10.97	PPBV		99
65)	CIS-1,3-DICHLOROPROPENE	6.547	75	147411	10.46	PPBV		100
66)	TOLUENE	7.788	91	339873	9.95	PPBV		100
67)	1,3-DICHLOROPROPANE	7.846	76	158227	10.02	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	7.245	75	120601	10.51	PPBV		99
69)	1,1,2-TRICHLOROETHANE	7.409	83	97674	9.93	PPBV		100
70)	2-HEXANONE	8.354	58	102692	10.63	PPBV		98
71)	ETHYL METHACRYLATE	8.495	69	163199	11.56	PPBV		99
72)	TETRACHLOROETHENE	9.553	164	133482	10.53	PPBV		99
73)	DIBROMOCHLOROMETHANE	8.338	129	196126	10.13	PPBV		100
74)	1,2-DIBROMOETHANE	8.688	107	168682	10.08	PPBV		100
75)	OCTANE	9.695	43	176822	10.27	PPBV		100
77)	1,1,1,2-TETRACHLOROETHANE	10.788	131	135212	10.26	PPBV		99
78)	CHLOROBENZENE	10.778	112	257287	9.82	PPBV		99
79)	ETHYLBENZENE	11.669	91	415130	10.30	PPBV		100
80)	M,P-XYLENE	12.103	91	623374	20.66	PPBV		99
81)	O-XYLENE	13.045	91	313300	10.34	PPBV		99
82)	STYRENE	12.830	104	247615	10.92	PPBV		99
83)	NONANE	14.154	43	174678	9.87	PPBV		99
84)	BROMOFORM	11.913	173	187499	10.48	PPBV		100
85)	1,1,2,2-TETRACHLOROETHANE	13.048	83	225975	10.17	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.338	75	165593	10.16	PPBV	#	100
88)	ISOPROPYLBENZENE	14.566	120	121754	10.44	PPBV		100
89)	BROMOBENZENE	14.444	77	201582	9.82	PPBV		97
90)	2-CHLOROTOLUENE	15.579	126	105392	10.82	PPBV		99
91)	N-PROPYLBENZENE	15.913	120	121970	11.08	PPBV		99
92)	4-ETHYLTOLUENE	16.228	105	431747	10.99	PPBV		99
93)	1,3,5-TRIMETHYLBENZENE	16.370	105	347777	10.74	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.559	118	180482	11.04	PPBV		100
95)	TERT-BUTYLBENZENE	16.813	134	88751	10.73	PPBV		100
96)	1,2,4-TRIMETHYLBENZENE	16.820	105	342706	10.83	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57042.D
Acq On : 4 Jan 2022 1:03 pm
Operator : danat
Sample : cc2529-10
Misc : MS55592,V2w2539,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 16:13:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

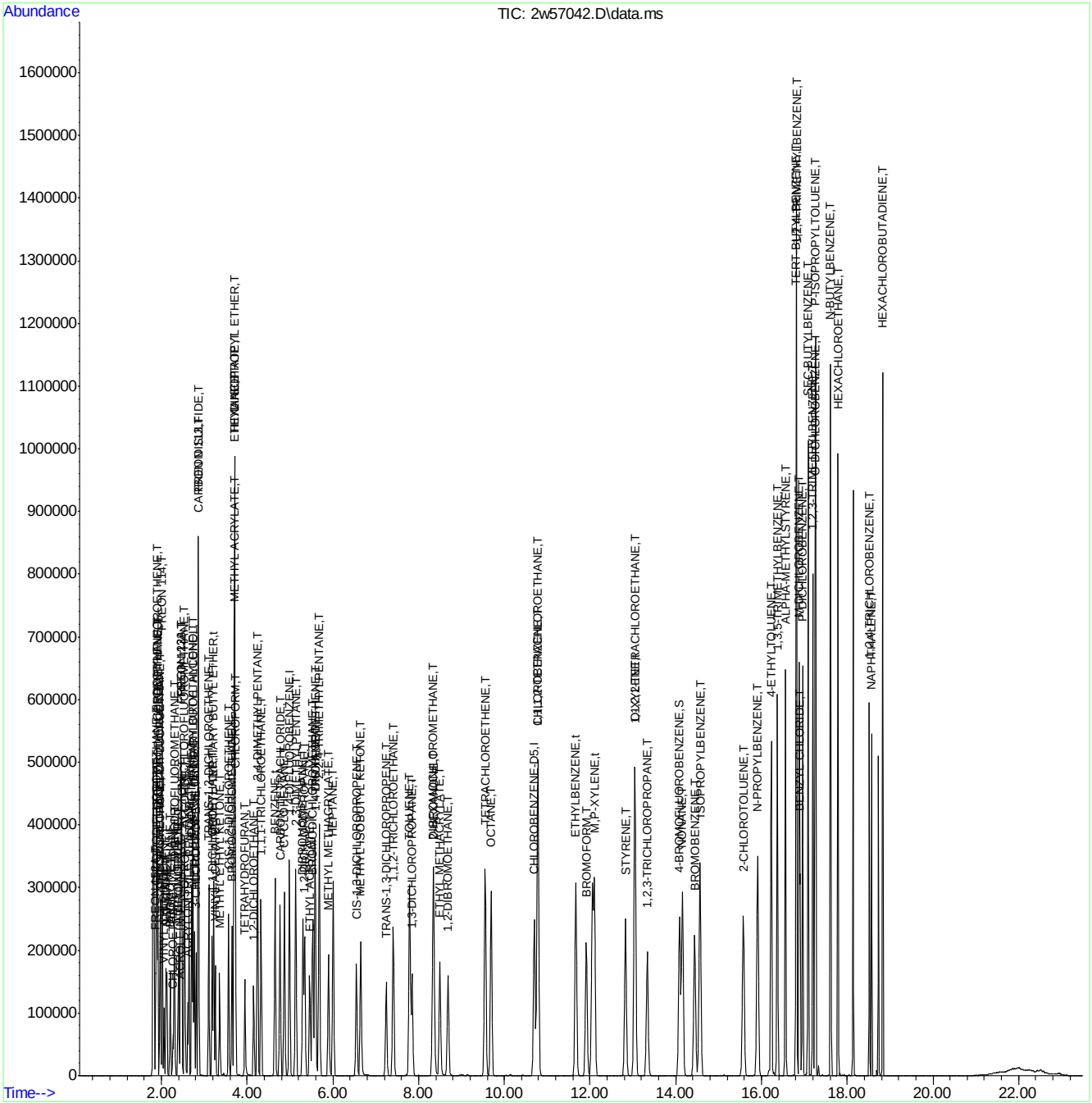
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	182392	10.69	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	227513	10.45	PPBV	100
99)	P-DICHLOROBENZENE	16.961	146	221631	10.47	PPBV	99
100)	O-DICHLOROBENZENE	17.251	146	207636	10.38	PPBV	99
101)	SEC-BUTYLBENZENE	17.087	134	106527	10.87	PPBV	99
102)	1,2,3-TRIMETHYLBENZENE	17.199	105	328050	10.75	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.264	134	112630	10.93	PPBV	99
104)	N-BUTYLBENZENE	17.608	134	98455	11.09	PPBV	99
105)	HEXACHLOROETHANE	17.788	117	127456	10.13	PPBV	99
106)	HEXACHLOROBUTADIENE	18.826	225	123755	9.86	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.518	180	115844	10.21	PPBV	99
108)	NAPHTHALENE	18.569	128	252741	10.21	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57042.D
Acq On : 4 Jan 2022 1:03 pm
Operator : danat
Sample : cc2529-10
Misc : MS55592,V2w2539,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 16:13:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57473.D
Acq On : 28 Jan 2022 8:24 am
Operator : thomash
Sample : cc2529-10
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:55:43 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.653	128	50618	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.991	114	275549	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.701	117	243637	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.087	95	167342	10.28	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.862	65	39310	8.47	PPBV		97
4) CHLORODIFLUOROMETHANE	1.878	67	16587	8.91	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.895	116	104797	8.89	PPBV	#	99
6) DICHLORODIFLUOROMETHANE	1.917	85	206450	11.33	PPBV		99
7) PROPYLENE	1.891	41	45284	8.76	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.968	65	114607	9.51	PPBV		99
9) FREON 114	2.013	85	188350	9.58	PPBV		99
10) CHLOROMETHANE	1.975	52	18791	10.74	PPBV		98
11) VINYL CHLORIDE	2.055	62	72642	9.76	PPBV		100
12) 1,3-BUTADIENE	2.110	54	52979	10.08	PPBV		95
13) N-BUTANE	2.129	43	95207	10.54	PPBV		98
14) BROMOMETHANE	2.206	94	68630	9.17	PPBV		100
15) CHLOROETHANE	2.271	64	40590	9.75	PPBV	#	86
16) DICHLOROFLUOROMETHANE	2.306	67	151255	9.53	PPBV		99
17) ACETONITRILE	2.393	41	52486	9.83	PPBV		99
18) ACROLEIN	2.438	56	29916	9.67	PPBV		99
19) FREON 123	2.454	83	161923	9.66	PPBV		100
20) FREON 123A	2.473	117	87477	9.24	PPBV		90
21) TRICHLOROFLUOROMETHANE	2.541	101	151600	9.54	PPBV		100
22) ISOPROPYL ALCOHOL	2.554	45	105055	11.10	PPBV		97
23) ACETONE	2.480	58	32309	9.65	PPBV		93
24) PENTANE	2.650	42	60112	12.67	PPBV		94
25) IODOMETHANE	2.708	142	168397	9.35	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.737	96	66693	10.12	PPBV		92
27) CARBON DISULFIDE	2.869	76	181767	10.87	PPBV	#	94
28) ETHANOL	2.309	45	26318	9.78	PPBV		99
29) BROMOETHENE	2.403	106	65619	9.34	PPBV		100
30) ACRYLONITRILE	2.624	52	42599	10.73	PPBV		99
31) METHYLENE CHLORIDE	2.772	84	62624	8.88	PPBV		91
32) 3-CHLOROPROPENE	2.814	76	33954	11.32	PPBV	#	80
33) FREON 113	2.869	151	106381	9.45	PPBV		94
34) TRANS-1,2-DICHLOROETHENE	3.110	96	69745	8.73	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.743	59	110337	14.30	PPBV	#	84
36) METHYL TERTIARY BUTYL ...	3.222	73	172775	11.02	PPBV		99
37) TETRAHYDROFURAN	3.949	72	36248	10.37	PPBV		89
38) HEXANE	3.705	57	115709	9.71	PPBV		94
39) VINYL ACETATE	3.261	86	17112	8.49	PPBV		73
40) 1,1-DICHLOROETHANE	3.190	63	118343	9.20	PPBV		99
41) METHYL ETHYL KETONE	3.364	72	36151	9.08	PPBV		82
42) CIS-1,2-DICHLOROETHENE	3.573	96	76522	9.04	PPBV		96
43) DIISOPROPYL ETHER	3.708	59	33917	10.49	PPBV		86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57473.D
Acq On : 28 Jan 2022 8:24 am
Operator : thomash
Sample : cc2529-10
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:55:43 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.714	61	22082	10.40	PPBV		72
45) METHYL ACRYLATE	3.698	55	131087	9.66	PPBV	#	99
46) CHLOROFORM	3.730	83	142999	9.34	PPBV		99
47) 2,4-DIMETHYLPENTANE	4.245	57	137031	9.54	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.329	97	134172	9.57	PPBV		99
49) CARBON TETRACHLORIDE	4.772	117	139540	9.37	PPBV		99
50) 1,2-DICHLOROETHANE	4.158	62	84596	9.79	PPBV		98
51) BENZENE	4.653	78	233860	9.10	PPBV		98
53) CYCLOHEXANE	4.872	84	102991	8.88	PPBV		97
54) 2,3-DIMETHYLPENTANE	5.136	71	54813	9.30	PPBV		95
55) TRICHLOROETHENE	5.589	95	99293	8.85	PPBV		98
56) 1,2-DICHLOROPROPANE	5.345	63	83728	8.98	PPBV		99
57) DIBROMOMETHANE	5.306	174	89530	8.03	PPBV		95
58) ETHYL ACRYLATE	5.463	55	157020	10.13	PPBV		99
59) BROMODICHLOROMETHANE	5.531	83	161860	9.21	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.685	57	369247	9.08	PPBV		100
61) 1,4-DIOXANE	5.595	88	53183	7.84	PPBV		98
62) HEPTANE	6.010	43	123617	10.14	PPBV		94
63) METHYL METHACRYLATE	5.901	69	85458	9.63	PPBV		90
64) METHYL ISOBUTYL KETONE	6.650	58	71098	10.33	PPBV		90
65) CIS-1,3-DICHLOROPROPENE	6.553	75	124695	9.68	PPBV		95
66) TOLUENE	7.791	91	283297	9.07	PPBV		100
67) 1,3-DICHLOROPROPANE	7.849	76	135486	9.39	PPBV		99
68) TRANS-1,3-DICHLOROPROPENE	7.248	75	103459	9.87	PPBV		96
69) 1,1,2-TRICHLOROETHANE	7.412	83	81904	9.11	PPBV		100
70) 2-HEXANONE	8.360	58	90830	10.29	PPBV		93
71) ETHYL METHACRYLATE	8.496	69	132861	10.30	PPBV		94
72) TETRACHLOROETHENE	9.557	164	103258	8.92	PPBV		98
73) DIBROMOCHLOROMETHANE	8.338	129	160753	9.09	PPBV		99
74) 1,2-DIBROMOETHANE	8.688	107	141243	9.24	PPBV		99
75) OCTANE	9.698	43	168789	10.73	PPBV		92
77) 1,1,1,2-TETRACHLOROETHANE	10.788	131	111389	9.12	PPBV		98
78) CHLOROBENZENE	10.778	112	215473	8.87	PPBV		99
79) ETHYLBENZENE	11.669	91	357891	9.58	PPBV		99
80) M,P-XYLENE	12.100	91	539179	19.28	PPBV		99
81) O-XYLENE	13.045	91	273199	9.73	PPBV		97
82) STYRENE	12.830	104	214213	10.19	PPBV		99
83) NONANE	14.154	43	171575	10.46	PPBV		91
84) BROMOFORM	11.917	173	152080	9.18	PPBV		99
85) 1,1,2,2-TETRACHLOROETHANE	13.052	83	202468	9.84	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.338	75	147710	9.78	PPBV		100
88) ISOPROPYLBENZENE	14.566	120	103329	9.56	PPBV		96
89) BROMOBENZENE	14.441	77	182195	9.58	PPBV		96
90) 2-CHLOROTOLUENE	15.579	126	89513	9.92	PPBV		99
91) N-PROPYLBENZENE	15.913	120	104909	10.29	PPBV		100
92) 4-ETHYLTOLUENE	16.228	105	381108	10.47	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	309557	10.31	PPBV		99
94) ALPHA-METHYLSTYRENE	16.560	118	160458	10.59	PPBV		99
95) TERT-BUTYLBENZENE	16.810	134	74837	9.76	PPBV		95
96) 1,2,4-TRIMETHYLBENZENE	16.817	105	309166	10.54	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57473.D
Acq On : 28 Jan 2022 8:24 am
Operator : thomash
Sample : cc2529-10
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:55:43 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

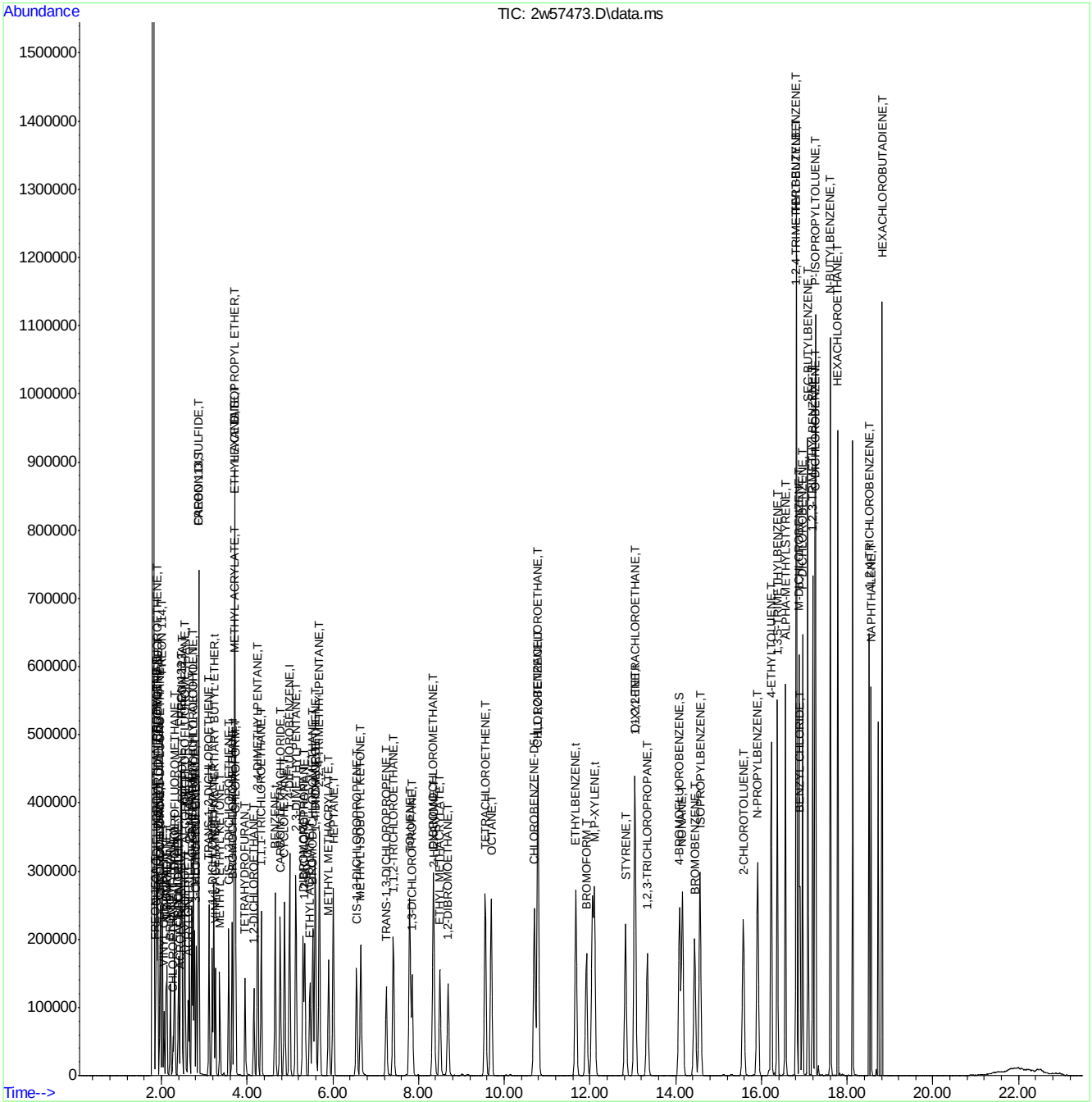
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.900	91	164824	10.42	PPBV	99
98)	M-DICHLOROBENZENE	16.878	146	196637	9.74	PPBV	99
99)	P-DICHLOROBENZENE	16.958	146	194438	9.91	PPBV	100
100)	O-DICHLOROBENZENE	17.248	146	184542	9.96	PPBV	99
101)	SEC-BUTYLBENZENE	17.087	134	92365	10.17	PPBV	95
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	303226	10.72	PPBV	99
103)	P-ISOPROPYLTOLUENE	17.260	134	98359	10.30	PPBV	95
104)	N-BUTYLBENZENE	17.604	134	88976	10.82	PPBV	89
105)	HEXACHLOROETHANE	17.781	117	118191	10.13	PPBV	96
106)	HEXACHLOROBUTADIENE	18.817	225	118612	10.19	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.511	180	114422	10.88	PPBV	99
108)	NAPHTHALENE	18.559	128	254714	11.10	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57473.D
Acq On : 28 Jan 2022 8:24 am
Operator : thomash
Sample : cc2529-10
Misc : MS56382,V2w2558,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 10:55:43 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57498.D
Acq On : 29 Jan 2022 2:12 am
Operator : thomash
Sample : ecc2529-10
Misc : MS56243,V2w2558,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 31 14:53:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.656	128	48025	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.994	114	261284	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.704	117	231961	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.093	95	157209	10.14	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.872	65	34293	7.78	PPBV		97
4) CHLORODIFLUOROMETHANE	1.885	67	14251	8.07	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.901	116	90286	8.07	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.923	85	182166	10.54	PPBV		99
7) PROPYLENE	1.901	41	39239	8.00	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.978	65	100911	8.83	PPBV		99
9) FREON 114	2.023	85	165824	8.89	PPBV		98
10) CHLOROMETHANE	1.981	52	16852	10.15	PPBV		99
11) VINYL CHLORIDE	2.065	62	64392	9.12	PPBV		100
12) 1,3-BUTADIENE	2.120	54	47367	9.50	PPBV		96
13) N-BUTANE	2.139	43	84685	9.88	PPBV	#	97
14) BROMOMETHANE	2.219	94	60050	8.46	PPBV		100
15) CHLOROETHANE	2.284	64	35483	8.98	PPBV	#	86
16) DICHLOROFLUOROMETHANE	2.319	67	131999	8.77	PPBV		100
17) ACETONITRILE	2.403	41	46359	9.15	PPBV		100
18) ACROLEIN	2.448	56	26439	9.01	PPBV		100
19) FREON 123	2.464	83	140744	8.85	PPBV		99
20) FREON 123A	2.480	117	75737	8.43	PPBV		88
21) TRICHLOROFLUOROMETHANE	2.547	101	131966	8.76	PPBV		100
22) ISOPROPYL ALCOHOL	2.560	45	90716	10.10	PPBV		97
23) ACETONE	2.486	58	29353	9.24	PPBV		96
24) PENTANE	2.657	42	53083	11.79	PPBV		93
25) IODOMETHANE	2.714	142	146464	8.57	PPBV		98
26) 1,1-DICHLOROETHYLENE	2.743	96	58564	9.36	PPBV		91
27) CARBON DISULFIDE	2.875	76	160020	10.08	PPBV	#	90
28) ETHANOL	2.322	45	23292	9.12	PPBV		98
29) BROMOETHENE	2.412	106	56856	8.53	PPBV		100
30) ACRYLONITRILE	2.631	52	37646	10.00	PPBV		98
31) METHYLENE CHLORIDE	2.779	84	55006	8.22	PPBV		90
32) 3-CHLOROPROPENE	2.817	76	29731	10.45	PPBV	#	81
33) FREON 113	2.875	151	91990	8.62	PPBV		93
34) TRANS-1,2-DICHLOROETHENE	3.113	96	60361	7.96	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.750	59	91890	12.56	PPBV	#	85
36) METHYL TERTIARY BUTYL ...	3.226	73	148363	9.97	PPBV		99
37) TETRAHYDROFURAN	3.956	72	31656	9.54	PPBV		89
38) HEXANE	3.711	57	101003	8.93	PPBV		94
39) VINYL ACETATE	3.267	86	15078	7.88	PPBV		72
40) 1,1-DICHLOROETHANE	3.193	63	103201	8.45	PPBV		99
41) METHYL ETHYL KETONE	3.367	72	31664	8.39	PPBV		82
42) CIS-1,2-DICHLOROETHENE	3.576	96	66340	8.26	PPBV		95
43) DIISOPROPYL ETHER	3.714	59	29502	9.61	PPBV		86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57498.D
Acq On : 29 Jan 2022 2:12 am
Operator : thomash
Sample : ecc2529-10
Misc : MS56243,V2w2558,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 31 14:53:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.718	61	18959	9.41	PPBV		68
45) METHYL ACRYLATE	3.705	55	113637	8.83	PPBV	#	99
46) CHLOROFORM	3.734	83	123935	8.53	PPBV		98
47) 2,4-DIMETHYLPENTANE	4.251	57	119372	8.76	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.335	97	114745	8.62	PPBV		98
49) CARBON TETRACHLORIDE	4.775	117	119171	8.43	PPBV		100
50) 1,2-DICHLOROETHANE	4.161	62	73656	8.98	PPBV		98
51) BENZENE	4.660	78	202241	8.30	PPBV		97
53) CYCLOHEXANE	4.875	84	89896	8.18	PPBV		98
54) 2,3-DIMETHYLPENTANE	5.142	71	47475	8.50	PPBV		96
55) TRICHLOROETHENE	5.592	95	85832	8.06	PPBV		97
56) 1,2-DICHLOROPROPANE	5.351	63	73259	8.29	PPBV		100
57) DIBROMOMETHANE	5.309	174	76453	7.23	PPBV		94
58) ETHYL ACRYLATE	5.467	55	134664	9.17	PPBV		99
59) BROMODICHLOROMETHANE	5.534	83	139251	8.36	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.689	57	321323	8.33	PPBV		100
61) 1,4-DIOXANE	5.599	88	46056	7.16	PPBV		97
62) HEPTANE	6.017	43	107740	9.32	PPBV		93
63) METHYL METHACRYLATE	5.904	69	74373	8.84	PPBV		90
64) METHYL ISOBUTYL KETONE	6.656	58	61731	9.46	PPBV		90
65) CIS-1,3-DICHLOROPROPENE	6.557	75	106095	8.68	PPBV		95
66) TOLUENE	7.795	91	244455	8.26	PPBV		100
67) 1,3-DICHLOROPROPANE	7.856	76	116726	8.53	PPBV		99
68) TRANS-1,3-DICHLOROPROPENE	7.254	75	88985	8.95	PPBV		96
69) 1,1,2-TRICHLOROETHANE	7.415	83	70587	8.28	PPBV		99
70) 2-HEXANONE	8.357	58	77397	9.24	PPBV		91
71) ETHYL METHACRYLATE	8.499	69	113942	9.31	PPBV		93
72) TETRACHLOROETHENE	9.560	164	88229	8.03	PPBV		98
73) DIBROMOCHLOROMETHANE	8.341	129	137584	8.20	PPBV		99
74) 1,2-DIBROMOETHANE	8.692	107	120280	8.30	PPBV		100
75) OCTANE	9.698	43	146141	9.80	PPBV		92
77) 1,1,1,2-TETRACHLOROETHANE	10.791	131	94502	8.13	PPBV		97
78) CHLOROBENZENE	10.782	112	184863	8.00	PPBV		99
79) ETHYLBENZENE	11.672	91	308808	8.68	PPBV		99
80) M,P-XYLENE	12.103	91	465638	17.49	PPBV		99
81) O-XYLENE	13.045	91	235406	8.81	PPBV		97
82) STYRENE	12.830	104	183932	9.19	PPBV		99
83) NONANE	14.161	43	149357	9.56	PPBV		90
84) BROMOFORM	11.920	173	129951	8.24	PPBV		99
85) 1,1,2,2-TETRACHLOROETHANE	13.055	83	175150	8.94	PPBV		99
86) 1,2,3-TRICHLOROPROPANE	13.335	75	127657	8.87	PPBV		100
88) ISOPROPYLBENZENE	14.569	120	88697	8.62	PPBV		95
89) BROMOBENZENE	14.444	77	157515	8.70	PPBV		95
90) 2-CHLOROTOLUENE	15.576	126	77749	9.05	PPBV		99
91) N-PROPYLBENZENE	15.913	120	91081	9.38	PPBV		100
92) 4-ETHYLTOLUENE	16.228	105	328366	9.47	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.370	105	266254	9.32	PPBV		99
94) ALPHA-METHYLSTYRENE	16.563	118	137652	9.54	PPBV		99
95) TERT-BUTYLBENZENE	16.810	134	64198	8.80	PPBV		95
96) 1,2,4-TRIMETHYLBENZENE	16.817	105	267541	9.58	PPBV		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57498.D
Acq On : 29 Jan 2022 2:12 am
Operator : thomash
Sample : ecc2529-10
Misc : MS56243,V2w2558,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 31 14:53:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration

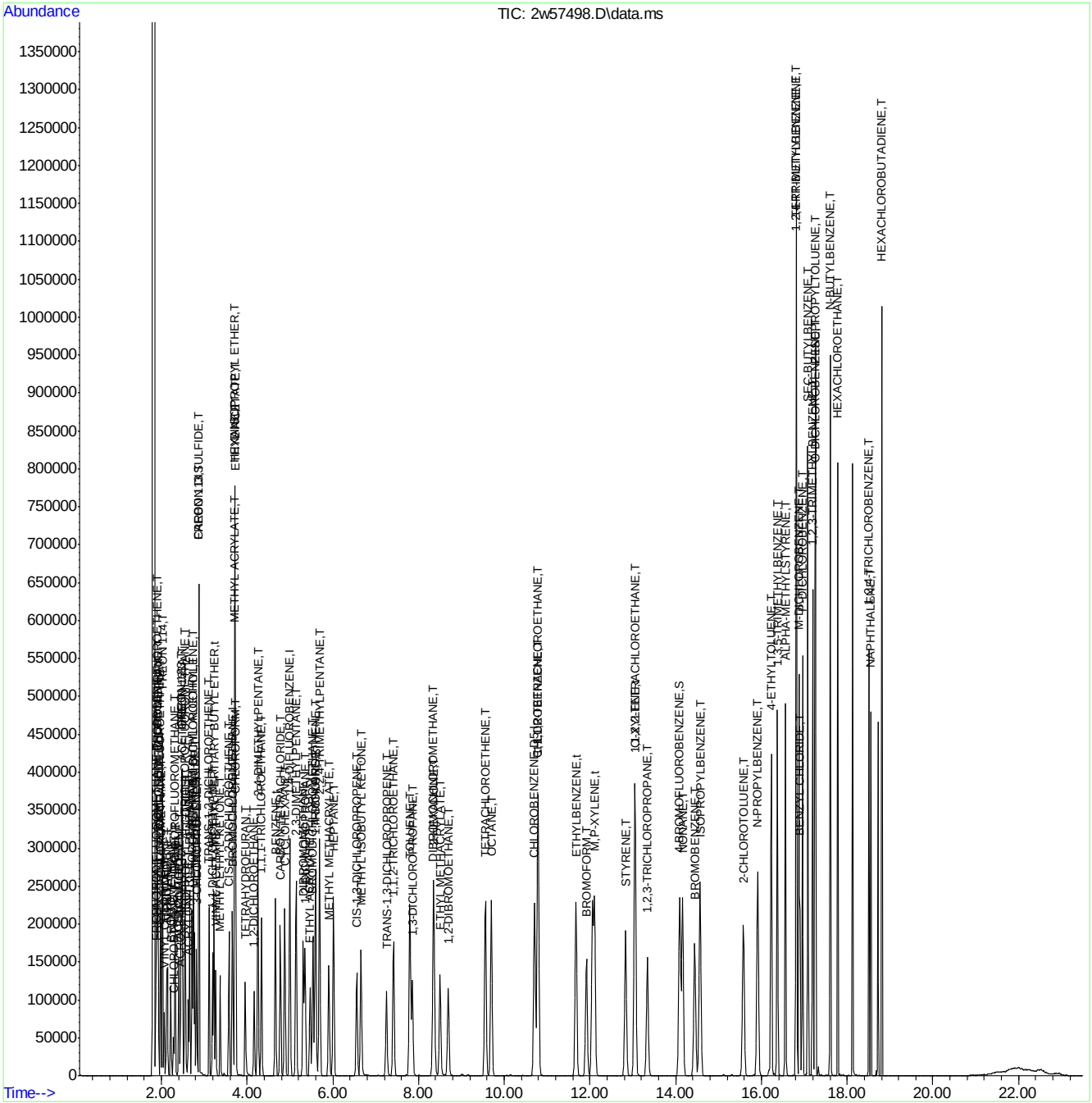
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.900	91	139312	9.25	PPBV	99
98) M-DICHLOROBENZENE	16.878	146	169037	8.80	PPBV	99
99) P-DICHLOROBENZENE	16.958	146	167992	9.00	PPBV	99
100) O-DICHLOROBENZENE	17.248	146	158577	8.99	PPBV	99
101) SEC-BUTYLBENZENE	17.084	134	80167	9.27	PPBV	95
102) 1,2,3-TRIMETHYLBENZENE	17.193	105	261005	9.69	PPBV	99
103) P-ISOPROPYLTOLUENE	17.260	134	84940	9.35	PPBV	96
104) N-BUTYLBENZENE	17.601	134	77130	9.85	PPBV	88
105) HEXACHLOROETHANE	17.781	117	100443	9.04	PPBV	96
106) HEXACHLOROBUTADIENE	18.810	225	102348	9.24	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.505	180	98483	9.84	PPBV	99
108) NAPHTHALENE	18.553	128	220240	10.08	PPBV	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w57498.D
Acq On : 29 Jan 2022 2:12 am
Operator : thomash
Sample : ecc2529-10
Misc : MS56243,V2w2558,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 31 14:53:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2529.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Dec 21 09:05:59 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47592.D
Acq On : 26 Jan 2022 2:24 pm
Operator : danat
Sample : ic1966-0.5
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 26 15:03:36 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	245040	10.00	ppb(v	-0.01
53) 1,4-Difluorobenzene	13.537	114	949447	10.00	ppb(v	-0.01
76) Chlorobenzene-d5	18.805	82	426196	10.00	ppb(v	-0.01
108) Bromochloromethane (A)	11.341	130	245040	10.00	ppb(v	-0.01
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	522885	9.65	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 96.50%			
Target Compounds						Qvalue
2) Freon 152A	4.385	65	6195	0.40	ppb(v	99
3) Chlorodifluoromethane	4.459	67	2476	0.33	ppb(v	94
4) Propene	4.294	41	6391	0.40	ppb(v	98
5) Chlorotrifluoroethene	4.336	116	16139	0.39	ppb(v	98
6) Dichlorodifluoromethane	4.379	85	33789	0.37	ppb(v	99
7) 1-Chloro-1,1-difluoroe...	4.783	65	19521	0.37	ppb(v#	91
8) Chloromethane	4.789	50	8553	0.39	ppb(v	100
9) Dichlorotetrafluoroethane	4.685	85	30752	0.37	ppb(v	99
10) Vinyl Chloride	5.003	62	10488	0.42	ppb(v#	99
11) 1,3-Butadiene	5.058	54	6581	0.41	ppb(v	95
12) n-Butane	4.887	58	1474	0.40	ppb(v#	83
13) Bromomethane	5.719	94	8623	0.38	ppb(v	93
14) Chloroethane	6.013	64	5688	0.57	ppb(v	97
15) Dichlorofluoromethane	6.459	67	27479	0.48	ppb(v	99
16) Acetonitrile	9.457	41	8586	0.55	ppb(v	91
17) Freon 123	7.554	83	29921	0.51	ppb(v	95
18) Freon 123A	7.426	117	15121	0.46	ppb(v	90
19) Bromoethene	6.270	106	12604	0.47	ppb(v	99
20) Acrolein	8.068	56	4796	0.52	ppb(v#	99
21) Trichlorofluoromethane	6.349	101	32187	0.46	ppb(v	99
22) Acetone	8.649	58	5373	0.55	ppb(v	77
23) Pentane	6.367	57	2906	0.48	ppb(v	89
24) Iodomethane	7.695	142	37280	0.46	ppb(v	95
25) Isopropyl Alcohol	8.466	43	3538	0.50	ppb(v	98
26) 1,1-Dichloroethene	7.426	61	19728	0.51	ppb(v	99
27) Freon 113	7.542	101	29453	0.49	ppb(v	96
28) Methylene Chloride	8.570	84	14146	0.58	ppb(v	97
29) Carbon Disulfide	7.481	76	39573	0.52	ppb(v	100
30) Ethanol	7.346	45	4367	0.56	ppb(v	95
31) Acrylonitrile	10.069	53	9180	0.60	ppb(v	96
32) 3-Chloropropene	8.374	76	5627	0.51	ppb(v	92
33) trans-1,2-Dichloroethene	8.906	61	18797	0.52	ppb(v	97
34) tert-Butyl Alcohol	9.316	59	23909	0.51	ppb(v	99
35) Methyl tert-Butyl Ether	9.163	73	34994	0.52	ppb(v#	74
36) Vinyl Acetate	10.497	43	26546	0.50	ppb(v	99
37) 1,1-Dichloroethane	10.032	63	22365	0.51	ppb(v	98
38) 2-Butanone	11.996	72	5445	0.52	ppb(v	99
39) Hexane	9.127	56	10292	0.54	ppb(v	83
40) cis-1,2-Dichloroethene	11.005	61	17488	0.51	ppb(v	96
41) Di-isopropyl Ether	9.885	87	10244	0.51	ppb(v	96
42) Ethyl Acetate	11.690	61	3942	0.57	ppb(v	89
43) Methyl Acrylate	11.708	55	19618	0.58	ppb(v	95
44) Chloroform	11.482	83	30257	0.47	ppb(v	100
45) 2,4-Dimethylpentane	10.173	57	21391	0.50	ppb(v	98
46) Tetrahydrofuran	11.788	72	6036	0.55	ppb(v	98
47) 1,1,1-Trichloroethane	11.867	97	28436	0.46	ppb(v	99
48) 1,2-Dichloroethane	12.822	62	16397	0.48	ppb(v	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47592.D
Acq On : 26 Jan 2022 2:24 pm
Operator : danat
Sample : ic1966-0.5
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 26 15:03:36 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	Benzene	12.510	78	42594	0.53	ppb(v	99
50)	Carbon Tetrachloride	11.769	117	29005	0.44	ppb(v	97
51)	Cyclohexane	11.427	56	18592	0.50	ppb(v	97
52)	2,3-Dimethylpentane	11.598	71	7991	0.50	ppb(v	90
54)	2,2,4-Trimethylpentane	12.320	57	58278	0.50	ppb(v	98
55)	Heptane	12.497	71	12316	0.51	ppb(v	97
56)	Trichloroethene	13.531	97	12285	0.43	ppb(v#	51
57)	1,2-Dichloropropane	14.400	63	15362	0.52	ppb(v	97
58)	Dibromomethane	14.235	174	18736	0.40	ppb(v	90
59)	Ethyl Acrylate	14.418	55	26305	0.48	ppb(v#	92
60)	Methyl Methacrylate	14.767	69	13167	0.47	ppb(v	96
61)	1,4-Dioxane	14.853	88	11863	0.58	ppb(v	99
62)	Bromodichloromethane	14.510	83	30565	0.44	ppb(v	97
63)	cis-1,3-Dichloropropene	15.617	75	23928	0.45	ppb(v	97
64)	4-Methyl-2-pentanone	16.688	58	11864	0.53	ppb(v	96
65)	trans-1,3-Dichloropropene	16.768	75	22053	0.48	ppb(v	96
66)	Toluene	16.064	91	49433	0.46	ppb(v	99
67)	1,1,2-Trichloroethane	17.061	97	18089	0.45	ppb(v	91
68)	1,3-Dichloropropane	17.563	76	22917	0.48	ppb(v	99
69)	2-Hexanone	18.224	43	23703	0.50	ppb(v	99
70)	Ethyl Methacrylate	17.055	69	21101	0.43	ppb(v#	70
71)	Dibromochloromethane	17.410	129	31799	0.41	ppb(v	99
72)	Tetrachloroethene	16.792	166	26378	0.41	ppb(v	94
73)	1,2-Dibromoethane	17.857	107	27841	0.45	ppb(v	100
74)	Octane	15.770	43	26177	0.50	ppb(v	95
75)	1,1,1,2-Tetrachloroethane	18.945	131	22168	0.43	ppb(v	98
77)	Chlorobenzene	18.841	112	39377	0.46	ppb(v	99
78)	Ethylbenzene	18.890	91	61122	0.46	ppb(v	97
79)	m,p-Xylene	19.147	91	94576	0.96	ppb(v	99
80)	Styrene	19.949	104	32611	0.45	ppb(v	97
81)	Nonane	18.737	43	26043	0.51	ppb(v	99
82)	o-Xylene	19.869	91	47309	0.46	ppb(v	98
83)	Bromoform	19.992	173	30548	0.41	ppb(v	99
84)	1,1,2,2-Tetrachloroethane	21.050	83	37665	0.49	ppb(v	98
85)	1,2,3-Trichloropropane	21.246	75	29264	0.48	ppb(v	99
86)	Isopropylbenzene	20.365	105	67433	0.47	ppb(v	98
87)	Bromobenzene	20.952	156	21799	0.43	ppb(v	87
88)	2-Chlorotoluene	21.215	126	16639	0.47	ppb(v	98
89)	n-Propylbenzene	20.983	120	16497	0.46	ppb(v	91
91)	4-Ethyltoluene	21.142	105	58970	0.46	ppb(v	99
92)	1,3,5-Trimethylbenzene	21.258	105	50298	0.48	ppb(v	98
93)	alpha-Methylstyrene	21.607	118	21280	0.40	ppb(v	96
94)	tert-Butylbenzene	21.705	134	10940	0.45	ppb(v	96
95)	1,2,4-Trimethylbenzene	21.796	105	45993	0.45	ppb(v	97
96)	1,3-Dichlorobenzene	22.237	146	28710	0.41	ppb(v	98
97)	1,2,3-trimethylbenzene	22.365	105	44694	0.45	ppb(v	99
98)	Benzyl Chloride	22.641	126	6597	0.37	ppb(v	81
99)	1,4-Dichlorobenzene	22.347	146	27168	0.41	ppb(v	98
100)	sec-Butylbenzene	21.943	134	13027	0.44	ppb(v	96
101)	p-Isopropyltoluene	22.121	134	13629	0.42	ppb(v	97
102)	1,2-Dichlorobenzene	22.873	146	27384	0.43	ppb(v	98
103)	n-Butylbenzene	22.659	134	10353	0.39	ppb(v	78
104)	Hexachloroethane	22.867	201	20039	0.45	ppb(v	92
105)	1,2,4-Trichlorobenzene	24.672	180	7035	0.19	ppb(v	99
106)	Naphthalene	25.094	128	19674	0.24	ppb(v	99
107)	Hexachlorobutadiene	24.623	225	16514	0.33	ppb(v	96
109)	TVHC as equiv Pentane	6.355	TIC	111982	0.48	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47592.D
Acq On : 26 Jan 2022 2:24 pm
Operator : danat
Sample : ic1966-0.5
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 26 15:03:36 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

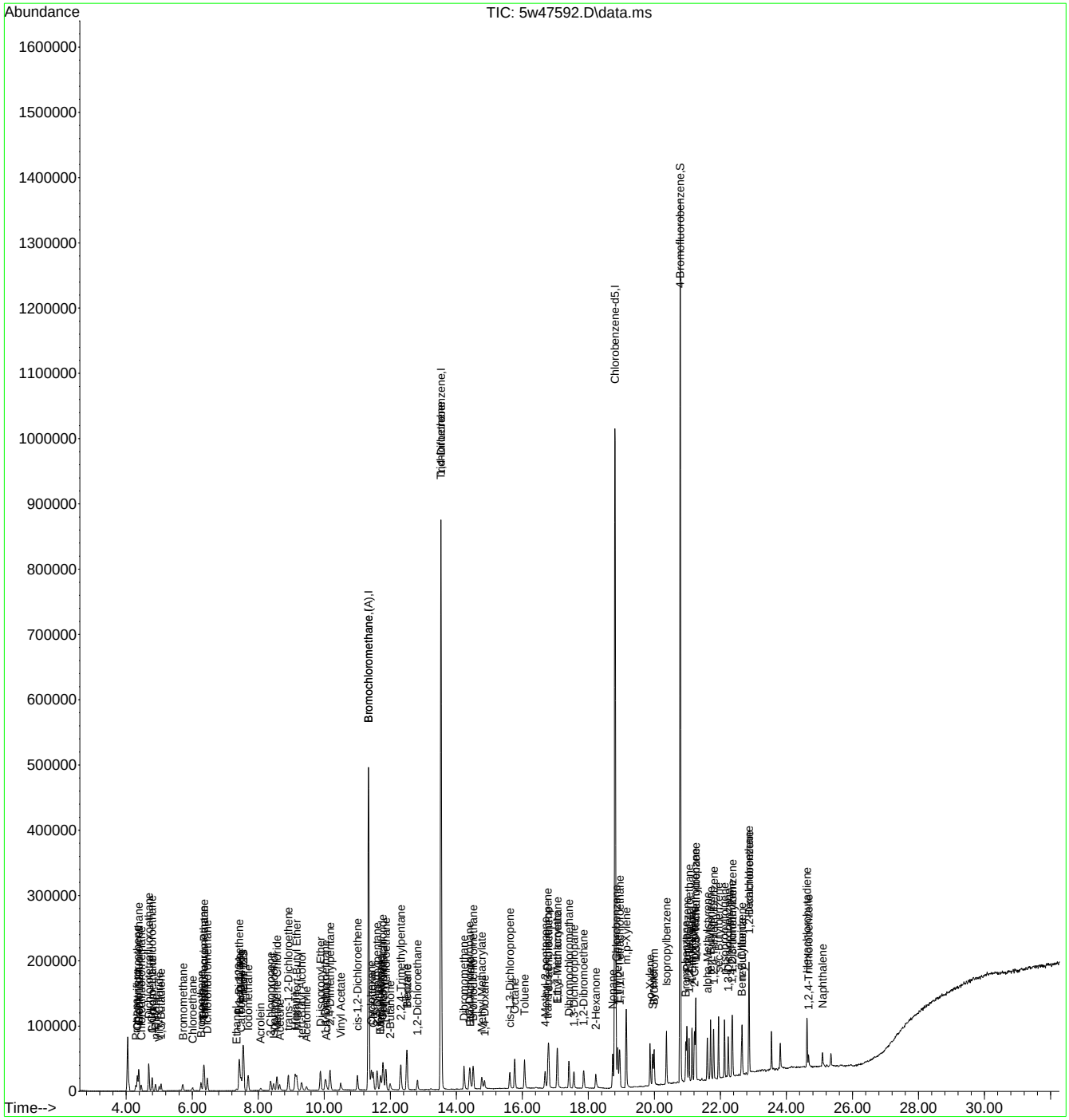
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47592.D
Acq On : 26 Jan 2022 2:24 pm
Operator : danat
Sample : ic1966-0.5
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 26 15:03:36 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Dana Tryon
01/28/22 10:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47593.D
Acq On : 26 Jan 2022 3:12 pm
Operator : danat
Sample : ic1966-0.2
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 27 08:03:25 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	241630	10.00	ppb(v	-0.01
53) 1,4-Difluorobenzene	13.537	114	941746	10.00	ppb(v	-0.01
76) Chlorobenzene-d5	18.805	82	421780	10.00	ppb(v	-0.01
108) Bromochloromethane (A)	11.341	130	241630	10.00	ppb(v	-0.01
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	508384	9.48	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 94.80%			
Target Compounds						Qvalue
2) Freon 152A	4.391	65	2235	0.15	ppb(v	98
3) Chlorodifluoromethane	4.465	67	904	0.12	ppb(v	92
4) Propene	4.300	41	2380	0.15	ppb(v#	93
5) Chlorotrifluoroethene	4.343	116	5842	0.14	ppb(v	99
6) Dichlorodifluoromethane	4.385	85	12478	0.14	ppb(v	98
7) 1-Chloro-1,1-difluoroe...	4.801	65	7437	0.14	ppb(v#	87
8) Chloromethane	4.795	50	3085	0.14	ppb(v	95
9) Dichlorotetrafluoroethane	4.691	85	11179	0.14	ppb(v	99
10) Vinyl Chloride	5.009	62	4125	0.17	ppb(v#	94
11) 1,3-Butadiene	5.071	54	2693	0.17	ppb(v	89
12) n-Butane	4.899	58	524	0.15	ppb(v#	83
13) Bromomethane	5.713	94	3642	0.16	ppb(v	97
14) Chloroethane	6.013	64	2255	0.23	ppb(v#	96
15) Dichlorofluoromethane	6.459	67	11339	0.20	ppb(v	97
16) Acetonitrile	9.463	41	3700	0.24	ppb(v#	78
17) Freon 123	7.560	83	12227	0.21	ppb(v	89
18) Freon 123A	7.432	117	6240	0.19	ppb(v	94
19) Bromoethene	6.276	106	4990	0.19	ppb(v	96
20) Acrolein	8.087	56	1921	0.21	ppb(v#	93
21) Trichlorofluoromethane	6.355	101	13162	0.19	ppb(v	96
22) Acetone	8.649	58	2229	0.23	ppb(v	73
23) Pentane	6.368	57	1277	0.21	ppb(v	70
24) Iodomethane	7.695	142	15264	0.19	ppb(v	93
25) Isopropyl Alcohol	8.472	43	1525	0.22	ppb(v	71
26) 1,1-Dichloroethene	7.438	61	8145	0.21	ppb(v	97
27) Freon 113	7.548	101	12146	0.21	ppb(v	93
28) Methylene Chloride	8.576	84	6737	0.28	ppb(v	95
29) Carbon Disulfide	7.487	76	15872	0.21	ppb(v	98
30) Ethanol	7.352	45	1750	0.23	ppb(v#	93
31) Acrylonitrile	10.075	53	3444	0.23	ppb(v	95
32) 3-Chloropropene	8.374	76	2179	0.20	ppb(v	95
33) trans-1,2-Dichloroethene	8.912	61	7628	0.22	ppb(v	96
34) tert-Butyl Alcohol	9.335	59	9581	0.21	ppb(v	99
35) Methyl tert-Butyl Ether	9.176	73	15246	0.23	ppb(v#	69
36) Vinyl Acetate	10.503	43	11260	0.22	ppb(v	97
37) 1,1-Dichloroethane	10.038	63	9218	0.22	ppb(v#	94
38) 2-Butanone	12.008	72	2108	0.20	ppb(v	98
39) Hexane	9.120	56	4306	0.23	ppb(v	86
40) cis-1,2-Dichloroethene	11.005	61	7047	0.21	ppb(v	100
41) Di-isopropyl Ether	9.891	87	4012	0.20	ppb(v	84
42) Ethyl Acetate	11.714	61	1497	0.22	ppb(v#	51
43) Methyl Acrylate	11.727	55	7657	0.23	ppb(v	90
44) Chloroform	11.482	83	12212	0.19	ppb(v	95
45) 2,4-Dimethylpentane	10.179	57	8807	0.21	ppb(v	98
46) Tetrahydrofuran	11.806	72	2210	0.20	ppb(v	79
47) 1,1,1-Trichloroethane	11.873	97	11601	0.19	ppb(v	98
48) 1,2-Dichloroethane	12.834	62	6476	0.19	ppb(v	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47593.D
Acq On : 26 Jan 2022 3:12 pm
Operator : danat
Sample : ic1966-0.2
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 27 08:03:25 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	Benzene	12.510	78	18124	0.23	ppb(v	95
50)	Carbon Tetrachloride	11.769	117	11642	0.18	ppb(v	97
51)	Cyclohexane	11.433	56	7458	0.20	ppb(v	96
52)	2,3-Dimethylpentane	11.604	71	3268	0.21	ppb(v	92
54)	2,2,4-Trimethylpentane	12.320	57	24024	0.21	ppb(v	97
55)	Heptane	12.504	71	4860	0.20	ppb(v	89
56)	Trichloroethene	13.531	97	5260	0.19	ppb(v#	1
57)	1,2-Dichloropropane	14.400	63	6225	0.21	ppb(v	91
58)	Dibromomethane	14.241	174	7787	0.17	ppb(v	86
59)	Ethyl Acrylate	14.449	55	9705	0.18	ppb(v#	65
60)	Methyl Methacrylate	14.785	69	4687	0.17	ppb(v	93
61)	1,4-Dioxane	14.859	88	4554	0.22	ppb(v	98
62)	Bromodichloromethane	14.510	83	12175	0.18	ppb(v	93
63)	cis-1,3-Dichloropropene	15.624	75	10268	0.19	ppb(v	95
64)	4-Methyl-2-pentanone	16.700	58	4360	0.20	ppb(v	92
65)	trans-1,3-Dichloropropene	16.774	75	9312	0.20	ppb(v	96
66)	Toluene	16.070	91	19932	0.19	ppb(v	93
67)	1,1,2-Trichloroethane	17.067	97	7715	0.19	ppb(v	98
68)	1,3-Dichloropropane	17.563	76	8918	0.19	ppb(v#	87
69)	2-Hexanone	18.236	43	9467	0.20	ppb(v	96
70)	Ethyl Methacrylate	17.067	69	7999	0.17	ppb(v#	57
71)	Dibromochloromethane	17.416	129	12644	0.16	ppb(v#	94
72)	Tetrachloroethene	16.798	166	10683	0.17	ppb(v	94
73)	1,2-Dibromoethane	17.863	107	11536	0.19	ppb(v	96
74)	Octane	15.777	43	10656	0.21	ppb(v	95
75)	1,1,1,2-Tetrachloroethane	18.952	131	9224	0.18	ppb(v	93
77)	Chlorobenzene	18.842	112	15804	0.18	ppb(v	94
78)	Ethylbenzene	18.897	91	24867	0.19	ppb(v#	96
79)	m,p-Xylene	19.147	91	37602	0.39	ppb(v	99
80)	Styrene	19.955	104	11974	0.17	ppb(v#	91
81)	Nonane	18.738	43	10021	0.20	ppb(v	96
82)	o-Xylene	19.869	91	19065	0.19	ppb(v#	95
83)	Bromoform	19.992	173	12163	0.16	ppb(v	100
84)	1,1,2,2-Tetrachloroethane	21.050	83	15031	0.20	ppb(v	97
85)	1,2,3-Trichloropropane	21.252	75	11503	0.19	ppb(v	97
86)	Isopropylbenzene	20.371	105	25973	0.18	ppb(v#	96
87)	Bromobenzene	20.958	156	8399	0.17	ppb(v	87
88)	2-Chlorotoluene	21.215	126	6176	0.18	ppb(v	85
89)	n-Propylbenzene	20.989	120	5863	0.17	ppb(v	79
91)	4-Ethyltoluene	21.142	105	20682	0.16	ppb(v#	96
92)	1,3,5-Trimethylbenzene	21.258	105	18947	0.18	ppb(v	96
93)	alpha-Methylstyrene	21.607	118	7441	0.14	ppb(v	89
94)	tert-Butylbenzene	21.705	134	4286	0.18	ppb(v	93
95)	1,2,4-Trimethylbenzene	21.796	105	16231	0.16	ppb(v#	96
96)	1,3-Dichlorobenzene	22.243	146	10246	0.15	ppb(v	97
97)	1,2,3-trimethylbenzene	22.365	105	16112	0.16	ppb(v#	96
98)	Benzyl Chloride	22.647	126	2513	0.14	ppb(v#	64
99)	1,4-Dichlorobenzene	22.353	146	9252	0.14	ppb(v	94
100)	sec-Butylbenzene	21.949	134	4864	0.16	ppb(v	96
101)	p-Isopropyltoluene	22.127	134	5032	0.16	ppb(v	90
102)	1,2-Dichlorobenzene	22.873	146	9759	0.16	ppb(v	96
103)	n-Butylbenzene	22.659	134	3611	0.14	ppb(v#	51
104)	Hexachloroethane	22.867	201	7972	0.18	ppb(v	98
105)	1,2,4-Trichlorobenzene	24.672	180	2874	0.08	ppb(v	97
106)	Naphthalene	25.100	128	8681	0.11	ppb(v	99
107)	Hexachlorobutadiene	24.629	225	6708	0.14	ppb(v#	87
109)	TVHC as equiv Pentane	6.355	TIC	47993m	0.21	ppb(v	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47593.D
Acq On : 26 Jan 2022 3:12 pm
Operator : danat
Sample : ic1966-0.2
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 27 08:03:25 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

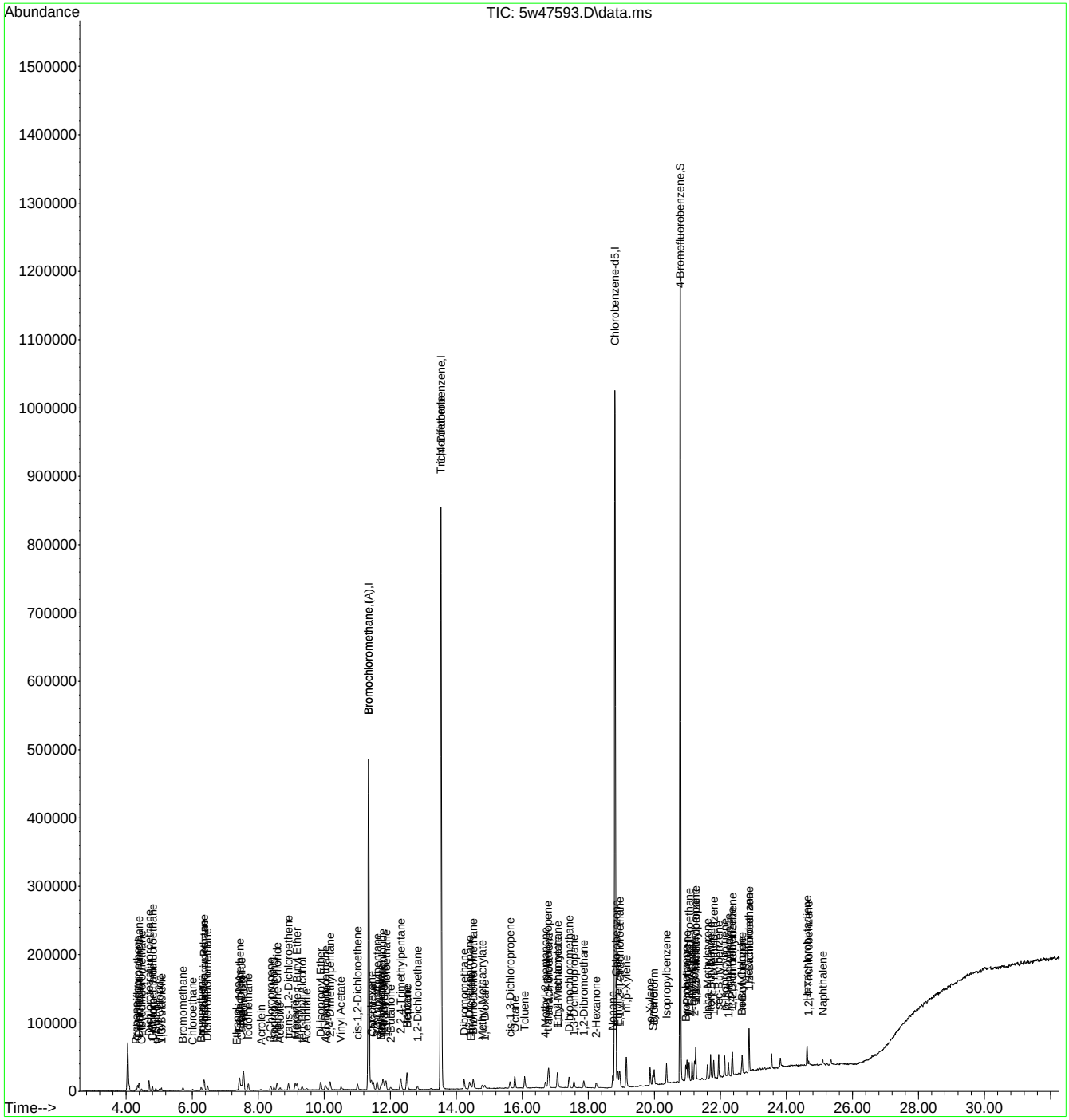
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47593.D
Acq On : 26 Jan 2022 3:12 pm
Operator : danat
Sample : ic1966-0.2
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 27 08:03:25 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5W1966-IC1966
Lab FileID: 5W47593.D
Injection Time: 01/26/22 15:12

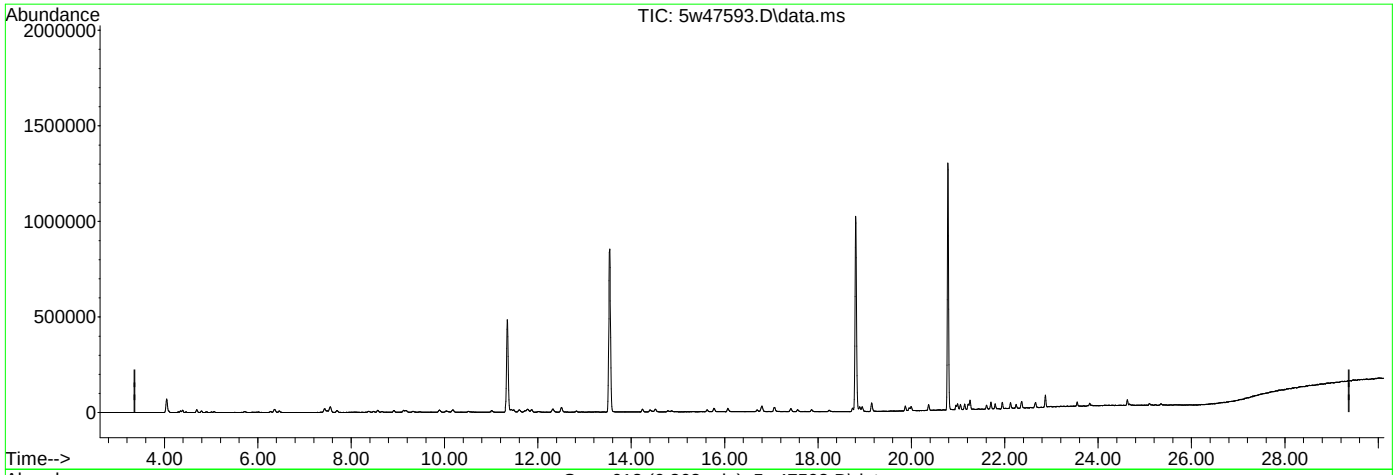
Method: TO-15
Analyst approved: 01/27/22 08:46 Thomas Hilbig
Supervisor approved: 01/28/22 10:18 Dana Tryon

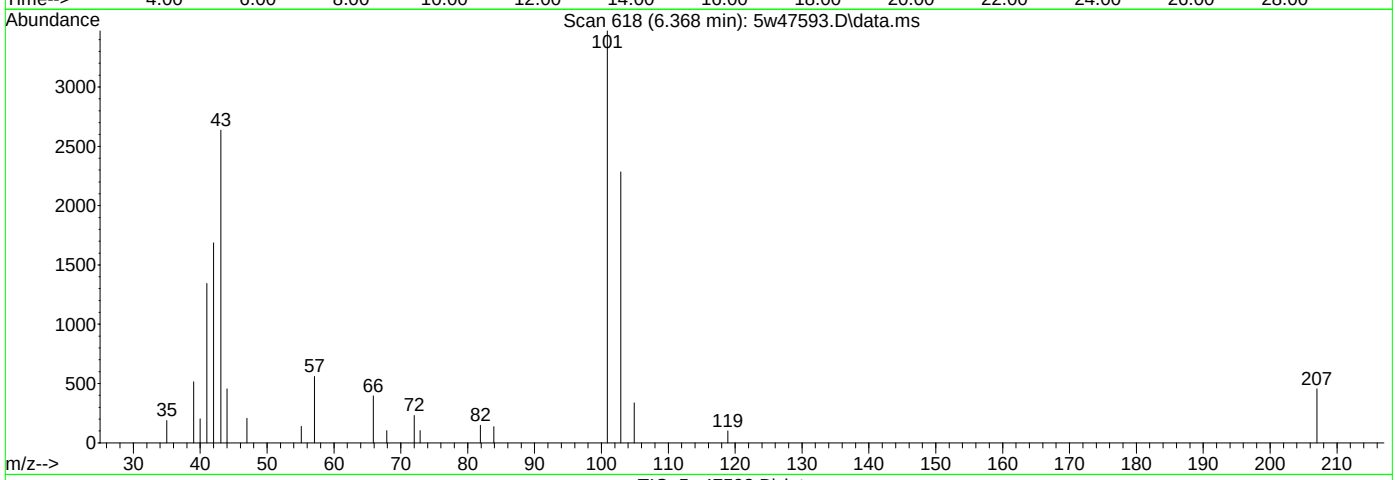
Parameter	CAS	Sig#	R.T. (min.)	Reason
TVHC As Equiv Pentane			6.36	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w47593.D
Acq On : 26 Jan 2022 3:12 pm
Operator : danat
Sample : ic1966-0.2
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 26 15:45:02 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration





TIC: 5w47593.D\data.ms

(109) TVHC as equiv Pentane

6.368min (-6.368) 0.00ppb(v)

response 0

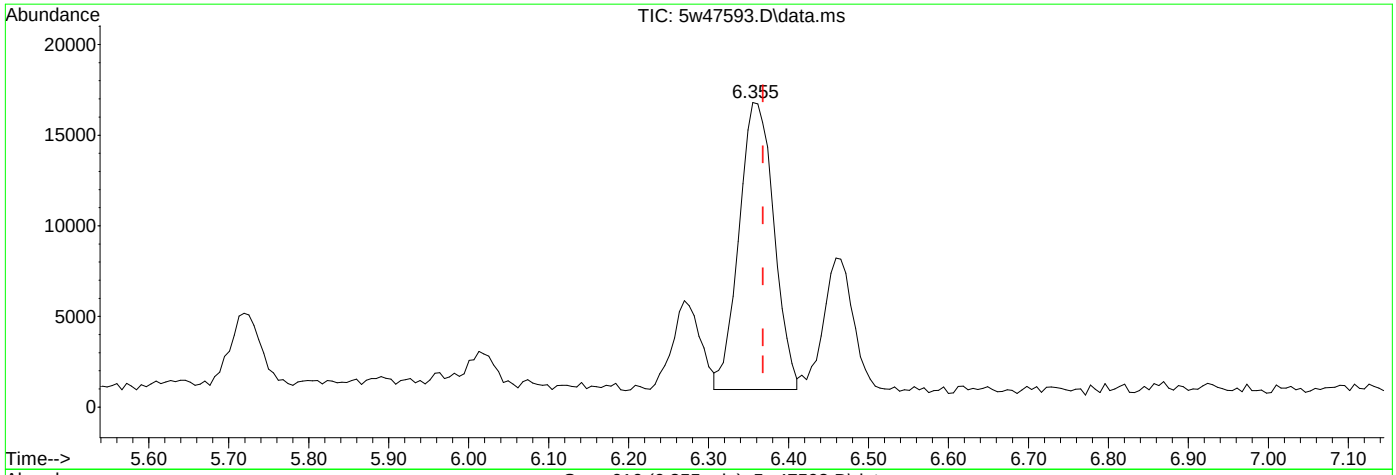
Signal	Exp%	Act%
TIC	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

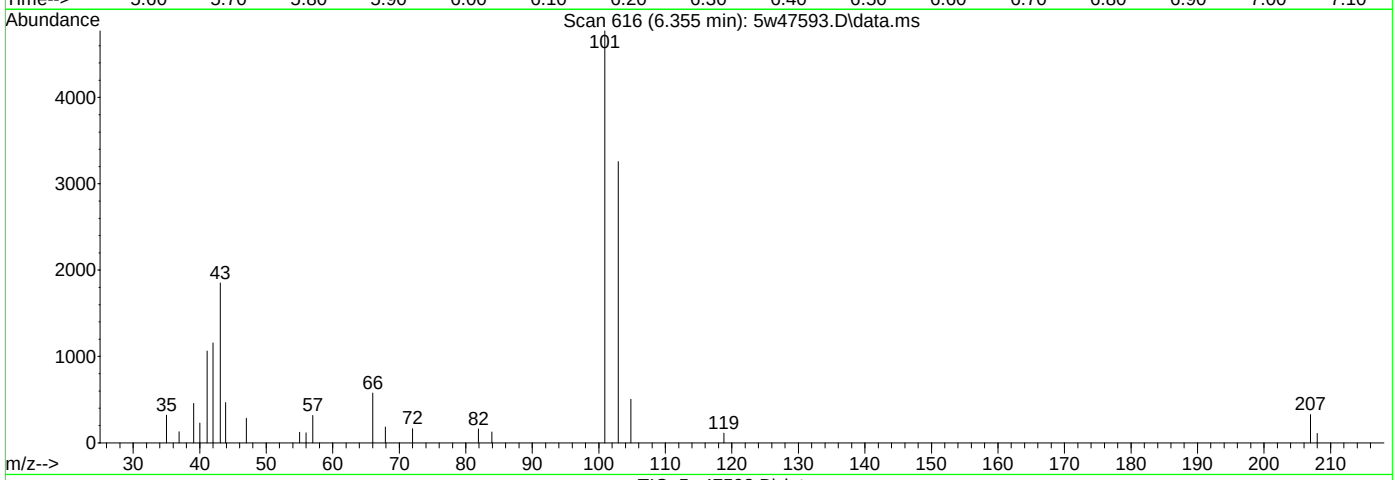
5W47593.D edits: TVHC as equiv Pentane

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w47593.D
Acq On : 26 Jan 2022 3:12 pm
Operator : danat
Sample : ic1966-0.2
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 26 15:45:02 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration





TIC: 5w47593.D\data.ms

(109) TVHC as equiv Pentane

6.355min (-0.012) 0.21ppb(v) m

response 47993

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Dana Tryon
01/28/22 10:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47594.D
Acq On : 26 Jan 2022 3:59 pm
Operator : danat
Sample : ic1966-0.1
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 27 08:06:22 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	244849	10.00	ppb(v	-0.01
53) 1,4-Difluorobenzene	13.531	114	960425	10.00	ppb(v	-0.02
76) Chlorobenzene-d5	18.805	82	433185	10.00	ppb(v	-0.01
108) Bromochloromethane (A)	11.341	130	244849	10.00	ppb(v	-0.01
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	503280	9.14	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 91.40%			
Target Compounds						Qvalue
2) Freon 152A	4.385	65	1326	0.09	ppb(v	96
3) Chlorodifluoromethane	4.447	67	558	0.07	ppb(v#	41
4) Propene	4.287	41	1541	0.10	ppb(v#	93
5) Chlorotrifluoroethene	4.336	116	3397	0.08	ppb(v	99
6) Dichlorodifluoromethane	4.379	85	7190	0.08	ppb(v	99
7) 1-Chloro-1,1-difluoroe...	4.783	65	4221	0.08	ppb(v#	55
8) Chloromethane	4.789	50	1994	0.09	ppb(v	93
9) Dichlorotetrafluoroethane	4.679	85	6766	0.08	ppb(v	93
10) Vinyl Chloride	5.003	62	2248	0.09	ppb(v#	91
11) 1,3-Butadiene	5.064	54	1433	0.09	ppb(v	93
12) n-Butane	4.893	58	260	0.07	ppb(v#	36
13) Bromomethane	5.713	94	2102	0.09	ppb(v	98
14) Chloroethane	6.013	64	1181	0.12	ppb(v#	87
15) Dichlorofluoromethane	6.453	67	6032	0.10	ppb(v	98
16) Acetonitrile	9.463	41	2079	0.13	ppb(v#	72
17) Freon 123	7.542	83	6357	0.11	ppb(v	98
18) Freon 123A	7.426	117	3149	0.10	ppb(v	87
19) Bromoethene	6.264	106	2557	0.10	ppb(v	95
20) Acrolein	8.080	56	1015	0.11	ppb(v#	82
21) Trichlorofluoromethane	6.343	101	6671	0.10	ppb(v	97
22) Acetone	8.662	58	1068	0.11	ppb(v	84
23) Pentane	6.361	57	616	0.10	ppb(v	92
24) Iodomethane	7.689	142	7673	0.09	ppb(v	92
25) Isopropyl Alcohol	8.490	43	863	0.12	ppb(v#	51
26) 1,1-Dichloroethene	7.426	61	4077	0.10	ppb(v	97
27) Freon 113	7.536	101	6400	0.11	ppb(v	91
29) Carbon Disulfide	7.481	76	8321	0.11	ppb(v	96
30) Ethanol	7.346	45	925	0.12	ppb(v#	87
31) Acrylonitrile	10.075	53	1737	0.11	ppb(v	89
32) 3-Chloropropene	8.368	76	1073	0.10	ppb(v	87
33) trans-1,2-Dichloroethene	8.906	61	3958	0.11	ppb(v	95
34) tert-Butyl Alcohol	9.329	59	5410	0.11	ppb(v#	94
35) Methyl tert-Butyl Ether	9.176	73	8916	0.13	ppb(v#	72
36) Vinyl Acetate	10.515	43	5759	0.11	ppb(v	99
37) 1,1-Dichloroethane	10.038	63	4798	0.11	ppb(v#	91
38) 2-Butanone	12.020	72	846	0.08	ppb(v#	88
39) Hexane	9.114	56	2195	0.12	ppb(v	71
40) cis-1,2-Dichloroethene	11.005	61	3589	0.10	ppb(v	94
41) Di-isopropyl Ether	9.904	87	1988	0.10	ppb(v	91
42) Ethyl Acetate	11.721	61	509	0.07	ppb(v#	77
43) Methyl Acrylate	11.739	55	3778	0.11	ppb(v	95
44) Chloroform	11.476	83	6506	0.10	ppb(v	99
45) 2,4-Dimethylpentane	10.167	57	4660	0.11	ppb(v	93
46) Tetrahydrofuran	11.812	72	1210	0.11	ppb(v	86
47) 1,1,1-Trichloroethane	11.867	97	5993	0.10	ppb(v	95
48) 1,2-Dichloroethane	12.822	62	3307	0.10	ppb(v#	94
49) Benzene	12.510	78	9332	0.12	ppb(v	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47594.D
Acq On : 26 Jan 2022 3:59 pm
Operator : danat
Sample : ic1966-0.1
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 27 08:06:22 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

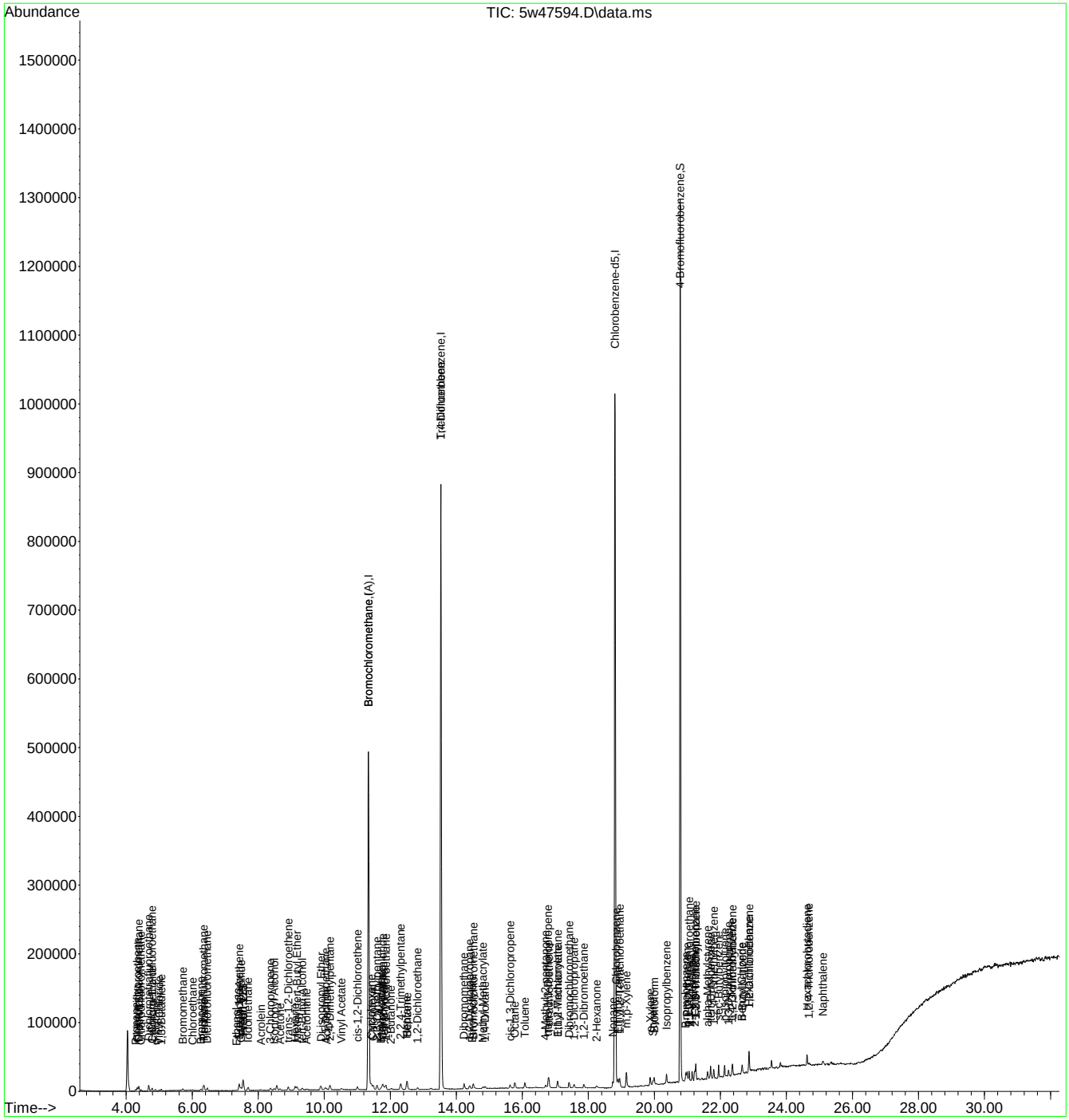
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	Carbon Tetrachloride	11.769	117	5840	0.09	ppb(v	96
51)	Cyclohexane	11.427	56	3921	0.11	ppb(v	93
52)	2,3-Dimethylpentane	11.598	71	1650	0.10	ppb(v#	82
54)	2,2,4-Trimethylpentane	12.314	57	12726	0.11	ppb(v	97
55)	Heptane	12.491	71	2448	0.10	ppb(v	86
56)	Trichloroethene	13.531	97	2584	0.09	ppb(v#	1
57)	1,2-Dichloropropane	14.400	63	3095	0.10	ppb(v#	93
58)	Dibromomethane	14.235	174	4144	0.09	ppb(v	78
59)	Ethyl Acrylate	14.480	55	4833	0.09	ppb(v#	16
60)	Methyl Methacrylate	14.798	69	2333	0.08	ppb(v	97
61)	1,4-Dioxane	14.871	88	2283	0.11	ppb(v#	94
62)	Bromodichloromethane	14.516	83	6376	0.09	ppb(v	96
63)	cis-1,3-Dichloropropene	15.636	75	5538	0.10	ppb(v#	89
64)	4-Methyl-2-pentanone	16.700	58	1976	0.09	ppb(v	95
65)	trans-1,3-Dichloropropene	16.780	75	5124	0.11	ppb(v#	88
66)	Toluene	16.076	91	10352	0.10	ppb(v	97
67)	1,1,2-Trichloroethane	17.067	97	3817	0.09	ppb(v	96
68)	1,3-Dichloropropane	17.563	76	4872	0.10	ppb(v	94
69)	2-Hexanone	18.248	43	4387	0.09	ppb(v#	92
70)	Ethyl Methacrylate	17.073	69	3549	0.07	ppb(v#	43
71)	Dibromochloromethane	17.416	129	6470	0.08	ppb(v#	96
72)	Tetrachloroethene	16.804	166	5567	0.09	ppb(v	95
73)	1,2-Dibromoethane	17.863	107	5844	0.09	ppb(v	94
74)	Octane	15.770	43	5361	0.10	ppb(v	96
75)	1,1,1,2-Tetrachloroethane	18.946	131	4771	0.09	ppb(v	90
77)	Chlorobenzene	18.842	112	8164	0.09	ppb(v	87
78)	Ethylbenzene	18.897	91	12784	0.09	ppb(v#	94
79)	m,p-Xylene	19.147	91	19238	0.19	ppb(v	97
80)	Styrene	19.955	104	5681	0.08	ppb(v#	81
81)	Nonane	18.744	43	5208	0.10	ppb(v#	90
82)	o-Xylene	19.875	91	9332	0.09	ppb(v#	95
83)	Bromoform	19.998	173	5943	0.08	ppb(v	99
84)	1,1,2,2-Tetrachloroethane	21.050	83	7731	0.10	ppb(v	97
85)	1,2,3-Trichloropropane	21.252	75	5915	0.10	ppb(v	94
86)	Isopropylbenzene	20.371	105	12921	0.09	ppb(v#	92
87)	Bromobenzene	20.952	156	4419	0.09	ppb(v#	76
88)	2-Chlorotoluene	21.221	126	3178	0.09	ppb(v	97
89)	n-Propylbenzene	20.989	120	2859	0.08	ppb(v	91
91)	4-Ethyltoluene	21.142	105	10224	0.08	ppb(v#	92
92)	1,3,5-Trimethylbenzene	21.258	105	9289	0.09	ppb(v#	88
93)	alpha-Methylstyrene	21.607	118	4030	0.07	ppb(v	89
94)	tert-Butylbenzene	21.705	134	2147	0.09	ppb(v	94
95)	1,2,4-Trimethylbenzene	21.796	105	7980	0.08	ppb(v#	90
96)	1,3-Dichlorobenzene	22.243	146	4869	0.07	ppb(v	92
97)	1,2,3-trimethylbenzene	22.365	105	7904	0.08	ppb(v#	96
98)	Benzyl Chloride	22.653	126	1216	0.07	ppb(v#	1
99)	1,4-Dichlorobenzene	22.353	146	4523m	0.07	ppb(v	
100)	sec-Butylbenzene	21.943	134	2651	0.09	ppb(v	96
101)	p-Isopropyltoluene	22.127	134	2802	0.08	ppb(v	93
102)	1,2-Dichlorobenzene	22.873	146	4873	0.08	ppb(v#	95
103)	n-Butylbenzene	22.665	134	1918	0.07	ppb(v	69
104)	Hexachloroethane	22.867	201	3927	0.09	ppb(v	83
105)	1,2,4-Trichlorobenzene	24.678	180	1192	0.03	ppb(v#	93
106)	Naphthalene	25.100	128	4511	0.05	ppb(v#	90
107)	Hexachlorobutadiene	24.629	225	3511	0.07	ppb(v#	72

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47594.D
Acq On : 26 Jan 2022 3:59 pm
Operator : danat
Sample : ic1966-0.1
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 27 08:06:22 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration



Manual Integration Approval Summary

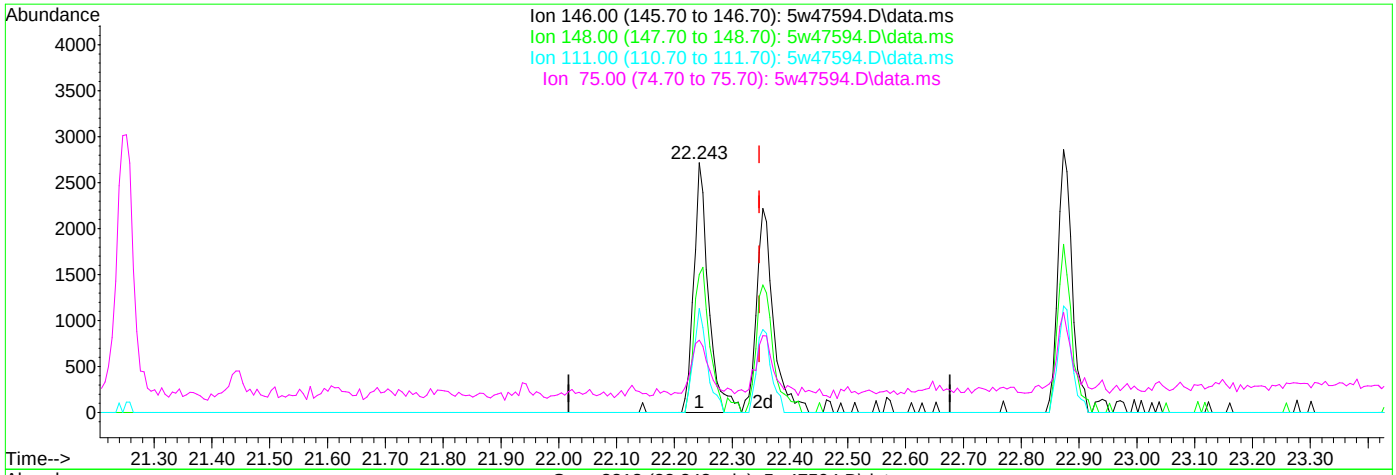
Sample Number: V5W1966-IC1966
Lab FileID: 5W47594.D
Injection Time: 01/26/22 15:59
Method: TO-15
Analyst approved: 01/27/22 08:46 Thomas Hilbig
Supervisor approved: 01/28/22 10:18 Dana Tryon

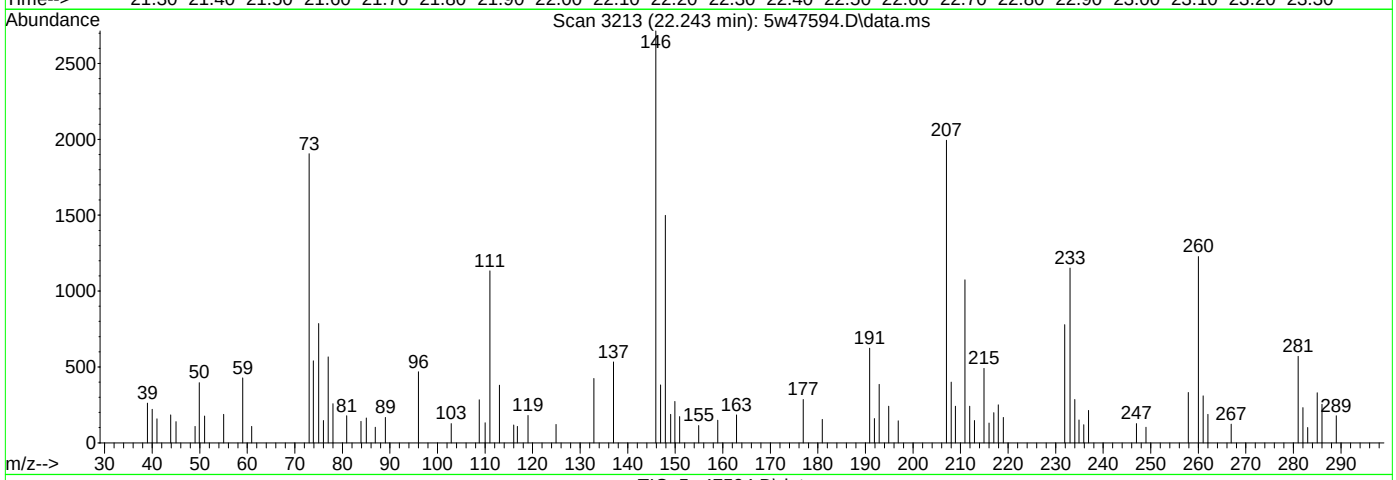
Parameter	CAS	Sig#	R.T. (min.)	Reason
p-Dichlorobenzene	106-46-7		22.35	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w47594.D
Acq On : 26 Jan 2022 3:59 pm
Operator : danat
Sample : ic1966-0.1
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 26 16:52:06 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration





TIC: 5w47594.D\data.ms

(99) 1,4-Dichlorobenzene

22.243min (-0.104) 0.07ppb(v)

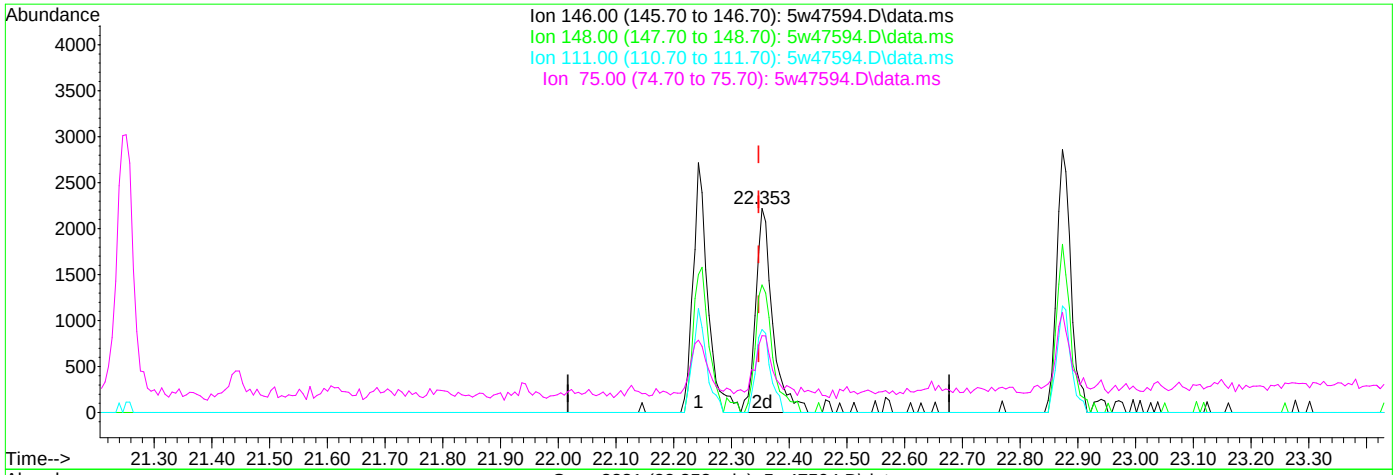
response 4869

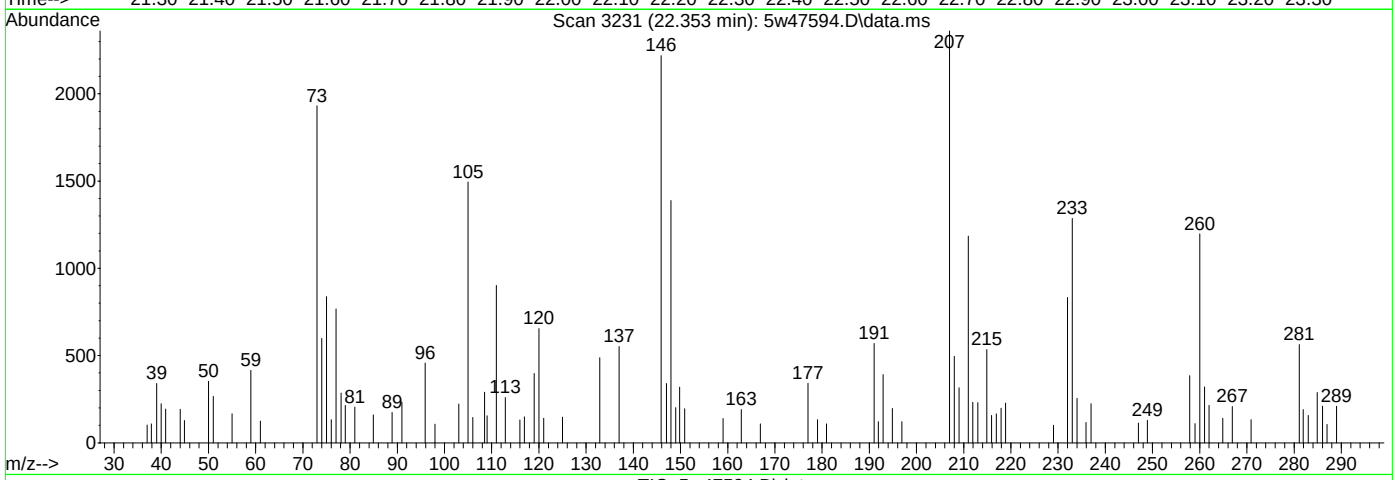
Ion	Exp%	Act%
146.00	100	100
148.00	63.10	55.21
111.00	37.40	41.73
75.00	26.70	28.95

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w47594.D
Acq On : 26 Jan 2022 3:59 pm
Operator : danat
Sample : ic1966-0.1
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 26 16:52:06 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration





TIC: 5w47594.D\data.ms

(99) 1,4-Dichlorobenzene

22.353min (+0.006) 0.07ppb(v) m

response 4523

Ion	Exp%	Act%
146.00	100	100
148.00	63.10	62.60
111.00	37.40	40.65
75.00	26.70	37.72#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47595.D
Acq On : 26 Jan 2022 4:47 pm
Operator : danat
Sample : ic1966-0.04
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 27 08:08:30 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.335	130	241213	10.00	ppb(v	#-0.02
53) 1,4-Difluorobenzene	13.531	114	946108	10.00	ppb(v	-0.02
76) Chlorobenzene-d5	18.805	82	430604	10.00	ppb(v	-0.01
108) Bromochloromethane (A)	11.335	130	241213	10.00	ppb(v	#-0.02
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	487829	8.91	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 89.10%			
Target Compounds						Qvalue
2) Freon 152A	4.392	65	561	0.04	ppb(v#	51
3) Chlorodifluoromethane	4.453	67	144	0.02	ppb(v#	41
4) Propene	4.288	41	844	0.05	ppb(v#	78
5) Chlorotrifluoroethene	4.330	116	1317	0.03	ppb(v	87
6) Dichlorodifluoromethane	4.373	85	3128	0.03	ppb(v#	90
7) 1-Chloro-1,1-difluoroe...	4.789	65	1700	0.03	ppb(v#	1
8) Chloromethane	4.789	50	933	0.04	ppb(v	99
9) Dichlorotetrafluoroethane	4.685	85	2840	0.04	ppb(v	94
10) Vinyl Chloride	4.997	62	873	0.04	ppb(v#	49
11) 1,3-Butadiene	5.058	54	599	0.04	ppb(v#	84
13) Bromomethane	5.713	94	901	0.04	ppb(v#	81
14) Chloroethane	6.007	64	396	0.04	ppb(v#	54
15) Dichlorofluoromethane	6.447	67	2660	0.05	ppb(v#	92
16) Acetonitrile	9.469	41	950	0.06	ppb(v#	32
17) Freon 123	7.548	83	2745	0.05	ppb(v	86
18) Freon 123A	7.414	117	1272	0.04	ppb(v	96
19) Bromoethene	6.257	106	1101	0.04	ppb(v#	78
20) Acrolein	8.081	56	366	0.04	ppb(v#	92
21) Trichlorofluoromethane	6.349	101	2930	0.04	ppb(v	86
22) Acetone	8.662	58	499	0.05	ppb(v	90
23) Pentane	6.355	57	238	0.04	ppb(v	58
24) Iodomethane	7.695	142	3175	0.04	ppb(v	98
25) Isopropyl Alcohol	8.484	43	449	0.06	ppb(v#	54
26) 1,1-Dichloroethene	7.420	61	1720	0.04	ppb(v#	88
27) Freon 113	7.536	101	2688	0.05	ppb(v	81
29) Carbon Disulfide	7.475	76	3560	0.05	ppb(v	94
30) Ethanol	7.359	45	390	0.05	ppb(v#	48
31) Acrylonitrile	10.075	53	585	0.04	ppb(v#	82
32) 3-Chloropropene	8.374	76	480	0.04	ppb(v#	79
33) trans-1,2-Dichloroethene	8.912	61	1650	0.05	ppb(v	93
34) tert-Butyl Alcohol	9.341	59	2284	0.05	ppb(v#	73
35) Methyl tert-Butyl Ether	9.188	73	3124	0.05	ppb(v#	66
36) Vinyl Acetate	10.521	43	2501	0.05	ppb(v#	73
37) 1,1-Dichloroethane	10.032	63	1991	0.05	ppb(v#	91
38) 2-Butanone	11.825	72	366	0.04	ppb(v#	1
39) Hexane	9.120	56	722	0.04	ppb(v#	89
40) cis-1,2-Dichloroethene	11.005	61	1468	0.04	ppb(v	88
41) Di-isopropyl Ether	9.910	87	749	0.04	ppb(v	69
43) Methyl Acrylate	11.769	55	1351	0.04	ppb(v#	61
44) Chloroform	11.482	83	2567	0.04	ppb(v	92
45) 2,4-Dimethylpentane	10.179	57	2035	0.05	ppb(v	92
46) Tetrahydrofuran	11.825	72	366	0.03	ppb(v	94
47) 1,1,1-Trichloroethane	11.867	97	2550	0.04	ppb(v#	87
48) 1,2-Dichloroethane	12.828	62	1394	0.04	ppb(v#	83
49) Benzene	12.510	78	4500	0.06	ppb(v#	90
50) Carbon Tetrachloride	11.776	117	2403	0.04	ppb(v#	90
51) Cyclohexane	11.427	56	1664	0.05	ppb(v	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47595.D
Acq On : 26 Jan 2022 4:47 pm
Operator : danat
Sample : ic1966-0.04
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 27 08:08:30 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

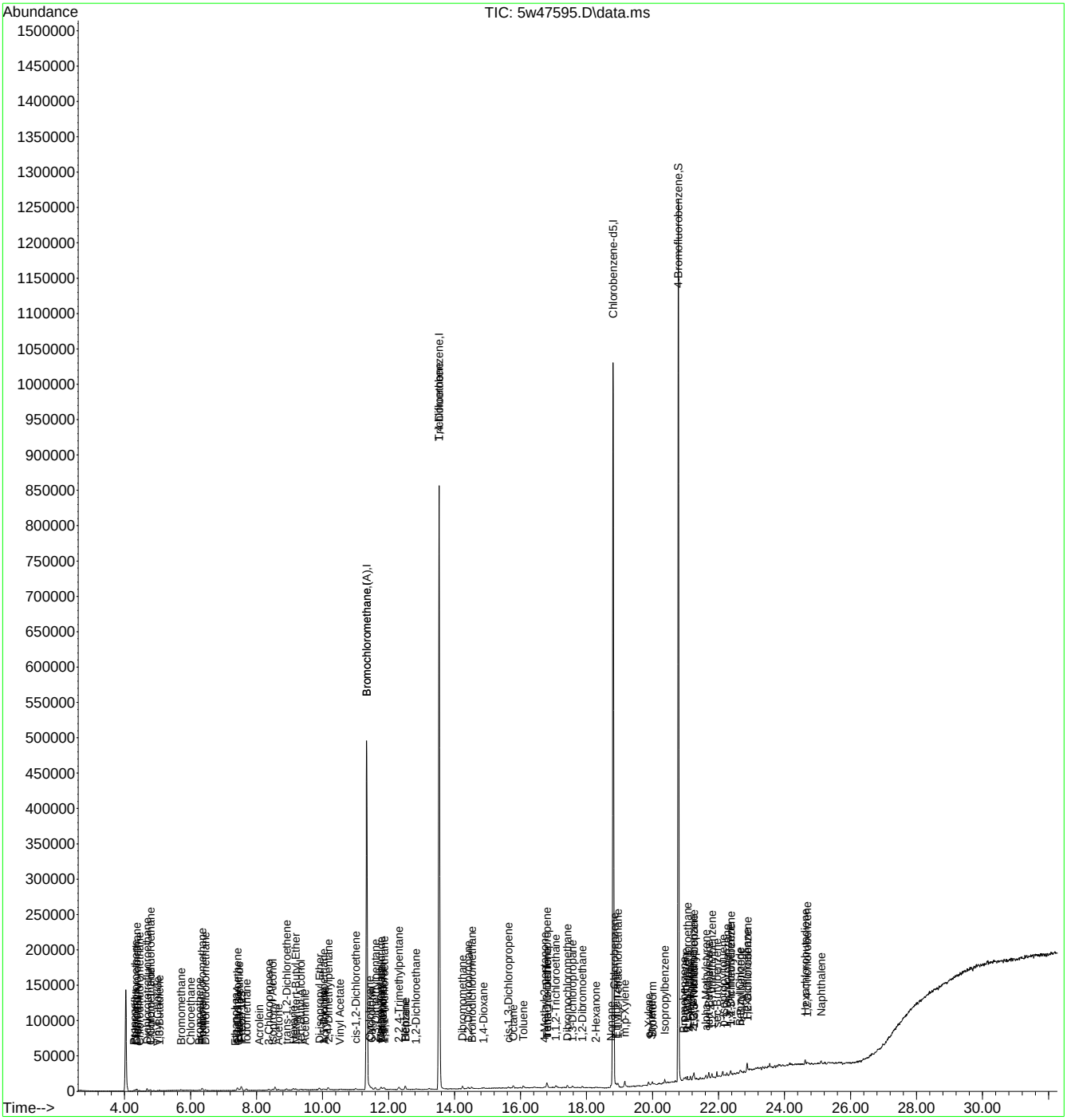
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52)	2,3-Dimethylpentane	11.604	71	638	0.04	ppb(v#	97
54)	2,2,4-Trimethylpentane	12.314	57	5229	0.05	ppb(v#	93
55)	Heptane	12.504	71	899	0.04	ppb(v	90
56)	Trichloroethene	13.531	97	1136	0.04	ppb(v#	1
57)	1,2-Dichloropropane	14.412	63	1361	0.05	ppb(v#	88
58)	Dibromomethane	14.241	174	1949	0.04	ppb(v	78
61)	1,4-Dioxane	14.877	88	806	0.04	ppb(v#	82
62)	Bromodichloromethane	14.522	83	2690	0.04	ppb(v#	88
63)	cis-1,3-Dichloropropene	15.630	75	2534	0.05	ppb(v#	68
64)	4-Methyl-2-pentanone	16.725	58	557	0.02	ppb(v#	69
65)	trans-1,3-Dichloropropene	16.798	75	2377	0.05	ppb(v#	77
66)	Toluene	16.082	91	4449	0.04	ppb(v	94
67)	1,1,2-Trichloroethane	17.061	97	1425	0.04	ppb(v	84
68)	1,3-Dichloropropane	17.569	76	1956	0.04	ppb(v#	74
69)	2-Hexanone	18.279	43	1557	0.03	ppb(v#	83
71)	Dibromochloromethane	17.422	129	2646	0.03	ppb(v#	94
72)	Tetrachloroethene	16.804	166	2268	0.04	ppb(v	94
73)	1,2-Dibromoethane	17.869	107	2351	0.04	ppb(v#	92
74)	Octane	15.777	43	2149	0.04	ppb(v	94
75)	1,1,1,2-Tetrachloroethane	18.952	131	1993	0.04	ppb(v	83
77)	Chlorobenzene	18.842	112	3405	0.04	ppb(v#	61
78)	Ethylbenzene	18.903	91	5320	0.04	ppb(v#	87
79)	m,p-Xylene	19.154	91	7975	0.08	ppb(v#	91
80)	Styrene	19.967	104	2231	0.03	ppb(v#	67
81)	Nonane	18.744	43	2442	0.05	ppb(v#	91
82)	o-Xylene	19.882	91	3811	0.04	ppb(v#	86
83)	Bromoform	19.998	173	2328	0.03	ppb(v	94
84)	1,1,2,2-Tetrachloroethane	21.056	83	3234	0.04	ppb(v#	99
85)	1,2,3-Trichloropropane	21.252	75	2915	0.05	ppb(v	96
86)	Isopropylbenzene	20.371	105	5400	0.04	ppb(v#	82
87)	Bromobenzene	20.952	156	1607	0.03	ppb(v#	38
88)	2-Chlorotoluene	21.221	126	1295	0.04	ppb(v	78
89)	n-Propylbenzene	20.995	120	1076	0.03	ppb(v	76
91)	4-Ethyltoluene	21.148	105	4312	0.03	ppb(v#	83
92)	1,3,5-Trimethylbenzene	21.258	105	4093	0.04	ppb(v#	83
93)	alpha-Methylstyrene	21.613	118	1495	0.03	ppb(v#	85
94)	tert-Butylbenzene	21.705	134	942	0.04	ppb(v	90
95)	1,2,4-Trimethylbenzene	21.802	105	3404	0.03	ppb(v#	75
96)	1,3-Dichlorobenzene	22.249	146	2033	0.03	ppb(v#	88
97)	1,2,3-trimethylbenzene	22.371	105	3283	0.03	ppb(v#	93
98)	Benzyl Chloride	22.653	126	464	0.03	ppb(v#	58
99)	1,4-Dichlorobenzene	22.365	146	2260	0.03	ppb(v#	83
100)	sec-Butylbenzene	21.955	134	1119	0.04	ppb(v	60
101)	p-Isopropyltoluene	22.133	134	1166	0.04	ppb(v	88
102)	1,2-Dichlorobenzene	22.879	146	2213	0.03	ppb(v#	87
103)	n-Butylbenzene	22.671	134	924	0.03	ppb(v	88
104)	Hexachloroethane	22.861	201	1683	0.04	ppb(v	83
105)	1,2,4-Trichlorobenzene	24.684	180	715	0.02	ppb(v#	60
106)	Naphthalene	25.106	128	2517	0.03	ppb(v#	91
107)	Hexachlorobutadiene	24.629	225	1715	0.03	ppb(v#	44

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47595.D
Acq On : 26 Jan 2022 4:47 pm
Operator : danat
Sample : ic1966-0.04
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 27 08:08:30 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47596.D
Acq On : 26 Jan 2022 5:35 pm
Operator : danat
Sample : ic1966-5
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:53:59 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	235763	10.00	ppb(v	#-0.01
53) 1,4-Difluorobenzene	13.538	114	917122	10.00	ppb(v	-0.01
76) Chlorobenzene-d5	18.805	82	426029	10.00	ppb(v	-0.01
108) Bromochloromethane (A)	11.341	130	235763	10.00	ppb(v	#-0.01
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	530290	9.79	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 97.90%			
Target Compounds						Qvalue
2) Freon 152A	4.373	65	74790	5.07	ppb(v	99
3) Chlorodifluoromethane	4.447	67	30701	4.26	ppb(v	99
4) Propene	4.281	41	75277	4.84	ppb(v	98
5) Chlorotrifluoroethene	4.330	116	182994	4.57	ppb(v	99
6) Dichlorodifluoromethane	4.373	85	382485	4.37	ppb(v	99
7) 1-Chloro-1,1-difluoroe...	4.777	65	229126	4.52	ppb(v	98
8) Chloromethane	4.777	50	102642	4.90	ppb(v	99
9) Dichlorotetrafluoroethane	4.679	85	358926	4.54	ppb(v	97
10) Vinyl Chloride	4.991	62	123147	5.14	ppb(v	100
11) 1,3-Butadiene	5.046	54	77816	5.09	ppb(v	97
12) n-Butane	4.887	58	18667	5.32	ppb(v	93
13) Bromomethane	5.707	94	88544	4.06	ppb(v	99
14) Chloroethane	6.001	64	58489	6.05	ppb(v	98
15) Dichlorofluoromethane	6.447	67	294396	5.30	ppb(v	100
16) Acetonitrile	9.439	41	91150	6.09	ppb(v	98
17) Freon 123	7.542	83	302803	5.33	ppb(v	98
18) Freon 123A	7.420	117	155933	4.95	ppb(v	83
19) Bromoethene	6.257	106	132376	5.11	ppb(v	99
20) Acrolein	8.050	56	52862	5.98	ppb(v	97
21) Trichlorofluoromethane	6.343	101	332527	4.96	ppb(v	100
22) Acetone	8.625	58	54255	5.81	ppb(v	95
23) Pentane	6.361	57	31676	5.44	ppb(v	96
24) Iodomethane	7.689	142	377553	4.82	ppb(v	99
25) Isopropyl Alcohol	8.435	43	37130	5.49	ppb(v	93
26) 1,1-Dichloroethene	7.426	61	214398	5.72	ppb(v	97
27) Freon 113	7.536	101	302774	5.24	ppb(v	94
28) Methylene Chloride	8.558	84	124205	5.30	ppb(v	92
29) Carbon Disulfide	7.475	76	418613	5.68	ppb(v	99
30) Ethanol	7.328	45	44308	5.95	ppb(v	99
31) Acrylonitrile	10.044	53	88403	6.04	ppb(v	99
32) 3-Chloropropene	8.368	76	62177	5.84	ppb(v	93
33) trans-1,2-Dichloroethene	8.906	61	203849	5.90	ppb(v	96
34) tert-Butyl Alcohol	9.286	59	257447	5.67	ppb(v	99
35) Methyl tert-Butyl Ether	9.139	73	362029	5.58	ppb(v	98
36) Vinyl Acetate	10.473	43	284151	5.58	ppb(v	97
37) 1,1-Dichloroethane	10.026	63	238058	5.69	ppb(v	99
38) 2-Butanone	11.965	72	59740	5.90	ppb(v	82
39) Hexane	9.114	56	110698	6.07	ppb(v	98
40) cis-1,2-Dichloroethene	10.999	61	188683	5.73	ppb(v	96
41) Di-isopropyl Ether	9.867	87	105545	5.49	ppb(v	76
42) Ethyl Acetate	11.672	61	43727	6.61	ppb(v	93
43) Methyl Acrylate	11.684	55	216335	6.69	ppb(v	97
44) Chloroform	11.482	83	314877	5.13	ppb(v	98
45) 2,4-Dimethylpentane	10.173	57	229439	5.53	ppb(v	98
46) Tetrahydrofuran	11.770	72	63204	5.94	ppb(v	94
47) 1,1,1-Trichloroethane	11.867	97	291223	4.89	ppb(v	98
48) 1,2-Dichloroethane	12.816	62	172892	5.31	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47596.D
Acq On : 26 Jan 2022 5:35 pm
Operator : danat
Sample : ic1966-5
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:53:59 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	Benzene	12.504	78	415858	5.41	ppb(v	99
50)	Carbon Tetrachloride	11.770	117	309269	4.87	ppb(v	99
51)	Cyclohexane	11.427	56	196549	5.48	ppb(v	94
52)	2,3-Dimethylpentane	11.598	71	89041	5.78	ppb(v	97
54)	2,2,4-Trimethylpentane	12.314	57	618440	5.49	ppb(v	98
55)	Heptane	12.491	71	129033	5.52	ppb(v	97
56)	Trichloroethene	13.525	97	128192	4.68	ppb(v	94
57)	1,2-Dichloropropane	14.394	63	158996	5.60	ppb(v	96
58)	Dibromomethane	14.229	174	183243	4.10	ppb(v	86
59)	Ethyl Acrylate	14.394	55	291924	5.51	ppb(v	98
60)	Methyl Methacrylate	14.755	69	146081	5.39	ppb(v	97
61)	1,4-Dioxane	14.834	88	94503	4.79	ppb(v	97
62)	Bromodichloromethane	14.510	83	324729	4.88	ppb(v	98
63)	cis-1,3-Dichloropropene	15.611	75	255249	4.93	ppb(v	98
64)	4-Methyl-2-pentanone	16.676	58	120631	5.58	ppb(v	97
65)	trans-1,3-Dichloropropene	16.762	75	228527	5.10	ppb(v	98
66)	Toluene	16.064	91	501320	4.85	ppb(v	99
67)	1,1,2-Trichloroethane	17.055	97	184968	4.73	ppb(v	96
68)	1,3-Dichloropropane	17.557	76	236450	5.08	ppb(v	98
69)	2-Hexanone	18.205	43	249907	5.46	ppb(v	98
70)	Ethyl Methacrylate	17.043	69	237082	5.03	ppb(v	96
71)	Dibromochloromethane	17.410	129	341835	4.51	ppb(v	98
72)	Tetrachloroethene	16.792	166	257000	4.13	ppb(v	96
73)	1,2-Dibromoethane	17.857	107	286111	4.76	ppb(v	100
74)	Octane	15.770	43	285421	5.66	ppb(v	95
75)	1,1,1,2-Tetrachloroethane	18.946	131	220757	4.47	ppb(v	98
77)	Chlorobenzene	18.842	112	393150	4.55	ppb(v	97
78)	Ethylbenzene	18.884	91	615278	4.64	ppb(v	97
79)	m,p-Xylene	19.141	91	918991	9.33	ppb(v	99
80)	Styrene	19.943	104	347998	4.81	ppb(v	99
81)	Nonane	18.738	43	276250	5.43	ppb(v	97
82)	o-Xylene	19.869	91	468589	4.53	ppb(v	99
83)	Bromoform	19.992	173	314964	4.22	ppb(v	99
84)	1,1,2,2-Tetrachloroethane	21.050	83	362881	4.72	ppb(v	99
85)	1,2,3-Trichloropropane	21.246	75	277624	4.58	ppb(v	97
86)	Isopropylbenzene	20.365	105	656359	4.54	ppb(v	99
87)	Bromobenzene	20.952	156	211049	4.15	ppb(v	90
88)	2-Chlorotoluene	21.209	126	157718	4.46	ppb(v	93
89)	n-Propylbenzene	20.983	120	166601	4.69	ppb(v	88
91)	4-Ethyltoluene	21.136	105	596058	4.68	ppb(v	98
92)	1,3,5-Trimethylbenzene	21.252	105	478631	4.53	ppb(v	99
93)	alpha-Methylstyrene	21.601	118	234710	4.42	ppb(v	99
94)	tert-Butylbenzene	21.705	134	99578	4.10	ppb(v	98
95)	1,2,4-Trimethylbenzene	21.790	105	453922	4.43	ppb(v	99
96)	1,3-Dichlorobenzene	22.231	146	290314	4.11	ppb(v	97
97)	1,2,3-trimethylbenzene	22.365	105	413532	4.17	ppb(v	99
98)	Benzyl Chloride	22.635	126	79444	4.46	ppb(v	98
99)	1,4-Dichlorobenzene	22.347	146	275324	4.15	ppb(v	99
100)	sec-Butylbenzene	21.943	134	121395	4.07	ppb(v	97
101)	p-Isopropyltoluene	22.121	134	129009	3.94	ppb(v	100
102)	1,2-Dichlorobenzene	22.867	146	258467	4.09	ppb(v	97
103)	n-Butylbenzene	22.659	134	102257	3.81	ppb(v	89
104)	Hexachloroethane	22.867	201	176940	3.96	ppb(v	90
105)	1,2,4-Trichlorobenzene	24.666	180	85271	2.26	ppb(v	99
106)	Naphthalene	25.088	128	187994	2.31	ppb(v	100
107)	Hexachlorobutadiene	24.629	225	133764	2.70	ppb(v	98
109)	TVHC as equiv Pentane	6.349	TIC	1278376	5.66	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47596.D
Acq On : 26 Jan 2022 5:35 pm
Operator : danat
Sample : ic1966-5
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:53:59 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

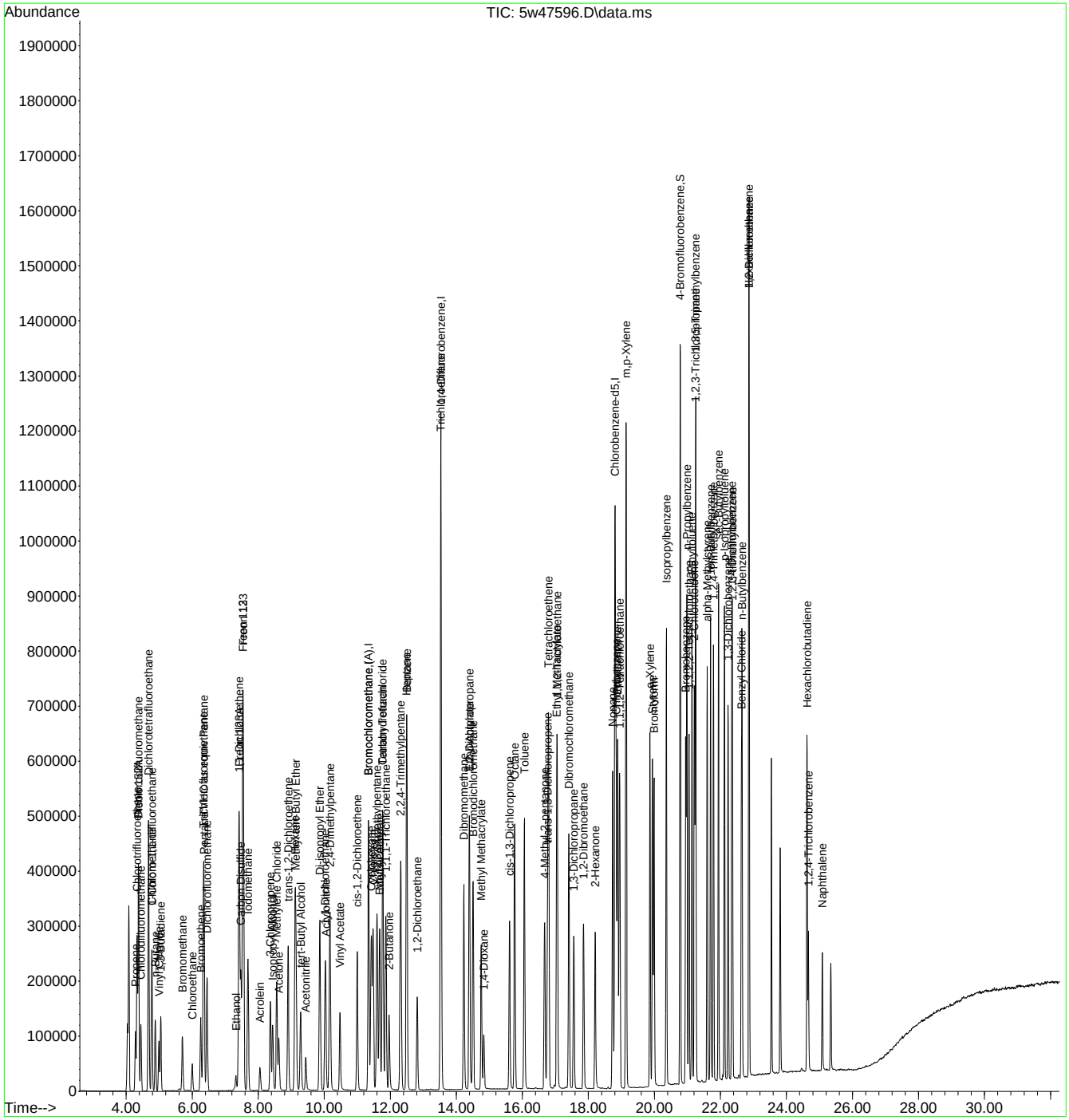
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47596.D
Acq On : 26 Jan 2022 5:35 pm
Operator : danat
Sample : ic1966-5
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:53:59 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47597.D
Acq On : 26 Jan 2022 6:24 pm
Operator : danat
Sample : icc1966-10
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:54:07 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.347	130	227088	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	13.538	114	859663	10.00	ppb(v	-0.01
76) Chlorobenzene-d5	18.811	82	390791	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.347	130	227088	10.00	ppb(v	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	513077	10.33	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 103.30%			
Target Compounds						Qvalue
2) Freon 152A	4.385	65	105819	7.44	ppb(v	98
3) Chlorodifluoromethane	4.459	67	46479	6.70	ppb(v	98
4) Propene	4.294	41	100959	6.74	ppb(v	100
5) Chlorotrifluoroethene	4.343	116	281361	7.30	ppb(v	99
6) Dichlorodifluoromethane	4.385	85	586100	6.95	ppb(v	99
7) 1-Chloro-1,1-difluoroe...	4.789	65	348372	7.14	ppb(v	99
8) Chloromethane	4.789	50	136553	6.77	ppb(v	99
9) Dichlorotetrafluoroethane	4.691	85	516164	6.78	ppb(v	99
10) Vinyl Chloride	5.003	62	188804	8.18	ppb(v	99
11) 1,3-Butadiene	5.058	54	123092	8.37	ppb(v	97
12) n-Butane	4.899	58	25700	7.60	ppb(v	95
13) Bromomethane	5.713	94	156018	7.42	ppb(v	99
14) Chloroethane	6.019	64	108307	11.64	ppb(v	98
15) Dichlorofluoromethane	6.459	67	525069	9.82	ppb(v	100
16) Acetonitrile	9.445	41	151411	10.50	ppb(v	99
17) Freon 123	7.554	83	546539	10.00	ppb(v	96
18) Freon 123A	7.426	117	285322	9.41	ppb(v	88
19) Bromoethene	6.270	106	248892	9.97	ppb(v	99
20) Acrolein	8.062	56	94131	11.06	ppb(v	96
21) Trichlorofluoromethane	6.355	101	607664	9.42	ppb(v	99
22) Acetone	8.625	58	96023	10.68	ppb(v	95
23) Pentane	6.374	57	55868	9.96	ppb(v	97
24) Iodomethane	7.701	142	704781	9.35	ppb(v	98
25) Isopropyl Alcohol	8.441	43	64395	9.88	ppb(v	94
26) 1,1-Dichloroethene	7.432	61	377578	10.46	ppb(v	97
27) Freon 113	7.548	101	549085	9.86	ppb(v	95
28) Methylene Chloride	8.570	84	225086	9.96	ppb(v	96
29) Carbon Disulfide	7.487	76	764903	10.77	ppb(v	99
30) Ethanol	7.328	45	79333	11.06	ppb(v	99
31) Acrylonitrile	10.050	53	157739	11.20	ppb(v	99
32) 3-Chloropropene	8.374	76	112795	11.00	ppb(v	95
33) trans-1,2-Dichloroethene	8.913	61	359946	10.81	ppb(v	97
34) tert-Butyl Alcohol	9.286	59	464254	10.61	ppb(v	99
35) Methyl tert-Butyl Ether	9.145	73	654601	10.47	ppb(v	99
36) Vinyl Acetate	10.479	43	513112	10.47	ppb(v	99
37) 1,1-Dichloroethane	10.032	63	422482	10.49	ppb(v	100
38) 2-Butanone	11.965	72	106527	10.91	ppb(v	93
39) Hexane	9.121	56	194920	11.09	ppb(v	97
40) cis-1,2-Dichloroethene	11.005	61	335025	10.55	ppb(v	98
41) Di-isopropyl Ether	9.867	87	193960	10.47	ppb(v	86
42) Ethyl Acetate	11.672	61	77908	12.22	ppb(v	91
43) Methyl Acrylate	11.684	55	384198	12.34	ppb(v	97
44) Chloroform	11.482	83	564079	9.55	ppb(v	99
45) 2,4-Dimethylpentane	10.179	57	403786	10.10	ppb(v	99
46) Tetrahydrofuran	11.770	72	110784	10.80	ppb(v	96
47) 1,1,1-Trichloroethane	11.867	97	521278	9.08	ppb(v	98
48) 1,2-Dichloroethane	12.816	62	308809	9.84	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47597.D
Acq On : 26 Jan 2022 6:24 pm
Operator : danat
Sample : icc1966-10
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:54:07 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	Benzene	12.504	78	735391	9.94	ppb(v	99
50)	Carbon Tetrachloride	11.776	117	557337	9.12	ppb(v	99
51)	Cyclohexane	11.433	56	346382	10.02	ppb(v	97
52)	2,3-Dimethylpentane	11.604	71	161250	10.87	ppb(v	97
54)	2,2,4-Trimethylpentane	12.320	57	1076188	10.20	ppb(v	98
55)	Heptane	12.498	71	229494	10.47	ppb(v	98
56)	Trichloroethene	13.525	97	230907	8.98	ppb(v	92
57)	1,2-Dichloropropane	14.394	63	279239	10.49	ppb(v	96
58)	Dibromomethane	14.229	174	342743	8.17	ppb(v	86
59)	Ethyl Acrylate	14.394	55	517646	10.42	ppb(v	98
60)	Methyl Methacrylate	14.755	69	259991	10.24	ppb(v	98
61)	1,4-Dioxane	14.828	88	173252	9.38	ppb(v	98
62)	Bromodichloromethane	14.510	83	582452	9.35	ppb(v	99
63)	cis-1,3-Dichloropropene	15.611	75	467413	9.62	ppb(v	99
64)	4-Methyl-2-pentanone	16.676	58	220062	10.86	ppb(v	98
65)	trans-1,3-Dichloropropene	16.762	75	411915	9.81	ppb(v	98
66)	Toluene	16.064	91	899914	9.28	ppb(v	100
67)	1,1,2-Trichloroethane	17.055	97	330926	9.03	ppb(v	96
68)	1,3-Dichloropropane	17.563	76	420951	9.65	ppb(v	99
69)	2-Hexanone	18.205	43	451224	10.52	ppb(v	99
70)	Ethyl Methacrylate	17.043	69	432814	9.80	ppb(v	97
71)	Dibromochloromethane	17.410	129	627979	8.83	ppb(v	99
72)	Tetrachloroethene	16.792	166	490813	8.42	ppb(v	97
73)	1,2-Dibromoethane	17.857	107	524330	9.31	ppb(v	100
74)	Octane	15.771	43	494931	10.47	ppb(v	97
75)	1,1,1,2-Tetrachloroethane	18.952	131	402334	8.70	ppb(v	99
77)	Chlorobenzene	18.842	112	702082	8.86	ppb(v	98
78)	Ethylbenzene	18.891	91	1110898	9.13	ppb(v	99
79)	m,p-Xylene	19.147	91	1639238	18.15	ppb(v	99
80)	Styrene	19.943	104	651431	9.82	ppb(v	99
81)	Nonane	18.738	43	492330	10.56	ppb(v	97
82)	o-Xylene	19.869	91	859488	9.06	ppb(v	99
83)	Bromoform	19.992	173	580789	8.48	ppb(v	99
84)	1,1,2,2-Tetrachloroethane	21.050	83	663390	9.42	ppb(v	99
85)	1,2,3-Trichloropropane	21.246	75	492646	8.86	ppb(v	97
86)	Isopropylbenzene	20.365	105	1189989	8.97	ppb(v	99
87)	Bromobenzene	20.946	156	394532	8.46	ppb(v	87
88)	2-Chlorotoluene	21.215	126	292881	9.03	ppb(v	99
89)	n-Propylbenzene	20.983	120	311944	9.56	ppb(v	95
91)	4-Ethyltoluene	21.136	105	1118877	9.58	ppb(v	98
92)	1,3,5-Trimethylbenzene	21.252	105	895132	9.24	ppb(v	99
93)	alpha-Methylstyrene	21.601	118	471628	9.68	ppb(v	99
94)	tert-Butylbenzene	21.705	134	191623	8.60	ppb(v	98
95)	1,2,4-Trimethylbenzene	21.790	105	878316	9.35	ppb(v	100
96)	1,3-Dichlorobenzene	22.231	146	581988	8.98	ppb(v	98
97)	1,2,3-trimethylbenzene	22.365	105	824130	9.05	ppb(v	100
98)	Benzyl Chloride	22.635	126	163462	10.00	ppb(v	97
99)	1,4-Dichlorobenzene	22.341	146	563726	9.27	ppb(v	98
100)	sec-Butylbenzene	21.943	134	238442	8.71	ppb(v	99
101)	p-Isopropyltoluene	22.121	134	263801	8.79	ppb(v	97
102)	1,2-Dichlorobenzene	22.867	146	512377	8.83	ppb(v	98
103)	n-Butylbenzene	22.659	134	217003	8.82	ppb(v	93
104)	Hexachloroethane	22.867	201	313847	7.66	ppb(v	91
105)	1,2,4-Trichlorobenzene	24.666	180	189601	5.49	ppb(v	99
106)	Naphthalene	25.088	128	419607	5.62	ppb(v	99
107)	Hexachlorobutadiene	24.623	225	256832	5.65	ppb(v	99
109)	TVHC as equiv Pentane	6.361	TIC	2301989	10.59	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47597.D
Acq On : 26 Jan 2022 6:24 pm
Operator : danat
Sample : icc1966-10
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:54:07 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

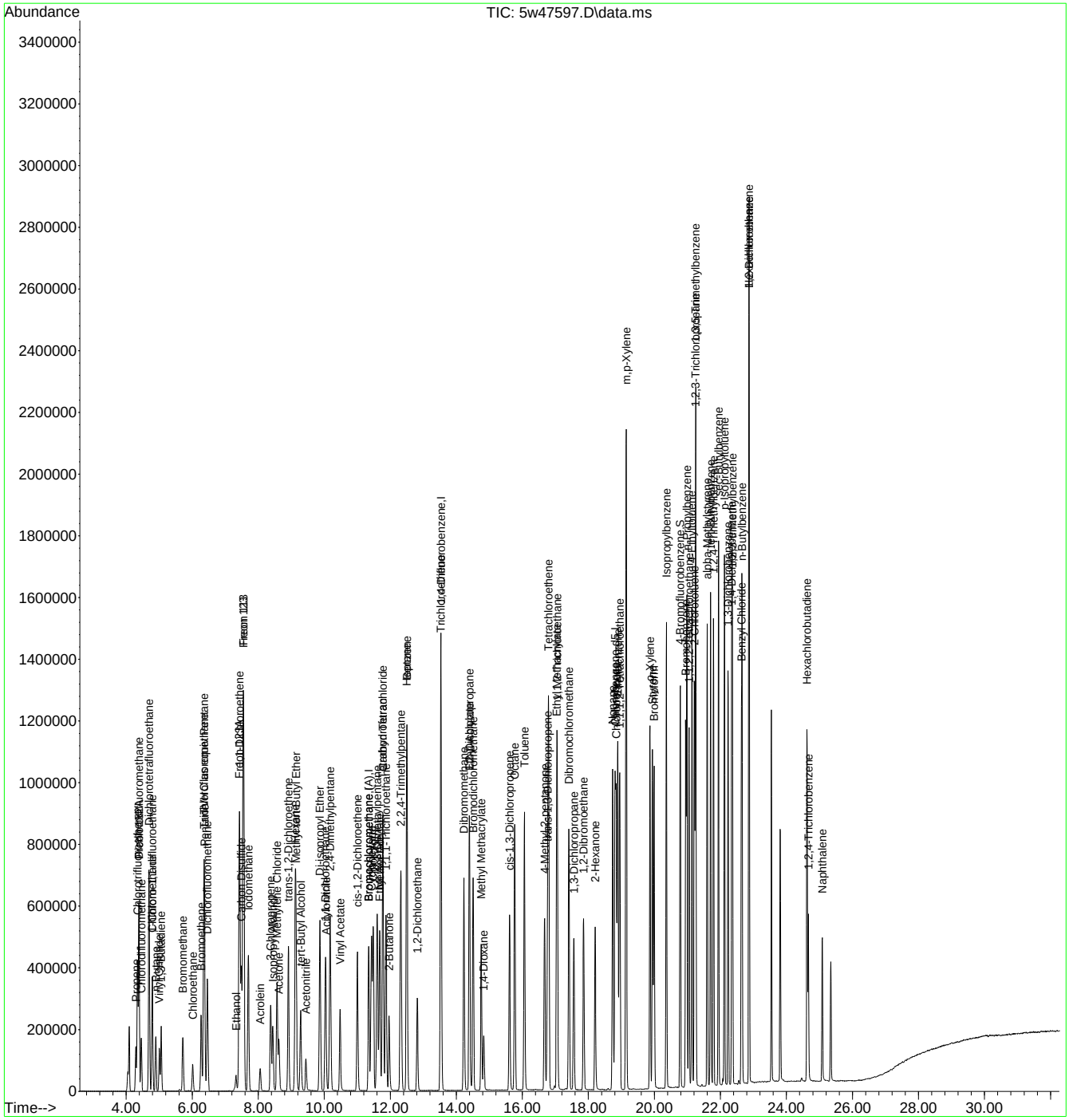
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47597.D
Acq On : 26 Jan 2022 6:24 pm
Operator : danat
Sample : icc1966-10
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:54:07 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47598.D
Acq On : 26 Jan 2022 7:14 pm
Operator : danat
Sample : ic1966-20
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:54:18 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.347	130	220817	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	13.537	114	810827	10.00	ppb(v	-0.01
76) Chlorobenzene-d5	18.811	82	385541	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.347	130	220817	10.00	ppb(v	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.787	95	507829	10.36	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 103.60%			
Target Compounds						Qvalue
2) Freon 152A	4.379	65	160963	11.64	ppb(v	97
3) Chlorodifluoromethane	4.447	67	80251	11.90	ppb(v	97
4) Propene	4.281	41	147909	10.15	ppb(v	99
5) Chlorotrifluoroethene	4.336	116	462192	12.33	ppb(v	99
6) Dichlorodifluoromethane	4.379	85	959200	11.70	ppb(v	99
7) 1-Chloro-1,1-difluoroe...	4.783	65	588011	12.39	ppb(v	99
8) Chloromethane	4.783	50	204439	10.43	ppb(v	100
9) Dichlorotetrafluoroethane	4.685	85	828320	11.18	ppb(v	97
10) Vinyl Chloride	4.997	62	282706	12.60	ppb(v	99
11) 1,3-Butadiene	5.052	54	189398	13.24	ppb(v	98
12) n-Butane	4.893	58	39082	11.89	ppb(v	92
13) Bromomethane	5.707	94	275762	13.49	ppb(v	98
14) Chloroethane	6.007	64	193492	21.38	ppb(v	99
15) Dichlorofluoromethane	6.453	67	914208	17.58	ppb(v	99
16) Acetonitrile	9.439	41	267333	19.06	ppb(v	98
17) Freon 123	7.548	83	933338	17.56	ppb(v	98
18) Freon 123A	7.426	117	519073	17.60	ppb(v	92
19) Bromoethene	6.263	106	450526	18.57	ppb(v	98
20) Acrolein	8.050	56	165692	20.01	ppb(v	97
21) Trichlorofluoromethane	6.349	101	1088759	17.35	ppb(v	100
22) Acetone	8.619	58	165333	18.91	ppb(v	95
23) Pentane	6.367	57	96402	17.67	ppb(v	98
24) Iodomethane	7.695	142	1273391	17.37	ppb(v	98
25) Isopropyl Alcohol	8.435	43	111712	17.63	ppb(v	89
26) 1,1-Dichloroethene	7.426	61	663108	18.88	ppb(v	99
27) Freon 113	7.542	101	955115	17.65	ppb(v	96
28) Methylene Chloride	8.564	84	397355	18.09	ppb(v	98
29) Carbon Disulfide	7.481	76	1356137	19.64	ppb(v	100
30) Ethanol	7.322	45	137287	19.67	ppb(v	99
31) Acrylonitrile	10.044	53	282539	20.62	ppb(v	98
32) 3-Chloropropene	8.374	76	202170	20.27	ppb(v	97
33) trans-1,2-Dichloroethene	8.906	61	636878	19.67	ppb(v	98
34) tert-Butyl Alcohol	9.280	59	828334	19.47	ppb(v	99
35) Methyl tert-Butyl Ether	9.139	73	1156476	19.02	ppb(v	95
36) Vinyl Acetate	10.472	43	950014	19.93	ppb(v	99
37) 1,1-Dichloroethane	10.032	63	754699	19.27	ppb(v	99
38) 2-Butanone	11.959	72	195150	20.56	ppb(v	96
39) Hexane	9.120	56	338251	19.80	ppb(v	92
40) cis-1,2-Dichloroethene	10.999	61	603123	19.54	ppb(v	98
41) Di-isopropyl Ether	9.867	87	352974	19.59	ppb(v	92
42) Ethyl Acetate	11.672	61	135683	21.89	ppb(v	93
43) Methyl Acrylate	11.684	55	669925	22.12	ppb(v	99
44) Chloroform	11.482	83	1018569	17.73	ppb(v	98
45) 2,4-Dimethylpentane	10.173	57	720675	18.54	ppb(v	99
46) Tetrahydrofuran	11.763	72	194989	19.55	ppb(v	98
47) 1,1,1-Trichloroethane	11.867	97	947328	16.98	ppb(v	99
48) 1,2-Dichloroethane	12.816	62	546129	17.90	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47598.D
Acq On : 26 Jan 2022 7:14 pm
Operator : danat
Sample : ic1966-20
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:54:18 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	Benzene	12.504	78	1263864	17.56	ppb(v	99
50)	Carbon Tetrachloride	11.776	117	1012388	17.03	ppb(v	99
51)	Cyclohexane	11.433	56	617216	18.37	ppb(v	98
52)	2,3-Dimethylpentane	11.604	71	288290	19.99	ppb(v	98
54)	2,2,4-Trimethylpentane	12.320	57	1921718	19.30	ppb(v	99
55)	Heptane	12.497	71	395159	19.12	ppb(v	98
56)	Trichloroethene	13.525	97	412021	17.00	ppb(v	94
57)	1,2-Dichloropropane	14.394	63	483322	19.25	ppb(v	97
58)	Dibromomethane	14.229	174	626703	15.85	ppb(v	87
59)	Ethyl Acrylate	14.394	55	901195	19.24	ppb(v	99
60)	Methyl Methacrylate	14.755	69	477080	19.92	ppb(v	98
61)	1,4-Dioxane	14.828	88	314232	18.03	ppb(v	98
62)	Bromodichloromethane	14.510	83	1051634	17.89	ppb(v	99
63)	cis-1,3-Dichloropropene	15.611	75	846357	18.47	ppb(v	99
64)	4-Methyl-2-pentanone	16.676	58	391488	20.49	ppb(v	99
65)	trans-1,3-Dichloropropene	16.761	75	733991	18.53	ppb(v	98
66)	Toluene	16.064	91	1631241	17.83	ppb(v	99
67)	1,1,2-Trichloroethane	17.061	97	569132	16.47	ppb(v	98
68)	1,3-Dichloropropane	17.563	76	758685	18.44	ppb(v	99
69)	2-Hexanone	18.205	43	794555	19.64	ppb(v	99
70)	Ethyl Methacrylate	17.043	69	736571	17.68	ppb(v	98
71)	Dibromochloromethane	17.416	129	1143295	17.05	ppb(v	99
72)	Tetrachloroethene	16.798	166	860265	15.64	ppb(v	98
73)	1,2-Dibromoethane	17.857	107	951871	17.92	ppb(v	100
74)	Octane	15.770	43	859981	19.28	ppb(v	98
75)	1,1,1,2-Tetrachloroethane	18.952	131	730836	16.75	ppb(v	98
77)	Chlorobenzene	18.841	112	1296398	16.59	ppb(v	99
78)	Ethylbenzene	18.890	91	1977360	16.47	ppb(v	100
79)	m,p-Xylene	19.147	91	2800903	31.44	ppb(v	99
80)	Styrene	19.943	104	1165850	17.82	ppb(v	99
81)	Nonane	18.744	43	850163	18.48	ppb(v	99
82)	o-Xylene	19.869	91	1542471	16.49	ppb(v	100
83)	Bromoform	19.992	173	1033570	15.29	ppb(v	98
84)	1,1,2,2-Tetrachloroethane	21.050	83	1163378	16.74	ppb(v	100
85)	1,2,3-Trichloropropane	21.246	75	809566	14.76	ppb(v	97
86)	Isopropylbenzene	20.365	105	2077748	15.87	ppb(v	99
87)	Bromobenzene	20.952	156	717487	15.59	ppb(v	92
88)	2-Chlorotoluene	21.215	126	518865	16.22	ppb(v	99
89)	n-Propylbenzene	20.983	120	557839	17.34	ppb(v	95
91)	4-Ethyltoluene	21.142	105	1989442	17.27	ppb(v	100
92)	1,3,5-Trimethylbenzene	21.258	105	1490991	15.60	ppb(v	98
93)	alpha-Methylstyrene	21.601	118	848680	17.65	ppb(v	100
94)	tert-Butylbenzene	21.705	134	331533	15.08	ppb(v	93
95)	1,2,4-Trimethylbenzene	21.790	105	1563166	16.87	ppb(v	100
96)	1,3-Dichlorobenzene	22.237	146	1061896	16.60	ppb(v	99
97)	1,2,3-trimethylbenzene	22.365	105	1459084	16.24	ppb(v	100
98)	Benzyl Chloride	22.634	126	273809	16.98	ppb(v	95
99)	1,4-Dichlorobenzene	22.347	146	1017928	16.97	ppb(v	99
100)	sec-Butylbenzene	21.943	134	427692	15.84	ppb(v	99
101)	p-Isopropyltoluene	22.127	134	472946	15.97	ppb(v	95
102)	1,2-Dichlorobenzene	22.873	146	756271	13.21	ppb(v	98
103)	n-Butylbenzene	22.659	134	376798	15.52	ppb(v	90
104)	Hexachloroethane	22.867	201	469499	11.62	ppb(v	88
105)	1,2,4-Trichlorobenzene	24.666	180	387710	11.37	ppb(v	99
106)	Naphthalene	25.088	128	824080	11.19	ppb(v	99
107)	Hexachlorobutadiene	24.629	225	446363	9.95	ppb(v	98
109)	TVHC as equiv Pentane	6.355	TIC	4034366	19.08	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47598.D
Acq On : 26 Jan 2022 7:14 pm
Operator : danat
Sample : ic1966-20
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:54:18 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

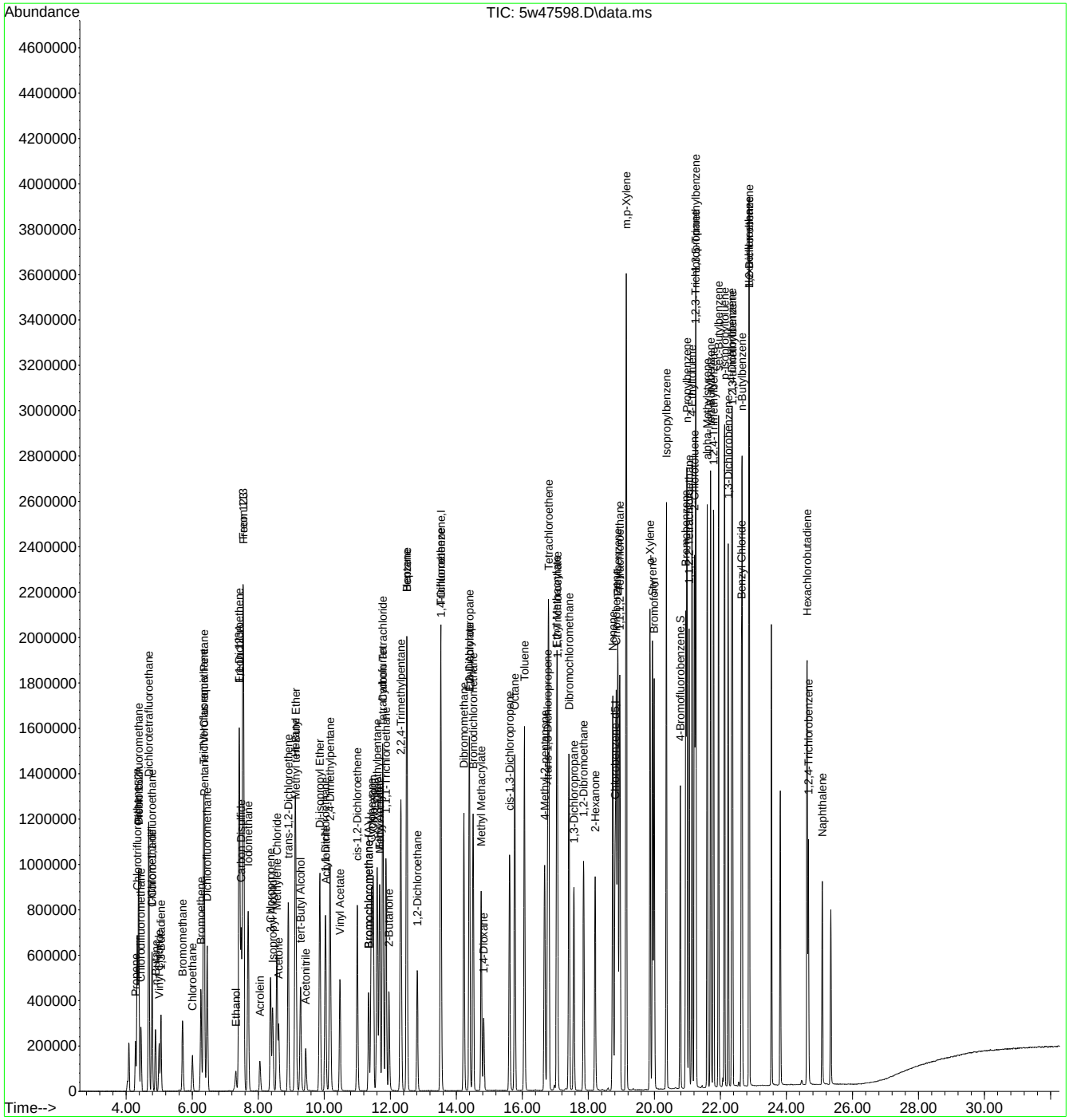
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47598.D
Acq On : 26 Jan 2022 7:14 pm
Operator : danat
Sample : ic1966-20
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:54:18 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47599.D
Acq On : 26 Jan 2022 8:07 pm
Operator : danat
Sample : ic1966-40
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:55:04 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.347	130	209729	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	13.544	114	718503	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.811	82	351634	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.347	130	209729	10.00	ppb(v	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.787	95	471878	10.55	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 105.50%			
Target Compounds						Qvalue
2) Freon 152A	4.379	65	327686	24.96	ppb(v	96
3) Chlorodifluoromethane	4.447	67	167323	26.11	ppb(v	100
4) Propene	4.281	41	322090	23.27	ppb(v	99
5) Chlorotrifluoroethene	4.336	116	948633	26.64	ppb(v	97
6) Dichlorodifluoromethane	4.373	85	1927112	24.74	ppb(v	99
7) 1-Chloro-1,1-difluoroe...	4.783	65	1226863	27.21	ppb(v	99
8) Chloromethane	4.783	50	436083	23.42	ppb(v	100
9) Dichlorotetrafluoroethane	4.685	85	1669000	23.73	ppb(v	99
10) Vinyl Chloride	4.997	62	593620	27.86	ppb(v	99
11) 1,3-Butadiene	5.052	54	386951	28.48	ppb(v	99
12) n-Butane	4.887	58	85261	27.32	ppb(v	100
13) Bromomethane	5.707	94	506453	26.09	ppb(v	99
14) Chloroethane	6.007	64	353931	41.18	ppb(v	99
15) Dichlorofluoromethane	6.453	67	1699788	34.42	ppb(v	99
16) Acetonitrile	9.439	41	463053	34.76	ppb(v	100
17) Freon 123	7.548	83	1545872	30.62	ppb(v	99
18) Freon 123A	7.420	117	937860	33.48	ppb(v	94
19) Bromoethene	6.263	106	853542	37.03	ppb(v	98
20) Acrolein	8.050	56	307073	39.05	ppb(v	97
21) Trichlorofluoromethane	6.349	101	1999441	33.55	ppb(v	100
22) Acetone	8.619	58	306938	36.95	ppb(v	96
23) Pentane	6.367	57	166984	32.23	ppb(v	96
24) Iodomethane	7.695	142	2323810	33.37	ppb(v	99
25) Isopropyl Alcohol	8.441	43	203796	33.87	ppb(v	94
26) 1,1-Dichloroethene	7.426	61	1178614	35.34	ppb(v	99
27) Freon 113	7.542	101	1606553	31.25	ppb(v	96
28) Methylene Chloride	8.564	84	730279	35.00	ppb(v	99
29) Carbon Disulfide	7.481	76	2450652	37.36	ppb(v	99
30) Ethanol	7.322	45	255208	38.51	ppb(v	98
31) Acrylonitrile	10.050	53	485815	37.34	ppb(v	99
32) 3-Chloropropene	8.374	76	378971	40.01	ppb(v	97
33) trans-1,2-Dichloroethene	8.906	61	1158518	37.67	ppb(v	99
34) tert-Butyl Alcohol	9.286	59	1492308	36.93	ppb(v	99
35) Methyl tert-Butyl Ether	9.139	73	2038512	35.30	ppb(v	94
36) Vinyl Acetate	10.479	43	1710736	37.78	ppb(v	99
37) 1,1-Dichloroethane	10.032	63	1313250	35.31	ppb(v	99
38) 2-Butanone	11.965	72	356523	39.55	ppb(v	100
39) Hexane	9.114	56	577264	35.57	ppb(v	98
40) cis-1,2-Dichloroethene	10.999	61	1072351	36.58	ppb(v	99
41) Di-isopropyl Ether	9.867	87	622331	36.37	ppb(v	100
42) Ethyl Acetate	11.672	61	228650	38.84	ppb(v	93
43) Methyl Acrylate	11.690	55	1145541	39.83	ppb(v	99
44) Chloroform	11.482	83	1798399	32.96	ppb(v	99
45) 2,4-Dimethylpentane	10.179	57	1226259	33.22	ppb(v	100
46) Tetrahydrofuran	11.763	72	329229	34.76	ppb(v	99
47) 1,1,1-Trichloroethane	11.873	97	1698982	32.06	ppb(v	99
48) 1,2-Dichloroethane	12.822	62	1001086	34.54	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47599.D
Acq On : 26 Jan 2022 8:07 pm
Operator : danat
Sample : ic1966-40
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:55:04 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	Benzene	12.510	78	1982192	29.00	ppb(v	99
50)	Carbon Tetrachloride	11.776	117	1789773	31.71	ppb(v	99
51)	Cyclohexane	11.433	56	1077672	33.77	ppb(v	99
52)	2,3-Dimethylpentane	11.610	71	499820	36.49	ppb(v	97
54)	2,2,4-Trimethylpentane	12.320	57	3254273	36.89	ppb(v	99
55)	Heptane	12.497	71	623473	34.04	ppb(v	97
56)	Trichloroethene	13.531	97	724251	33.72	ppb(v	93
57)	1,2-Dichloropropane	14.400	63	796070	35.78	ppb(v	99
58)	Dibromomethane	14.235	174	1103414	31.48	ppb(v	92
59)	Ethyl Acrylate	14.394	55	1494284	36.00	ppb(v	99
60)	Methyl Methacrylate	14.755	69	834422	39.31	ppb(v	100
61)	1,4-Dioxane	14.834	88	559285	36.22	ppb(v	99
62)	Bromodichloromethane	14.510	83	1844255	35.41	ppb(v	99
63)	cis-1,3-Dichloropropene	15.617	75	1494539	36.81	ppb(v	99
64)	4-Methyl-2-pentanone	16.676	58	673297	39.77	ppb(v	98
65)	trans-1,3-Dichloropropene	16.768	75	1253028	35.70	ppb(v	99
66)	Toluene	16.064	91	2820666	34.80	ppb(v	99
67)	1,1,2-Trichloroethane	17.061	97	938801	30.66	ppb(v	97
68)	1,3-Dichloropropane	17.563	76	1340867	36.77	ppb(v	99
69)	2-Hexanone	18.205	43	1394306	38.89	ppb(v	100
70)	Ethyl Methacrylate	17.043	69	1221800	33.09	ppb(v	99
71)	Dibromochloromethane	17.416	129	1995972	33.60	ppb(v	100
72)	Tetrachloroethene	16.798	166	1395161	28.63	ppb(v	96
73)	1,2-Dibromoethane	17.863	107	1663036	35.33	ppb(v	100
74)	Octane	15.777	43	1431083	36.20	ppb(v	99
75)	1,1,1,2-Tetrachloroethane	18.952	131	1241573	32.11	ppb(v	99
77)	Chlorobenzene	18.848	112	2214707	31.08	ppb(v	97
78)	Ethylbenzene	18.897	91	3367179	30.75	ppb(v	99
79)	m,p-Xylene	19.153	91	4339344	53.40	ppb(v	96
80)	Styrene	19.949	104	1970310	33.01	ppb(v	99
81)	Nonane	18.750	43	1398582	33.33	ppb(v	100
82)	o-Xylene	19.875	91	2658226	31.15	ppb(v	99
83)	Bromoform	19.998	173	1684803	27.34	ppb(v	99
84)	1,1,2,2-Tetrachloroethane	21.050	83	1938388	30.58	ppb(v	99
85)	1,2,3-Trichloropropane	21.246	75	1211288	24.21	ppb(v	97
86)	Isopropylbenzene	20.365	105	3532213	29.59	ppb(v	98
87)	Bromobenzene	20.952	156	1192639	28.41	ppb(v	89
88)	2-Chlorotoluene	21.215	126	865843	29.68	ppb(v	90
89)	n-Propylbenzene	20.989	120	915485	31.19	ppb(v	98
91)	4-Ethyltoluene	21.148	105	3318658	31.59	ppb(v	99
92)	1,3,5-Trimethylbenzene	21.264	105	2246640	25.77	ppb(v	97
93)	alpha-Methylstyrene	21.607	118	1470191	33.53	ppb(v	99
94)	tert-Butylbenzene	21.711	134	556998	27.77	ppb(v	93
95)	1,2,4-Trimethylbenzene	21.796	105	2639229	31.23	ppb(v	99
96)	1,3-Dichlorobenzene	22.237	146	1740075	29.83	ppb(v	97
97)	1,2,3-trimethylbenzene	22.371	105	2257096	27.54	ppb(v	98
98)	Benzyl Chloride	22.641	126	455625	30.98	ppb(v	89
99)	1,4-Dichlorobenzene	22.347	146	1520925	27.80	ppb(v	97
100)	sec-Butylbenzene	21.949	134	708361	28.77	ppb(v	97
101)	p-Isopropyltoluene	22.127	134	761635	28.20	ppb(v	95
102)	1,2-Dichlorobenzene	22.879	146	1015045	19.44	ppb(v#	94
103)	n-Butylbenzene	22.665	134	625958	28.27	ppb(v	97
104)	Hexachloroethane	22.867	201	655153	17.77	ppb(v	82
105)	1,2,4-Trichlorobenzene	24.666	180	886420	28.51	ppb(v	99
106)	Naphthalene	25.088	128	1983626	29.52	ppb(v	99
107)	Hexachlorobutadiene	24.629	225	859091	20.99	ppb(v	98
109)	TVHC as equiv Pentane	6.355	TIC	7237458	36.05	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47599.D
Acq On : 26 Jan 2022 8:07 pm
Operator : danat
Sample : ic1966-40
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:55:04 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

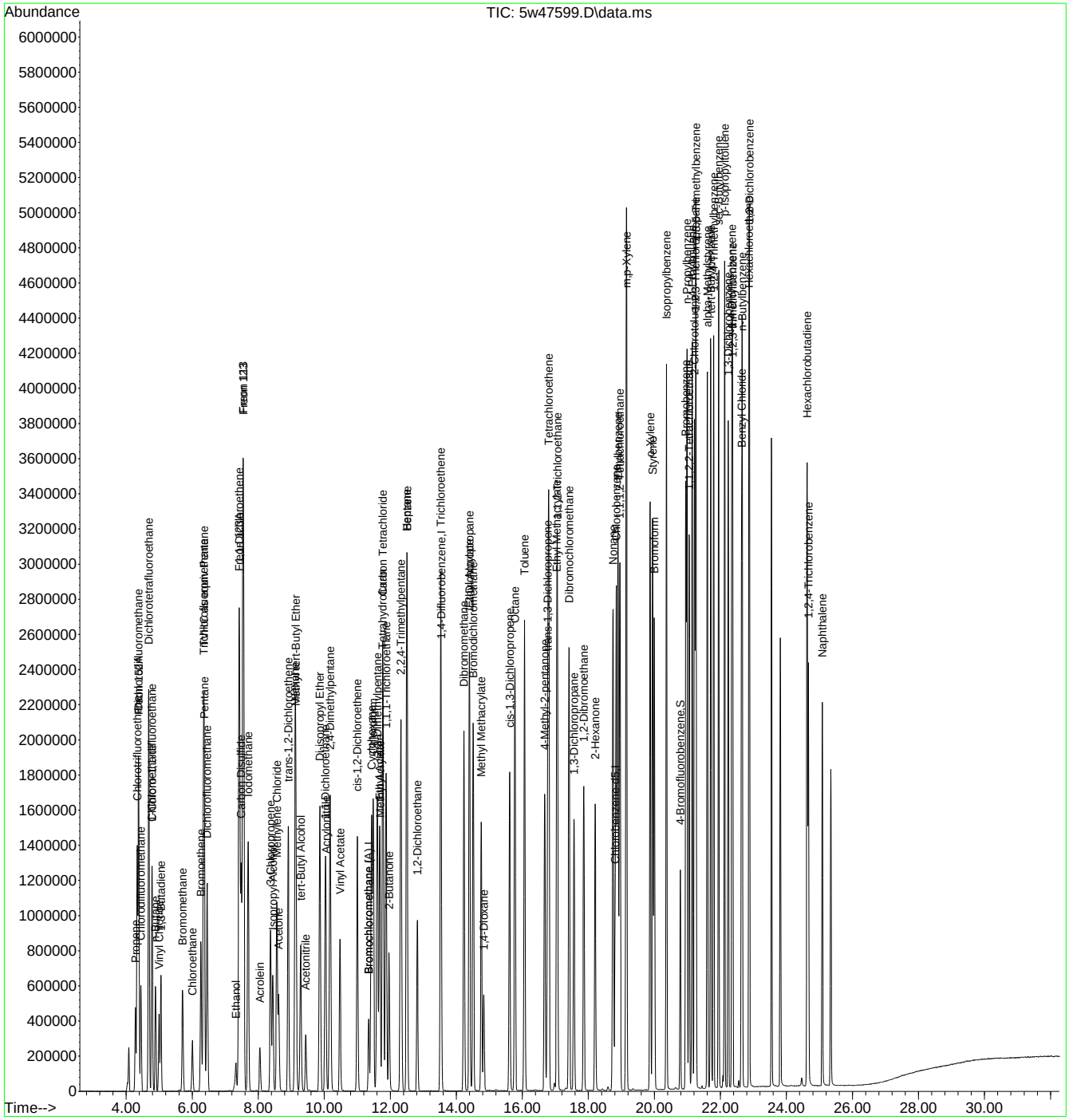
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47599.D
Acq On : 26 Jan 2022 8:07 pm
Operator : danat
Sample : ic1966-40
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:55:04 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47600.D
Acq On : 26 Jan 2022 9:03 pm
Operator : danat
Sample : ic1966-50
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:55:12 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.347	130	206078	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	13.544	114	678249	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.811	82	338756	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.347	130	206078	10.00	ppb(v	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.787	95	483368	11.22	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 112.20%			
Target Compounds						Qvalue
2) Freon 152A	4.379	65	478968	37.12	ppb(v	97
3) Chlorodifluoromethane	4.447	67	236751	37.60	ppb(v	100
4) Propene	4.275	41	503378	37.01	ppb(v	99
5) Chlorotrifluoroethene	4.330	116	1354647	38.72	ppb(v	96
6) Dichlorodifluoromethane	4.373	85	2695042	35.22	ppb(v	99
7) 1-Chloro-1,1-difluoroe...	4.783	65	1693930	38.24	ppb(v	99
8) Chloromethane	4.777	50	652658	35.67	ppb(v	100
9) Dichlorotetrafluoroethane	4.685	85	2426507	35.11	ppb(v	99
10) Vinyl Chloride	4.991	62	848733	40.54	ppb(v	99
11) 1,3-Butadiene	5.052	54	493417	36.95	ppb(v	99
12) n-Butane	4.887	58	126661	41.30	ppb(v	98
13) Bromomethane	5.707	94	604150	31.68	ppb(v	100
14) Chloroethane	6.007	64	423741	50.18	ppb(v	99
15) Dichlorofluoromethane	6.453	67	1979255	40.79	ppb(v	100
16) Acetonitrile	9.445	41	540859	41.32	ppb(v	99
17) Freon 123	7.554	83	1708540	34.44	ppb(v	98
18) Freon 123A	7.420	117	1072826	38.98	ppb(v	95
19) Bromoethene	6.264	106	1014713	44.80	ppb(v	98
20) Acrolein	8.050	56	349307	45.21	ppb(v	97
21) Trichlorofluoromethane	6.349	101	2311658	39.47	ppb(v	100
22) Acetone	8.619	58	349937	42.88	ppb(v	96
23) Pentane	6.368	57	186800	36.70	ppb(v	97
24) Iodomethane	7.695	142	2694716	39.39	ppb(v	100
25) Isopropyl Alcohol	8.441	43	236838	40.06	ppb(v	96
26) 1,1-Dichloroethene	7.426	61	1334192	40.71	ppb(v	98
27) Freon 113	7.542	101	1797373	35.58	ppb(v	96
28) Methylene Chloride	8.564	84	848246	41.38	ppb(v	99
29) Carbon Disulfide	7.481	76	2827695	43.88	ppb(v	99
30) Ethanol	7.328	45	292724	44.95	ppb(v	99
31) Acrylonitrile	10.050	53	556184	43.50	ppb(v	98
32) 3-Chloropropene	8.374	76	438421	47.11	ppb(v	97
33) trans-1,2-Dichloroethene	8.913	61	1351565	44.72	ppb(v	99
34) tert-Butyl Alcohol	9.292	59	1749124	44.05	ppb(v	99
35) Methyl tert-Butyl Ether	9.139	73	2318769	40.86	ppb(v	90
36) Vinyl Acetate	10.479	43	1937103	43.54	ppb(v	99
37) 1,1-Dichloroethane	10.038	63	1514415	41.44	ppb(v	99
38) 2-Butanone	11.965	72	418255	47.22	ppb(v	98
39) Hexane	9.121	56	643652	40.36	ppb(v	94
40) cis-1,2-Dichloroethene	11.005	61	1248607	43.35	ppb(v	100
41) Di-isopropyl Ether	9.873	87	729045	43.36	ppb(v	96
42) Ethyl Acetate	11.678	61	262685	45.41	ppb(v	91
43) Methyl Acrylate	11.690	55	1286361	45.51	ppb(v	100
44) Chloroform	11.488	83	2110812	39.37	ppb(v	99
45) 2,4-Dimethylpentane	10.185	57	1391835	38.37	ppb(v	100
46) Tetrahydrofuran	11.763	72	370697	39.83	ppb(v	97
47) 1,1,1-Trichloroethane	11.874	97	2000388	38.41	ppb(v	99
48) 1,2-Dichloroethane	12.822	62	1194532	41.94	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47600.D
Acq On : 26 Jan 2022 9:03 pm
Operator : danat
Sample : ic1966-50
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:55:12 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	Benzene	12.510	78	2236802	33.31	ppb(v	98
50)	Carbon Tetrachloride	11.782	117	2083060	37.56	ppb(v	99
51)	Cyclohexane	11.433	56	1248074	39.80	ppb(v	99
52)	2,3-Dimethylpentane	11.610	71	580879	43.16	ppb(v	98
54)	2,2,4-Trimethylpentane	12.326	57	3708479	44.54	ppb(v	98
55)	Heptane	12.504	71	703263	40.67	ppb(v	99
56)	Trichloroethene	13.531	97	840983	41.47	ppb(v	93
57)	1,2-Dichloropropane	14.400	63	896158	42.67	ppb(v	96
58)	Dibromomethane	14.235	174	1291917	39.05	ppb(v	90
59)	Ethyl Acrylate	14.394	55	1676761	42.80	ppb(v	100
60)	Methyl Methacrylate	14.761	69	963627	48.10	ppb(v	99
61)	1,4-Dioxane	14.835	88	657733	45.12	ppb(v	99
62)	Bromodichloromethane	14.510	83	2170579	44.15	ppb(v	99
63)	cis-1,3-Dichloropropene	15.618	75	1776208	46.35	ppb(v	99
64)	4-Methyl-2-pentanone	16.682	58	779848	48.80	ppb(v	98
65)	trans-1,3-Dichloropropene	16.768	75	1458762	44.03	ppb(v	99
66)	Toluene	16.070	91	3280765	42.88	ppb(v	99
67)	1,1,2-Trichloroethane	17.067	97	1054517	36.48	ppb(v	100
68)	1,3-Dichloropropane	17.569	76	1595193	46.34	ppb(v	98
69)	2-Hexanone	18.205	43	1611906	47.63	ppb(v	99
70)	Ethyl Methacrylate	17.049	69	1352099	38.80	ppb(v	91
71)	Dibromochloromethane	17.416	129	2332817	41.60	ppb(v	100
72)	Tetrachloroethene	16.804	166	1568247	34.09	ppb(v	96
73)	1,2-Dibromoethane	17.863	107	1961688	44.15	ppb(v	99
74)	Octane	15.777	43	1621098	43.45	ppb(v	99
75)	1,1,1,2-Tetrachloroethane	18.958	131	1442280	39.52	ppb(v	99
77)	Chlorobenzene	18.848	112	2544155	37.06	ppb(v	97
78)	Ethylbenzene	18.897	91	3899375	36.96	ppb(v	99
79)	m,p-Xylene	19.160	91	4886610	62.43	ppb(v	95
80)	Styrene	19.949	104	2265890	39.41	ppb(v	98
81)	Nonane	18.750	43	1597884	39.52	ppb(v	99
82)	o-Xylene	19.875	91	3105415	37.78	ppb(v	98
83)	Bromoform	19.998	173	1906140	32.10	ppb(v	98
84)	1,1,2,2-Tetrachloroethane	21.056	83	2211031	36.21	ppb(v	100
85)	1,2,3-Trichloropropane	21.252	75	1342883	27.86	ppb(v	97
86)	Isopropylbenzene	20.371	105	3955710	34.39	ppb(v	98
87)	Bromobenzene	20.952	156	1351394	33.41	ppb(v	87
88)	2-Chlorotoluene	21.221	126	984775	35.04	ppb(v	92
89)	n-Propylbenzene	20.989	120	1040473	36.80	ppb(v	95
91)	4-Ethyltoluene	21.148	105	3798326	37.53	ppb(v	98
92)	1,3,5-Trimethylbenzene	21.264	105	2496638	29.73	ppb(v	97
93)	alpha-Methylstyrene	21.607	118	1687702	39.95	ppb(v	98
94)	tert-Butylbenzene	21.711	134	622073	32.19	ppb(v	83
95)	1,2,4-Trimethylbenzene	21.796	105	3107622	38.17	ppb(v	97
96)	1,3-Dichlorobenzene	22.237	146	2085727	37.12	ppb(v	96
97)	1,2,3-trimethylbenzene	22.372	105	2674003	33.87	ppb(v	98
98)	Benzyl Chloride	22.641	126	567213	40.04	ppb(v	94
99)	1,4-Dichlorobenzene	22.347	146	1804166	34.23	ppb(v	96
100)	sec-Butylbenzene	21.949	134	792317	33.40	ppb(v	97
101)	p-Isopropyltoluene	22.127	134	877802	33.73	ppb(v	96
102)	1,2-Dichlorobenzene	22.879	146	1151400	22.89	ppb(v#	90
103)	n-Butylbenzene	22.665	134	742000	34.79	ppb(v	91
104)	Hexachloroethane	22.867	201	749084	21.09	ppb(v	80
105)	1,2,4-Trichlorobenzene	24.672	180	1162969	38.83	ppb(v	99
106)	Naphthalene	25.088	128	2709910	41.86	ppb(v	99
107)	Hexachlorobutadiene	24.629	225	1043487	26.46	ppb(v	98
109)	TVHC as equiv Pentane	6.355	TIC	8296857	42.05	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47600.D
Acq On : 26 Jan 2022 9:03 pm
Operator : danat
Sample : ic1966-50
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:55:12 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration

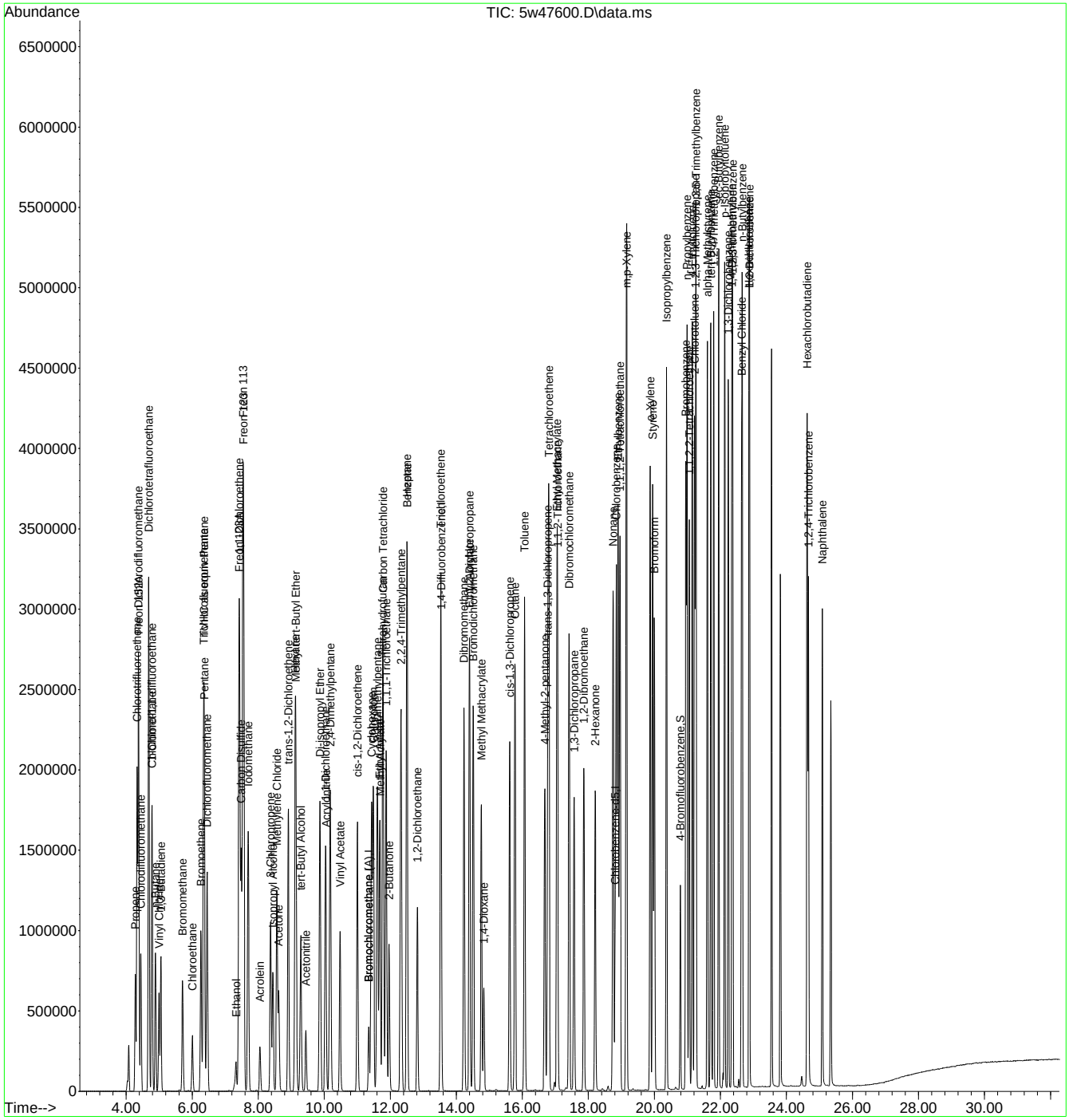
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47600.D
Acq On : 26 Jan 2022 9:03 pm
Operator : danat
Sample : ic1966-50
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 07:55:12 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 20 14:34:56 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47603.D
Acq On : 26 Jan 2022 11:30 pm
Operator : danat
Sample : icv1966-10
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 27 08:28:09 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	231097	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	13.537	114	888391	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	409115	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	231097	10.00	ppb(v	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	527145	10.20	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.00%			
Target Compounds						Qvalue
2) Freon 152A	4.379	65	139055	12.28	ppb(v	97
3) Chlorodifluoromethane	4.453	67	56074	11.85	ppb(v	97
4) Propene	4.287	41	139934	12.83	ppb(v	98
5) Chlorotrifluoroethene	4.336	116	344285	11.60	ppb(v	100
6) Dichlorodifluoromethane	4.379	85	718843	11.46	ppb(v	99
7) 1-Chloro-1,1-difluoroe...	4.789	65	431126	11.55	ppb(v	99
8) Chloromethane	4.783	50	189379	11.88	ppb(v	99
9) Dichlorotetrafluoroethane	4.685	85	665226	11.74	ppb(v	96
10) Vinyl Chloride	4.997	62	228661	11.75	ppb(v	99
11) 1,3-Butadiene	5.052	54	141505	11.31	ppb(v	97
12) n-Butane	4.893	58	33540	12.63	ppb(v	97
13) Bromomethane	5.713	94	162042	9.71	ppb(v	99
14) Chloroethane	6.013	64	112160	10.74	ppb(v	97
15) Dichlorofluoromethane	6.453	67	531595	10.03	ppb(v	100
16) Acetonitrile	9.439	41	148053	9.77	ppb(v	98
17) Freon 123	7.548	83	569178	10.55	ppb(v	96
18) Freon 123A	7.426	117	321238	11.33	ppb(v	87
19) Bromoethene	6.270	106	252810	10.38	ppb(v	98
20) Acrolein	8.056	56	89988	9.94	ppb(v	97
21) Trichlorofluoromethane	6.349	101	629704	10.35	ppb(v	100
22) Acetone	8.625	58	96842	10.25	ppb(v	91
23) Pentane	6.367	57	58363	10.76	ppb(v	97
24) Iodomethane	7.695	142	708998	10.15	ppb(v	98
25) Isopropyl Alcohol	8.435	43	65119	10.23	ppb(v	90
26) 1,1-Dichloroethene	7.432	61	387968	10.47	ppb(v	98
27) Freon 113	7.548	101	544799	10.04	ppb(v	95
28) Methylene Chloride	8.564	84	224822	9.48	ppb(v	96
29) Carbon Disulfide	7.481	76	731983	9.74	ppb(v	99
30) Ethanol	7.328	45	87160	11.27	ppb(v	99
31) Acrylonitrile	10.044	53	163888	10.67	ppb(v	99
32) 3-Chloropropene	8.374	76	116902	10.83	ppb(v	96
33) trans-1,2-Dichloroethene	8.912	61	361652	10.14	ppb(v	97
34) tert-Butyl Alcohol	9.286	59	426465	9.18	ppb(v	99
35) Methyl tert-Butyl Ether	9.139	73	664561	9.90	ppb(v	89
36) Vinyl Acetate	10.479	43	515920	9.96	ppb(v	98
37) 1,1-Dichloroethane	10.032	63	448844	10.67	ppb(v	99
38) 2-Butanone	11.965	72	109923	11.11	ppb(v	92
39) Hexane	9.120	56	203272	10.92	ppb(v	96
40) cis-1,2-Dichloroethene	10.999	61	342654	10.42	ppb(v	97
41) Di-isopropyl Ether	9.867	87	192614	10.34	ppb(v	72
42) Ethyl Acetate	11.672	61	79234	11.49	ppb(v	92
43) Methyl Acrylate	11.684	55	384220	10.85	ppb(v	97
44) Chloroform	11.482	83	561665	9.96	ppb(v	100
45) 2,4-Dimethylpentane	10.173	57	426124	10.54	ppb(v	99
46) Tetrahydrofuran	11.769	72	112057	10.80	ppb(v	96
47) 1,1,1-Trichloroethane	11.867	97	524588	9.87	ppb(v	98
48) 1,2-Dichloroethane	12.816	62	311282	10.20	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47603.D
Acq On : 26 Jan 2022 11:30 pm
Operator : danat
Sample : icv1966-10
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 27 08:28:09 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	Benzene	12.504	78	739655	9.65	ppb(v	99
50)	Carbon Tetrachloride	11.776	117	566495	10.42	ppb(v	99
51)	Cyclohexane	11.433	56	359089	10.38	ppb(v	95
52)	2,3-Dimethylpentane	11.604	71	166653	10.92	ppb(v	99
54)	2,2,4-Trimethylpentane	12.320	57	1122236	10.13	ppb(v	99
55)	Heptane	12.497	71	235080	10.70	ppb(v	97
56)	Trichloroethene	13.525	97	233066	9.80	ppb(v	94
57)	1,2-Dichloropropane	14.394	63	283486	10.09	ppb(v	96
58)	Dibromomethane	14.229	174	338146	9.25	ppb(v	86
59)	Ethyl Acrylate	14.394	55	517565	10.64	ppb(v	99
60)	Methyl Methacrylate	14.755	69	263890	10.52	ppb(v	99
61)	1,4-Dioxane	14.828	88	173195	9.08	ppb(v	97
62)	Bromodichloromethane	14.510	83	588514	9.97	ppb(v	99
63)	cis-1,3-Dichloropropene	15.611	75	497099	10.15	ppb(v	98
64)	4-Methyl-2-pentanone	16.670	58	225513	11.10	ppb(v	96
65)	trans-1,3-Dichloropropene	16.761	75	409570	9.39	ppb(v	98
66)	Toluene	16.058	91	936877	10.05	ppb(v	100
67)	1,1,2-Trichloroethane	17.055	97	329379	9.99	ppb(v	97
68)	1,3-Dichloropropane	17.557	76	426564	9.84	ppb(v	98
69)	2-Hexanone	18.205	43	461637	10.65	ppb(v	99
70)	Ethyl Methacrylate	17.043	69	433756	11.04	ppb(v	93
71)	Dibromochloromethane	17.410	129	630800	10.18	ppb(v	100
72)	Tetrachloroethene	16.792	166	498801	10.29	ppb(v	97
73)	1,2-Dibromoethane	17.857	107	530158	9.93	ppb(v	99
74)	Octane	15.764	43	518015	10.68	ppb(v	95
75)	1,1,1,2-Tetrachloroethane	18.945	131	407331	9.74	ppb(v	99
77)	Chlorobenzene	18.841	112	724593	9.97	ppb(v	98
78)	Ethylbenzene	18.884	91	1145054	10.14	ppb(v	99
79)	m,p-Xylene	19.141	91	1706506	20.81	ppb(v	99
80)	Styrene	19.943	104	671551	11.27	ppb(v	99
81)	Nonane	18.737	43	517317	10.71	ppb(v	97
82)	o-Xylene	19.863	91	900386	10.44	ppb(v	99
83)	Bromoform	19.992	173	587053	10.56	ppb(v	99
84)	1,1,2,2-Tetrachloroethane	21.050	83	684621	10.17	ppb(v	99
85)	1,2,3-Trichloropropane	21.246	75	499272	9.93	ppb(v	97
86)	Isopropylbenzene	20.365	105	1217189	10.29	ppb(v	99
87)	Bromobenzene	20.946	156	399135	10.27	ppb(v	86
88)	2-Chlorotoluene	21.209	126	299078	10.35	ppb(v	94
89)	n-Propylbenzene	20.983	120	324476	11.29	ppb(v	95
91)	4-Ethyltoluene	21.136	105	1182025	11.34	ppb(v	99
92)	1,3,5-Trimethylbenzene	21.252	105	936839	11.04	ppb(v	99
93)	alpha-Methylstyrene	21.601	118	477639	11.51	ppb(v	100
94)	tert-Butylbenzene	21.705	134	197934	10.33	ppb(v	96
95)	1,2,4-Trimethylbenzene	21.790	105	946355	11.55	ppb(v	100
96)	1,3-Dichlorobenzene	22.231	146	610617	11.62	ppb(v	98
97)	1,2,3-trimethylbenzene	22.365	105	886031	11.56	ppb(v	99
98)	Benzyl Chloride	22.634	126	159096	11.81	ppb(v	93
99)	1,4-Dichlorobenzene	22.341	146	588820	11.85	ppb(v	98
100)	sec-Butylbenzene	21.943	134	255445	10.90	ppb(v	97
101)	p-Isopropyltoluene	22.121	134	275634	11.00	ppb(v	98
102)	1,2-Dichlorobenzene	22.867	146	541125	12.20	ppb(v	98
103)	n-Butylbenzene	22.659	134	242712	12.42	ppb(v	94
104)	Hexachloroethane	22.867	201	322125	10.24	ppb(v	90
105)	1,2,4-Trichlorobenzene	24.666	180	232823	12.47	ppb(v	100
106)	Naphthalene	25.088	128	471825	10.22	ppb(v	99
107)	Hexachlorobutadiene	24.623	225	334268	11.37	ppb(v	98
109)	TVHC as equiv Pentane	6.361	TIC	2387322	10.98	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47603.D
Acq On : 26 Jan 2022 11:30 pm
Operator : danat
Sample : icv1966-10
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 27 08:28:09 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

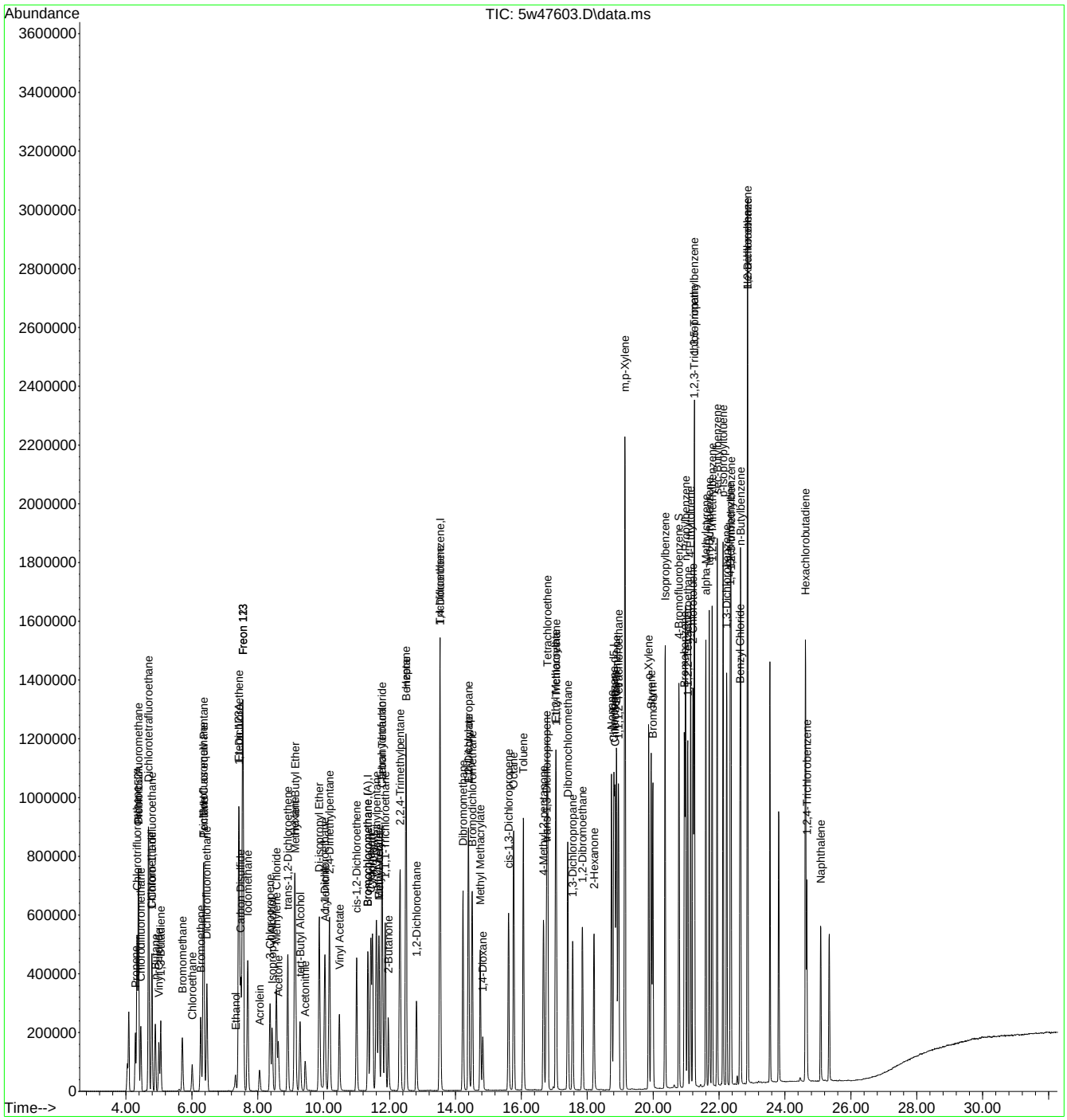
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47603.D
Acq On : 26 Jan 2022 11:30 pm
Operator : danat
Sample : icv1966-10
Misc : ms56359,v5w1966,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 27 08:28:09 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47608.D
Acq On : 27 Jan 2022 11:42 am
Operator : thomash
Sample : cc1966-10
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 12:33:15 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	224002	10.00	ppb(v	0.00
53) 1,4-Difluorobenzene	13.538	114	837114	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	380509	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	224002	10.00	ppb(v	0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	499614	10.39	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 103.90%			
Target Compounds						Qvalue
2) Freon 152A	4.379	65	123632	11.26	ppb(v	98
3) Chlorodifluoromethane	4.453	67	52564	11.46	ppb(v	99
4) Propene	4.288	41	122300	11.57	ppb(v	98
5) Chlorotrifluoroethene	4.337	116	324430	11.27	ppb(v	97
6) Dichlorodifluoromethane	4.379	85	657999	10.82	ppb(v	100
7) 1-Chloro-1,1-difluoroe...	4.789	65	392457	10.85	ppb(v	99
8) Chloromethane	4.783	50	164844	10.67	ppb(v	99
9) Dichlorotetrafluoroethane	4.685	85	607437	11.06	ppb(v	97
10) Vinyl Chloride	4.997	62	206544	10.95	ppb(v	100
11) 1,3-Butadiene	5.059	54	127437	10.51	ppb(v	98
12) n-Butane	4.893	58	30511	11.85	ppb(v	97
13) Bromomethane	5.713	94	147021	9.08	ppb(v	99
14) Chloroethane	6.013	64	104516	10.32	ppb(v	98
15) Dichlorofluoromethane	6.459	67	506749	9.87	ppb(v	100
16) Acetonitrile	9.445	41	137675	9.38	ppb(v	99
17) Freon 123	7.548	83	520496	9.96	ppb(v	97
18) Freon 123A	7.426	117	277702	10.10	ppb(v	90
19) Bromoethene	6.270	106	240944	10.20	ppb(v	98
20) Acrolein	8.056	56	88473	10.08	ppb(v	97
21) Trichlorofluoromethane	6.349	101	585827	9.93	ppb(v	100
22) Acetone	8.625	58	88518	9.66	ppb(v	93
23) Pentane	6.368	57	53011	10.08	ppb(v	99
24) Iodomethane	7.695	142	686136	10.13	ppb(v	98
25) Isopropyl Alcohol	8.435	43	59784	9.69	ppb(v	92
26) 1,1-Dichloroethene	7.432	61	362447	10.09	ppb(v	99
27) Freon 113	7.542	101	525577	10.00	ppb(v	95
28) Methylene Chloride	8.564	84	216310	9.41	ppb(v	98
29) Carbon Disulfide	7.481	76	733658	10.07	ppb(v	99
30) Ethanol	7.328	45	74765	9.97	ppb(v	97
31) Acrylonitrile	10.044	53	145721	9.79	ppb(v	99
32) 3-Chloropropene	8.374	76	108956	10.41	ppb(v	96
33) trans-1,2-Dichloroethene	8.913	61	341190	9.87	ppb(v	99
34) tert-Butyl Alcohol	9.286	59	433191	9.62	ppb(v	99
35) Methyl tert-Butyl Ether	9.139	73	612391	9.41	ppb(v	92
36) Vinyl Acetate	10.479	43	477463	9.51	ppb(v	100
37) 1,1-Dichloroethane	10.032	63	394343	9.67	ppb(v	99
38) 2-Butanone	11.965	72	101218	10.55	ppb(v	99
39) Hexane	9.121	56	181207	10.04	ppb(v	96
40) cis-1,2-Dichloroethene	10.999	61	314464	9.87	ppb(v	99
41) Di-isopropyl Ether	9.867	87	184260	10.21	ppb(v	93
42) Ethyl Acetate	11.672	61	71909	10.75	ppb(v	94
43) Methyl Acrylate	11.684	55	357184	10.41	ppb(v	98
44) Chloroform	11.482	83	531232	9.72	ppb(v	100
45) 2,4-Dimethylpentane	10.179	57	370154	9.44	ppb(v	98
46) Tetrahydrofuran	11.770	72	107087	10.65	ppb(v	98
47) 1,1,1-Trichloroethane	11.868	97	495036	9.61	ppb(v	97
48) 1,2-Dichloroethane	12.816	62	286915	9.70	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47608.D
Acq On : 27 Jan 2022 11:42 am
Operator : thomash
Sample : cc1966-10
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 12:33:15 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	Benzene	12.504	78	686824	9.24	ppb(v	100
50)	Carbon Tetrachloride	11.776	117	539519	10.24	ppb(v	99
51)	Cyclohexane	11.427	56	322100	9.61	ppb(v	97
52)	2,3-Dimethylpentane	11.598	71	150930	10.21	ppb(v	98
54)	2,2,4-Trimethylpentane	12.320	57	1004410	9.62	ppb(v	98
55)	Heptane	12.498	71	213157	10.29	ppb(v	98
56)	Trichloroethene	13.525	97	217971	9.73	ppb(v	95
57)	1,2-Dichloropropane	14.394	63	257365	9.72	ppb(v	97
58)	Dibromomethane	14.229	174	328959	9.55	ppb(v	88
59)	Ethyl Acrylate	14.394	55	477042	10.41	ppb(v	99
60)	Methyl Methacrylate	14.755	69	247625	10.48	ppb(v	97
61)	1,4-Dioxane	14.828	88	164148	9.13	ppb(v	99
62)	Bromodichloromethane	14.510	83	549594	9.88	ppb(v	99
63)	cis-1,3-Dichloropropene	15.612	75	437660	9.48	ppb(v	99
64)	4-Methyl-2-pentanone	16.670	58	200773	10.48	ppb(v	98
65)	trans-1,3-Dichloropropene	16.762	75	386796	9.42	ppb(v	99
66)	Toluene	16.064	91	859995	9.79	ppb(v	100
67)	1,1,2-Trichloroethane	17.055	97	313242	10.08	ppb(v	98
68)	1,3-Dichloropropane	17.557	76	397223	9.73	ppb(v	100
69)	2-Hexanone	18.205	43	405086	9.92	ppb(v	99
70)	Ethyl Methacrylate	17.043	69	404661	10.93	ppb(v	94
71)	Dibromochloromethane	17.410	129	597347	10.23	ppb(v	99
72)	Tetrachloroethene	16.792	166	473851	10.37	ppb(v	97
73)	1,2-Dibromoethane	17.851	107	499339	9.93	ppb(v	99
74)	Octane	15.771	43	461177	10.09	ppb(v	98
75)	1,1,1,2-Tetrachloroethane	18.946	131	382288	9.70	ppb(v	99
77)	Chlorobenzene	18.842	112	674746	9.99	ppb(v	98
78)	Ethylbenzene	18.891	91	1049819	9.99	ppb(v	100
79)	m,p-Xylene	19.141	91	1536138	20.14	ppb(v	99
80)	Styrene	19.943	104	616615	11.13	ppb(v	99
81)	Nonane	18.738	43	451920	10.06	ppb(v	99
82)	o-Xylene	19.863	91	816513	10.18	ppb(v	99
83)	Bromoform	19.992	173	555116	10.74	ppb(v	99
84)	1,1,2,2-Tetrachloroethane	21.050	83	624770	9.98	ppb(v	100
85)	1,2,3-Trichloropropane	21.246	75	459895	9.83	ppb(v	98
86)	Isopropylbenzene	20.365	105	1124904	10.22	ppb(v	99
87)	Bromobenzene	20.946	156	382167	10.57	ppb(v	89
88)	2-Chlorotoluene	21.209	126	278303	10.35	ppb(v	94
89)	n-Propylbenzene	20.983	120	295707	11.06	ppb(v	97
91)	4-Ethyltoluene	21.136	105	1051112	10.84	ppb(v	99
92)	1,3,5-Trimethylbenzene	21.252	105	840828	10.65	ppb(v	99
93)	alpha-Methylstyrene	21.601	118	446590	11.57	ppb(v	100
94)	tert-Butylbenzene	21.705	134	184149	10.33	ppb(v	99
95)	1,2,4-Trimethylbenzene	21.790	105	836533	10.98	ppb(v	99
96)	1,3-Dichlorobenzene	22.231	146	562743	11.51	ppb(v	99
97)	1,2,3-trimethylbenzene	22.365	105	788347	11.06	ppb(v	100
98)	Benzyl Chloride	22.635	126	156270	12.48	ppb(v	97
99)	1,4-Dichlorobenzene	22.341	146	544810	11.79	ppb(v	98
100)	sec-Butylbenzene	21.943	134	228954	10.50	ppb(v	100
101)	p-Isopropyltoluene	22.121	134	251400	10.78	ppb(v	97
102)	1,2-Dichlorobenzene	22.867	146	489268	11.86	ppb(v	98
103)	n-Butylbenzene	22.659	134	210132	11.56	ppb(v	93
104)	Hexachloroethane	22.867	201	296610	10.14	ppb(v	94
105)	1,2,4-Trichlorobenzene	24.666	180	207144	11.93	ppb(v	99
106)	Naphthalene	25.088	128	466769	10.87	ppb(v	100
107)	Hexachlorobutadiene	24.623	225	281850	10.31	ppb(v	99
109)	TVHC as equiv Pentane	6.362	TIC	2182477	10.35	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47608.D
Acq On : 27 Jan 2022 11:42 am
Operator : thomash
Sample : cc1966-10
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 12:33:15 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

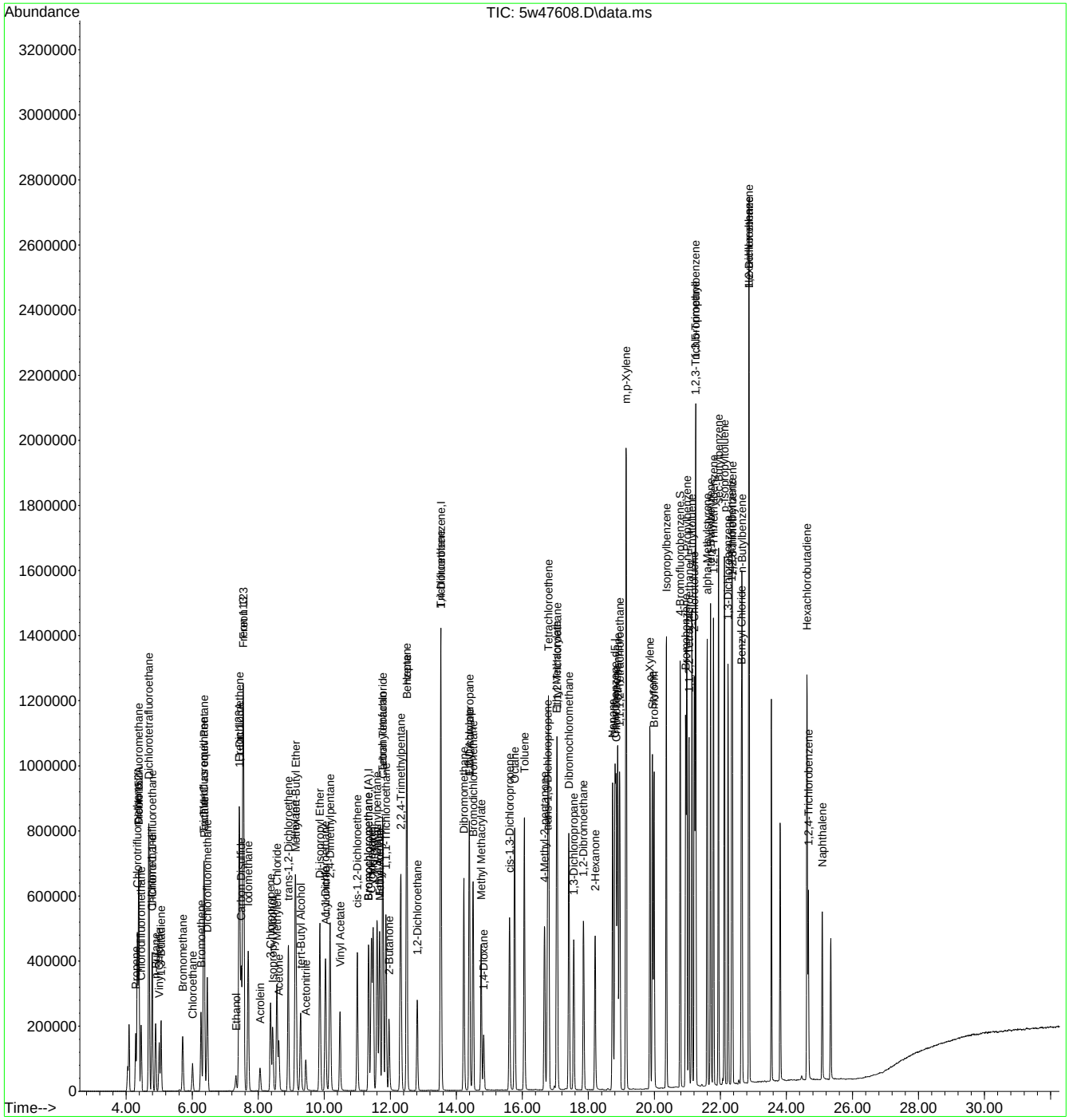
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47608.D
Acq On : 27 Jan 2022 11:42 am
Operator : thomash
Sample : cc1966-10
Misc : ms56359,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 27 12:33:15 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47627.D
Acq On : 28 Jan 2022 4:56 am
Operator : thomash
Sample : ecc1966-10
Misc : ms56243,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 06:18:45 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	11.341	130	229471	10.00	ppb(v	# 0.00
53) 1,4-Difluorobenzene	13.537	114	876020	10.00	ppb(v	0.00
76) Chlorobenzene-d5	18.805	82	422500	10.00	ppb(v	0.00
108) Bromochloromethane (A)	11.341	130	229471	10.00	ppb(v	# 0.00
System Monitoring Compounds						
90) 4-Bromofluorobenzene	20.781	95	522591	9.79	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 97.90%			
Target Compounds						Qvalue
2) Freon 152A	4.379	65	144611	12.86	ppb(v	96
3) Chlorodifluoromethane	4.453	67	58899	12.54	ppb(v	99
4) Propene	4.287	41	151348	13.97	ppb(v	98
5) Chlorotrifluoroethene	4.336	116	342355	11.61	ppb(v	98
6) Dichlorodifluoromethane	4.379	85	728395	11.69	ppb(v	99
7) 1-Chloro-1,1-difluoroe...	4.783	65	445761	12.03	ppb(v	99
8) Chloromethane	4.783	50	202270	12.78	ppb(v	100
9) Dichlorotetrafluoroethane	4.679	85	683436	12.15	ppb(v	94
10) Vinyl Chloride	4.997	62	239763	12.41	ppb(v	99
11) 1,3-Butadiene	5.052	54	154092	12.41	ppb(v	98
12) n-Butane	4.887	58	35634	13.51	ppb(v	96
13) Bromomethane	5.707	94	167887	10.13	ppb(v	99
14) Chloroethane	6.006	64	114442	11.03	ppb(v	97
15) Dichlorofluoromethane	6.453	67	560795	10.66	ppb(v	100
16) Acetonitrile	9.439	41	172024	11.44	ppb(v	98
17) Freon 123	7.548	83	558832	10.44	ppb(v	95
18) Freon 123A	7.420	117	285319	10.13	ppb(v	81
19) Bromoethene	6.263	106	242996	10.04	ppb(v	98
20) Acrolein	8.050	56	99888	11.11	ppb(v	98
21) Trichlorofluoromethane	6.343	101	620123	10.26	ppb(v	100
22) Acetone	8.619	58	104267	11.11	ppb(v	100
23) Pentane	6.361	57	61161	11.35	ppb(v	91
24) Iodomethane	7.689	142	678111	9.78	ppb(v	100
25) Isopropyl Alcohol	8.435	43	70527	11.16	ppb(v	86
26) 1,1-Dichloroethene	7.426	61	411329	11.18	ppb(v	94
27) Freon 113	7.542	101	549061	10.19	ppb(v	93
28) Methylene Chloride	8.564	84	230099	9.77	ppb(v	90
29) Carbon Disulfide	7.475	76	793436	10.64	ppb(v	99
30) Ethanol	7.322	45	88945	11.58	ppb(v	97
31) Acrylonitrile	10.044	53	173336	11.37	ppb(v	99
32) 3-Chloropropene	8.368	76	117732	10.98	ppb(v	90
33) trans-1,2-Dichloroethene	8.906	61	387676	10.95	ppb(v	93
34) tert-Butyl Alcohol	9.286	59	495633	10.75	ppb(v	100
35) Methyl tert-Butyl Ether	9.139	73	680234	10.21	ppb(v	96
36) Vinyl Acetate	10.472	43	579930	11.27	ppb(v	96
37) 1,1-Dichloroethane	10.026	63	452771	10.84	ppb(v	99
38) 2-Butanone	11.959	72	112469	11.45	ppb(v	82
39) Hexane	9.114	56	210251	11.37	ppb(v	99
40) cis-1,2-Dichloroethene	10.999	61	357417	10.95	ppb(v	94
41) Di-isopropyl Ether	9.867	87	196925	10.65	ppb(v	71
42) Ethyl Acetate	11.671	61	82599	12.06	ppb(v	97
43) Methyl Acrylate	11.684	55	412309	11.73	ppb(v	96
44) Chloroform	11.482	83	585679	10.46	ppb(v	99
45) 2,4-Dimethylpentane	10.173	57	442402	11.02	ppb(v	97
46) Tetrahydrofuran	11.769	72	117296	11.38	ppb(v	93
47) 1,1,1-Trichloroethane	11.867	97	533824	10.12	ppb(v	99
48) 1,2-Dichloroethane	12.816	62	327513	10.80	ppb(v	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47627.D
Acq On : 28 Jan 2022 4:56 am
Operator : thomash
Sample : ecc1966-10
Misc : ms56243,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 06:18:45 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	Benzene	12.504	78	764283	10.04	ppb(v	99
50)	Carbon Tetrachloride	11.775	117	566662	10.49	ppb(v	99
51)	Cyclohexane	11.427	56	381003	11.09	ppb(v	93
52)	2,3-Dimethylpentane	11.604	71	169709	11.20	ppb(v	96
54)	2,2,4-Trimethylpentane	12.320	57	1189430	10.89	ppb(v	98
55)	Heptane	12.491	71	242970	11.21	ppb(v	94
56)	Trichloroethene	13.525	97	233360	9.95	ppb(v	91
57)	1,2-Dichloropropane	14.394	63	296907	10.71	ppb(v	95
58)	Dibromomethane	14.229	174	324493	9.00	ppb(v	80
59)	Ethyl Acrylate	14.394	55	554468	11.56	ppb(v	97
60)	Methyl Methacrylate	14.755	69	276682	11.19	ppb(v	94
61)	1,4-Dioxane	14.828	88	173657	9.23	ppb(v	94
62)	Bromodichloromethane	14.510	83	601566	10.33	ppb(v	98
63)	cis-1,3-Dichloropropene	15.611	75	482757	10.00	ppb(v	98
64)	4-Methyl-2-pentanone	16.670	58	232427	11.60	ppb(v	93
65)	trans-1,3-Dichloropropene	16.761	75	423085	9.84	ppb(v	97
66)	Toluene	16.064	91	924773	10.06	ppb(v	99
67)	1,1,2-Trichloroethane	17.055	97	335538	10.32	ppb(v	97
68)	1,3-Dichloropropane	17.557	76	436251	10.21	ppb(v	96
69)	2-Hexanone	18.199	43	494857	11.58	ppb(v	95
70)	Ethyl Methacrylate	17.043	69	451414	11.65	ppb(v	96
71)	Dibromochloromethane	17.410	129	619897	10.15	ppb(v	99
72)	Tetrachloroethene	16.792	166	474431	9.92	ppb(v	96
73)	1,2-Dibromoethane	17.850	107	520257	9.89	ppb(v	99
74)	Octane	15.770	43	557802	11.66	ppb(v	93
75)	1,1,1,2-Tetrachloroethane	18.945	131	395484	9.59	ppb(v	99
77)	Chlorobenzene	18.841	112	700476	9.34	ppb(v	95
78)	Ethylbenzene	18.884	91	1129010	9.68	ppb(v	98
79)	m,p-Xylene	19.141	91	1683109	19.88	ppb(v	98
80)	Styrene	19.943	104	643421	10.46	ppb(v	100
81)	Nonane	18.737	43	551709	11.06	ppb(v	95
82)	o-Xylene	19.863	91	867408	9.74	ppb(v	98
83)	Bromoform	19.992	173	554020	9.65	ppb(v	98
84)	1,1,2,2-Tetrachloroethane	21.050	83	670594	9.65	ppb(v	99
85)	1,2,3-Trichloropropane	21.246	75	503156	9.69	ppb(v	96
86)	Isopropylbenzene	20.365	105	1193954	9.77	ppb(v	98
87)	Bromobenzene	20.946	156	375672	9.36	ppb(v	83
88)	2-Chlorotoluene	21.209	126	284056	9.52	ppb(v	90
89)	n-Propylbenzene	20.983	120	305820	10.30	ppb(v	88
91)	4-Ethyltoluene	21.136	105	1110596	10.32	ppb(v	98
92)	1,3,5-Trimethylbenzene	21.252	105	878021	10.02	ppb(v	99
93)	alpha-Methylstyrene	21.601	118	452290	10.55	ppb(v	99
94)	tert-Butylbenzene	21.705	134	185531	9.38	ppb(v	96
95)	1,2,4-Trimethylbenzene	21.790	105	865901	10.24	ppb(v	99
96)	1,3-Dichlorobenzene	22.231	146	553888	10.20	ppb(v	97
97)	1,2,3-trimethylbenzene	22.365	105	818373	10.34	ppb(v	99
98)	Benzyl Chloride	22.634	126	154883	11.14	ppb(v	87
99)	1,4-Dichlorobenzene	22.341	146	538389	10.49	ppb(v	97
100)	sec-Butylbenzene	21.943	134	234408	9.69	ppb(v	94
101)	p-Isopropyltoluene	22.121	134	253793	9.81	ppb(v	98
102)	1,2-Dichlorobenzene	22.867	146	492272	10.75	ppb(v	98
103)	n-Butylbenzene	22.659	134	212655	10.53	ppb(v	86
104)	Hexachloroethane	22.867	201	286346	8.81	ppb(v	88
105)	1,2,4-Trichlorobenzene	24.665	180	180041	9.34	ppb(v	98
106)	Naphthalene	25.088	128	380971	7.99	ppb(v	100
107)	Hexachlorobutadiene	24.629	225	256119	8.44	ppb(v	98
109)	TVHC as equiv Pentane	6.355	TIC	2451504	11.35	ppb(v	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47627.D
Acq On : 28 Jan 2022 4:56 am
Operator : thomash
Sample : ecc1966-10
Misc : ms56243,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 06:18:45 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration

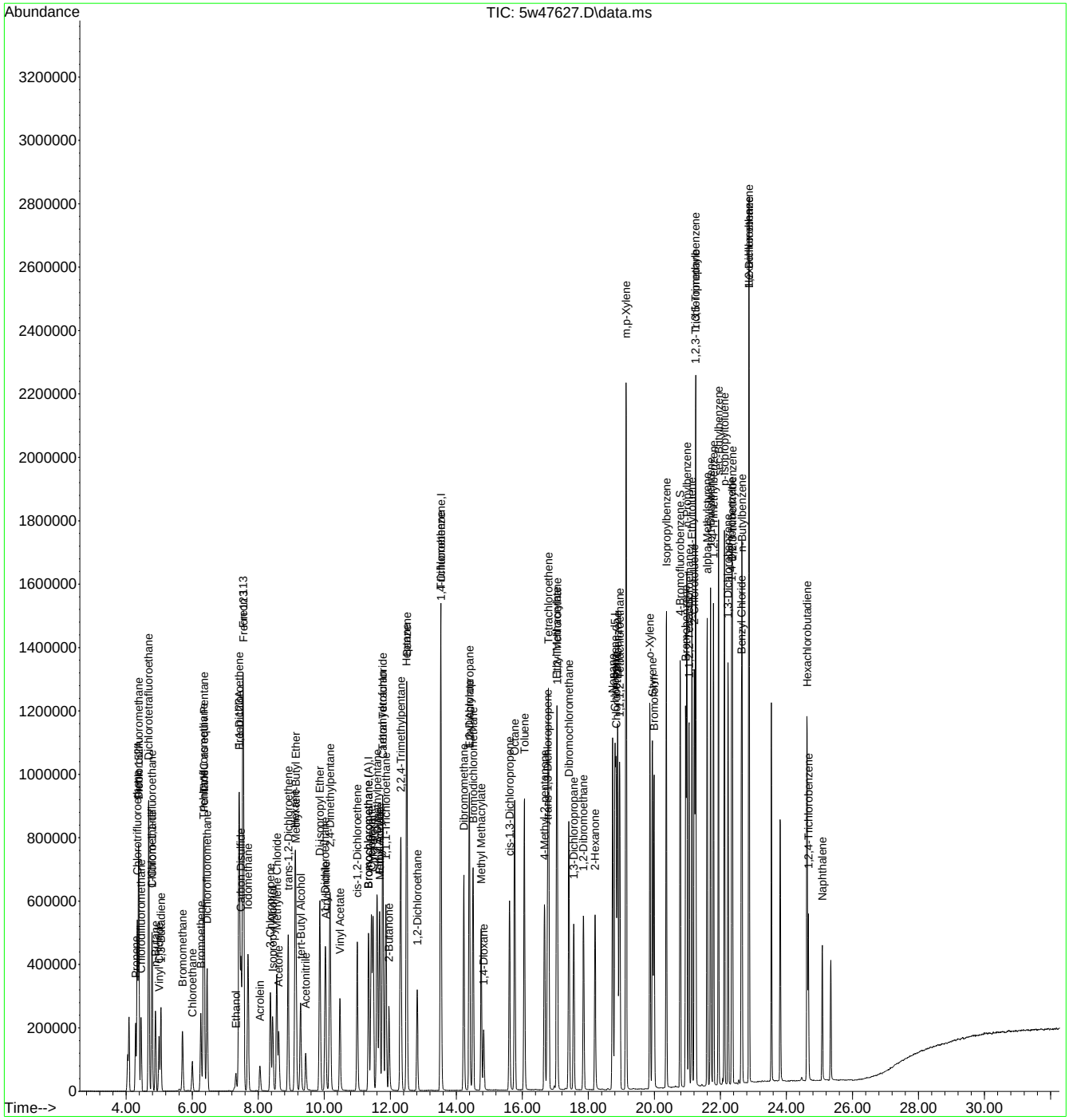
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w47627.D
Acq On : 28 Jan 2022 4:56 am
Operator : thomash
Sample : ecc1966-10
Misc : ms56243,v5w1967,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 06:18:45 2022
Quant Method : C:\msdchem\1\methods\m5w1966.M
Quant Title : TO-15 Full Scan Mode
QLast Update : Thu Jan 27 08:25:37 2022
Response via : Initial Calibration



SGS

TO-15

Batch ID: V2W2529

Date: 12/20/21

Analyst Signature:

Columns: DB-1 30m x 0.4 mm x 0.5µm

Method: V2WTO15.M

Seq. File: V2W2021220.S

Initial Cal. Method: MV2W2529

AS Data

Method: TO15.720H.CTO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9188	Int/Surr	100 ppbv
AS9384	TO15 Std (A496)	40 ppbv
AS9365	TO15 Std (A1261)	1.0 ppbv
AS9381	TO15 LCS (A465)	40 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteri of SGS SOP EQA044.

Supervisor Signature: Date: 12/21/21

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	V2W6779	25		(A1261)	20					OK	time 1124
1	V2W6780	IC2529-0.5		A1261	500			✓	✓	OK	
1	V2W6781	IC2529-0.2		A1261	80			✓	✓	OK	
1	V2W6782	IC2529-0.1		A1261	40			✓	✓	OK	
1	V2W6783	IC2529-0.04		A1261	16			✓	✓	OK	
2	V2W6784	IC2529-5		A496	50			✓	✓	OK	
2	V2W6785	IC2529-10		A496	100			✓	✓	OK	
2	V2W6786	IC2529-20		A496	200			✓	✓	OK	
2	V2W6787	IC2529-40		A496	400			✓	✓	OK	
2	V2W6788	IC2529-50		A496	500			✓	✓	OK	
3	V2W6789	IB		A462	100					OK	
3	V2W6790	IB		A462	100					OK	
4	V2W6791	ICV2529-10		A465	100			✓	✓	OK	
2	V2W6792	IB		A462	100					OK	

12/21/21

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

TO-15

Batch ID: V2W2532

Date: 12/22/21

Analyst Signature:

Columns: DB-1 30m x 0.25 mm ID x 1µm

Method: 2WTO15

Seq. File: 2W20211222.S

Initial Cal. Method: TH 11450 M2W2529

AS Data

Method: TO15,7200A.MTD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9128	Int./Surr.	100 ppbv
AS7384	TO15 STD	40 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteri of SGS SOP EQA044.

Supervisor Signature: Date: 12/23/21

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	2W56842	BFB		4976	400					OK	
2	2W56843	CC2529-10		A976	100			✓	✓	OK	
2	2W56844	BS		A776	100			✓	✓	OK	
2	2W56845	BSD		A976	100			✓	✓	OK	
3	2W56846	IB		A962	100					—	
3	2W56847	MB		A962	400		+	✓	✓	OK	
4	2W56848	SCC CP11480		A831	400			✓	✓	OK	
5	2W56849	SCC CP11403		A220	400			✓	✓	OK	
6	2W56850	JD36667-2	STD M555592	M244	10	1		✓	✓	OK/DL	
7	2W56851	JD36668-9	✓	A1137	20	1		✓	✓	OK/DL	
8	2W56852	JD36666-9	✓	M177, TBAE	40	112		✓	✓	OK/DL	
9	2W56853	JD36666-10	✓	A418, TBAE	100	112				RR	RR 10mL this bag
10	2W56854	JD36666-11	✓	A465, TBAE	200	112		✓	✓	AL/DL	
11	2W56855	JD36677-1	✓	A1386	100	1		✓	✓	AL	
11	2W56856	JD36677-1DUP	✓	A1386	100	1		✓	✓	OK	
12	2W56857	JD36677-2	✓	A1380	100	1					
13	2W56858	JD36677-3	✓	A1390	100	1					
14	2W56859	JD3677-4	✓	A1389	100	1					
15	2W56860	JD36850-5	STD+NAP M553668	A622	100	1					Acetone "1" RR-20mL
16	2W56861	JD36850-6	✓	M422	100	1					
1	2W56862	JD36850-7	✓	A556	100	1					
2	2W56863	JD36850-8	✓	A1103	100	1					
3	2W56864	JD36486-1	STD+ M555527	A1003	400	1					
4	2W56865	JD36487-1	STD M555527	M004	100	1					
5	2W56866	JD36487-2	✓	A649	100	1					
6	2W56867	SCC CP11484		A838	400			✓	✓	OK	
7	2W56868	SCC CP11485		A1382	400			✓	✓	OK	
9	2W56869	JD36666-10		A418, TBAE	10	112				RR	RR 5 mL bag
	~~2W56870~~										
	2W56871							TH	12/23/21		

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

Canister Secondary Dilution Log

Test Gauge ID : TG- 2

			Original Canister Dilution				Secondary Canister Dilution						Final Canister Dilution
Date	Initials	SGS Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor	Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Factor
12/22/21	TH	JD36666-11	A605	1.0	1.2	1.12	TBAG	—	5	→	500	100	112
12/22/21	TH	JD36666-10	A418	1.0	1.2	1.12	TBAG	—	5	→	500	100	112
12/22/21	TH	JD36666-9	A177	1.0	1.2	1.12	TBAG	—	5	→	500	100	112

Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example:

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

SGS

TO-15

Batch ID: V2W2533

Date: 12/23/21

Analyst Signature:

Columns: DB-1 30m×0.25mm×0.5μm
Method: 2WT0:5
Seq. File: 2W20211223.S
Initial Cal. Method: M2W2529.M

AS Data

Method: TO15, 7200A, CTD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
A39188	Int Std/Surr.	100ppbv
A39384	TO15 STD (A976)	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 12/23/21

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	2W56870	BFB		opening position	400					ok	7:44AM
2	2W56871	CC2529-10		A976	100			✓	✓	ok	
2	2W56872	BS		A976	100			✓	✓	ok	
2	2W56873	BSD		A976	100			✓	✓	ok	
3	2W56874	IB		A962	100					—	
3	2W56875	MB		A962	400			✓	✓	ok	
4	2W56876	JD36666-10	STD MS55592	A418, TBAC	5	1/2		✓	✓	ok/DL	
5	2W56877	JD36850-5	STD1,MAP MS55668	A622	20	1		✓	✓	ok/DL	
6	2W56878	JD37175-1	STD MS55816	A1117	100	1		✓	✓	ok	
6	2W56879	JD37175-1DUP	✓	A1117	100	1		✓	✓	ok	
7	2W56880	JD37175-2	✓	A437	100	1		✓	✓	ok	
8	2W56881	JD37175-3	✓	A798	100	1		✓	✓	ok	
9	2W56882	JD37175-4	✓	A796	100	1		✓	✓	ok	
10	2W56883	JD37175-5	✓	A405	100	1		✓	✓	ok	
11	2W56884	JD36518-1	STD MS55541	A1311	400	1		✓	✓	ok	
12	2W56885	JD36518-2	✓	A1308	400	1		✓	✓	ok	
13	2W56886	JD36518-3	✓	A1310	800	3.22		✓	✓	ok	
14	2W56887	JD36520-1	NYSVLL MS55541	A1106	40	1		✓	✓	ok	
15	2W56888	JD36520-2	✓	A789	100	1		✓	✓	ok	
16	2W56889	JD36520-3	✓	A1230	100	1		✓	✓	ok	
1	2W56890	JD36516-1	STD MS55541	M074	100	1		✓	✓	ok	
2	2W56891	IB		A962	100					—	
3	2W56892	JD37305-1	SC	TBAC	20	1				ok	too dilute for SCAL
4 2	2W56893	IB		A962	100					—	
5 3	2W56894	JD37305-1	✓	TBAC	~~200~~ 205	1				not used	
2	2W56895	IB		A962	100					—	
4	2W56896	JD37305-2	✓	TBAC, TBAC	160	500		✓	✓	ok/DL	too dilute for BCAL
2	2W56897	IB		A962	100					—	
5	2W56898	JD36670-1	STD MS55592	A1337	400	1		✓	✓	ok	
6	2W56899	JD36670-2	✓	A1312	400	1		✓	✓	ok	

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

TO-15

Batch ID: V2W2533

Date: 12/23/21

Analyst Signature:

Columns: DB-1 30m*0.25mm*5µm

Method: 2W TO15

Seq. File: 2W20211223_5

Initial Cal. Method: M2W2529M

AS Data

Method: TO15, TO2A, CTD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9188	Int/ Surr.	100ppbv
AS1384	TO15 STD (A976)	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criter of SGS SOP EQA044.

Supervisor Signature: Date: 12/27/21

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
7	2W56900	JD37070-1		A1394	100	1		✓	✓	OM	acetone + non-target
8	2W56901	JD37070-2		A1405	100	1		✓	✓	OM	

TH 12/27/21

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

Canister Secondary Dilution Log

Test Gauge ID : TG- 2

			Original Canister Dilution			
Date	Initials	SGS Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor
12/22/21	TH	JD36666-11	A605	1.0	1.2	1.12
12/22/21	TH	JD36666-10	A418	1.0	1.2	1.12
12/22/21	TH	JD36666-9	M177	1.0	1.2	1.12

Secondary Canister Dilution						Final Canister Dilution
Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Factor
TBAG	—	5	→	500	100	112
TBAG	—	5	→	500	100	112
TBAG	—	5	→	500	100	112

Definition: Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalclulation, # 4 = Analyst's Correction Error

SGS

Canister Secondary Dilution Log

Test Gauge ID : TG- 2

			Original Canister Dilution				Secondary Canister Dilution						
Date	Initials	SGS Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor	Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Final Canister Dilution Factor
12/23/21	TH	JD37305-2	TBAG	—	—	1	TBAG	—	1.0	→	500	500	500

Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example:

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

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SGS

TO-15

Batch ID: V2W2534

Date: 12/27/21

Analyst Signature: TH

Columns: DB-1 30m x 0.25mm x 0.5µm
Method: 2WTO15
Seq. File: 2W2021227.S
Initial Cal. Method: M2W2529.M

AS Data

Method: TO15.7200A.CTP

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS988	Int/Surr.	100 ppbv
AS9384	TO15 STD (A976)	40 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteri of SGS SOP EQA044.

Supervisor Signature: _____ Date: 12/28/21

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	2W56902	BFB		open position	400					SK	
2	2W56903	CC2529-10		A976	100			✓	✓	SK	
2	2W56904	BS		A976	100			✓	✓	SK	
2	2W56905	BSD		A976	100			✓	✓	SK	
3	2W56906	IB		A962	100					—	
3	2W56907	MB		A962	400			✓	✓	SK	
4	2W56908	SCC CP11407		A473	400			✓	✓	SK	
5	2W56909	JD37870-1	SL MS55747	A1394	20	1				not used	
6	2W56910	JD36671-1	NYLL MS55572	A775	500	1		✓	✓	SK	
7	2W56911	JD36671-2	✓	A755	500	1		✓	✓	SK	
8	2W56912	JD36671-3	✓	A197	500	1		✓	✓	SK	
9	2W56913	JD36671-4	✓	M224	500	1		✓	✓	SK	
10	2W56914	JD36671-5	✓	M171	500	1		✓	✓	SK	
11	2W56915	JD36671-6	✓	A253	500	1		✓	✓	SK/DL	ethyl acetate RL 100ppb
12	2W56916	JD36671-7	✓	A816	500	1		✓	✓	DL	
13	2W56917	JD36671-8	✓	A820	500	1		✓	✓	DL	
13	2W56918	JD36671-8DUP	✓	A870	500	1		✓	✓	DL	
14	2W56919	JD36671-9	✓	A280	500	1		✓	✓	DL	
15	2W56920	JD36671-10	✓	A349	500	1		✓	✓	DL	
3	2W56921	IB		A962	100					—	
16	2W56922	JD37385-1	SL MS55850	TBAG	50	1		✓	✓	SK	
3	2W56923	IB		A962	100					—	
1	2W56924	JD37385-2	✓	TBAG	5	1		✓	✓	SK/DL	
3	2W56925	IB		A962	100					—	
2	2W56926	JD36517-1	NYSVLL MS55541	A566	100	1		✓	✓	DL	
4	2W56927	JD36925-1	STD MS55749	A1426	100	1		✓	✓	DL	list change Acetone ↑ TCE RL 20 ug/m3
5	2W56928	JD36925-2	✓ MS55878	A1431	100	1		✓	✓	DL	
								TH	12/28/21		

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

TO-15

Batch ID: V2W2535

Date: 12/28/21

Analyst Signature:

Columns: DB / 30m x 0.25 mm x 1.0 µm

Method: 2WTO15

Seq. File: 2W20211228.S

Initial Cal. Method: M2W2529M

AS Data

Method: TO15, 7200A.CTS

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9188	Int Std	100ppbv
AS9384	TO15 STD (A976)	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 12/28/21

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	2W56929	BFB		opay pass/fail	400			✓		ok	time ok
2	2W56930	CC 2529-10		A976	100			✓	✓	ok	
2	2W56931	BS		A976	100			✓	✓	ok	
2	2W56932	BSD		A976	100			✓	✓	ok	
3	2W56933	IB		A962	100					ok	
3	2W56934	MB		A962	400			✓	✓	ok	
4	2W56935	JD36985-2	STD M355749	AM31	20	1		✓	✓	ok	
5	2W56936	JD36671-6	MYLL M355592	A253	100	1		✓	✓	ok	not used
6	2W56937	JD36669-1	✓	M214	500	1		✓	✓	ok	
7	2W56938	JD36669-2	✓	A1184	500	1		✓	✓	ok	
7	2W56939	JD36669-2 RE	✓	A1184	500	1		✓	✓	ok	
8	2W56940	JD36669-3	✓	M284	500	1		✓	✓	ok/a	RE 4X, MEK
9	2W56941	JD36669-4	✓	A1284	500	1		✓	✓	ok/a	RE 4X, MEK
10	2W56942	~~AIR JD36669-5~~	✓	M169	500	1		✓	✓	ok	
11	2W56943	JD37071-1	STD M355749	A1436	100	1					
12	2W56944	JD37071-2	✓	A1424	100	1					
13	2W56945	JD37071-3	✓	A1416	100	1					
14	2W56946	JD37071-4	✓	A1441	100	1					
15	2W56947	JD37071-5	✓	A1430	100	1					ethyl acetate ↑ RR 20ml
16	2W56948	JD37071-6	✓	A1443	100	1					ethyl acetate ↑ RR 20ml
1	2W56949	JD37071-7	✓	A1440	100	1					
2	2W56950	JD37071-8	✓	A1422	100	1					
3	2W56951	JD37071-9	✓	M377	400	1				RR	wrong volume injected
4	2W56952	SCC CP11488		A794	100			✓	✓	ok	
5	2W56953	SCC CP11488		A385	100			✓	✓	ok	
6	2W56954	SCC CP11488		M431	100			✓	✓	ok	
7	2W56955	SCC CP11486		A1329	400			✓	✓	ok	
8	2W56956	JD36669-3		M284	40	1		✓	✓	ok/dl	
9	2W56957	JD36669-4		A1284	40	1		✓	✓	ok/dl	
									TH	12/29/21	

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

TO-15

Batch ID: V2W2536

Date: 12/29/21

Analyst Signature:

Columns: DB-1 30m x 0.25mm x 0.5µm

Method: 2W TO15

Seq. File: 2W20211229.S

Initial Cal. Method: M2W250329.M

AS Data

Method: TO15, 7200A.CTD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9188	Int'l Surr.	100ppbv
A393184	TO15 STD (A976)	40ppbv
AS9392	TO15 STD (A980)	1.0ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteri of SGS SOP EQA044.

Supervisor Signature: Date: 1/4/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	2W56958	BFB		open system	400					ok	time 7:24AM
2	2W56959	cc 2529-10		A976	100			✓	✓	ok	
2	2W56960	BS		A976	100			✓	✓	ok	
2	2W56961	BSD		A976	400			✓	✓	ok	
3	2W56962	IB		A962	100					—	
3	2W56963	MB		A962	400			✓	✓	ok	
4	2W56964	see CP11490		M162	400					ok	
5	2W56965	see CP11489		A349	400					ok	
6	2W56966	JD18443D-4A	MS55523	A980	16					ok	
6	2W56967	JD18443D-4B	✓	A980	40					ok	
6	2W56968	JD18443D-4C	✓	A980	80					ok	
6	2W56969	JD18460D-4A	MS55520	A980	8					ok	
6	2W56970	JD18460D-4B	✓	A980	16					ok	
6	2W56971	JD18460D-4C	✓	A980	40					ok	
6	2W56972	JD18460D-4D	✓	A980	80					ok	
7	2W56973	JD37071-5	STD MS55749	A1430	20	1		✓	✓	ok/ok	
8	2W56974	JD37071-6	✓	A1443	20	1		✓	✓	ok/ok	
9	2W56975	JD37071-9	✓	M377	400	1		✓	✓	ok/ok	
10	2W56976	JD36855-1	SL MS55468	A1021	400	1		✓	✓	ok	
11	2W56977	JD36855-2	✓	A1339	400	1		✓	✓	ok	
11	2W56978	JD36855-2DUP	✓	A1339	400	1		✓	✓	ok	
12	2W56979	JD36855-3	✓	A1028	400	1		✓	✓	ok	
13	2W56980	JD36855-4	✓	A237	400	1		✓	✓	ok	
14	2W56981	JD37203-1	MSLCS MS55820 4ZA+20	A326	500	1		✓	✓	ok	
15	2W56982	JD37203-2	F142B MS55816	M166	500	1					m 20X CIS 1,2DCE
16	2W56983	JD37203-3	✓	M101	500	1					
1	2W56984	JD37203-4	✓	A878	500	1					
2	2W56985	JD37203-5	✓	M160	500	1					m10Y, acetone
3	2W56986	JD36853-1	STDF MS55822	A746	400	1		✓	✓	ok	
6	2W56987	JD18443D-4D	MSLV MS55523	A980	16						

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

TO-15

Batch ID: V2W2539

Date: 1/4/22

Analyst Signature:

Columns: DB-1 30m x 0.32mm x 0.25µm

Method: ZWJ015

Seq. File: ZW220201041

Initial Cal. Method: MZW2271.M

AS Data

Method: TO15.7208A.CFO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
L-159111	IAT/3mm	100 ppbV
AS1390	TO15 Std (A968)	40 ppbV

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 1/6/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	ZW57041	BFB		OPEN	400			✓	✓		
2	ZW57042	CC2529-10		A968	100			✓	✓		
2	ZW57043	CS		A968	100			✓	✓		
2	ZW57044	CSD		A968	100			✓	✓		
3	ZW57045	IB		A962	100			✓	✓		
3	ZW57046	MB		A962	400		+	✓	✓		
4	ZW57047	SCC CP111497		A742	400	1		✓	✓		
5	ZW57048	JD37194-1	VTO15SL MS557116	A1327	20	1		✓	✓		
6	ZW57049	JD37203-1	VTO15MSL	A326	20	1		✓	✓		
7	ZW57050	JD37203-4	MS557116	A878	40	1		✓	✓		
8	ZW57051	JD37199-1	VTO15CCV MS557116	A291	20	1		✓	✓		
9	ZW57052	JD37201-3	VTO15SL	A226	100	1					not used
10	ZW57053	JD37201-4	MS557116	M409	100	1					not used
11	ZW57054	JD37194-4	VTO15SL	M324	20	1		✓	✓		
12	ZW57055	JD37194-3	MS557116	A537	20	1		✓	✓		
13	ZW57056	JD37194-4		A389	20	1		✓	✓		
14	ZW57057	JD37430-7	VTO15SCCV	M435	100	1	J	✓	✓		
15	ZW57058	JD37430-7dup		M435	100	1		✓	✓		
16	ZW57059	JD37430-8	MS557941	A1155	100	1	+	✓	✓		
16	ZW57060	JD37430-9		A1247	100	1	+	✓	✓		
1	ZW57061	JD37430-10		A963	100	1	+	✓	✓		
2	ZW57062	JD37430-11		A538	100	1	+	✓	✓		
3	ZW57063	JD37430-12		A1135	100	1	+	✓	✓		
4	ZW57064	SCCCP111499		A633	400	1		✓	✓		

TH 1/5/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

TO-15

Batch ID: V2W2558

Date: 1/28/22

Analyst Signature:

Columns: DB-1 30m x 0.25mm x 1µm
Method: 2WTO15.M
Seq. File: 2W20220128.S
Initial Cal. Method: M2W2528.M

AS Data

Method: TO15.7200A.CTD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9188	Int/Surr.	100ppbv
A39411	TO15 STD (A968)	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 1/31/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	2W57472	BFB		[illegible]	400					OK	
2	2W57473	CC2529-10		A968	100			✓	✓	OK	TBA↑
2	2W57474	BS		A968	100			✓	✓	OK	TBA↑
2	2W57475	BSD		A968	100			✓	✓	OK	TBA↑
3	2W57476	IB		A962	100					—	
3	2W57477	MB		A962	400			✓	✓	OK	
4	2W57478	JD38655-1	SC MS56382	A1543	20	1		✓	✓	OK	
5	2W57479	JD38683-1	✓	M033	400	1		✓	✓	OK	
6	2W57480	JD38683-2	✓	A467	400	1		✓	✓	OK	
7	2W57481	JD38683-3	✓	A1476	400	1		✓	✓	OK	
8	2W57482	JD38683-4	✓	A1298	400	1		✓	✓	OK	
9	2W57483	JD38683-5	✓	A1300	400	1		✓	✓	OK	
9	2W57484	JD38683-5DUP	✓	A1300	400	1		✓	✓	OK	
10	2W57485	JD38683-6	✓	A1180	400	1		✓	✓	OK	
11	2W57486	JD38386-1	SC MS56286	A862	400	1		✓	✓	OK	
12	2W57487	JD38386-2	✓	A353	400	1		✓	✓	OK	
13	2W57488	JD38386-3	✓	A428	100	1		✓	✓	OK	
14	2W57489	JD38386-4	✓	A678	100	1		✓	✓	OK	
15	2W57490	SCC CP11534		A256	400			✓	✓	OK	
16	2W57491	SCC CP11529		H225	400			✓	✓	OK	
1	2W57492	SCC CP11540		A1075	400			✓	✓	OK	
2	2W57493	~~SCC CP11553~~ TH 1/28/22	STD MS56243	TH 1/28/22 A1567 A689	400	1		✓	✓	OK	JD38291-4
3	2W57494	~~SCC CP11533~~	✓	TH 1/28/22 A1567 A774	100	1		✓	✓	OK	JD38291-16
4	2W57495	~~SCC CP11553~~ TH 1/28/22	✓	TH 1/28/22 A1567 A185	400	1		✓	✓	OK	JD38291-18
5	2W57496	~~SCC CP11532~~ TH 1/28/22	✓	TH 1/28/22 A345 A886	~~400~~ 100 TH	1		✓	✓	OK	JD38291-19
6	2W57497	SCC CP11532		A245	400			✓	✓	OK	
7	2W57498	CC2529-10		A968	100			✓	✓	OK	
									TH	1/31/22	

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

TO-15

Batch ID: V5W1966

Date: 1/26/22

Analyst Signature:

Columns: 60mx0.25mmx1.4µm

Method: SW-TO15A.M1

Seq. File: SW20220126.S

Initial Cal. Method: MSW1961

MSW1966

AS Data

Method: TO15E.CTD3

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9188	Int/surr	10ppbv
AS9413	TO15 STD. (A976)	40ppbv
AS9418	TO15 Std (A976)	40ppbv
AS9417	TO15 Std (A1261)	1.0ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteri of SGS SOP EQA044.

Supervisor Signature: Date: 1/27/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	SW47584	BFB		open Position	400					PP	
2	SW47585	CC1961-10		A976	100					NG	Retune instrument
1	~~SW47586~~ TH 1/26/22 SW47	BFB		open Area	400						SW47526
2	SW47587	CC1961-10		A976	100					NG	
2	SW47588	CC1961-10		A976	100					NG	Retune make new std
1	SW47589	BFB		Open	400						
2	SW47590	CC1961-10		A976	100					NG	Recalibrate
1	SW47591	BFB		A958	100					OK	
1	SW47592	IC1966-0.5		A1261	200			✓	✓	OK	
1	SW47593	IC1966-0.2		A1261	80			✓	✓	OK	
1	SW47594	IC1966-0.1		A1261	40			✓	✓	OK	
1	SW47595	IC1966-0.04		A1261	16			✓	✓	OK	
2	SW47596	IC1966-5		A976	50			✓	✓	OK	
2	SW47597	IC1966-10		A976	100			✓	✓	OK	
2	SW47598	IC1966-20		A976	200			✓	✓	OK	
2	SW47599	IC1966-40		A976	400			✓	✓	OK	
2	SW47600	IC1966-50		A976	500			✓	✓	OK	
3	SW47601	ICB		A958	100					—	
3	SW47602	ICB		A958	100					—	
4	SW47603	ICV1966-10		A965	100			✓	✓	OK	
3	SW47604	ICB		A958	100					—	
									TH	1/27/22	

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

JJD

TO-15

Batch ID: V5W1967

Date: 1/27/22

Analyst Signature:

Columns: RTX VMS 60mx0.25mmx1.4µm
Method: SW846 15A.M
Seq. File: 5W20220127.S
Initial Cal. Method: M5W1966.M

AS Data
Method: T015E, CTD3

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
A39188	Int/Surr.	100ppbv
AS9413	TO15 Std (A976)	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 1/28/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	SW47605	BFB		OPEN	400					dd	904AM
2	SW47606	CC1966-10		A996	100					RR	Proper ↑
2	SW47607	CC1966-10		A976	100						
2	SW47608	C1966-10		A976	100			✓	✓	dd	
2	SW47609	BS		A976	100			✓	✓	dd	
2	SW47610	BSD		A976	100			✓	✓	dd	
3	SW47611	IB		A958	100					dd	
3	SW47612	MB		A958	400					RR	
3	SW47613	MB		A958	400						
3	SW47614	MB		A958	400			✓	✓	dd	
4	SW47615	JD38291-2	VTO15STD MSS6243	A467	100	1		✓	✓	dd	
4	SW47616	JD38291-2dup		A467	100	1		✓	✓	dd	
5	SW47617	JD38291-3		M253	100	1		✓	✓	dd	
6	SW47618	JD38291-6		A890	100	1		✓	✓	dd	
7	SW47619	JD38291-7		A1051	100	1		✓	✓	dd	
8	SW47620	JD38291-8		A864	100	1		✓	✓	dd	
9	SW47621	JD38291-9		A341	100	1		✓	✓	dd	
10	SW47622	JD38291-10		A184	100	1		✓	✓	dd	
11	SW47623	JD38291-11		A813	100	1		✓	✓	dd	
12	SW47624	JD38291-12		A1168	100	1		✓	✓	dd	
13	SW47625	JD38291-14		A454	100	1		✓	✓	dd	
14	SW47626	JD38291-15		A443	100	1		✓	✓	dd	
2	SW47627	CCC1966-10		A976	100			✓	✓	dd	

1/28/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

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The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Bhate Environmental Associates, Inc.

BECOS Former Griffiss AFB, Rome, NY

SGS Job Number: JD38291

Sampling Date: 01/14/22



Report to:

Bhate Environmental Associates, Inc.
445 Union Blvd Suite 129
Lakewood, CO 80228
molive@bhate.com

ATTN: Marcia Olive

Total number of pages in report: **153**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Please share your ideas about how we can serve you better at:
EHS.US.CustomerCare@sgs.com

March 4, 2022

Ms. Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Suite 129
Lakewood, CO 80228

RE: SGS – Dayton, Job # JD38291 - Reissues

Dear Ms. Olive,

The final report for SGS job number JD38291 has been edited to reflect corrections to the results. These edits have been incorporated into the revised report which is attached.

Specifically, results of VTO15SIMSL have been omitted from samples JD38291-2, -3, -4, -7, -8, -9, -10,-11, -12, -14, -15, -16, -18, and -19. The relogged VTO15SL were reported from an R job as per requested. The attached revised report incorporates these revisions.

SGS apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc.

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Sample Summary

Bhate Environmental Associates, Inc.

Job No: JD38291

BECOS Former Griffiss AFB, Rome, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD38291-1	01/14/22	08:17	GC	01/17/22	AIR	Indoor Air Comp.	786-IA-1_011422
JD38291-2	01/14/22	08:18	GC	01/17/22	AIR	Soil Vapor Comp.	786-VMP-2_011422
JD38291-3	01/14/22	08:13	GC	01/17/22	AIR	Soil Vapor Comp.	786-VMP-3_011422
JD38291-4	01/14/22	08:27	GC	01/17/22	AIR	Ambient Air Comp.	785-OA-1_011422
JD38291-5	01/14/22	08:39	GC	01/17/22	AIR	Indoor Air Comp.	785-IA-1_011422
JD38291-6	01/14/22	08:34	GC	01/17/22	AIR	Soil Vapor Comp.	785-VMP-2_011422
JD38291-7	01/14/22	08:37	GC	01/17/22	AIR	Soil Vapor Comp.	785-VMP-4_011422
JD38291-8	01/14/22	08:42	GC	01/17/22	AIR	Soil Vapor Comp.	785-VMP-5_011422
JD38291-9	01/14/22	08:34	GC	01/17/22	AIR	Soil Vapor Comp.	785-VMP-2_011422-A
JD38291-10	01/14/22	15:19	GC	01/17/22	AIR	Soil Vapor Comp.	774-VMP-1_011422
JD38291-11	01/14/22	15:15	GC	01/17/22	AIR	Soil Vapor Comp.	774-VMP-2_011422
JD38291-12	01/14/22	15:17	GC	01/17/22	AIR	Soil Vapor Comp.	774-VMP-3_011422
JD38291-13	01/14/22	15:18	GC	01/17/22	AIR	Indoor Air Comp.	774-IA-1_011422

Sample Summary
(continued)

Bhate Environmental Associates, Inc.

Job No: JD38291

BECOS Former Griffiss AFB, Rome, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD38291-14	01/14/22	15:52	GC	01/17/22	AIR	Soil Vapor Comp.	776-VMP-1_011422
JD38291-15	01/14/22	15:43	GC	01/17/22	AIR	Soil Vapor Comp.	776-VMP-2_011422
JD38291-16	01/14/22	15:58	GC	01/17/22	AIR	Soil Vapor Comp.	776-VMP-3_011422
JD38291-17	01/14/22	15:47	GC	01/17/22	AIR	Indoor Air Comp.	776-IA-1_011422
JD38291-18	01/14/22	15:26	GC	01/17/22	AIR	Ambient Air Comp.	774-OA-1_011422
JD38291-19	01/14/22	15:43	GC	01/17/22	AIR	Soil Vapor Comp.	776-VMP-2_011422_A

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Bhate Environmental Associates, Inc.	**Job No:**	JD38291
Site:	BECOS Former Griffiss AFB, Rome, NY	**Report Date**	3/4/2022 11:19:55 AM

On 01/17/2022, 4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. A SGS North America Inc. Job Number of JD38291 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method TO-15 (BY SIM)

Matrix: AIR **Batch ID:** V6W1016

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD38295-3DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for cis-1,2-Dichloroethylene are outside control limits.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD38291
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
JD38291-1	**786-IA-1_011422**					
Benzene		0.20	0.0050	0.0025	ppbv	TO-15 (BY SIM)
Carbon tetrachloride		0.048	0.0050	0.0020	ppbv	TO-15 (BY SIM)
Benzene		0.64	0.016	0.0080	ug/m3	TO-15 (BY SIM)
Carbon tetrachloride		0.30	0.031	0.013	ug/m3	TO-15 (BY SIM)
JD38291-5	**785-IA-1_011422**					
Benzene		0.26	0.0050	0.0025	ppbv	TO-15 (BY SIM)
Carbon tetrachloride		0.050	0.0050	0.0020	ppbv	TO-15 (BY SIM)
Tetrachloroethylene		0.011	0.0020	0.0015	ppbv	TO-15 (BY SIM)
Trichloroethylene		0.0077	0.0020	0.0015	ppbv	TO-15 (BY SIM)
Benzene		0.83	0.016	0.0080	ug/m3	TO-15 (BY SIM)
Carbon tetrachloride		0.31	0.031	0.013	ug/m3	TO-15 (BY SIM)
Tetrachloroethylene		0.075	0.014	0.010	ug/m3	TO-15 (BY SIM)
Trichloroethylene		0.041	0.011	0.0081	ug/m3	TO-15 (BY SIM)
JD38291-13	**774-IA-1_011422**					
Benzene		0.12	0.0050	0.0025	ppbv	TO-15 (BY SIM)
Carbon tetrachloride		0.049	0.0050	0.0020	ppbv	TO-15 (BY SIM)
Tetrachloroethylene		0.0079	0.0020	0.0015	ppbv	TO-15 (BY SIM)
Trichloroethylene		0.014	0.0020	0.0015	ppbv	TO-15 (BY SIM)
Benzene		0.38	0.016	0.0080	ug/m3	TO-15 (BY SIM)
Carbon tetrachloride		0.31	0.031	0.013	ug/m3	TO-15 (BY SIM)
Tetrachloroethylene		0.054	0.014	0.010	ug/m3	TO-15 (BY SIM)
Trichloroethylene		0.075	0.011	0.0081	ug/m3	TO-15 (BY SIM)
JD38291-17	**776-IA-1_011422**					
Benzene		0.14	0.0050	0.0025	ppbv	TO-15 (BY SIM)
Carbon tetrachloride		0.053	0.0050	0.0020	ppbv	TO-15 (BY SIM)
cis-1,2-Dichloroethylene		0.15	0.0020	0.0020	ppbv	TO-15 (BY SIM)
Tetrachloroethylene		0.98	0.080	0.060	ppbv	TO-15 (BY SIM)
Trichloroethylene		0.44	0.0020	0.0015	ppbv	TO-15 (BY SIM)
Benzene		0.45	0.016	0.0080	ug/m3	TO-15 (BY SIM)
Carbon tetrachloride		0.33	0.031	0.013	ug/m3	TO-15 (BY SIM)
cis-1,2-Dichloroethylene		0.59	0.0079	0.0079	ug/m3	TO-15 (BY SIM)
Tetrachloroethylene		6.6	0.54	0.41	ug/m3	TO-15 (BY SIM)
Trichloroethylene		2.4	0.011	0.0081	ug/m3	TO-15 (BY SIM)

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	786-IA-1_011422		
Lab Sample ID:	JD38291-1	**Date Sampled:**	01/14/22
Matrix:	AIR - Indoor Air Comp. Summa ID: A1111	**Date Received:**	01/17/22
Method:	TO-15 (BY SIM)	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6W23750.D	1	01/21/22 22:06	TCH	n/a	n/a	V6W1016
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
71-43-2	78.11	Benzene	0.20	0.0050	0.0025	0.0021	ppbv		0.64	0.016	0.0080	0.0067	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.048	0.0050	0.0020	0.00060	ppbv		0.30	0.031	0.013	0.0038	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.0010 U	0.0020	0.0010	0.00060	ppbv		0.0040 U	0.0079	0.0040	0.0024	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.0020 U	0.0020	0.0020	0.0020	ppbv		0.0079 U	0.0079	0.0079	0.0079	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.0010 U	0.0050	0.0010	0.00050	ppbv		0.0055 U	0.027	0.0055	0.0027	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.0015 U	0.0020	0.0015	0.0011	ppbv		0.010 U	0.014	0.010	0.0075	ug/m3
79-01-6	131.4	Trichloroethylene	0.0015 U	0.0020	0.0015	0.0014	ppbv		0.0081 U	0.011	0.0081	0.0075	ug/m3
75-01-4	62.5	Vinyl chloride	0.0015 U	0.0020	0.0015	0.0011	ppbv		0.0038 U	0.0051	0.0038	0.0028	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	785-IA-1_011422		
Lab Sample ID:	JD38291-5	**Date Sampled:**	01/14/22
Matrix:	AIR - Indoor Air Comp. Summa ID: A775	**Date Received:**	01/17/22
Method:	TO-15 (BY SIM)	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6W23751.D	1	01/21/22 22:57	TCH	n/a	n/a	V6W1016
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
71-43-2	78.11	Benzene	0.26	0.0050	0.0025	0.0021	ppbv		0.83	0.016	0.0080	0.0067	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.050	0.0050	0.0020	0.00060	ppbv		0.31	0.031	0.013	0.0038	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.0010 U	0.0020	0.0010	0.00060	ppbv		0.0040 U	0.0079	0.0040	0.0024	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.0020 U	0.0020	0.0020	0.0020	ppbv		0.0079 U	0.0079	0.0079	0.0079	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.0010 U	0.0050	0.0010	0.00050	ppbv		0.0055 U	0.027	0.0055	0.0027	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.011	0.0020	0.0015	0.0011	ppbv		0.075	0.014	0.010	0.0075	ug/m3
79-01-6	131.4	Trichloroethylene	0.0077	0.0020	0.0015	0.0014	ppbv		0.041	0.011	0.0081	0.0075	ug/m3
75-01-4	62.5	Vinyl chloride	0.0015 U	0.0020	0.0015	0.0011	ppbv		0.0038 U	0.0051	0.0038	0.0028	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	774-IA-1_011422		
Lab Sample ID:	JD38291-13	**Date Sampled:**	01/14/22
Matrix:	AIR - Indoor Air Comp. Summa ID: A898	**Date Received:**	01/17/22
Method:	TO-15 (BY SIM)	**Percent Solids:**	n/a
Project:	BECOS Former Griffiss AFB, Rome, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6W23752.D	1	01/21/22 23:48	TCH	n/a	n/a	V6W1016
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
71-43-2	78.11	Benzene	0.12	0.0050	0.0025	0.0021	ppbv		0.38	0.016	0.0080	0.0067	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.049	0.0050	0.0020	0.00060	ppbv		0.31	0.031	0.013	0.0038	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.0010 U	0.0020	0.0010	0.00060	ppbv		0.0040 U	0.0079	0.0040	0.0024	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.0020 U	0.0020	0.0020	0.0020	ppbv		0.0079 U	0.0079	0.0079	0.0079	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.0010 U	0.0050	0.0010	0.00050	ppbv		0.0055 U	0.027	0.0055	0.0027	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.0079	0.0020	0.0015	0.0011	ppbv		0.054	0.014	0.010	0.0075	ug/m3
79-01-6	131.4	Trichloroethylene	0.014	0.0020	0.0015	0.0014	ppbv		0.075	0.011	0.0081	0.0075	ug/m3
75-01-4	62.5	Vinyl chloride	0.0015 U	0.0020	0.0015	0.0011	ppbv		0.0038 U	0.0051	0.0038	0.0028	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		65-128%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: 776-IA-1_011422
Lab Sample ID: JD38291-17
Matrix: AIR - Indoor Air Comp. Summa ID: A780
Method: TO-15 (BY SIM)
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 01/14/22
Date Received: 01/17/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6W23753.D	1	01/22/22 00:40	TCH	n/a	n/a	V6W1016
Run #2	6W23763.D	1	01/24/22 14:15	TCH	n/a	n/a	V6W1016

	Initial Volume
Run #1	400 ml
Run #2	10.0 ml

VOA Special List

CAS No.	MW	Compound	Result	LOQ	LOD	DL	Units	Q	Result	LOQ	LOD	DL	Units
71-43-2	78.11	Benzene	0.14	0.0050	0.0025	0.0021	ppbv		0.45	0.016	0.0080	0.0067	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.053	0.0050	0.0020	0.00060	ppbv		0.33	0.031	0.013	0.0038	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.0010 U	0.0020	0.0010	0.00060	ppbv		0.0040 U	0.0079	0.0040	0.0024	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.15	0.0020	0.0020	0.0020	ppbv		0.59	0.0079	0.0079	0.0079	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.0010 U	0.0050	0.0010	0.00050	ppbv		0.0055 U	0.027	0.0055	0.0027	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.98 [a]	0.080	0.060	0.044	ppbv		6.6 [a]	0.54	0.41	0.30	ug/m3
79-01-6	131.4	Trichloroethylene	0.44	0.0020	0.0015	0.0014	ppbv		2.4	0.011	0.0081	0.0075	ug/m3
75-01-4	62.5	Vinyl chloride	0.0015 U	0.0020	0.0015	0.0011	ppbv		0.0038 U	0.0051	0.0038	0.0028	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%	96%	65-128%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- Internal Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

Parameter Certification Exceptions

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Benzene	71-43-2	**TO-15 (BY SIM)**	AIR	SGS is not certified for this parameter.[a]
Carbon tetrachloride	56-23-5	**TO-15 (BY SIM)**	AIR	SGS is not certified for this parameter.[a]
1,1-Dichloroethylene	75-35-4	**TO-15 (BY SIM)**	AIR	SGS is not certified for this parameter.[a]
1,1,2-Trichloroethane	79-00-5	**TO-15 (BY SIM)**	AIR	SGS is not certified for this parameter.[a]
Tetrachloroethylene	127-18-4	**TO-15 (BY SIM)**	AIR	SGS is not certified for this parameter.[a]
Trichloroethylene	79-01-6	**TO-15 (BY SIM)**	AIR	SGS is not certified for this parameter.[a]
Vinyl chloride	75-01-4	**TO-15 (BY SIM)**	AIR	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

AIR CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

PAGE 1 OF

AIR

FED EX Tracking # 5272 8637 | Bottle Order Control # TMW-011722-103
SGS Quote # | SGS Job # JD 38291

Client / Reporting Information

Company Name: Bhate
Address: 445 Union Blvd Ste 129
City: Lakewood | State: CO | Zip: 80226
Project Contact: Marcia Olive | E-mail: molive@bhate.com
Phone #: 303-597-2450 | Fax #:
Sampler(s) Name(s): G. Carmichael, B. Bellard

Project Information

Project Name: Griffiss - SVI
Street: SAME
City: | State:
Project #:
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: | Maximum:
Stop: | Minimum:
Atmoshpheric Pressure (inches of Hg)
Start: | Maximum:
Stop: | Minimum:
Other weather comment:

Requested Analysis

TO15 - VOCs

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor (I) Soil Vap (SV) Ambient (A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.
1	786IA-1_011322	I	A1111	6L	MC134	1/13/22	1745	-27	70		01/14/22	0817	0	68	BP
GC	~~786VMP-1_011322~~	SV	~~A889~~		~~FC566~~			-2							
2	786VMP-2_011322	SV	A667	6L	FC916	1/13/22	1750	-29		GC	01/14/22	0818	0	68	BP
3	786VMP-3_011322	SV	M253		FC421	1/13/22	1735	-28	↓	GC	01/14/22	0813	0	68	BP
4	785/786-OA-011322	A	A889		FC566	1/13/22	1800	-28	34	BP	01/14/22	0827	0	27	BP
5	785IA-1_011322	I	A775		5C917	1/13/22	1658	-28	68°	BP	01/14/22	0839	0	68	BP
6	785VMP-2_011322	SV	A890		MC215	1/13/22	1644	-27		GC	01/14/22	0834	0	68	BP
7	785VMP-4_011322	SV	A1051		FC446	1/13/22	1704	-30		BP	01/14/22	0837	0	68	BP
8	785VMP-5_011322	SV	A864		FC484	1/13/22	1712	~26		GC	01/14/22	0842	6	68	BP
9	785VMP-2_011322-D	SV	A341	↓	FC902	1/13/22	1644	-27	↓	BP	01/14/22	0844	3	68	BP

SUMMA

Turnaround Time (Business days)

X Standard - 15 Days
10 Day
5 Day
3 Day
2 Day
1 Day
Other

Approved By:
Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1
Other:
DKQP reporting

Comments / Remarks

Initial Assessment: IJ 413
Label Verification:
Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Laboratory	Date Time:	Received By:
1		1/14/22 1100	
	Relinquished by:	Date Time:	Received By:
		1/14/22 1700	
	Relinquished by:	Date Time:	Received By:
5			

	Relinquished By:	Date Time:	Received By:
2			
	Relinquished By:	Date Time: 1/17/22 11:00	Received By:
	Custody Seal #	19198, 19200, 19194, 19196, 19202	

Form:SM088-03D (revised 2-12-18)

http://www.sgs.com/en/terms-and-conditions

AIR CHAIN OF CUSTODY

PAGE 2 OF 2

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #: | Bottle Order Control #: MM-SVI22-103
SGS Quote #: | SGS Job #:

Client / Reporting Information

Company Name: Shate
Address: 445 Union Blvd Ste. 129
City: Lakewood State: CO Zip: 80226
Project Contact: Marsia Olive E-mail: molive@shate.com
Phone #: 303-597-2455 Fax #:
Sampler(s) Name(s): G. Carmichael, Brianna Pollard

Project Information

Project Name: Griffiss-SVI
Street: ← SAME →
City: State:
Project #:
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: Maximum:
Stop: Minimum:
Atmoshpheric Pressure (inches of Hg)
Start: Maximum:
Stop: Minimum:
Other weather comment:

Requested Analysis

TO15 - VOCs

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor (I) Soil Vap (SV) Ambient (A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	TO15 - VOCs
10	774VMP-1_011422	SV	A184	6L	FC227	01/14/22	0706	-29	70	BP	1/14/22	1519	0	70	BP	X
11	774VMP-2_01422	SV	A813		FC905	01/14/22	0715	-30	70	BP	1/14/22	1515	3	70	BP	
12	774VMP-3_011422	SV	A1168		FC437	01/14/22	0712	-29	70	BP	1/14/22	1517	0	70	BP	
13	774IA-1_011422	I	A898		FC346	01/14/22	0717	-28	70	BP	1/14/22	1518	3	70	BP	
14	776VMP-1_011422	SV	A454		MC055	01/14/22	0752	-29	70	BP	1/14/22	1550	0	70	BP	BP
15	776VMP-2_011422	SV	A443		FC1052	1/14/22	0743	-30	70	BP	1/14/22	1543	0	70	BP	
16	776VMP-3_011422	SV	A774		FC199	01/14/22	0758	-27	70	BP	1/14/22	1558	0	70	BP	
17	776IA-1_011422	I	A780		MC228	01/14/22	0747	-29	70	BP	1/14/22	1547	1	70	BP	
18	774/776OA_011422	A	A183		FC1006	01/14/22	0726	-29	27	BP	1/14/22	1526	0	20	BP	
19	776VMP-2_011422a	SV	A832	↓	FC131	01/14/22	0743	-30	70	BP	1/14/22	1543	0	70	BP	↓

Turnaround Time (Business days)

- [x] Standard - 15 Days
- [ ] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Other

Approved By:
Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

- Comm A
- Comm B
- Reduced T2
- Full T1
- Other:
- DKQP reporting

Comments / Remarks

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	1/14/22 1100	1	2		2
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3	1/14/22 1700	3	4	1/14/22 1700	4
Relinquished by:	Date Time:	Received By:	Custody Seal #		
5		5			

Form:SM088-03D (revised 2-12-18)

http://www.sgs.com/en/terms-and-conditions

SGS

AIR SAMPLING EQUIPMENT RETURN FORM

CLIENT: Shaw

PROJECT: Guthrie - SVE

CONTRACT# AM-01722-100

JOB # JD38291

ADDITIONAL SUMMA CANISTERS

20 M243

21 T- Splitter

22 T- Splitter

ADDITIONAL CONTROLLERS

FC101

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:
1 Fedex	1/17/19 11:00	2 Jesmir Pua	
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:
3		4	
CUSTODY SEAL #'S:		# OF BOXES OR PIECES IN DELIVERY	

NOTES:

SM086-03
Pub date: 3/12/18

5.2 5

SGS Sample Receipt Summary

Job Number: JD38291 **Client:** BHATE ENVIRONMENTAL ASSOCIATES, **Project:** GAFB, SUBSLAB AND OUTDOOR

Date / Time Received: 1/17/2022 11:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control _Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Job Change Order: JD38291

Requested Date: 2/15/2022 **Received Date:** 1/17/2022

Account Name: Bhate Environmental Associates, I **Due Date:** 2/15/2022

Project Description: BECOS Former Griffiss AFB, Rome, NY **Deliverable:** FULT1

C/O Initiated By: MARIE.MEID **PM:** MM **TAT (Days):** 2

==========

Sample #: JD38291-2-4,6-12,14-16,18-19 **Change:**
Relog/retrieve/revise the analyte list to VRTO15SL and VMS+NAP

Dept:

TAT: 2

==========

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Sample #: JD38291-1,5,13,17 **Change:**
Revise TO-15 SIM list to include cis-1,2-DCE and to report only Benzen CTC, 1,1-DCE, 1,1,2-TCA, PCE, TCE, and VC

Dept:

TAT: 2

==========

Above Changes Per: M. Olive **Date/Time:** 2/15/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD38291: Chain of Custody
Page 5 of 6

Job Change Order: JD38291

Requested Date: 3/3/2022 **Received Date:** 1/17/2022

Account Name: Bhate Environmental Associates, I **Due Date:** 3/3/2022

Project Description: BECOS Former Griffiss AFB, Rome, NY **Deliverable:** FULT1

C/O Initiated By: MARIE.MEID **PM:** MM **TAT (Days):** 1

==========

Sample #: JD38291-2,3,4,6,7,8,9,10,11 **Change:**
No out data; SL is reported in JD38291R

Dept:

TAT: 1

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Sample #: JD38291-12,14,15,16,18,19 **Change:**
No out data; SL is reported in JD38291R

Dept:

TAT: 1

==========

Above Changes Per: **Date/Time:** 3/3/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD38291: Chain of Custody
Page 6 of 6

Summa Canister and Flow Controller Log

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Received: 01/17/22

SUMMA CANISTERS

Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A1111	6	29.4	01/11/22	WC	CP11472	6W23472.D	JD38291-1	01/19/22	SG	0			1
A667	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-2	01/19/22	SG	0			1
M253	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-3	01/19/22	SG	0			1
A889	6	29.4	01/11/22	WC	CP11487	2W56908.D	JD38291-4	01/19/22	SG		.4		1
A775	6	29.4	01/11/22	WC	CP11472	6W23472.D	JD38291-5	01/19/22	SG	0			1
A890	6	29.4	01/11/22	WC	CP11486	2W56955.D	JD38291-6	01/19/22	SG	0			1
A1051	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-7	01/26/22	SG	0			1
A864	6	29.4	01/11/22	WC	CP11486	2W56955.D	JD38291-8	01/19/22	SG	0			1
A341	6	29.4	01/11/22	WC	CP11487	2W56908.D	JD38291-9	01/19/22	SG	.1			1
A184	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-10	01/21/22	MJ	1.5			1
A813	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-11	01/19/22	SG	3			1
A1168	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-12	01/19/22	SG	3.5			1
A898	6	29.4	01/11/22	WC	CP11472	6W23472.D	JD38291-13	01/19/22	SG	4			1
A454	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-14	01/21/22	MJ	1			1
A443	6	29.4	01/11/22	WC	CP11499	2W57064.D	JD38291-15	01/26/22	SG	1			1
A774	6	29.4	01/11/22	WC	CP11485	2W56868.D	JD38291-16	01/19/22	SG	0			1
A780	6	29.4	01/11/22	WC	CP11472	6W23472.D	JD38291-17	01/19/22	SG	1.5			1
A183	6	29.4	01/11/22	WC	CP11486	2W56955.D	JD38291-18	01/21/22	MJ		.6		1
A832	6	29.4	01/11/22	WC	CP11487	2W56908.D	JD38291-19	01/21/22	MJ	1.5			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
FC131	01/11/22	WC	10.4	8	01/19/22	SG	11.1	6.5	Flow Controller
FC227	01/11/22	WC	10.5	8	01/19/22	SG	10.6	0.9	Flow Controller
FC346	01/11/22	WC	10.4	8	01/18/22	MJ	10.7	2.8	Flow Controller
FC421	01/11/22	WC	10.4	8	01/19/22	SG	10.7	2.8	Flow Controller
FC437	01/11/22	WC	10.4	8	01/19/22	SG	11.2	7.4	Flow Controller
FC484	01/11/22	WC	10.3	8	01/19/22	SG	10.7	3.8	Flow Controller
FC566	01/11/22	WC	10.5	8	01/19/22	SG	9.9	5.9	Flow Controller
FC646	01/11/22	WC	10.4	8	01/18/22	MJ	10.7	2.8	Flow Controller
FC902	01/11/22	WC	10.4	8	01/18/22	MJ	10.7	2.8	Flow Controller
FC907	01/11/22	WC	10.3	8	01/18/22	MJ	10.5	1.9	Flow Controller
FC916	01/11/22	WC	10.5	8	01/18/22	MJ	10.3	1.9	Flow Controller
FC917	01/11/22	WC	10.4	8	01/18/22	MJ	10.7	2.8	Flow Controller
MC055	01/11/22	WC	10.5	8	01/19/22	MJ	11.8	11.7	Flow Controller
MC134	01/11/22	WC	10.4	8	01/07/22	MJ	12.1	15.1	Flow Controller
MC199	01/11/22	WC	10.4	8	01/18/22	MJ	12	14.3	Flow Controller
MC215	01/11/22	WC	10.4	8	01/18/22	MJ	12.6	19.1	Flow Controller

Summa Canister and Flow Controller Log

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Received: 01/17/22

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
MC228	01/11/22	WC	10.5	8	01/18/22	MJ	10.7	1.9	Flow Controller
FC1006	01/11/22	WC	10.4	8	01/19/22	SG	10.7	2.8	Flow Controller
FC1007	01/11/22	WC	10.4	8	01/18/22	MJ	10.8	3.8	Flow Controller
FC1011	01/11/22	WC	10.3	8	01/19/22	SG	10.7	3.8	Flow Controller

SGS Bottle Order(s):
MM-01722-102
MM-01722-103

Prep Date	Room Temp(F)	Bar Pres "Hg
01/11/22	70	29.92

Internal Sample Tracking Chronicle

Bhate Environmental Associates, Inc.

Job No: JD38291

BECOS Former Griffiss AFB, Rome, NY

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD38291-1	Collected: 14-JAN-22 08:17 By: GC 786-IA-1_011422		Received: 17-JAN-22 By: JP			
JD38291-1	TO-15 (BY SIM)	21-JAN-22 22:06	TCH			VTO15SIMSL
JD38291-5	Collected: 14-JAN-22 08:39 By: GC 785-IA-1_011422		Received: 17-JAN-22 By: JP			
JD38291-5	TO-15 (BY SIM)	21-JAN-22 22:57	TCH			VTO15SIMSL
JD38291-13	Collected: 14-JAN-22 15:18 By: GC 774-IA-1_011422		Received: 17-JAN-22 By: JP			
JD38291-13	TO-15 (BY SIM)	21-JAN-22 23:48	TCH			VTO15SIMSL
JD38291-17	Collected: 14-JAN-22 15:47 By: GC 776-IA-1_011422		Received: 17-JAN-22 By: JP			
JD38291-17	TO-15 (BY SIM)	22-JAN-22 00:40	TCH			VTO15SIMSL
JD38291-17	TO-15 (BY SIM)	24-JAN-22 14:15	TCH			VTO15SIMSL

SGS Internal Chain of Custody

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Received: 01/17/22

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD38291-1.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-1.1	Dave Hunkele		03/03/22 06:44	Disposed
JD38291-1.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-1.2	Dave Hunkele		03/03/22 06:44	Disposed
JD38291-2.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-2.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-3.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-3.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-4.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-4.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-5.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-5.1	Dave Hunkele		03/03/22 06:44	Disposed
JD38291-5.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-5.2	Dave Hunkele		03/03/22 06:44	Disposed
JD38291-6.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-6.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-7.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-7.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-8.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-8.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-9.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-9.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-10.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-10.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage

SGS Internal Chain of Custody

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Received: 01/17/22

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD38291-11.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-11.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-12.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-12.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-13.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-13.1	Dave Hunkele		03/03/22 06:44	Disposed
JD38291-13.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-13.2	Dave Hunkele		03/03/22 06:44	Disposed
JD38291-14.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-14.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-15.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-15.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-16.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-16.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-17.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-17.1	Dave Hunkele		03/03/22 06:44	Disposed
JD38291-17.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-17.2	Dave Hunkele		03/03/22 06:44	Disposed
JD38291-18.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-18.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-19.1	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage
JD38291-19.2	Epiphania Njoku	Air Storage	01/17/22 17:23	Return to Storage

QC Evaluation: DOD QSM5.x Limits

Job Number: JD38291
Account: Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY
Collected: 01/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No DOD QSM5.x Limits Found.

* Sample used for QC is not from job JD38291

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1016-MB	6W23746.D	1	01/21/22	TCH	n/a	n/a	V6W1016

The QC reported here applies to the following samples: **Method:** TO-15 (BY SIM)

JD38291-1, JD38291-5, JD38291-13, JD38291-17

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
71-43-2	Benzene	ND	0.0050	0.0021	ppbv		ND	0.016	ug/m3
56-23-5	Carbon tetrachloride	ND	0.0050	0.00060	ppbv		ND	0.031	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00060	ppbv		ND	0.0079	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.0020	0.0020	ppbv		ND	0.0079	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.0050	0.00050	ppbv		ND	0.027	ug/m3
127-18-4	Tetrachloroethylene	ND	0.0020	0.0011	ppbv		ND	0.014	ug/m3
79-01-6	Trichloroethylene	ND	0.0020	0.0014	ppbv		ND	0.011	ug/m3
75-01-4	Vinyl chloride	ND	0.0020	0.0011	ppbv		ND	0.0051	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	97%	65-128%

Method Blank Summary

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1016-MB2	6W23760.D	1	01/24/22	TCH	n/a	n/a	V6W1016

The QC reported here applies to the following samples: **Method:** TO-15 (BY SIM)

JD38291-17

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
127-18-4	Tetrachloroethylene	ND	0.0020	0.0011	ppbv		ND	0.014	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	96%	65-128%

Method Blank Summary

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W998-MB	6W23471.D	1	12/17/21	DFT	n/a	n/a	V6W998

The QC reported here applies to the following samples: **Method:** TO-15 (BY SIM)

V6W998-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
71-43-2	Benzene	ND	0.0050	0.0021	ppbv		ND	0.016	ug/m3
56-23-5	Carbon tetrachloride	ND	0.0050	0.00060	ppbv		ND	0.031	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00060	ppbv		ND	0.0079	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20		ppbv		ND	0.79	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.0050	0.00050	ppbv		ND	0.027	ug/m3
127-18-4	Tetrachloroethylene	ND	0.0020	0.0011	ppbv		ND	0.014	ug/m3
79-01-6	Trichloroethylene	ND	0.0020	0.0014	ppbv		ND	0.011	ug/m3
75-01-4	Vinyl chloride	ND	0.0020	0.0011	ppbv		ND	0.0051	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1016-BS	6W23743.D	1	01/21/22	TCH	n/a	n/a	V6W1016
V6W1016-BSD	6W23744.D	1	01/21/22	TCH	n/a	n/a	V6W1016

The QC reported here applies to the following samples: **Method:** TO-15 (BY SIM)

JD38291-1, JD38291-5, JD38291-13, JD38291-17

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.01	0.011	110	0.010	100	10	70-130/30
56-23-5	Carbon tetrachloride	0.01	0.011	110	0.011	110	0	70-130/30
75-35-4	1,1-Dichloroethylene	0.01	0.011	110	0.011	110	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	0.010	0*	0.010	0*	0	70-130/30
79-00-5	1,1,2-Trichloroethane	0.01	0.011	110	0.011	110	0	70-130/30
127-18-4	Tetrachloroethylene	0.01	0.0093	93	0.0081	81	14	70-130/30
79-01-6	Trichloroethylene	0.01	0.011	110	0.0095	95	15	70-130/30
75-01-4	Vinyl chloride	0.01	0.011	110	0.010	100	10	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1016-BS2	6W23757.D	1	01/24/22	TCH	n/a	n/a	V6W1016
V6W1016-BSD2	6W23758.D	1	01/24/22	TCH	n/a	n/a	V6W1016

The QC reported here applies to the following samples: **Method:** TO-15 (BY SIM)

JD38291-17

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
127-18-4	Tetrachloroethylene	0.01	0.0088	88	0.0090	90	2	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	101%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W998-BS	6W23468.D	1	12/17/21	DFT	n/a	n/a	V6W998
V6W998-BSD	6W23469.D	1	12/17/21	DFT	n/a	n/a	V6W998

The QC reported here applies to the following samples: **Method:** TO-15 (BY SIM)

V6W998-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.01	0.012	120	0.012	120	0	70-130/30
56-23-5	Carbon tetrachloride	0.01	0.012	120	0.012	120	0	70-130/30
75-35-4	1,1-Dichloroethylene	0.01	0.013	130	0.012	120	8	70-130/30
156-59-2	cis-1,2-Dichloroethylene	0.01	0.013	130	0.013	130	0	70-130/30
79-00-5	1,1,2-Trichloroethane	0.01	0.011	110	0.011	110	0	70-130/30
127-18-4	Tetrachloroethylene	0.01	0.0091	91	0.0092	92	1	70-130/30
79-01-6	Trichloroethylene	0.01	0.011	110	0.010	100	10	70-130/30
75-01-4	Vinyl chloride	0.01	0.011	110	0.011	110	0	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	96%	97%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD38295-3DUP	6W23748.D	1	01/21/22	TCH	n/a	n/a	V6W1016
JD38295-3	6W23747.D	1	01/21/22	TCH	n/a	n/a	V6W1016
JD38295-3	6W23761.D	1	01/24/22	TCH	n/a	n/a	V6W1016

The QC reported here applies to the following samples: **Method:** TO-15 (BY SIM)

JD38291-1, JD38291-5, JD38291-13, JD38291-17

CAS No.	Compound	JD38295-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
71-43-2	Benzene	0.24		0.24		0	17
56-23-5	Carbon tetrachloride	0.049		0.048		2	10
75-35-4	1,1-Dichloroethylene	ND		ND		nc	20
156-59-2	cis-1,2-Dichloroethylene	ND [a]		ND		nc	10
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	20
127-18-4	Tetrachloroethylene	0.19 [a]		0.20	E	5	17
79-01-6	Trichloroethylene	0.0090		0.0079		13	13
75-01-4	Vinyl chloride	ND		ND		nc	20

CAS No.	Surrogate Recoveries	DUP	JD38295-3	JD38295-3	Limits
460-00-4	4-Bromofluorobenzene	100%	101%	102%	65-128%

(a) Result is from Run #2.

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W998-SCC	6W23472.D	1	12/17/21	DFT	n/a	n/a	V6W998

The QC reported here (Summa A320) applies to the following samples: **Method:** TO-15 (BY SIM)

Batch CP11472 cleaned 12/14/21: JD38291-1(A1111), JD38291-5(A775), JD38291-13(A898), JD38291-17(A780)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
71-43-2	Benzene	ND	0.0050	0.0021	ppbv		ND	0.016	ug/m3
56-23-5	Carbon tetrachloride	ND	0.0050	0.00060	ppbv		ND	0.031	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00060	ppbv		ND	0.0079	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20		ppbv		ND	0.79	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.0050	0.00050	ppbv		ND	0.027	ug/m3
127-18-4	Tetrachloroethylene	ND	0.0020	0.0011	ppbv		ND	0.014	ug/m3
79-01-6	Trichloroethylene	ND	0.0020	0.0014	ppbv		ND	0.011	ug/m3
75-01-4	Vinyl chloride	ND	0.0020	0.0011	ppbv		ND	0.0051	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Instrument Performance Check (BFB)

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V6W990-BFB
Lab File ID: 6W23275.D
Instrument ID: GCMS6W
Injection Date: 11/30/21
Injection Time: 09:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	35741	19.7		Pass
75	30.0 - 66.0% of mass 95	90576	50.0		Pass
95	Base peak, 100% relative abundance	181248	100.0		Pass
96	5.0 - 9.0% of mass 95	12163	6.71		Pass
173	Less than 2.0% of mass 174	1161	0.64	(0.80) [a]	Pass
174	50.0 - 120.0% of mass 95	145749	80.4		Pass
175	4.0 - 9.0% of mass 174	10704	5.91	(7.34) [a]	Pass
176	93.0 - 101.0% of mass 174	140021	77.3	(96.1) [a]	Pass
177	5.0 - 9.0% of mass 176	8968	4.95	(6.40) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W990-ICC990	6W23277.D	11/30/21	13:41	04:01	Initial cal 0.01
V6W990-IC990	6W23278.D	11/30/21	14:27	04:47	Initial cal 0.005
V6W990-IC990	6W23279.D	11/30/21	15:12	05:32	Initial cal 0.002
V6W990-IC990	6W23280.D	11/30/21	16:04	06:24	Initial cal 0.02
V6W990-IC990	6W23281.D	11/30/21	17:02	07:22	Initial cal 0.04
V6W990-IC990	6W23282.D	11/30/21	17:51	08:11	Initial cal 0.5
V6W990-ICV990	6W23285.D	11/30/21	20:18	10:38	Initial cal verification 0.01

Instrument Performance Check (BFB)

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V6W998-BFB
Lab File ID: 6W23465.D
Instrument ID: GCMS6W
Injection Date: 12/17/21
Injection Time: 10:16

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	49277	26.0		Pass
75	30.0 - 66.0% of mass 95	107363	56.5		Pass
95	Base peak, 100% relative abundance	189888	100.0		Pass
96	5.0 - 9.0% of mass 95	12656	6.66		Pass
173	Less than 2.0% of mass 174	1116	0.59	(0.91) [a]	Pass
174	50.0 - 120.0% of mass 95	122176	64.3		Pass
175	4.0 - 9.0% of mass 174	8972	4.72	(7.34) [a]	Pass
176	93.0 - 101.0% of mass 174	116592	61.4	(95.4) [a]	Pass
177	5.0 - 9.0% of mass 176	7627	4.02	(6.54) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W998-CC990	6W23467.D	12/17/21	11:55	01:39	Continuing cal 0.01
V6W998-BS	6W23468.D	12/17/21	12:45	02:29	Blank Spike
V6W998-BSD	6W23469.D	12/17/21	13:35	03:19	Blank Spike Duplicate
V6W998-MB	6W23471.D	12/17/21	15:22	05:06	Method Blank
V6W998-SCC	6W23472.D	12/17/21	16:15	05:59	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V6W1015-BFB
Lab File ID: 6W23732.D
Instrument ID: GCMS6W
Injection Date: 01/21/22
Injection Time: 07:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	49963	19.4		Pass
75	30.0 - 66.0% of mass 95	125723	48.8		Pass
95	Base peak, 100% relative abundance	257707	100.0		Pass
96	5.0 - 9.0% of mass 95	17432	6.76		Pass
173	Less than 2.0% of mass 174	1849	0.72	(0.84) [a]	Pass
174	50.0 - 120.0% of mass 95	221227	85.8		Pass
175	4.0 - 9.0% of mass 174	16095	6.25	(7.28) [a]	Pass
176	93.0 - 101.0% of mass 174	212928	82.6	(96.2) [a]	Pass
177	5.0 - 9.0% of mass 176	14123	5.48	(6.63) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W1015-ICC1015	6W23733.D	01/21/22	08:06	00:47	Initial cal 0.01
V6W1015-IC1015	6W23734.D	01/21/22	08:52	01:33	Initial cal 0.005
V6W1015-IC1015	6W23735.D	01/21/22	09:38	02:19	Initial cal 0.002
V6W1015-IC1015	6W23736.D	01/21/22	10:27	03:08	Initial cal 0.015
V6W1015-IC1015	6W23737.D	01/21/22	11:17	03:58	Initial cal 0.02
V6W1015-IC1015	6W23738.D	01/21/22	12:16	04:57	Initial cal 0.04
V6W1015-IC1015	6W23739.D	01/21/22	13:04	05:45	Initial cal 0.5
V6W1015-ICV1015	6W23742.D	01/21/22	15:28	08:09	Initial cal verification 0.01
V6W1016-BS	6W23743.D	01/21/22	16:15	08:56	Blank Spike
V6W1016-BSD	6W23744.D	01/21/22	17:03	09:44	Blank Spike Duplicate
V6W1016-MB	6W23746.D	01/21/22	18:41	11:22	Method Blank
JD38295-3	6W23747.D	01/21/22	19:32	12:13	(used for QC only; not part of job JD38291)
JD38295-3DUP	6W23748.D	01/21/22	20:24	13:05	Duplicate
ZZZZZZ	6W23749.D	01/21/22	21:15	13:56	(unrelated sample)
JD38291-1	6W23750.D	01/21/22	22:06	14:47	786-IA-1_011422
JD38291-5	6W23751.D	01/21/22	22:57	15:38	785-IA-1_011422
JD38291-13	6W23752.D	01/21/22	23:48	16:29	774-IA-1_011422
JD38291-17	6W23753.D	01/22/22	00:40	17:21	776-IA-1_011422
V6W1016-ECC1015	6W23754.D	01/22/22	01:28	18:09	Ending cal 0.01

Instrument Performance Check (BFB)

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V6W1016-BFB2
Lab File ID: 6W23755.D
Instrument ID: GCMS6W
Injection Date: 01/24/22
Injection Time: 07:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	51085	20.4		Pass
75	30.0 - 66.0% of mass 95	124635	49.7		Pass
95	Base peak, 100% relative abundance	250901	100.0		Pass
96	5.0 - 9.0% of mass 95	16502	6.58		Pass
173	Less than 2.0% of mass 174	1180	0.47	(0.59) [a]	Pass
174	50.0 - 120.0% of mass 95	201515	80.3		Pass
175	4.0 - 9.0% of mass 174	14862	5.92	(7.38) [a]	Pass
176	93.0 - 101.0% of mass 174	193877	77.3	(96.2) [a]	Pass
177	5.0 - 9.0% of mass 176	12583	5.02	(6.49) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W1016-CC1015	6W23756.D	01/24/22	08:00	00:48	Continuing cal 0.01
V6W1016-BS2	6W23757.D	01/24/22	09:05	01:53	Blank Spike
V6W1016-BSD2	6W23758.D	01/24/22	09:53	02:41	Blank Spike Duplicate
V6W1016-MB2	6W23760.D	01/24/22	11:47	04:35	Method Blank
JD38295-3	6W23761.D	01/24/22	12:32	05:20	(used for QC only; not part of job JD38291)
JD38291-17	6W23763.D	01/24/22	14:15	07:03	776-IA-1_011422
ZZZZZZ	6W23764.D	01/24/22	15:01	07:49	(unrelated sample)
ZZZZZZ	6W23765.D	01/24/22	15:47	08:35	(unrelated sample)
ZZZZZZ	6W23766.D	01/24/22	16:32	09:20	(unrelated sample)
ZZZZZZ	6W23767.D	01/24/22	17:19	10:07	(unrelated sample)
V6W1016-ECC1015	6W23768.D	01/24/22	18:07	10:55	Ending cal 0.01

Internal Standard Area Summary

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Check Std:	V6W998-CC990	**Injection Date:**	12/17/21
Lab File ID:	6W23467.D	**Injection Time:**	11:55
Instrument ID:	GCMS6W	**Method:**	TO-15 (BY SIM)

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	142988	8.09	852737	10.23	494253	15.84
Upper Limit [a]	200183	8.42	1193832	10.56	691954	16.17
Lower Limit [b]	85793	7.76	511642	9.90	296552	15.51

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V6W998-BS	141842	8.09	847649	10.23	488281	15.84
V6W998-BSD	143118	8.09	849269	10.23	487285	15.84
V6W998-MB	141534	8.09	836248	10.23	478473	15.84
V6W998-SCC	141536	8.09	832112	10.23	477843	15.84

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Check Std:	V6W1015-ICC1015	**Injection Date:**	01/21/22
Lab File ID:	6W23733.D	**Injection Time:**	08:06
Instrument ID:	GCMS6W	**Method:**	TO-15 (BY SIM)

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	229908	8.07	1258980	10.22	577459	15.78
Upper Limit [a]	321871	8.40	1762572	10.55	808443	16.11
Lower Limit [b]	137945	7.74	755388	9.89	346475	15.45

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V6W1016-BS	210696	8.07	1142246	10.22	527287	15.78
V6W1016-BSD	212251	8.07	1157905	10.22	558710	15.78
V6W1016-MB	214012	8.07	1177931	10.22	561618	15.75
JD38295-3	207506	8.07	1136923	10.22	642612	15.75
JD38295-3DUP	228223	8.07	1243595	10.22	686157	15.75
ZZZZZZ	225602	8.07	1224896	10.22	574598	15.78
JD38291-1	224076	8.07	1229770	10.22	592541	15.75
JD38291-5	219538	8.07	1213989	10.22	590391	15.75
JD38291-13	219541	8.07	1201861	10.22	583468	15.75
JD38291-17	217023	8.07	1198633	10.22	585499	15.78
V6W1016-ECC1015	212413	8.07	1151768	10.22	532325	15.78

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Check Std:	V6W1016-CC1015	**Injection Date:**	01/24/22
Lab File ID:	6W23756.D	**Injection Time:**	08:00
Instrument ID:	GCMS6W	**Method:**	TO-15 (BY SIM)

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	214779	8.07	1171724	10.22	543170	15.78
Upper Limit [a]	300691	8.40	1640414	10.55	760438	16.11
Lower Limit [b]	128867	7.74	703034	9.89	325902	15.45

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V6W1016-BS2	218599	8.07	1192973	10.22	565588	15.78
V6W1016-BSD2	211814	8.07	1140479	10.22	548721	15.78
V6W1016-MB2	218448	8.07	1205934	10.22	592966	15.78
JD38295-3	210669	8.07	1148334	10.22	552148	15.78
JD38291-17	204329	8.07	1113133	10.22	555116	15.78
ZZZZZZ	208823	8.07	1149030	10.22	579212	15.78
ZZZZZZ	204950	8.07	1129126	10.22	549170	15.78
ZZZZZZ	201188	8.07	1101068	10.22	520345	15.78
ZZZZZZ	201125	8.07	1101644	10.22	554649	15.78
V6W1016-ECC1015	197214	8.07	1084834	10.22	525391	15.78

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Surrogate Recovery Summary

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Method: TO-15 (BY SIM) **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD38291-1	6W23750.D	101
JD38291-5	6W23751.D	101
JD38291-13	6W23752.D	100
JD38291-17	6W23763.D	96
JD38291-17	6W23753.D	100
JD38295-3DUP	6W23748.D	100
V6W1016-BS	6W23743.D	99
V6W1016-BS2	6W23757.D	99
V6W1016-BSD	6W23744.D	99
V6W1016-BSD2	6W23758.D	101
V6W1016-MB	6W23746.D	97
V6W1016-MB2	6W23760.D	96
V6W998-SCC	6W23472.D	94
V6W998-BS	6W23468.D	96
V6W998-BSD	6W23469.D	97
V6W998-MB	6W23471.D	95

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

Initial Calibration Summary

Job Number: JD38291 **Sample:** V6W990-ICC990
Account: BHATCOL Bhate Environmental Associates, Inc. **Lab FileID:** 6W23277.D
Project: BECOS Former Griffiss AFB, Rome, NY

Response Factor Report GCMS6W

Method : C:\msdchem\1\methods\m6w990.M (RTE Integrator)
Title : TO-15 SIM Mode
Last Update : Wed Dec 01 09:15:22 2021
Response via : Initial Calibration

Calibration Files
0.01=6W23277.D .005=6W23278.D .002=6W23279.D 0.02=6W23280.D
0.04=6W23281.D 0.5 =6W23282.D =

	Compound	0.01	.005	.002	0.02	0.04	0.5	Avg	%RSD
1)	I Bromochloromethane	ISTD							
2)	Vinyl Chloride	2.181	2.289	2.766	2.251	2.311	2.001	2.300	11.06
3)	1,1-Dichloroethen	3.546	3.743	4.352	3.523	3.479	2.854	3.583	13.47
4)	Trans-1,2-Dichlor	3.132	3.318	3.745	2.957	2.965	2.340	3.076	15.09
5)	1,1-Dichloroethan	4.465	4.592	5.297	4.476	4.532	3.346	4.451	14.08
6)	Cis-1,2-Dichloroe	3.501	3.601	3.846	3.252	3.255	2.240	3.283	16.99
7)	Chloroform	5.951	6.302	7.388	5.876	5.928	3.868	5.886	19.38
8)	1,1,1-Trichloroet	5.689	6.380	6.984	5.567	5.692	3.690	5.667	19.59
9)	1,2-Dichloroethan	4.311	4.386	4.993	4.133	4.183	2.406	4.069	21.42
10)	Benzene	1.020	1.145		0.865	0.839	0.511	0.876 E1	27.24
11)	Carbon Tetrachlor	5.664	5.788	6.410	5.605	5.717	3.603	5.464	17.53
12)	I 1,4-Difluorobenzene	ISTD							
13)	Trichloroethene	0.742	0.791	0.891	0.712	0.712	0.406	0.709	22.95
14)	1,2-Dichloropropa	0.213	0.245	0.305	0.208	0.218	0.116	0.217	28.27
15)	Bromodichlorometh	1.439	1.536	1.885	1.441	1.451	0.747	1.416	26.11
16)	cis-1,3-Dichlorop	0.889	0.856	0.952	0.801	0.832	0.418	0.791	24.00
17)	trans-1,3-Dichlor	0.834	0.868	0.909	0.755	0.780	0.362	0.751	26.43
18)	1,1,2-Trichloroet	0.804	0.840	0.909	0.796	0.811	0.327	0.748	28.12
19)	Dibromochlorometh	1.366	1.464	1.568	1.353	1.397	0.571	1.287	27.92
20)	Tetrachloroethene	1.073	1.150	1.238	1.054	1.073	0.453	1.007	27.81
21)	1,2-Dibromoethane	1.155	1.203	1.281	1.110	1.152	0.495	1.066	26.82
22)	I Chlorobenzene-d5	ISTD							
23)	1,1,2,2-Tetrachlo	5.139	5.404	6.092	5.374	5.552		5.512	6.47
24)S	4-Bromofluorobenz	1.242	1.197	1.202	1.226	1.227	1.252	1.224	1.74
25)	1,3-Dichlorobenze	3.466	3.084	3.126	3.040	3.381		3.220	5.94
26)	1,4-Dichlorobenze	4.003	3.798	3.861	3.321	3.589		3.714	7.16
27)	1,2-Dichlorobenze	4.344	3.935	3.968	3.789	4.089		4.025	5.17
28)	Naphthalene	6.275	4.817	5.037	3.666	3.934		4.746	21.72

(#) = Out of Range

m6w990.M Wed Dec 01 09:44:00 2021

Initial Calibration Verification

Job Number: JD38291 **Sample:** V6W990-ICV990
Account: BHATCOL Bhate Environmental Associates, Inc. **Lab FileID:** 6W23285.D
Project: BECOS Former Griffiss AFB, Rome, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W23285.D Vial: 4
Acq On : 30 Nov 2021 8:18 pm Operator: danat
Sample : icv990-0.01 Inst : GCMS6W
Misc : MS55213,V6W990,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m6w990.M (RTE Integrator)
Title : TO-15 SIM Mode
Last Update : Wed Dec 01 09:15:22 2021
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Bromochloromethane	1.000	1.000	0.0	90	0.00	8.09
2		Vinyl Chloride	2.300	2.243	2.5	93	0.00	4.21
3		1,1-Dichloroethene	3.583	3.269	8.8	83	0.02	5.85
4		Trans-1,2-Dichloroethene	3.076	2.739	11.0	79	0.00	6.84
5		1,1-Dichloroethane	4.451	4.196	5.7	85	0.00	7.04
6		Cis-1,2-Dichloroethene	3.283	2.986	9.0	77	0.00	7.90
7		Chloroform	5.886	5.428	7.8	82	0.00	8.21
8		1,1,1-Trichloroethane	5.667	5.293	6.6	84	0.02	9.30
9		1,2-Dichloroethane	4.069	3.701	9.0	77	0.00	9.01
10		Benzene	8.762	8.973	-2.4	79	0.00	9.80
11		Carbon Tetrachloride	5.464	5.194	4.9	83	0.00	9.97
12	I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00	10.23
13		Trichloroethene	0.709	0.640	9.7	78	0.02	11.06
14		1,2-Dichloropropane	0.217	0.192	11.5	82	0.00	10.76
15		Bromodichloromethane	1.416	1.352	4.5	85	0.00	11.01
16		cis-1,3-Dichloropropene	0.791	0.686	13.3	70	0.00	12.15
17		trans-1,3-Dichloropropene	0.751	0.623	17.0	67	0.02	12.88
18		1,1,2-Trichloroethane	0.748	0.678	9.4	76	0.02	13.07
19		Dibromochloromethane	1.287	1.180	8.3	78	0.00	13.99
20		Tetrachloroethene	1.007	0.901	10.5	76	0.00	14.96
21		1,2-Dibromoethane	1.066	0.910	14.6	71	0.00	14.32
22	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00	15.84
23		1,1,2,2-Tetrachloroethane	5.512	4.384	20.5	78	0.00	17.44
24	S	4-Bromofluorobenzene	1.224	1.208	1.3	89	0.00	18.11
25		1,3-Dichlorobenzene	3.220	2.625	18.5	70	0.00	20.29
26		1,4-Dichlorobenzene	3.714	2.729	26.5	63	0.00	20.40
27		1,2-Dichlorobenzene	4.025	3.368	16.3	71	0.00	20.85
28		Naphthalene	4.746	6.053	-27.5	89	0.00	23.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W23277.D m6w990.M Wed Dec 01 09:43:30 2021

Continuing Calibration Summary

Job Number: JD38291 **Sample:** V6W998-CC990
Account: BHATCOL Bhate Environmental Associates, Inc. **Lab FileID:** 6W23467.D
Project: BECOS Former Griffiss AFB, Rome, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W23467.D Vial: 1
Acq On : 17 Dec 2021 11:55 am Operator: danat
Sample : cc990-0.01 Inst : GCMS6W
Misc : MS55468,V6W998,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m6w990.M (RTE Integrator)
Title : TO-15 SIM Mode
Last Update : Wed Dec 01 09:15:22 2021
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Bromochloromethane	1.000	1.000	0.0	91	0.00	8.09
2		Vinyl Chloride	2.300	2.609	-13.4	109	0.00	4.21
3		1,1-Dichloroethene	3.583	4.616	-28.8	119	0.00	5.83
4		Trans-1,2-Dichloroethene	3.076	4.182	-36.0#	122	0.00	6.84
5		1,1-Dichloroethane	4.451	5.959	-33.9#	122	0.00	7.04
6		Cis-1,2-Dichloroethene	3.283	4.350	-32.5#	113	0.00	7.90
7		Chloroform	5.886	6.987	-18.7	107	0.00	8.21
8		1,1,1-Trichloroethane	5.667	6.798	-20.0	109	0.00	9.28
9		1,2-Dichloroethane	4.069	5.791	-42.3#	122	0.00	9.01
10		Benzene	8.762	11.050	-26.1	99	0.00	9.80
11		Carbon Tetrachloride	5.464	6.322	-15.7	102	0.00	9.97
12	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00	10.23
13		Trichloroethene	0.709	0.758	-6.9	101	0.00	11.04
14		1,2-Dichloropropane	0.217	0.265	-22.1	123	0.00	10.76
15		Bromodichloromethane	1.416	1.627	-14.9	111	0.00	11.01
16		cis-1,3-Dichloropropene	0.791	0.958	-21.1	106	0.00	12.15
17		trans-1,3-Dichloropropene	0.751	0.901	-20.0	106	0.00	12.86
18		1,1,2-Trichloroethane	0.748	0.829	-10.8	102	0.02	13.07
19		Dibromochloromethane	1.287	1.325	-3.0	96	0.00	13.99
20		Tetrachloroethene	1.007	0.936	7.1	86	0.00	14.96
21		1,2-Dibromoethane	1.066	1.080	-1.3	92	0.00	14.32
22	I	Chlorobenzene-d5	1.000	1.000	0.0	125	0.00	15.84
23		1,1,2,2-Tetrachloroethane	5.512	4.164	24.5	101	0.00	17.44
24	S	4-Bromofluorobenzene	1.224	1.168	4.6	118	0.00	18.11
25		1,3-Dichlorobenzene	3.220	2.025	37.1#	73	0.00	20.29
26		1,4-Dichlorobenzene	3.714	2.420	34.8#	76	0.00	20.40
27		1,2-Dichlorobenzene	4.025	2.632	34.6#	76	0.00	20.85
28		Naphthalene	4.746	2.521	46.9#	50#	0.01	23.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W23277.D m6w990.M Mon Dec 20 10:06:28 2021

Initial Calibration Summary

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V6W1015-ICC1015
Lab FileID: 6W23733.D

Response Factor Report GCMS6W

Method : C:\msdchem\1\methods\m6w1015.M (RTE Integrator)
Title : TO-15 SIM Mode
Last Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

Calibration Files
0.01=6W23733.D .005=6W23734.D .002=6W23735.D .015=6W23736.D
0.02=6W23737.D 0.04=6W23738.D 0.5 =6W23739.D

Compound	0.01	.005	.002	.015	0.02	0.04	0.5	Avg	%RSD
1) I Bromochloromethane	ISTD								
2) Vinyl Chloride	2.562	2.628	3.179	2.585	2.598	2.660	2.283	2.642	10.12
3) 1,1-Dichloroethen	4.567	5.912	5.157	4.460	4.662	4.539	3.728	4.718	14.28
4) Trans-1,2-Dichlor	2.645	2.724	2.979	2.651	2.669	2.741	2.343	2.679	6.99
5) 1,1-Dichloroethan	3.802	4.029	4.312	3.979	4.003	4.084	3.094	3.900	9.91
6) Cis-1,2-Dichloroe	2.819	2.891	3.468	2.791	2.831	2.922		2.953	8.69
7) Chloroform	4.976	5.142	5.579	5.080	5.139	5.222	3.663	4.972	12.22
8) 1,1,1-Trichloroet	5.119	5.203	5.779	5.104	5.146	5.241	3.557	5.021	13.68
9) 1,2-Dichloroethan	3.558	3.644	4.246	3.555	3.611	3.667	2.325	3.515	16.43
10) Benzene	0.826	0.922	1.171	0.797	0.785	0.786	0.497	0.826 E1	24.27
11) Carbon Tetrachlor	4.976	5.002	5.401	4.991	5.105	5.245	3.455	4.882	13.28
12) I 1,4-Difluorobenzene	ISTD								
13) Trichloroethene	0.795	0.850	1.043	0.703	0.688	0.683	0.394	0.736	26.82
14) 1,2-Dichloropropa	0.176	0.189	0.228	0.189	0.186	0.189	0.111	0.181	19.30
15) Bromodichlorometh	1.234	1.337	1.540	1.247	1.254	1.270	0.711	1.228	20.47
16) cis-1,3-Dichlorop	0.759	0.744	0.790	0.760	0.749	0.788	0.439	0.718	17.32
17) trans-1,3-Dichlor	0.705	0.723	0.782	0.703	0.688	0.729	0.379	0.673	19.77
18) 1,1,2-Trichloroet	0.693	0.679	0.746	0.695	0.712	0.730	0.334	0.655	21.92
19) Dibromochlorometh	1.134	1.158	1.312	1.159	1.158	1.202	0.565	1.098	22.09
20) Tetrachloroethene	1.522	1.676	2.131	1.302	1.238	1.260		1.521	22.62
21) 1,2-Dibromoethane	1.004	1.008	1.092	1.005	0.994	1.045	0.497	0.949	21.32
22) I Chlorobenzene-d5	ISTD								
23) 1,1,2,2-Tetrachlo	4.241	4.232	4.408	4.267	4.367	4.609		4.354	3.30
24)S 4-Bromofluorobenz	1.238	1.204	1.192	1.223	1.221	1.223	1.243	1.221	1.45
25) 1,3-Dichlorobenze	3.372	3.210	3.313	3.292	3.382	3.801		3.395	6.15
26) 1,4-Dichlorobenze	4.070	4.019	4.222	3.880	3.844	4.165		4.033	3.75
27) 1,2-Dichlorobenze	4.142	4.001	4.046	3.973	4.125	4.521		4.135	4.85
28) Naphthalene	5.216	5.031	5.521	4.671	4.623	5.151		5.035	6.79

(#) = Out of Range

m6w1015.M Mon Jan 24 09:47:40 2022

Initial Calibration Verification

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Sample: V6W1015-ICV1015
Lab FileID: 6W23742.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W23742.D Vial: 4
Acq On : 21 Jan 2022 3:28 pm Operator: thomash
Sample : icv1015-0.01 Inst : GCMS6W
Misc : MS56076,V6W1015,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m6w1015.M (RTE Integrator)
Title : TO-15 SIM Mode
Last Update : Mon Jan 24 09:38:00 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Bromochloromethane	1.000	1.000	0.0	95	0.00	8.07
2		Vinyl Chloride	2.642	2.958	-12.0	110	0.00	4.19
3		1,1-Dichloroethene	4.718	5.797	-22.9	121	0.00	5.83
4		Trans-1,2-Dichloroethene	2.679	3.228	-20.5	116	0.00	6.82
5		1,1-Dichloroethane	3.900	4.606	-18.1	115	0.00	7.02
6		Cis-1,2-Dichloroethene	2.953	3.782	-28.1	127	0.00	7.88
7		Chloroform	4.972	5.884	-18.3	112	0.00	8.19
8		1,1,1-Trichloroethane	5.021	5.774	-15.0	107	0.00	9.26
9		1,2-Dichloroethane	3.515	4.327	-23.1	116	0.00	8.99
10		Benzene	8.262	9.735	-17.8	112	0.00	9.78
11		Carbon Tetrachloride	4.882	5.527	-13.2	106	0.00	9.95
12	I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00	10.22
13		Trichloroethene	0.736	0.876	-19.0	105	0.00	11.02
14		1,2-Dichloropropane	0.181	0.220	-21.5	119	0.00	10.74
15		Bromodichloromethane	1.228	1.468	-19.5	113	0.00	10.99
16		cis-1,3-Dichloropropene	0.718	0.906	-26.2	114	0.00	12.11
17		trans-1,3-Dichloropropene	0.673	0.869	-29.1	117	-0.02	12.78
18		1,1,2-Trichloroethane	0.655	0.825	-26.0	113	0.00	12.99
19		Dibromochloromethane	1.098	1.338	-21.9	112	0.00	13.91
20		Tetrachloroethene	1.521	1.547	-1.7	97	0.00	14.87
21		1,2-Dibromoethane	0.949	1.204	-26.9	114	0.00	14.24
22	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00	15.78
23		1,1,2,2-Tetrachloroethane	4.354	5.620	-29.1	131	0.00	17.37
24	S	4-Bromofluorobenzene	1.221	1.212	0.7	97	0.00	18.07
25		1,3-Dichlorobenzene	3.395	4.686	-38.0#	137	0.00	20.27
26		1,4-Dichlorobenzene	4.033	5.137	-27.4	125	0.00	20.37
27		1,2-Dichlorobenzene	4.135	5.757	-39.2#	137	0.00	20.83
28		Naphthalene	5.035	12.692	-152.1#	240#	0.00	23.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W23733.D m6w1015.M Mon Jan 24 09:48:20 2022

Continuing Calibration Summary

Job Number: JD38291 **Sample:** V6W1016-ECC1015
Account: BHATCOL Bhate Environmental Associates, Inc. **Lab FileID:** 6W23754.D
Project: BECOS Former Griffiss AFB, Rome, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W23754.D Vial: 1
Acq On : 22 Jan 2022 1:28 am Operator: thomash
Sample : ecc1015-0.01 Inst : GCMS6W
Misc : MS56249,V6W1016,400,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m6w1015.M (RTE Integrator)
Title : TO-15 SIM Mode
Last Update : Mon Jan 24 09:38:00 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Bromochloromethane	1.000	1.000	0.0	92	0.00	8.07
2		Vinyl Chloride	2.642	2.749	-4.0	99	0.00	4.19
3		1,1-Dichloroethene	4.718	4.896	-3.8	99	0.00	5.83
4		Trans-1,2-Dichloroethene	2.679	3.164	-18.1	111	0.00	6.82
5		1,1-Dichloroethane	3.900	4.600	-17.9	112	0.00	7.02
6		Cis-1,2-Dichloroethene	2.953	3.295	-11.6	108	0.00	7.88
7		Chloroform	4.972	5.598	-12.6	104	0.00	8.19
8		1,1,1-Trichloroethane	5.021	5.536	-10.3	100	0.00	9.26
9		1,2-Dichloroethane	3.515	4.002	-13.9	104	0.00	8.99
10		Benzene	8.262	9.373	-13.4	105	0.00	9.78
11		Carbon Tetrachloride	4.882	5.310	-8.8	99	0.00	9.95
12	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00	10.22
13		Trichloroethene	0.736	0.804	-9.2	93	0.00	11.03
14		1,2-Dichloropropane	0.181	0.202	-11.6	105	0.00	10.74
15		Bromodichloromethane	1.228	1.396	-13.7	103	0.00	10.99
16		cis-1,3-Dichloropropene	0.718	0.840	-17.0	101	0.00	12.11
17		trans-1,3-Dichloropropene	0.673	0.744	-10.5	97	0.00	12.80
18		1,1,2-Trichloroethane	0.655	0.757	-15.6	100	0.00	12.99
19		Dibromochloromethane	1.098	1.187	-8.1	96	0.00	13.91
20		Tetrachloroethene	1.521	1.371	9.9	82	0.00	14.87
21		1,2-Dibromoethane	0.949	1.048	-10.4	95	0.00	14.24
22	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00	15.78
23		1,1,2,2-Tetrachloroethane	4.354	4.668	-7.2	101	0.00	17.37
24	S	4-Bromofluorobenzene	1.221	1.221	0.0	91	0.00	18.07
25		1,3-Dichlorobenzene	3.395	3.180	6.3	87	0.00	20.27
26		1,4-Dichlorobenzene	4.033	3.644	9.6	83	0.00	20.37
27		1,2-Dichlorobenzene	4.135	3.913	5.4	87	0.00	20.83
28		Naphthalene	5.035	4.480	11.0	79	0.00	23.19

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W23733.D m6w1015.M Mon Jan 24 10:10:17 2022

Continuing Calibration Summary

Job Number: JD38291 **Sample:** V6W1016-CC1015
Account: BHATCOL Bhate Environmental Associates, Inc. **Lab FileID:** 6W23756.D
Project: BECOS Former Griffiss AFB, Rome, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W23756.D Vial: 2
Acq On : 24 Jan 2022 8:00 am Operator: thomash
Sample : cc1015-0.01 Inst : GCMS6W
Misc : MS56249,V6W1016,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m6w1015.M (RTE Integrator)
Title : TO-15 SIM Mode
Last Update : Mon Jan 24 09:38:00 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Bromochloromethane	1.000	1.000	0.0	93	0.00	8.07
2		Vinyl Chloride	2.642	2.789	-5.6	102	0.00	4.19
3		1,1-Dichloroethene	4.718	5.080	-7.7	104	0.00	5.83
4		Trans-1,2-Dichloroethene	2.679	3.082	-15.0	109	0.00	6.82
5		1,1-Dichloroethane	3.900	4.484	-15.0	110	0.00	7.02
6		Cis-1,2-Dichloroethene	2.953	3.231	-9.4	107	0.00	7.88
7		Chloroform	4.972	5.638	-13.4	106	0.00	8.19
8		1,1,1-Trichloroethane	5.021	5.587	-11.3	102	0.00	9.26
9		1,2-Dichloroethane	3.515	3.911	-11.3	103	0.00	8.99
10		Benzene	8.262	9.303	-12.6	105	0.00	9.78
11		Carbon Tetrachloride	4.882	5.233	-7.2	98	0.00	9.95
12	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00	10.22
13		Trichloroethene	0.736	0.865	-17.5	101	0.00	11.03
14		1,2-Dichloropropane	0.181	0.205	-13.3	109	0.00	10.74
15		Bromodichloromethane	1.228	1.368	-11.4	103	0.00	10.99
16		cis-1,3-Dichloropropene	0.718	0.801	-11.6	98	0.00	12.11
17		trans-1,3-Dichloropropene	0.673	0.754	-12.0	100	0.00	12.80
18		1,1,2-Trichloroethane	0.655	0.761	-16.2	102	0.00	12.99
19		Dibromochloromethane	1.098	1.200	-9.3	98	0.00	13.91
20		Tetrachloroethene	1.521	1.369	10.0	84	0.00	14.87
21		1,2-Dibromoethane	0.949	1.059	-11.6	98	0.00	14.24
22	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00	15.78
23		1,1,2,2-Tetrachloroethane	4.354	4.650	-6.8	103	0.00	17.37
24	S	4-Bromofluorobenzene	1.221	1.215	0.5	92	0.00	18.07
25		1,3-Dichlorobenzene	3.395	3.124	8.0	87	0.00	20.27
26		1,4-Dichlorobenzene	4.033	3.621	10.2	84	0.00	20.37
27		1,2-Dichlorobenzene	4.135	3.839	7.2	87	0.00	20.83
28		Naphthalene	5.035	4.407	12.5	79	0.00	23.19

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W23733.D m6w1015.M Mon Jan 24 13:59:54 2022

Continuing Calibration Summary

Job Number: JD38291 **Sample:** V6W1016-ECC1015
Account: BHATCOL Bhate Environmental Associates, Inc. **Lab FileID:** 6W23768.D
Project: BECOS Former Griffiss AFB, Rome, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W23768.D Vial: 1
Acq On : 24 Jan 2022 6:07 pm Operator: thomash
Sample : ecc1015-0.01 Inst : GCMS6W
Misc : MS56249,V6W1016,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m6w1015.M (RTE Integrator)
Title : TO-15 SIM Mode
Last Update : Mon Jan 24 09:38:00 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Bromochloromethane	1.000	1.000	0.0	86	0.00	8.07
2		Vinyl Chloride	2.642	2.976	-12.6	100	0.00	4.19
3		1,1-Dichloroethene	4.718	5.897	-25.0	111	-0.02	5.81
4		Trans-1,2-Dichloroethene	2.679	3.184	-18.9	103	0.00	6.82
5		1,1-Dichloroethane	3.900	4.954	-27.0	112	0.00	7.02
6		Cis-1,2-Dichloroethene	2.953	3.245	-9.9	99	0.00	7.88
7		Chloroform	4.972	5.988	-20.4	103	0.00	8.19
8		1,1,1-Trichloroethane	5.021	5.836	-16.2	98	0.00	9.26
9		1,2-Dichloroethane	3.515	4.254	-21.0	103	0.00	8.99
10		Benzene	8.262	9.147	-10.7	95	0.00	9.78
11		Carbon Tetrachloride	4.882	5.507	-12.8	95	0.00	9.95
12	I	1,4-Difluorobenzene	1.000	1.000	0.0	86	0.00	10.22
13		Trichloroethene	0.736	0.844	-14.7	92	0.00	11.03
14		1,2-Dichloropropane	0.181	0.216	-19.3	106	0.00	10.74
15		Bromodichloromethane	1.228	1.463	-19.1	102	0.00	10.99
16		cis-1,3-Dichloropropene	0.718	0.763	-6.3	87	0.00	12.11
17		trans-1,3-Dichloropropene	0.673	0.706	-4.9	86	0.00	12.80
18		1,1,2-Trichloroethane	0.655	0.769	-17.4	96	0.00	12.99
19		Dibromochloromethane	1.098	1.164	-6.0	88	0.00	13.91
20		Tetrachloroethene	1.521	1.257	17.4	71	0.00	14.87
21		1,2-Dibromoethane	0.949	0.995	-4.8	85	0.00	14.24
22	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00	15.78
23		1,1,2,2-Tetrachloroethane	4.354	4.559	-4.7	98	0.02	17.39
24	S	4-Bromofluorobenzene	1.221	1.185	2.9	87	0.00	18.07
25		1,3-Dichlorobenzene	3.395	2.526	25.6	68	0.00	20.27
26		1,4-Dichlorobenzene	4.033	2.918	27.6	65	0.00	20.37
27		1,2-Dichlorobenzene	4.135	3.220	22.1	71	0.00	20.83
28		Naphthalene	5.035	3.175	36.9#	55#	0.00	23.19

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W23733.D m6w1015.M Tue Jan 25 09:04:11 2022

Run Sequence Report

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V6W1015	**Method:** TO-15 (BY SIM)	**Instrument ID:** GCMS6W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V6W1015-BFB	6W23732.D	01/21/22 07:19	n/a	BFB Tune
V6W1015-ICC1015	6W23733.D	01/21/22 08:06	n/a	Initial cal 0.01
V6W1015-IC1015	6W23734.D	01/21/22 08:52	n/a	Initial cal 0.005
V6W1015-IC1015	6W23735.D	01/21/22 09:38	n/a	Initial cal 0.002
V6W1015-IC1015	6W23736.D	01/21/22 10:27	n/a	Initial cal 0.015
V6W1015-IC1015	6W23737.D	01/21/22 11:17	n/a	Initial cal 0.02
V6W1015-IC1015	6W23738.D	01/21/22 12:16	n/a	Initial cal 0.04
V6W1015-IC1015	6W23739.D	01/21/22 13:04	n/a	Initial cal 0.5
V6W1015-ICV1015	6W23742.D	01/21/22 15:28	n/a	Initial cal verification 0.01

Run Sequence Report

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V6W1016	**Method:** TO-15 (BY SIM)	**Instrument ID:** GCMS6W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V6W1016-BS	6W23743.D	01/21/22 16:15	n/a	Blank Spike
V6W1016-BSD	6W23744.D	01/21/22 17:03	n/a	Blank Spike Duplicate
V6W1016-MB	6W23746.D	01/21/22 18:41	n/a	Method Blank
JD38295-3	6W23747.D	01/21/22 19:32	n/a	(used for QC only; not part of job JD38291)
JD38295-3DUP	6W23748.D	01/21/22 20:24	n/a	Duplicate
ZZZZZZ	6W23749.D	01/21/22 21:15	n/a	(unrelated sample)
JD38291-1	6W23750.D	01/21/22 22:06	n/a	786-IA-1_011422
JD38291-5	6W23751.D	01/21/22 22:57	n/a	785-IA-1_011422
JD38291-13	6W23752.D	01/21/22 23:48	n/a	774-IA-1_011422
JD38291-17	6W23753.D	01/22/22 00:40	n/a	776-IA-1_011422
V6W1016-ECC1015	6W23754.D	01/22/22 01:28	n/a	Ending cal 0.01
V6W1016-BFB2	6W23755.D	01/24/22 07:12	n/a	BFB Tune
V6W1016-CC1015	6W23756.D	01/24/22 08:00	n/a	Continuing cal 0.01
V6W1016-BS2	6W23757.D	01/24/22 09:05	n/a	Blank Spike
V6W1016-BSD2	6W23758.D	01/24/22 09:53	n/a	Blank Spike Duplicate
V6W1016-MB2	6W23760.D	01/24/22 11:47	n/a	Method Blank
JD38295-3	6W23761.D	01/24/22 12:32	n/a	(used for QC only; not part of job JD38291)
JD38291-17	6W23763.D	01/24/22 14:15	n/a	776-IA-1_011422
ZZZZZZ	6W23764.D	01/24/22 15:01	n/a	(unrelated sample)
ZZZZZZ	6W23765.D	01/24/22 15:47	n/a	(unrelated sample)
ZZZZZZ	6W23766.D	01/24/22 16:32	n/a	(unrelated sample)
ZZZZZZ	6W23767.D	01/24/22 17:19	n/a	(unrelated sample)
V6W1016-ECC1015	6W23768.D	01/24/22 18:07	n/a	Ending cal 0.01

Run Sequence Report

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V6W990	**Method:** TO-15 (BY SIM)	**Instrument ID:** GCMS6W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V6W990-BFB	6W23275.D	11/30/21 09:40	n/a	BFB Tune
V6W990-ICC990	6W23277.D	11/30/21 13:41	n/a	Initial cal 0.01
V6W990-IC990	6W23278.D	11/30/21 14:27	n/a	Initial cal 0.005
V6W990-IC990	6W23279.D	11/30/21 15:12	n/a	Initial cal 0.002
V6W990-IC990	6W23280.D	11/30/21 16:04	n/a	Initial cal 0.02
V6W990-IC990	6W23281.D	11/30/21 17:02	n/a	Initial cal 0.04
V6W990-IC990	6W23282.D	11/30/21 17:51	n/a	Initial cal 0.5
V6W990-ICV990	6W23285.D	11/30/21 20:18	n/a	Initial cal verification 0.01

Run Sequence Report

Job Number: JD38291
Account: BHATCOL Bhate Environmental Associates, Inc.
Project: BECOS Former Griffiss AFB, Rome, NY

Run ID: V6W998	**Method:** TO-15 (BY SIM)	**Instrument ID:** GCMS6W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V6W998-BFB	6W23465.D	12/17/21 10:16	n/a	BFB Tune
V6W998-CC990	6W23467.D	12/17/21 11:55	n/a	Continuing cal 0.01
V6W998-BS	6W23468.D	12/17/21 12:45	n/a	Blank Spike
V6W998-BSD	6W23469.D	12/17/21 13:35	n/a	Blank Spike Duplicate
V6W998-MB	6W23471.D	12/17/21 15:22	n/a	Method Blank
V6W998-SCC	6W23472.D	12/17/21 16:15	n/a	Summa Cleaning Certification

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23750.D
Acq On : 21 Jan 2022 10:06 pm
Operator : thomash
Sample : jd38291-1
Misc : MS56249,V6W1016,400,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 10:06:45 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

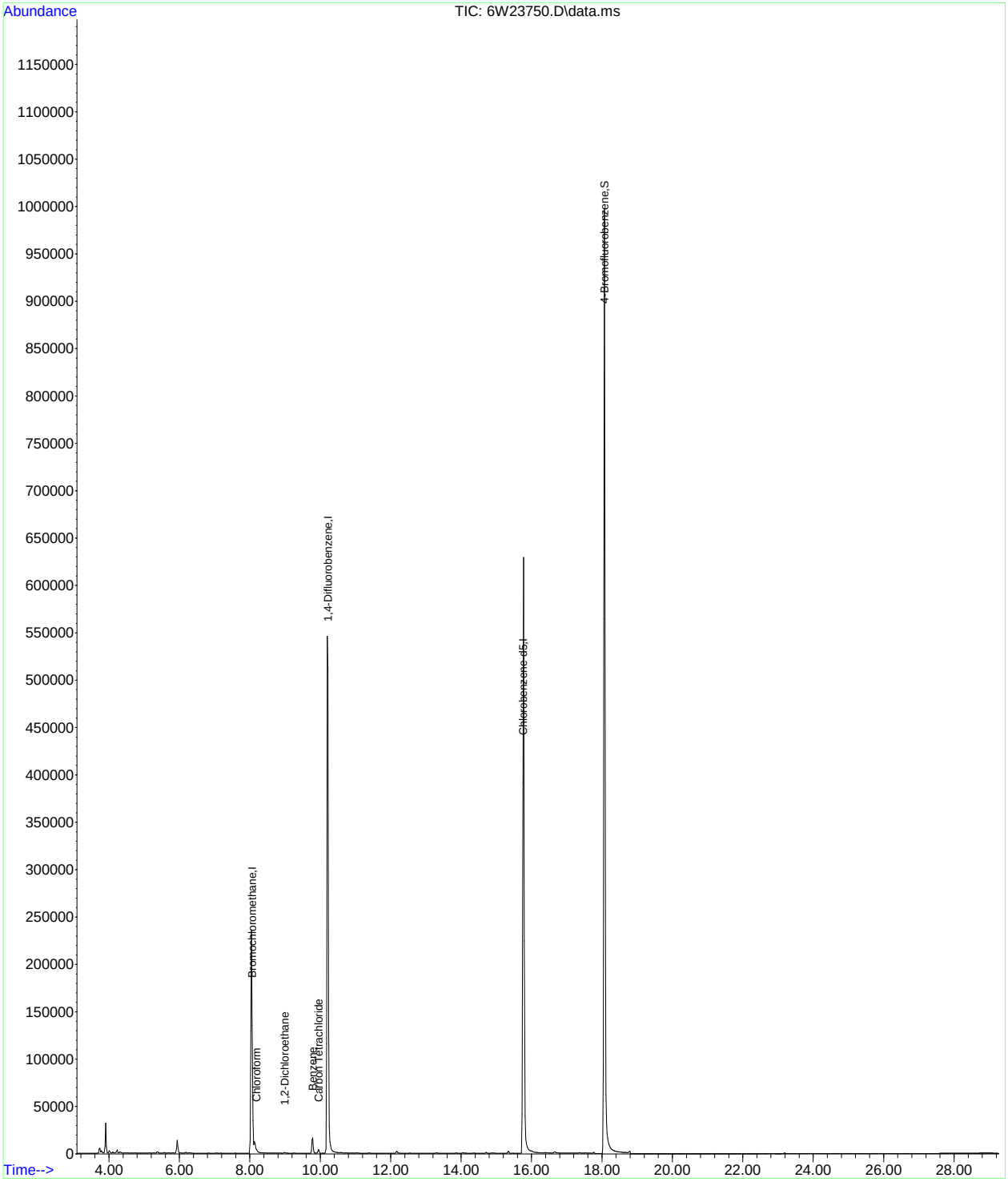
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	224076	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1229770	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.755	82	592541	10.00	ppb(v	#-0.02
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	729857	10.09	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.90%			
Target Compounds						Qvalue
7) Chloroform	8.191	83	2559	0.02	ppb(v	93
9) 1,2-Dichloroethane	8.990	62	1118	0.01	ppb(v	98
10) Benzene	9.783	78	36539	0.20	ppb(v	89
11) Carbon Tetrachloride	9.952	117	5301	0.05	ppb(v	99

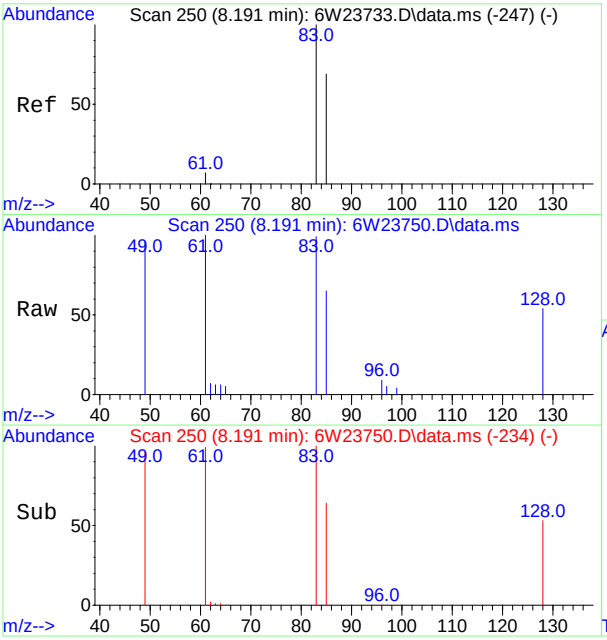
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23750.D
Acq On : 21 Jan 2022 10:06 pm
Operator : thomash
Sample : jd38291-1
Misc : MS56249,V6W1016,400,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 10:06:45 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

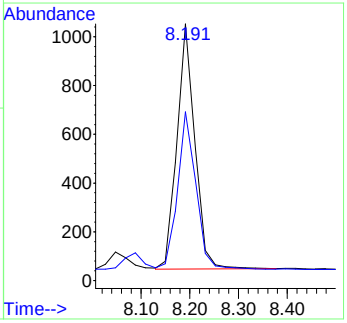


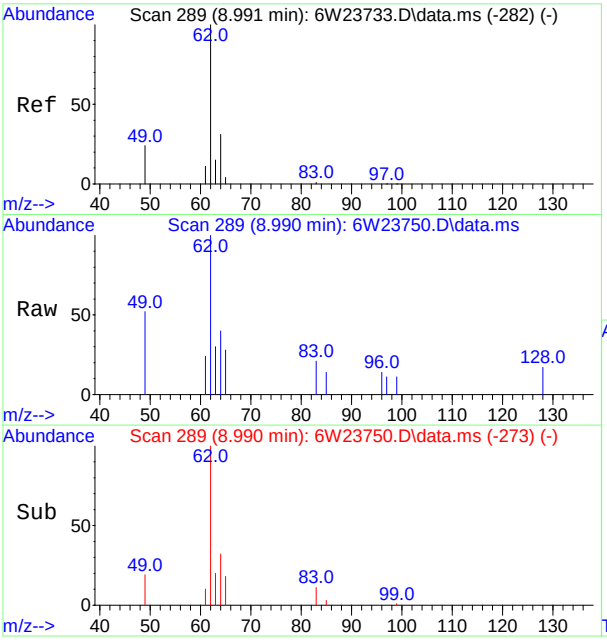


#7
Chloroform
Concen: 0.02 ppb(v)
RT: 8.191 min Scan# 250
Delta R.T. 0.000 min
Lab File: 6W23750.D
Acq: 21 Jan 2022 10:06 pm

Tgt Ion: 83 Resp: 2559

Ion	Ratio	Lower	Upper
83	100		
85	65.7	50.2	93.2

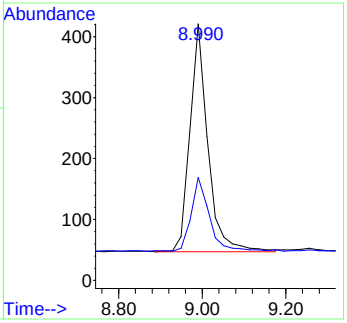


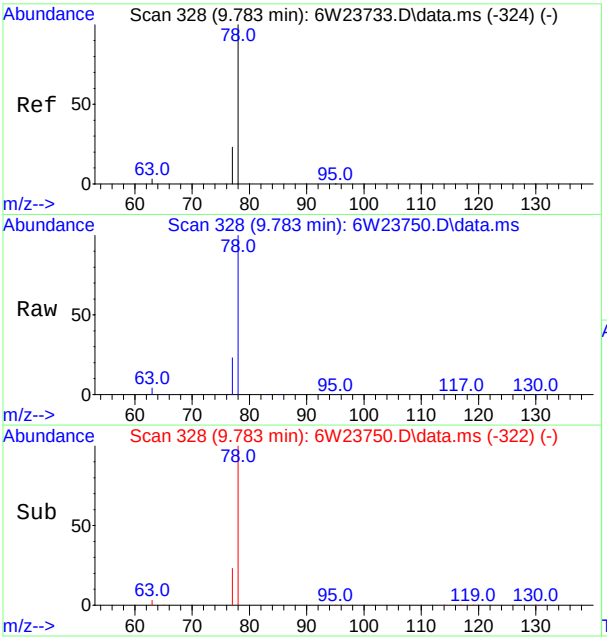


#9
1,2-Dichloroethane
Concen: 0.01 ppb(v)
RT: 8.990 min Scan# 289
Delta R.T. -0.001 min
Lab File: 6W23750.D
Acq: 21 Jan 2022 10:06 pm

Tgt Ion: 62 Resp: 1118

Ion	Ratio	Lower	Upper
62	100		
64	40.1	29.0	53.9

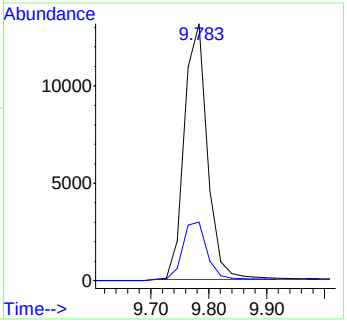


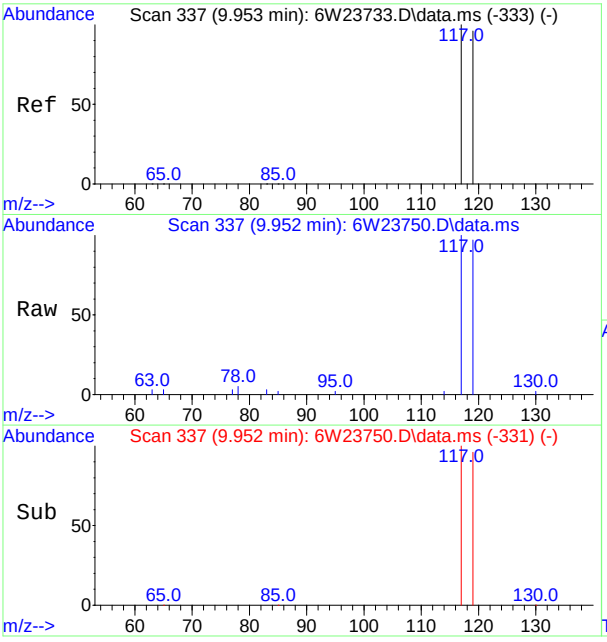


#10
Benzene
Concen: 0.20 ppb(v)
RT: 9.783 min Scan# 328
Delta R.T. 0.000 min
Lab File: 6W23750.D
Acq: 21 Jan 2022 10:06 pm

Tgt Ion: 78 Resp: 36539

Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.9	37.0

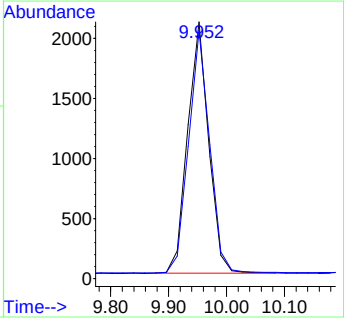




#11
Carbon Tetrachloride
Concen: 0.05 ppb(v)
RT: 9.952 min Scan# 337
Delta R.T. -0.001 min
Lab File: 6W23750.D
Acq: 21 Jan 2022 10:06 pm

Tgt Ion:117 Resp: 5301

Ion	Ratio	Lower	Upper
117	100		
119	96.7	68.5	127.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23751.D
Acq On : 21 Jan 2022 10:57 pm
Operator : thomash
Sample : jd38291-5
Misc : MS56249,V6W1016,400,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 10:07:50 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

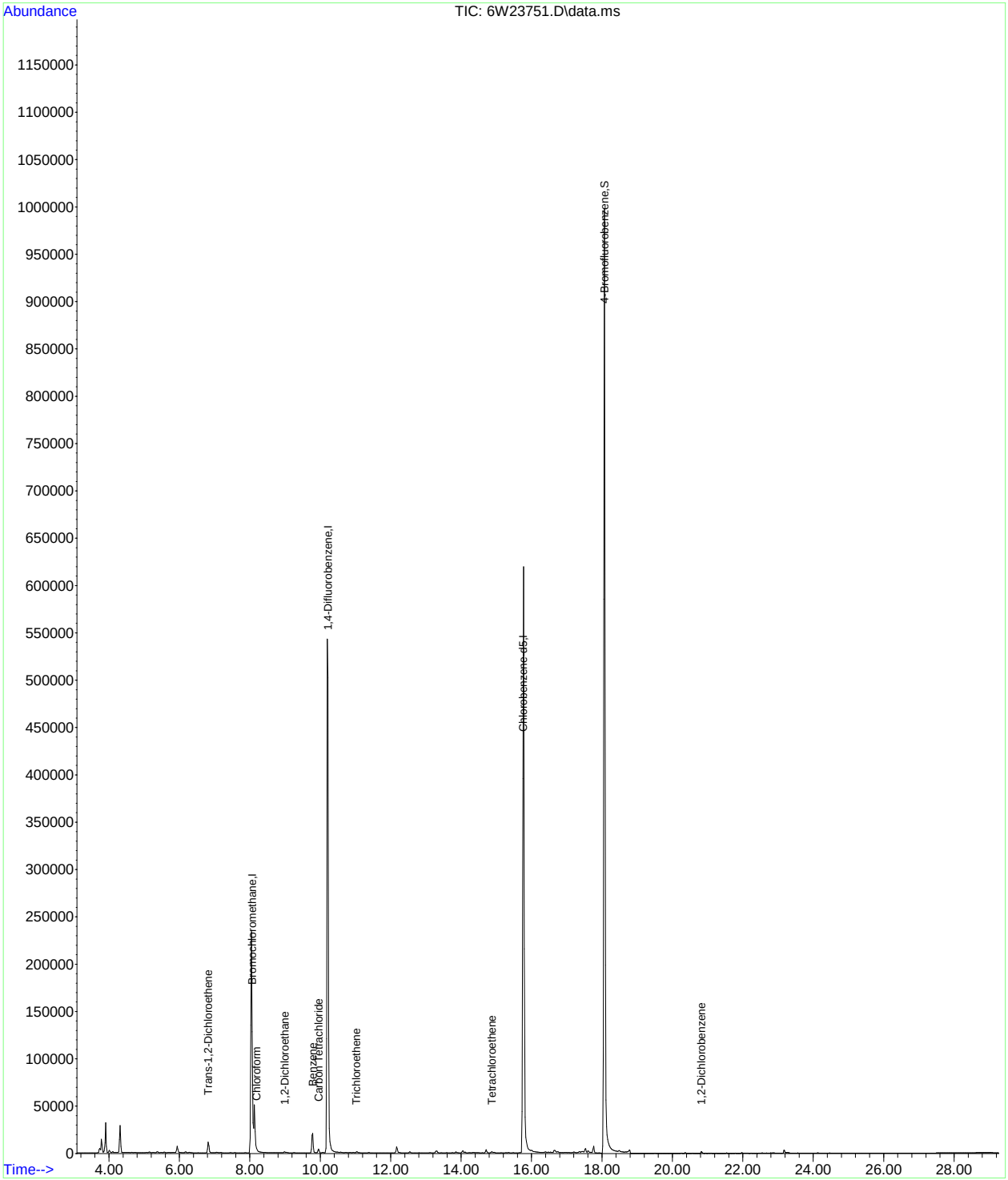
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	219538	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1213989	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.755	82	590391	10.00	ppb(v	#-0.02
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	726959	10.09	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.90%			
Target Compounds						Qvalue
4) Trans-1,2-Dichloroethene	6.818	61	14551	0.25	ppb(v	92
7) Chloroform	8.191	83	2458	0.02	ppb(v	93
9) 1,2-Dichloroethane	8.990	62	1259	0.02	ppb(v	97
10) Benzene	9.783	78	46438	0.26	ppb(v	89
11) Carbon Tetrachloride	9.952	117	5305	0.05	ppb(v	100
13) Trichloroethene	11.025	95	691	0.01	ppb(v	87
20) Tetrachloroethene	14.873	166	2048	0.01	ppb(v	98
27) 1,2-Dichlorobenzene	20.825	146	2375	0.01	ppb(v	97

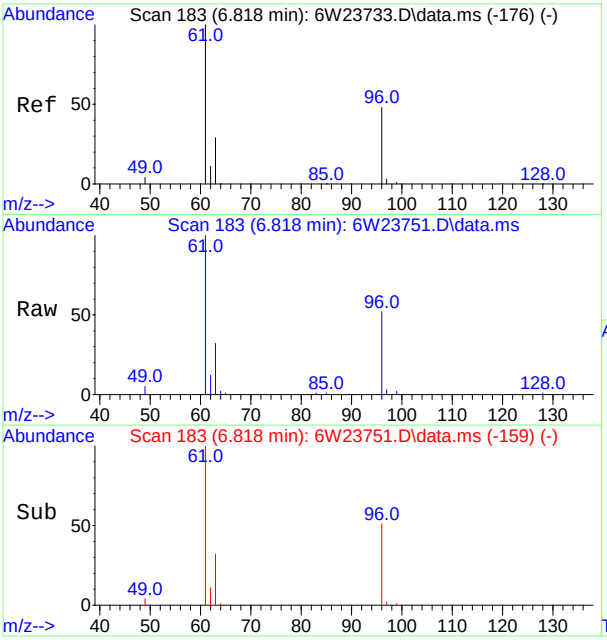
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23751.D
Acq On : 21 Jan 2022 10:57 pm
Operator : thomash
Sample : jd38291-5
Misc : MS56249,V6W1016,400,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 10:07:50 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

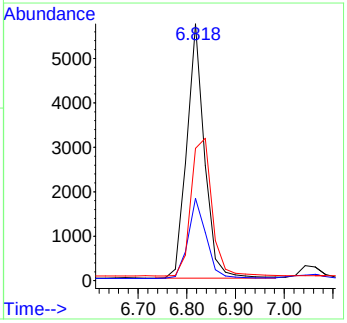


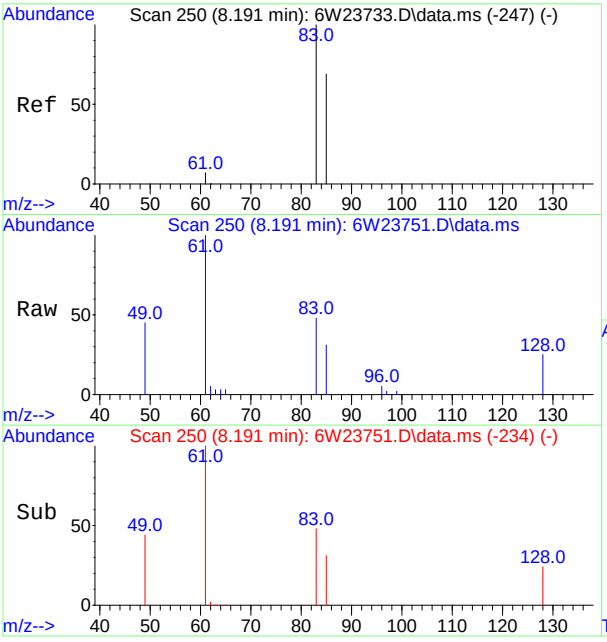


#4
Trans-1,2-Dichloroethene
Concen: 0.25 ppb(v)
RT: 6.818 min Scan# 183
Delta R.T. -0.000 min
Lab File: 6W23751.D
Acq: 21 Jan 2022 10:57 pm

Tgt Ion: 61 Resp: 14551

Ion	Ratio	Lower	Upper
61	100		
63	32.1	23.7	35.5
96	64.2	57.6	86.4

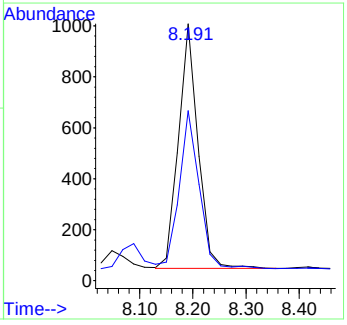


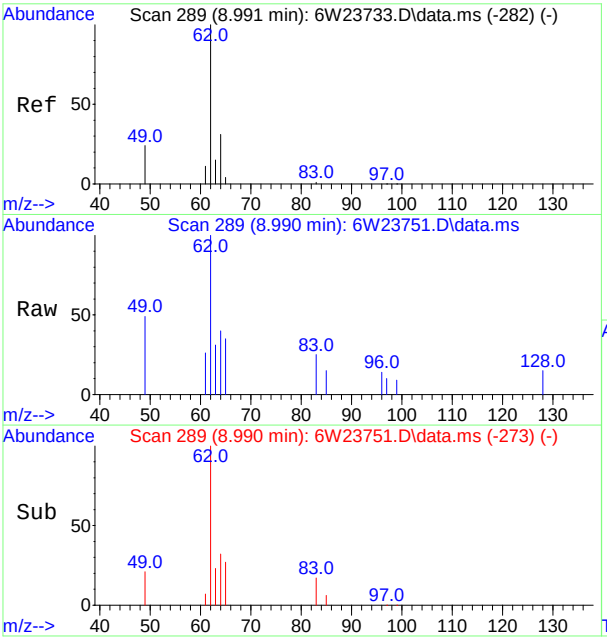


#7
Chloroform
Concen: 0.02 ppb(v)
RT: 8.191 min Scan# 250
Delta R.T. 0.000 min
Lab File: 6W23751.D
Acq: 21 Jan 2022 10:57 pm

Tgt Ion: 83 Resp: 2458

Ion	Ratio	Lower	Upper
83	100		
85	66.2	50.2	93.2

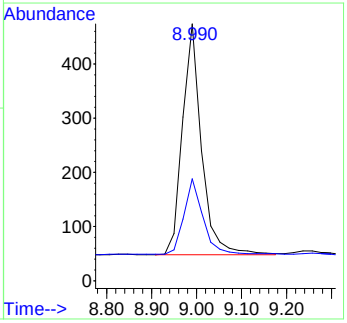


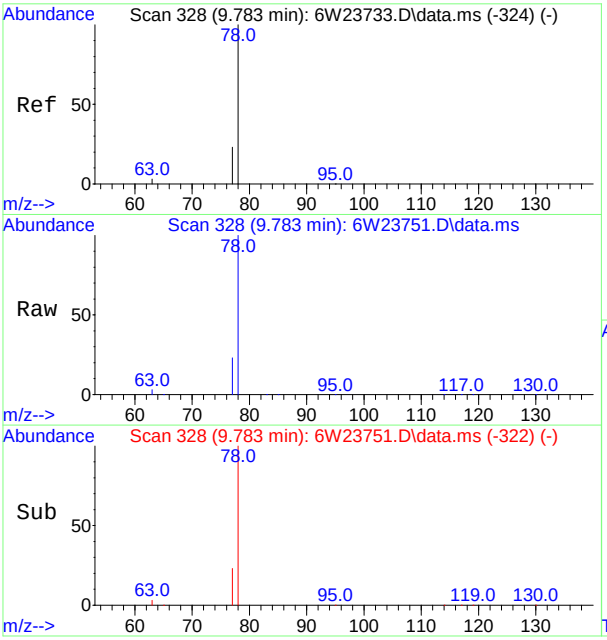


#9
1,2-Dichloroethane
Concen: 0.02 ppb(v)
RT: 8.990 min Scan# 289
Delta R.T. -0.001 min
Lab File: 6W23751.D
Acq: 21 Jan 2022 10:57 pm

Tgt Ion: 62 Resp: 1259

Ion	Ratio	Lower	Upper
62	100		
64	39.7	29.0	53.9

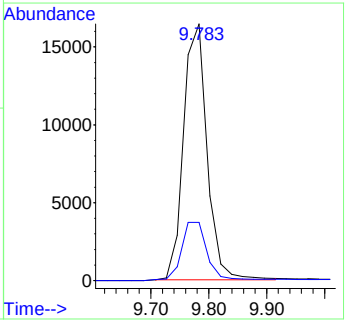


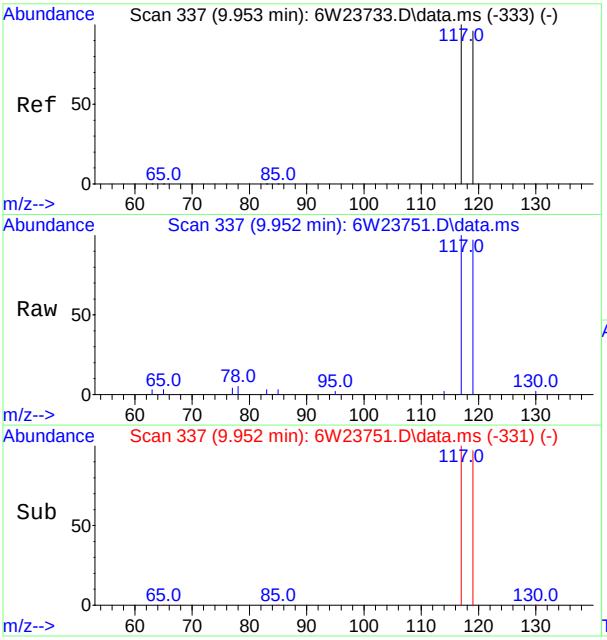


#10
Benzene
Concen: 0.26 ppb(v)
RT: 9.783 min Scan# 328
Delta R.T. 0.000 min
Lab File: 6W23751.D
Acq: 21 Jan 2022 10:57 pm

Tgt Ion: 78 Resp: 46438

Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.9	37.0

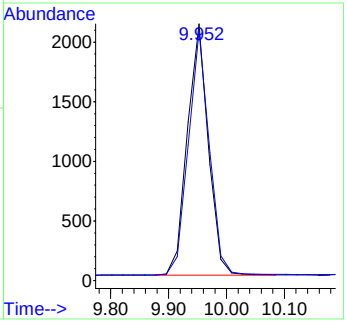


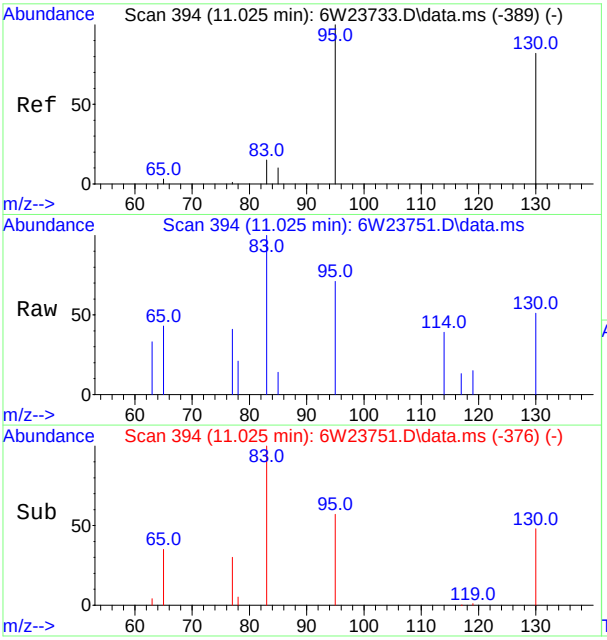


#11
Carbon Tetrachloride
Concen: 0.05 ppb(v)
RT: 9.952 min Scan# 337
Delta R.T. -0.001 min
Lab File: 6W23751.D
Acq: 21 Jan 2022 10:57 pm

Tgt Ion:117 Resp: 5305

Ion	Ratio	Lower	Upper
117	100		
119	97.4	68.5	127.1

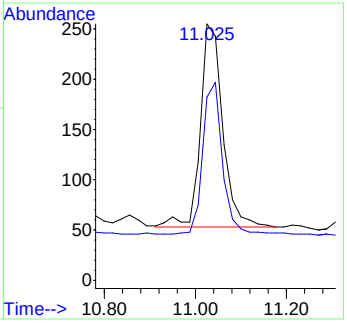


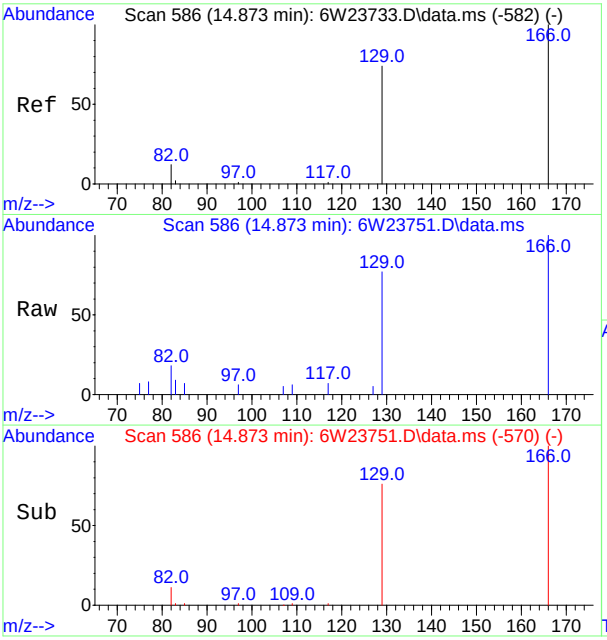


#13
Trichloroethene
Concen: 0.01 ppb(v)
RT: 11.025 min Scan# 394
Delta R.T. -0.000 min
Lab File: 6W23751.D
Acq: 21 Jan 2022 10:57 pm

Tgt Ion: 95 Resp: 691

Ion	Ratio	Lower	Upper
95	100		
130	71.4	57.8	107.4

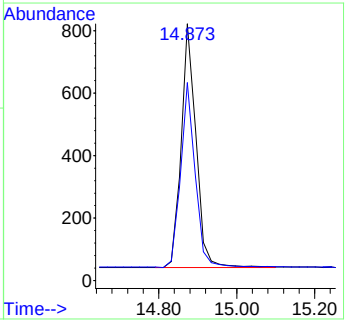


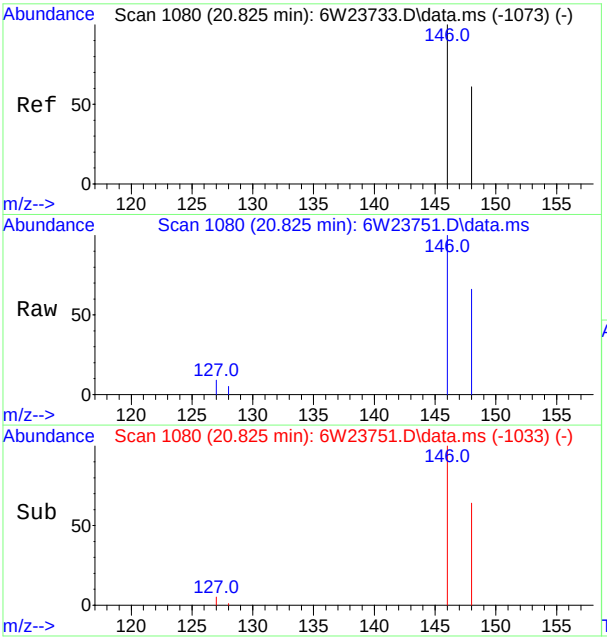


#20
Tetrachloroethene
Concen: 0.01 ppb(v)
RT: 14.873 min Scan# 586
Delta R.T. 0.000 min
Lab File: 6W23751.D
Acq: 21 Jan 2022 10:57 pm

Tgt Ion:166 Resp: 2048

Ion	Ratio	Lower	Upper
166	100		
129	77.0	52.8	98.0

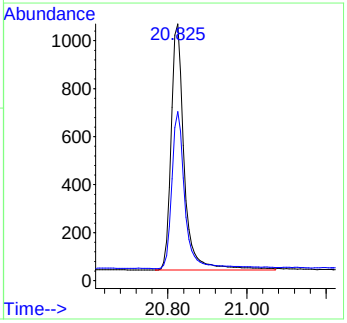




#27
1,2-Dichlorobenzene
Concen: 0.01 ppb(v)
RT: 20.825 min Scan# 1080
Delta R.T. 0.000 min
Lab File: 6W23751.D
Acq: 21 Jan 2022 10:57 pm

Tgt Ion:146 Resp: 2375

Ion	Ratio	Lower	Upper
146	100		
148	65.8	44.6	82.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23752.D
Acq On : 21 Jan 2022 11:48 pm
Operator : thomash
Sample : jd38291-13
Misc : MS56249,V6W1016,400,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 10:08:42 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

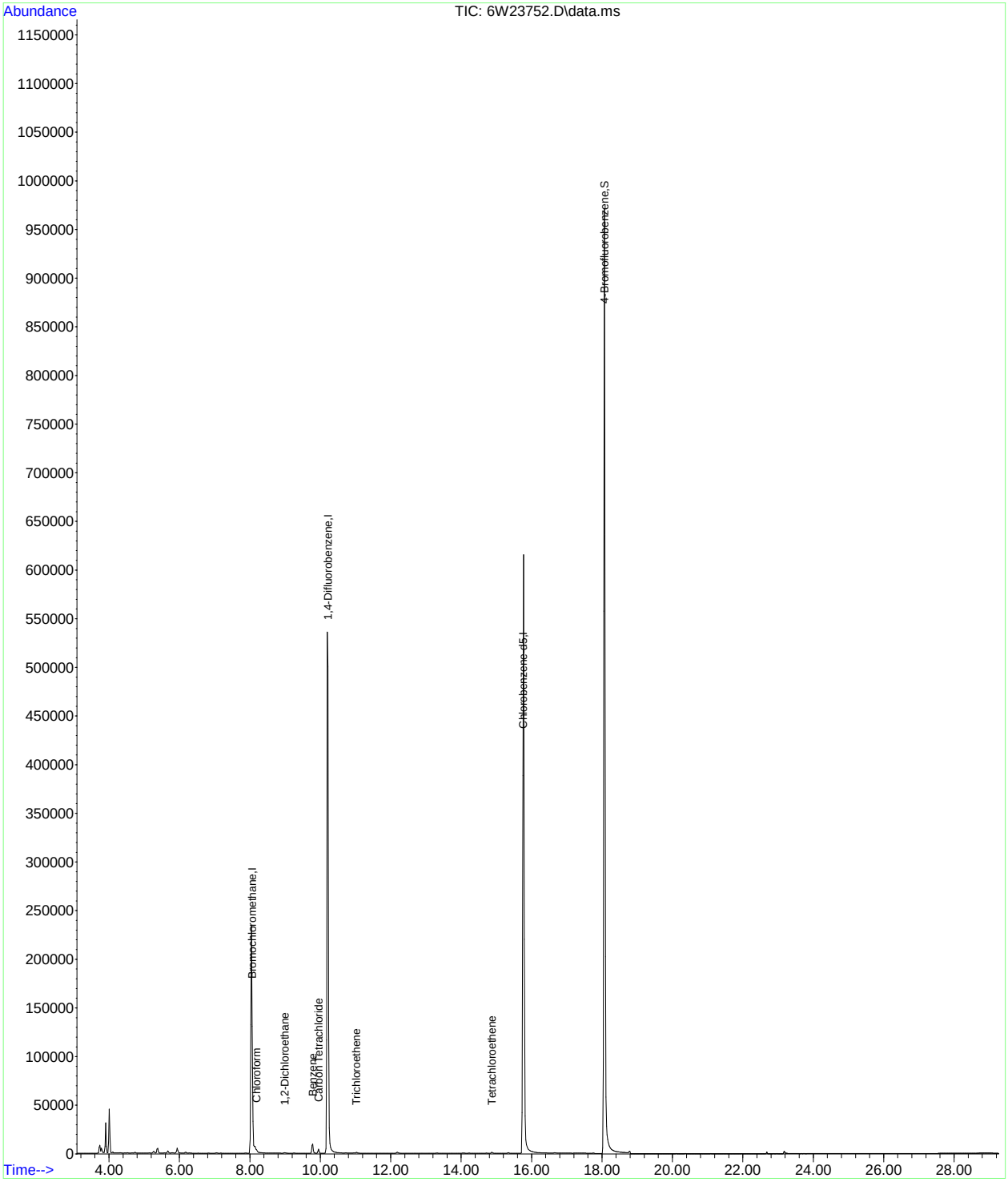
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	219541	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1201861	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.755	82	583468	10.00	ppb(v	#-0.02
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	708814	9.95	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.50%			
Target Compounds						Qvalue
7) Chloroform	8.191	83	2384	0.02	ppb(v	92
9) 1,2-Dichloroethane	8.990	62	890	0.01	ppb(v	100
10) Benzene	9.783	78	21305	0.12	ppb(v	90
11) Carbon Tetrachloride	9.952	117	5206	0.05	ppb(v	99
13) Trichloroethene	11.025	95	1255	0.01	ppb(v	96
20) Tetrachloroethene	14.873	166	1443	0.01	ppb(v	99

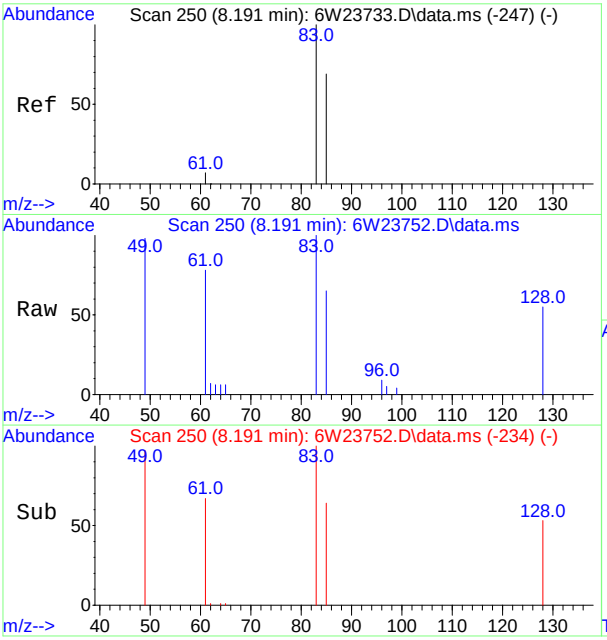
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23752.D
Acq On : 21 Jan 2022 11:48 pm
Operator : thomash
Sample : jd38291-13
Misc : MS56249,V6W1016,400,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 10:08:42 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

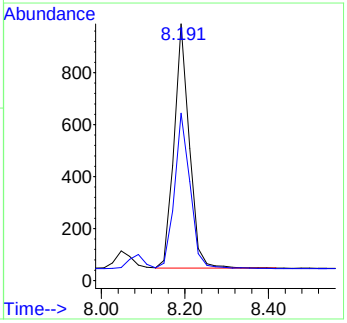


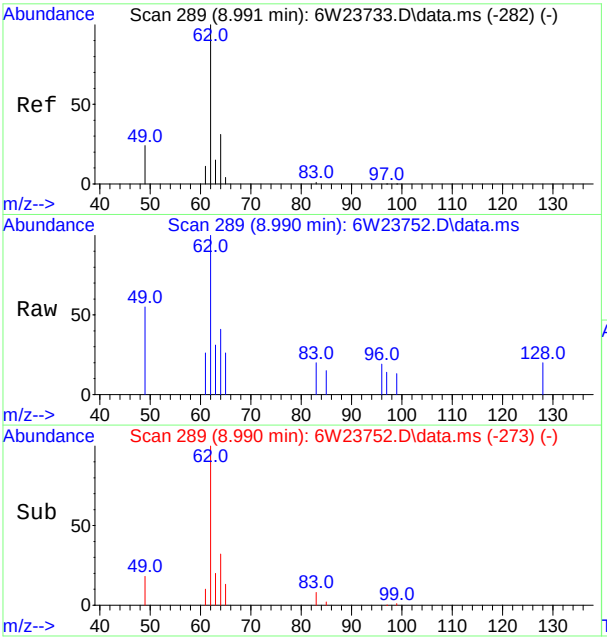


#7
Chloroform
Concen: 0.02 ppb(v)
RT: 8.191 min Scan# 250
Delta R.T. -0.000 min
Lab File: 6W23752.D
Acq: 21 Jan 2022 11:48 pm

Tgt Ion: 83 Resp: 2384

Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.2	93.2

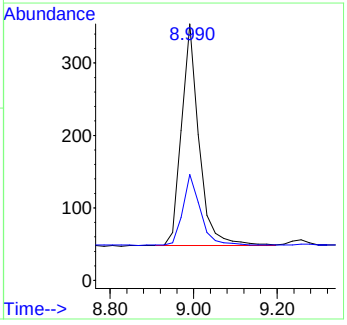


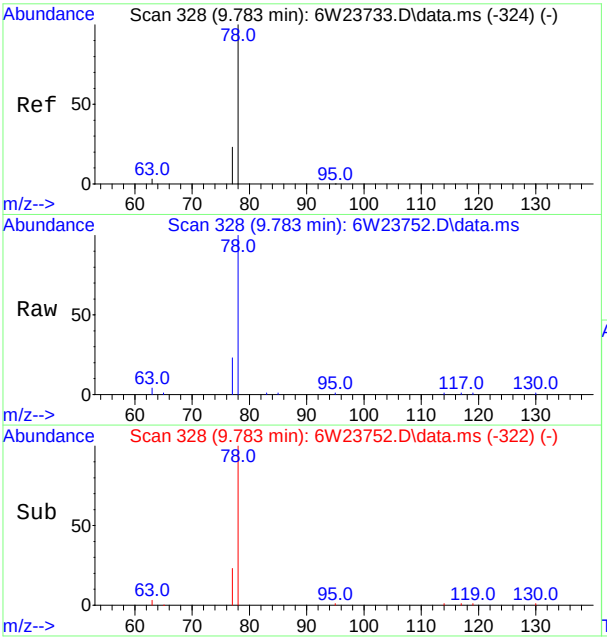


#9
1,2-Dichloroethane
Concen: 0.01 ppb(v)
RT: 8.990 min Scan# 289
Delta R.T. -0.001 min
Lab File: 6W23752.D
Acq: 21 Jan 2022 11:48 pm

Tgt Ion: 62 Resp: 890

Ion	Ratio	Lower	Upper
62	100		
64	41.2	29.0	53.9

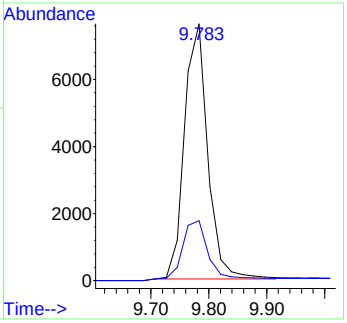


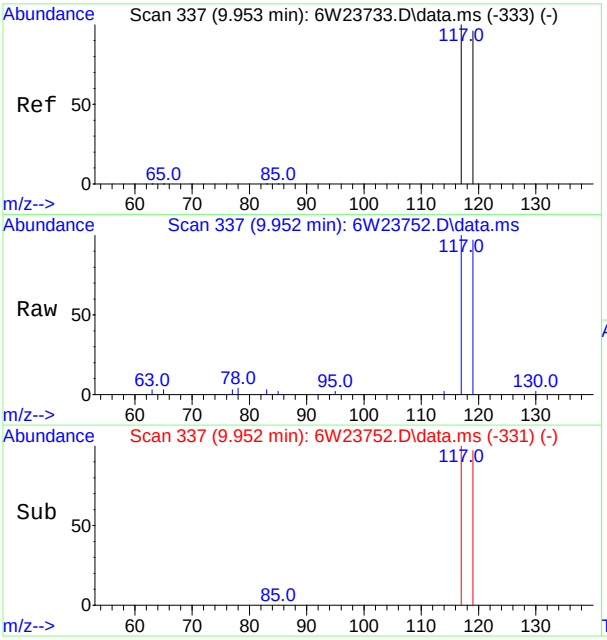


#10
Benzene
Concen: 0.12 ppb(v)
RT: 9.783 min Scan# 328
Delta R.T. 0.000 min
Lab File: 6W23752.D
Acq: 21 Jan 2022 11:48 pm

Tgt Ion: 78 Resp: 21305

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.9	37.0

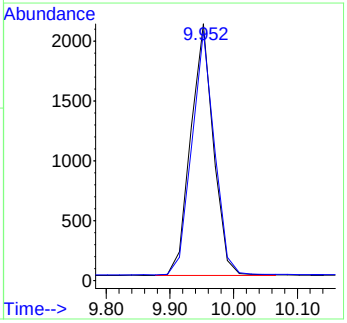


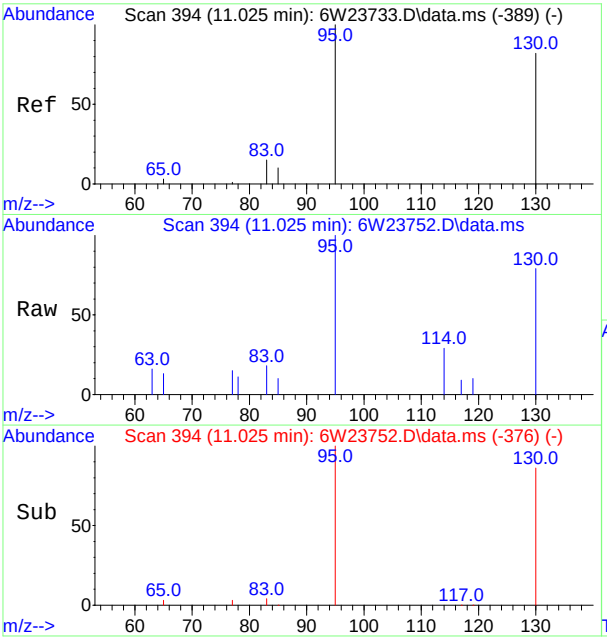


#11
Carbon Tetrachloride
Concen: 0.05 ppb(v)
RT: 9.952 min Scan# 337
Delta R.T. -0.001 min
Lab File: 6W23752.D
Acq: 21 Jan 2022 11:48 pm

Tgt Ion:117 Resp: 5206

Ion	Ratio	Lower	Upper
117	100		
119	97.2	68.5	127.1

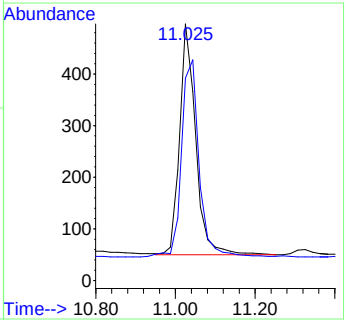


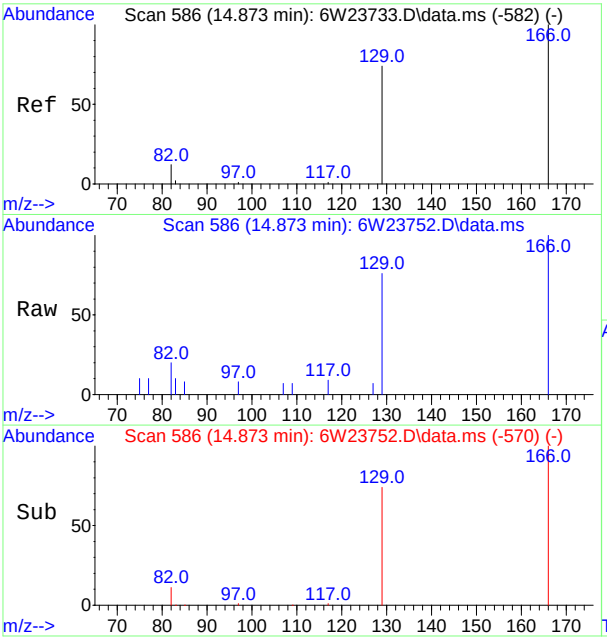


#13
Trichloroethene
Concen: 0.01 ppb(v)
RT: 11.025 min Scan# 394
Delta R.T. -0.000 min
Lab File: 6W23752.D
Acq: 21 Jan 2022 11:48 pm

Tgt Ion: 95 Resp: 1255

Ion	Ratio	Lower	Upper
95	100		
130	78.9	57.8	107.4

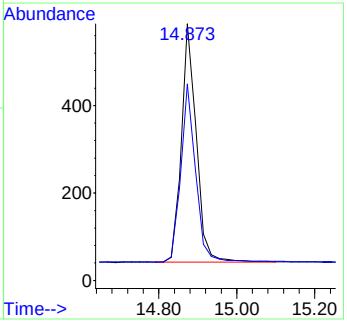




#20
Tetrachloroethene
Concen: 0.01 ppb(v)
RT: 14.873 min Scan# 586
Delta R.T. 0.000 min
Lab File: 6W23752.D
Acq: 21 Jan 2022 11:48 pm

Tgt Ion:166 Resp: 1443

Ion	Ratio	Lower	Upper
166	100		
129	76.5	52.8	98.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23753.D
Acq On : 22 Jan 2022 12:40 am
Operator : thomash
Sample : jd38291-17
Misc : MS56249,V6W1016,400,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 10:09:40 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

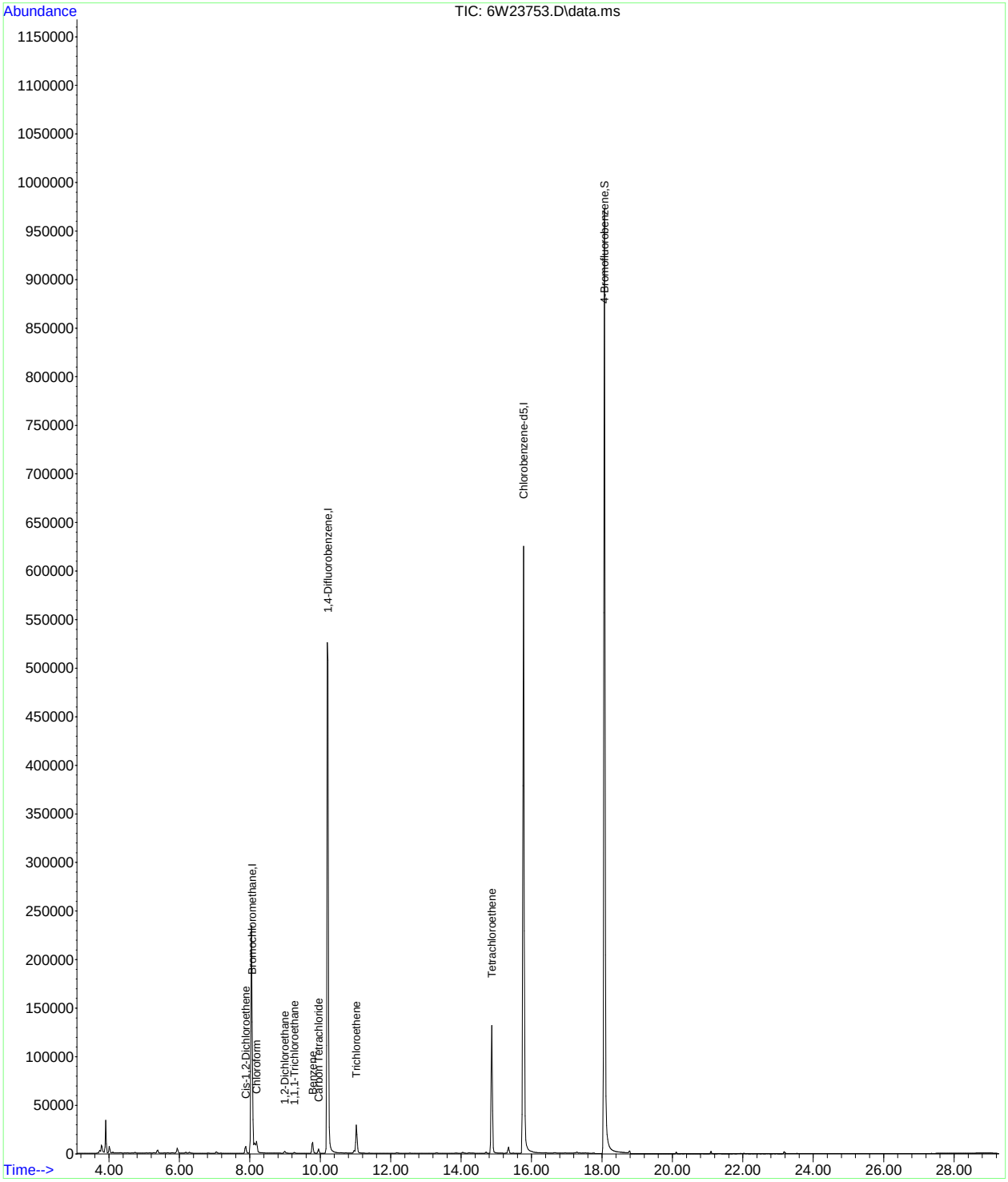
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	217023	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1198633	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	585499	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	715117	10.01	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.10%			
Target Compounds						Qvalue
6) Cis-1,2-Dichloroethene	7.884	61	9461	0.15	ppb(v	90
7) Chloroform	8.191	83	14920	0.14	ppb(v	91
8) 1,1,1-Trichloroethane	9.257	97	897	0.01	ppb(v	97
9) 1,2-Dichloroethane	8.991	62	2701	0.04	ppb(v	90
10) Benzene	9.783	78	25590	0.14	ppb(v	90
11) Carbon Tetrachloride	9.953	117	5594	0.05	ppb(v	99
13) Trichloroethene	11.025	95	39002	0.44	ppb(v	96
20) Tetrachloroethene	14.873	166	177954	0.98	ppb(v	96

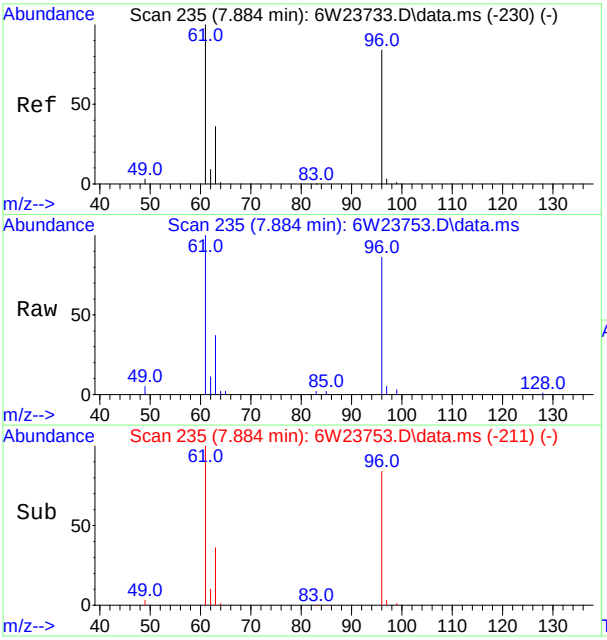
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23753.D
Acq On : 22 Jan 2022 12:40 am
Operator : thomash
Sample : jd38291-17
Misc : MS56249,V6W1016,400,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 10:09:40 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

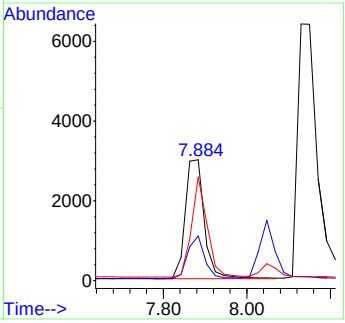


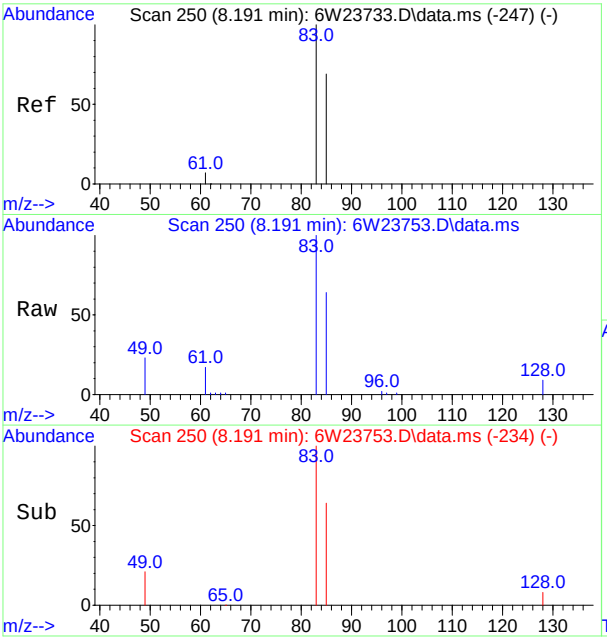


#6
Cis-1,2-Dichloroethene
Concen: 0.15 ppb(v)
RT: 7.884 min Scan# 235
Delta R.T. -0.000 min
Lab File: 6W23753.D
Acq: 22 Jan 2022 12:40 am

Tgt Ion: 61 Resp: 9461

Ion	Ratio	Lower	Upper
61	100		
63	32.1	26.6	39.8
96	68.9	64.3	96.5

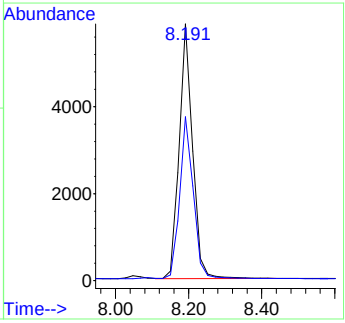


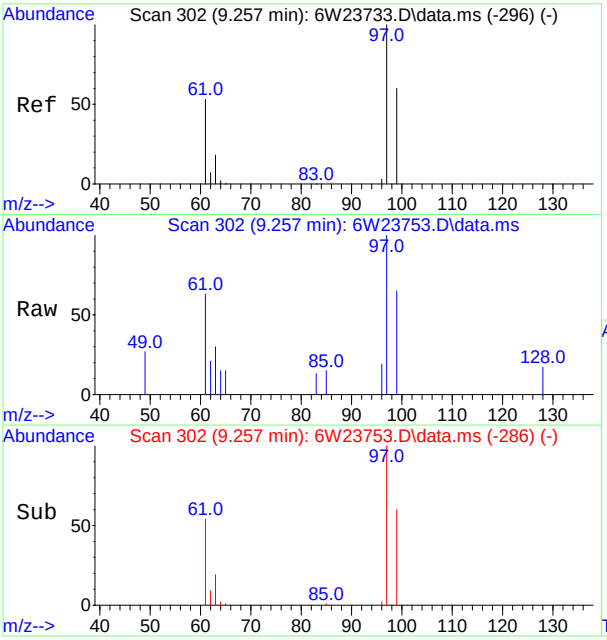


#7
Chloroform
Concen: 0.14 ppb(v)
RT: 8.191 min Scan# 250
Delta R.T. 0.000 min
Lab File: 6W23753.D
Acq: 22 Jan 2022 12:40 am

Tgt Ion: 83 Resp: 14920

Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.2	93.2

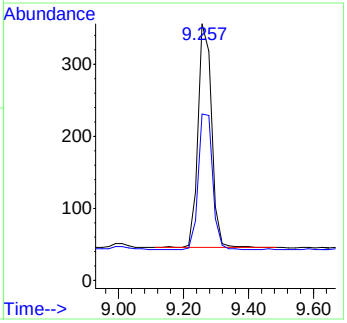


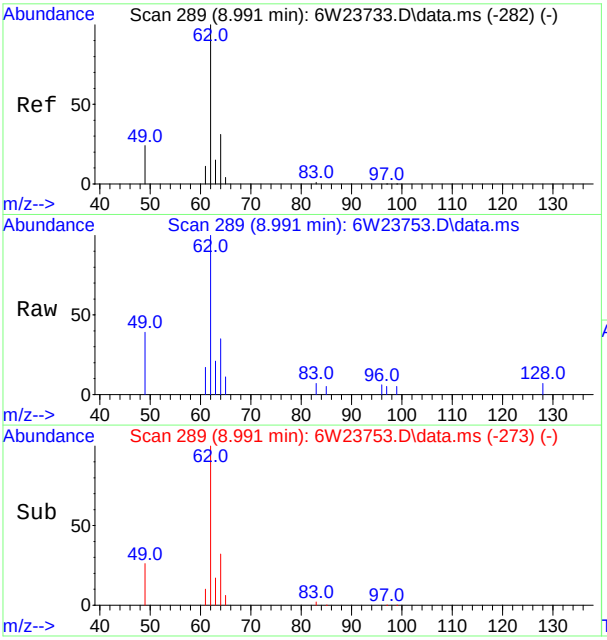


#8
1,1,1-Trichloroethane
Concen: 0.01 ppb(v)
RT: 9.257 min Scan# 302
Delta R.T. -0.000 min
Lab File: 6W23753.D
Acq: 22 Jan 2022 12:40 am

Tgt Ion: 97 Resp: 897

Ion	Ratio	Lower	Upper
97	100		
99	64.9	44.0	81.8

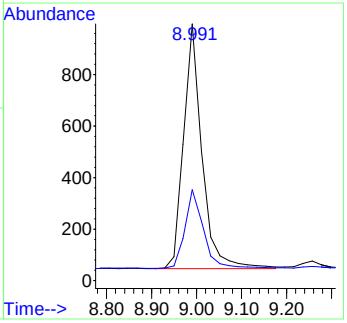


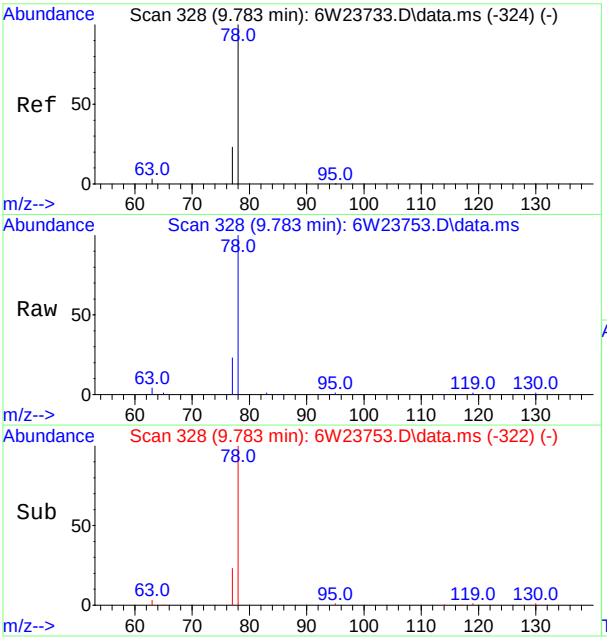


#9
1,2-Dichloroethane
Concen: 0.04 ppb(v)
RT: 8.991 min Scan# 289
Delta R.T. -0.000 min
Lab File: 6W23753.D
Acq: 22 Jan 2022 12:40 am

Tgt Ion: 62 Resp: 2701

Ion	Ratio	Lower	Upper
62	100		
64	35.4	29.0	53.9

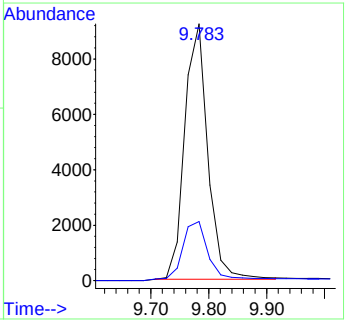


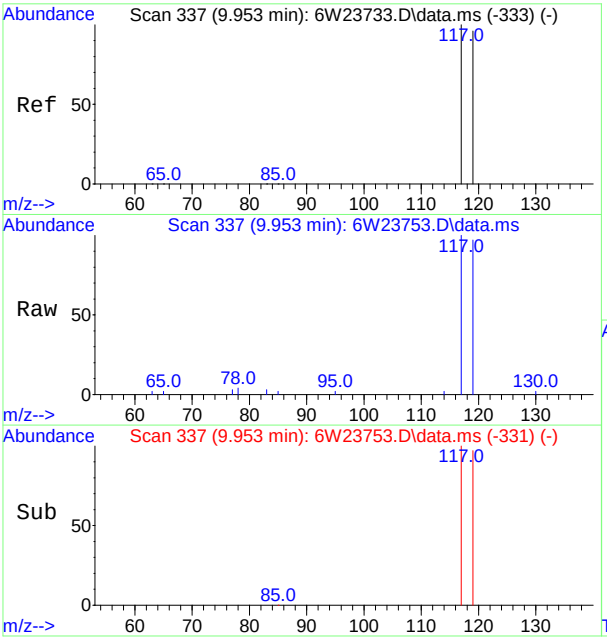


#10
Benzene
Concen: 0.14 ppb(v)
RT: 9.783 min Scan# 328
Delta R.T. 0.000 min
Lab File: 6W23753.D
Acq: 22 Jan 2022 12:40 am

Tgt Ion: 78 Resp: 25590

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.9	37.0

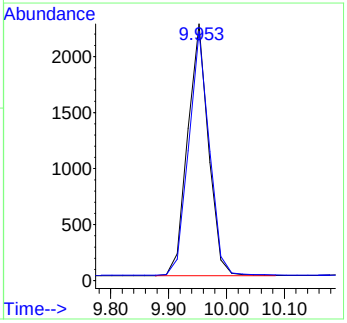


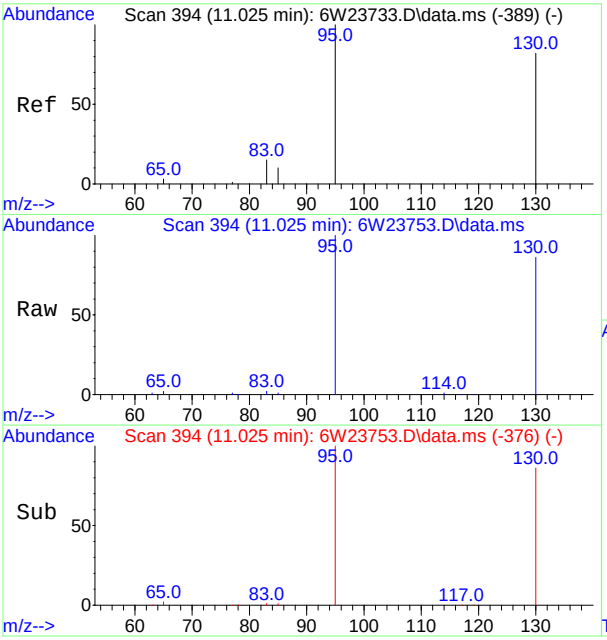


#11
Carbon Tetrachloride
Concen: 0.05 ppb(v)
RT: 9.953 min Scan# 337
Delta R.T. -0.000 min
Lab File: 6W23753.D
Acq: 22 Jan 2022 12:40 am

Tgt Ion:117 Resp: 5594

Ion	Ratio	Lower	Upper
117	100		
119	97.1	68.5	127.1

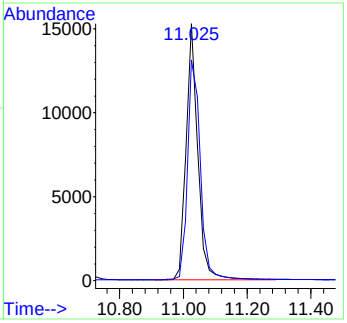


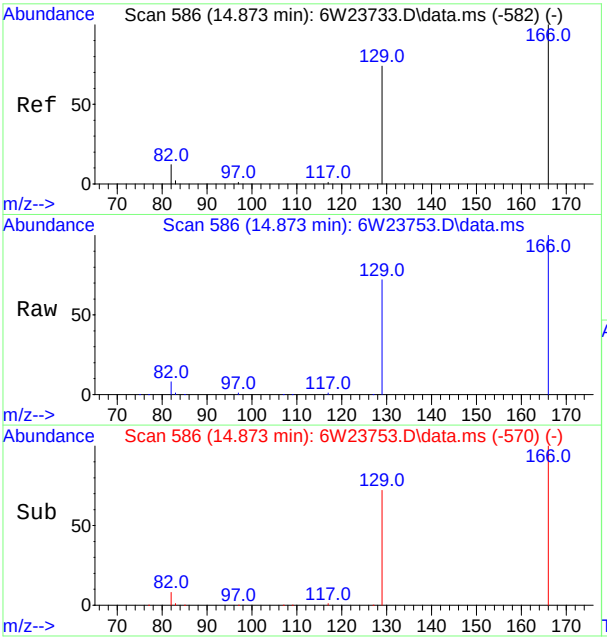


#13
Trichloroethene
Concen: 0.44 ppb(v)
RT: 11.025 min Scan# 394
Delta R.T. 0.000 min
Lab File: 6W23753.D
Acq: 22 Jan 2022 12:40 am

Tgt Ion: 95 Resp: 39002

Ion	Ratio	Lower	Upper
95	100		
130	85.9	57.8	107.4

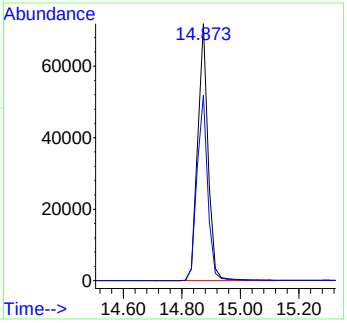




#20
Tetrachloroethene
Concen: 0.98 ppb(v)
RT: 14.873 min Scan# 586
Delta R.T. 0.000 min
Lab File: 6W23753.D
Acq: 22 Jan 2022 12:40 am

Tgt Ion:166 Resp: 177954

Ion	Ratio	Lower	Upper
166	100		
129	72.2	52.8	98.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23763.D
Acq On : 24 Jan 2022 2:15 pm
Operator : thomash
Sample : jd38291-17
Misc : MS56256,V6W1016,10,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 25 09:05:10 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

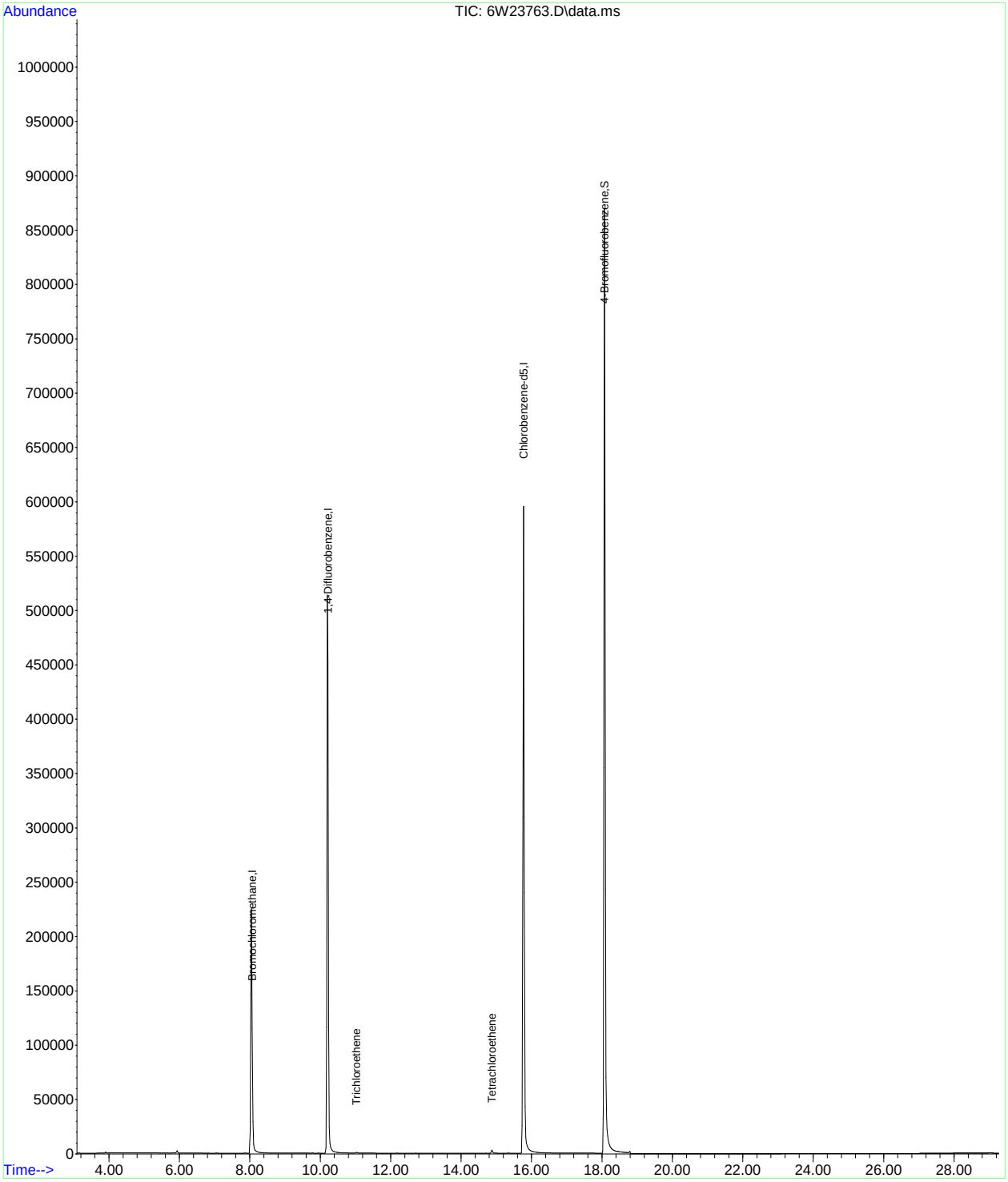
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	204329	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1113133	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	555116	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	648498	9.57	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 95.70%			
Target Compounds						Qvalue
13) Trichloroethene	11.025	95	975	0.01	ppb(v	95
20) Tetrachloroethene	14.873	166	4164	0.02	ppb(v	97

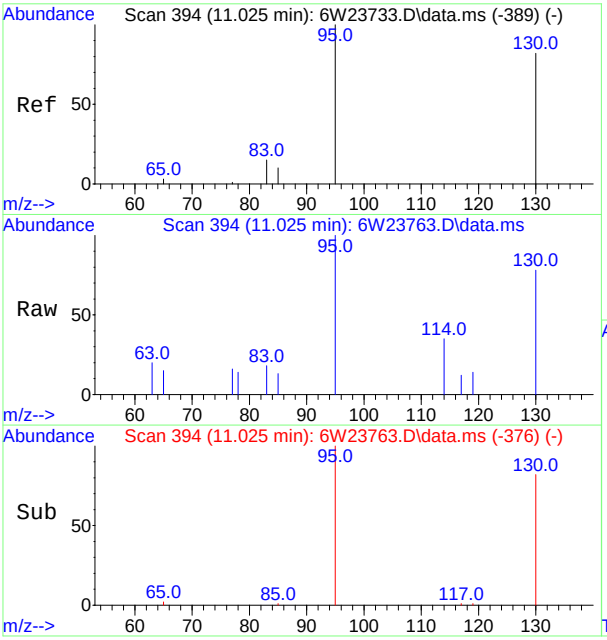
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23763.D
Acq On : 24 Jan 2022 2:15 pm
Operator : thomash
Sample : jd38291-17
Misc : MS56256,V6W1016,10,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 25 09:05:10 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

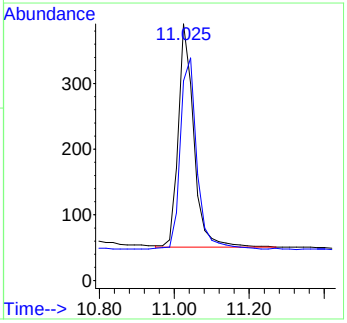


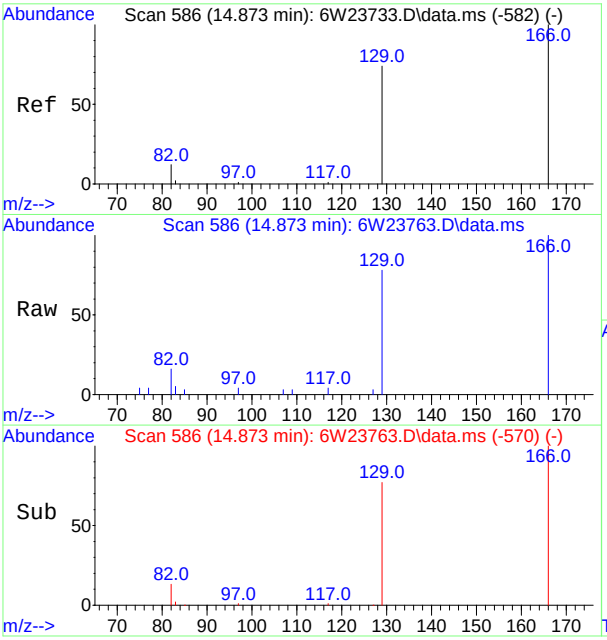


#13
Trichloroethene
Concen: 0.01 ppb(v)
RT: 11.025 min Scan# 394
Delta R.T. -0.000 min
Lab File: 6W23763.D
Acq: 24 Jan 2022 2:15 pm

Tgt Ion: 95 Resp: 975

Ion	Ratio	Lower	Upper
95	100		
130	77.7	57.8	107.4

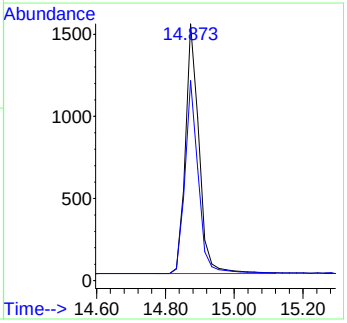




#20
Tetrachloroethene
Concen: 0.02 ppb(v)
RT: 14.873 min Scan# 586
Delta R.T. 0.000 min
Lab File: 6W23763.D
Acq: 24 Jan 2022 2:15 pm

Tgt Ion:166 Resp: 4164

Ion	Ratio	Lower	Upper
166	100		
129	77.9	52.8	98.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23746.D
Acq On : 21 Jan 2022 6:41 pm
Operator : thomash
Sample : mb
Misc : MS56242,V6W1016,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 10:03:31 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

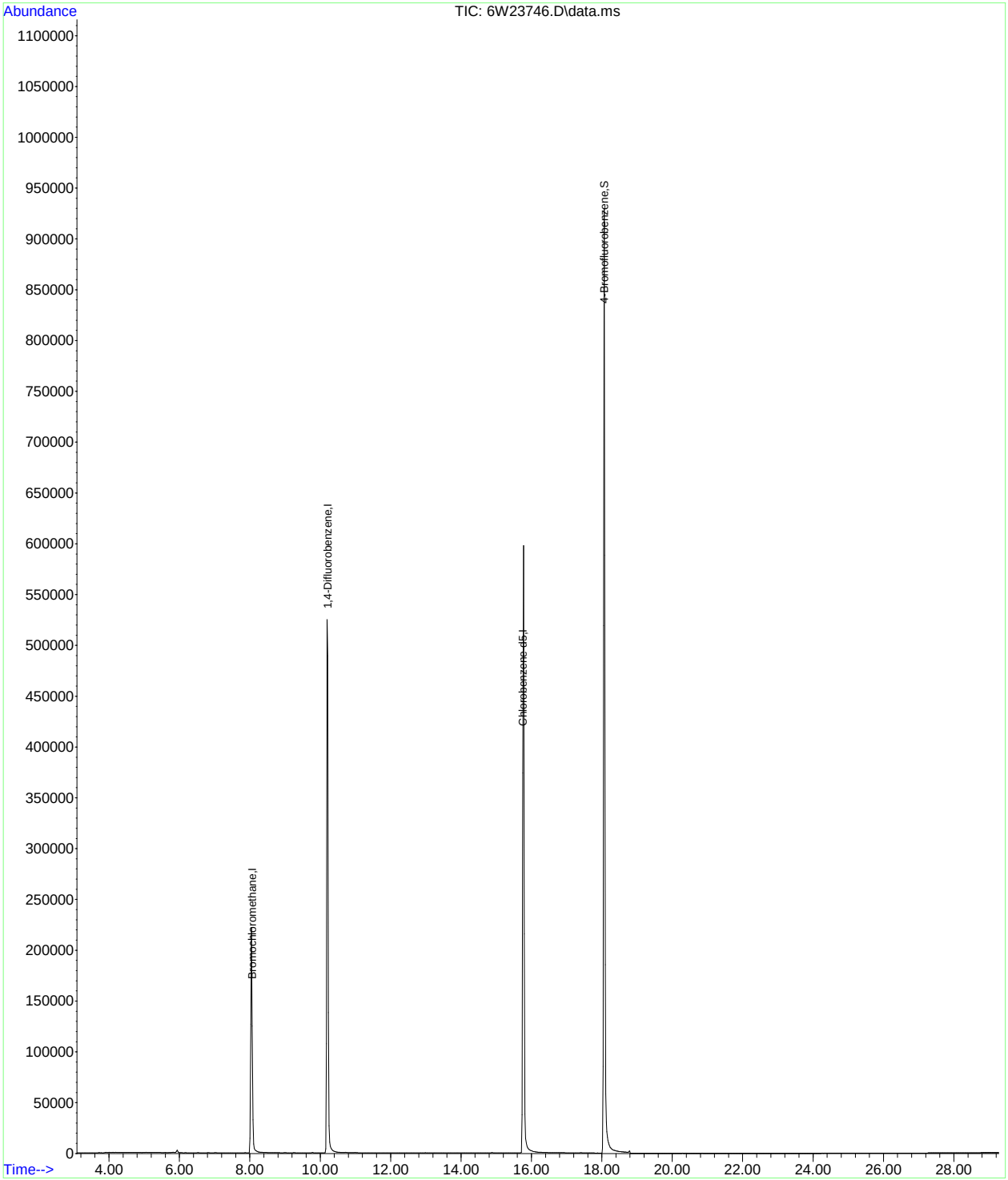
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	214012	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1177931	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.755	82	561618	10.00	ppb(v	#-0.02
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	662631	9.67	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 96.70%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23746.D
Acq On : 21 Jan 2022 6:41 pm
Operator : thomash
Sample : mb
Misc : MS56242,V6W1016,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 10:03:31 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23760.D
Acq On : 24 Jan 2022 11:47 am
Operator : thomash
Sample : mb2
Misc : MS56249,V6W1016,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 14:08:49 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

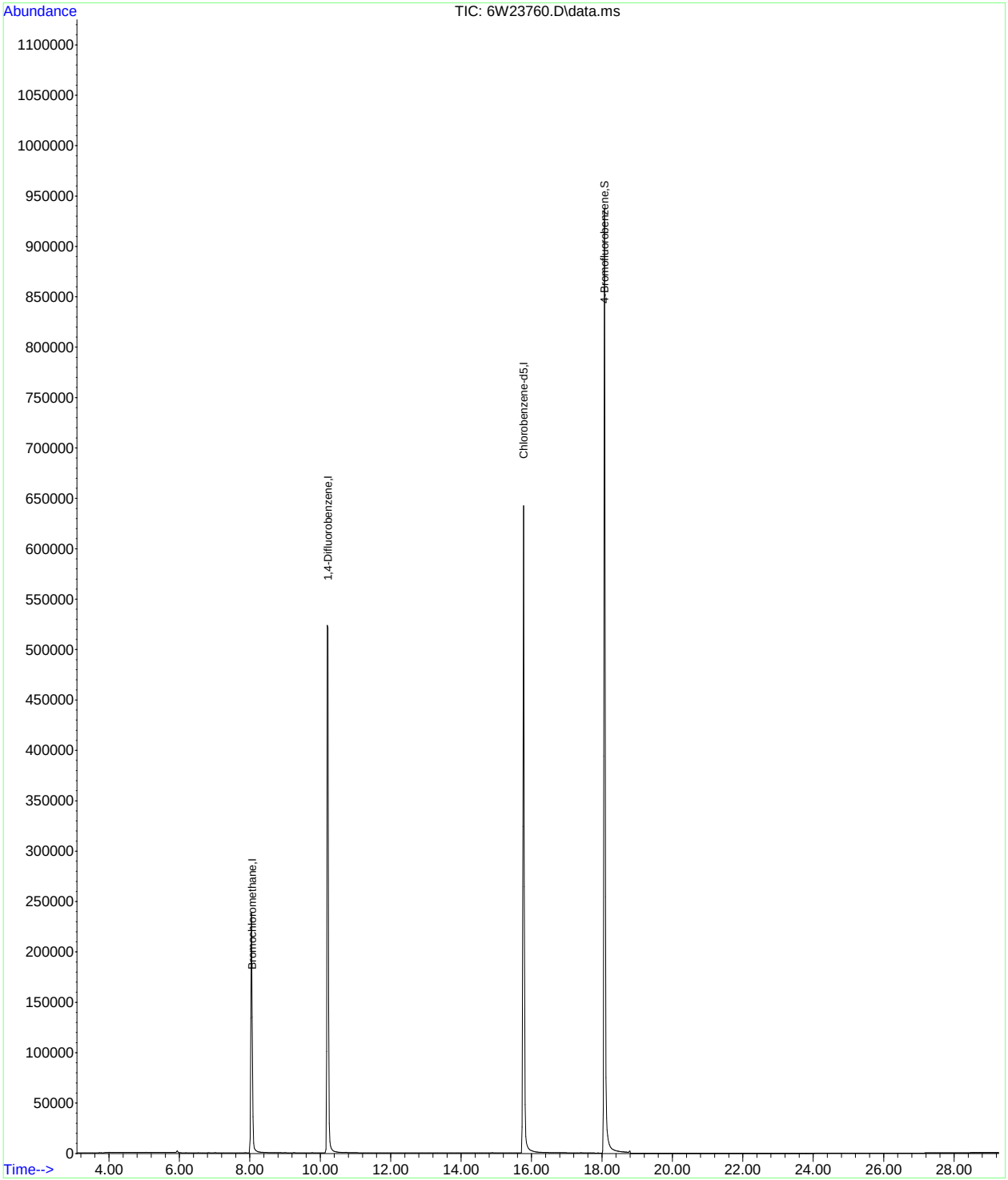
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	218448	10.00	ppb(v	# 0.00
12) 1,4-Difluorobenzene	10.216	114	1205934	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	592966	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	695999	9.62	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 96.20%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23760.D
Acq On : 24 Jan 2022 11:47 am
Operator : thomash
Sample : mb2
Misc : MS56249,V6W1016,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 14:08:49 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23471.D
Acq On : 17 Dec 2021 3:22 pm
Operator : danat
Sample : mb
Misc : MS55468,V6W998,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 10:07:33 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:15:22 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.089	128	141534	10.00	ppb(v	# 0.00
12) 1,4-Difluorobenzene	10.235	114	836248	10.00	ppb(v	# 0.00
22) Chlorobenzene-d5	15.837	82	478473	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.114	95	557469	9.52	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 95.20%			
Target Compounds						Qvalue

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

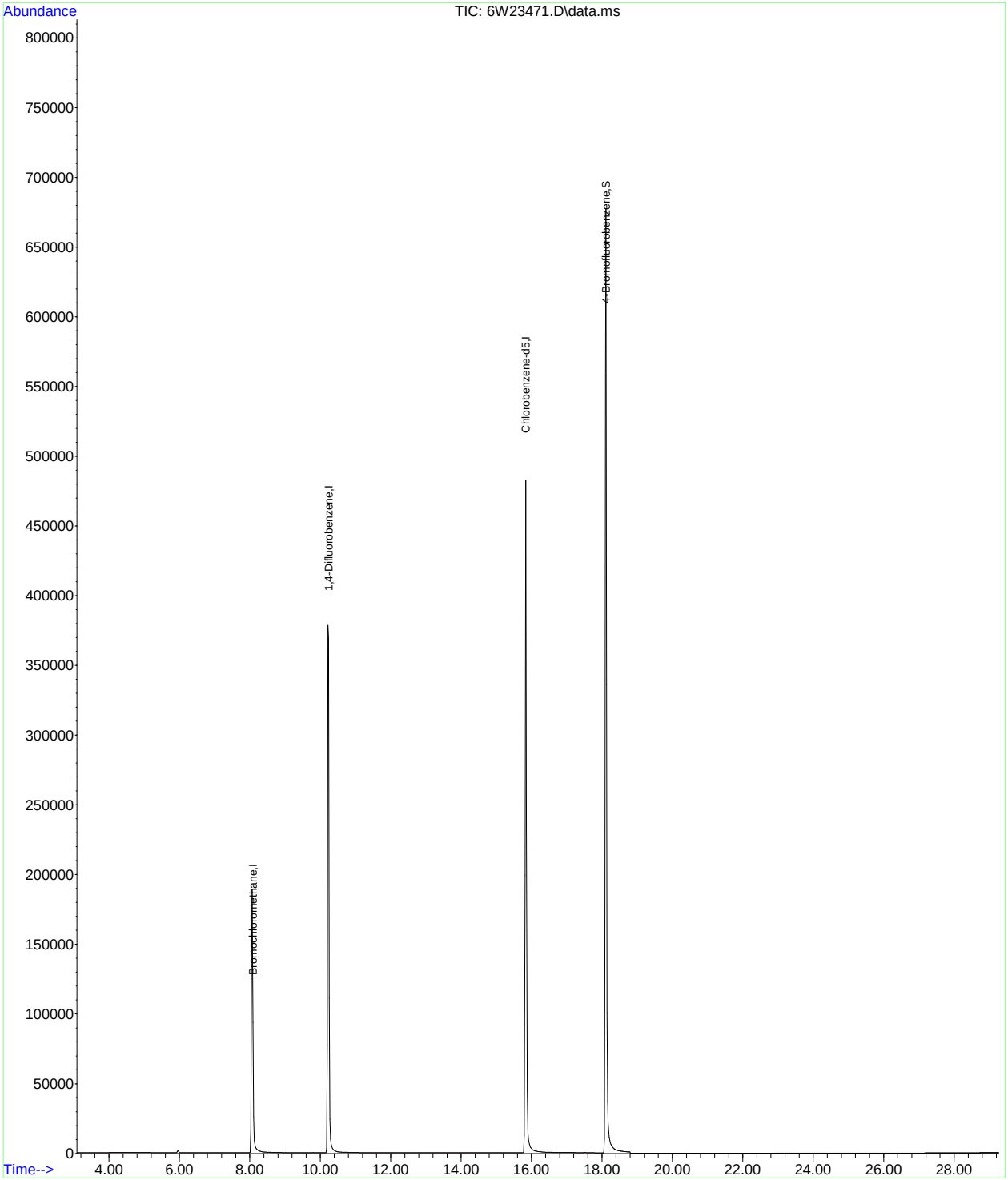
7.2.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23471.D
Acq On : 17 Dec 2021 3:22 pm
Operator : danat
Sample : mb
Misc : MS55468,V6W998,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 10:07:33 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:15:22 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23743.D
Acq On : 21 Jan 2022 4:15 pm
Operator : thomash
Sample : bs
Misc : MS56242,V6W1016,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 24 09:53:22 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

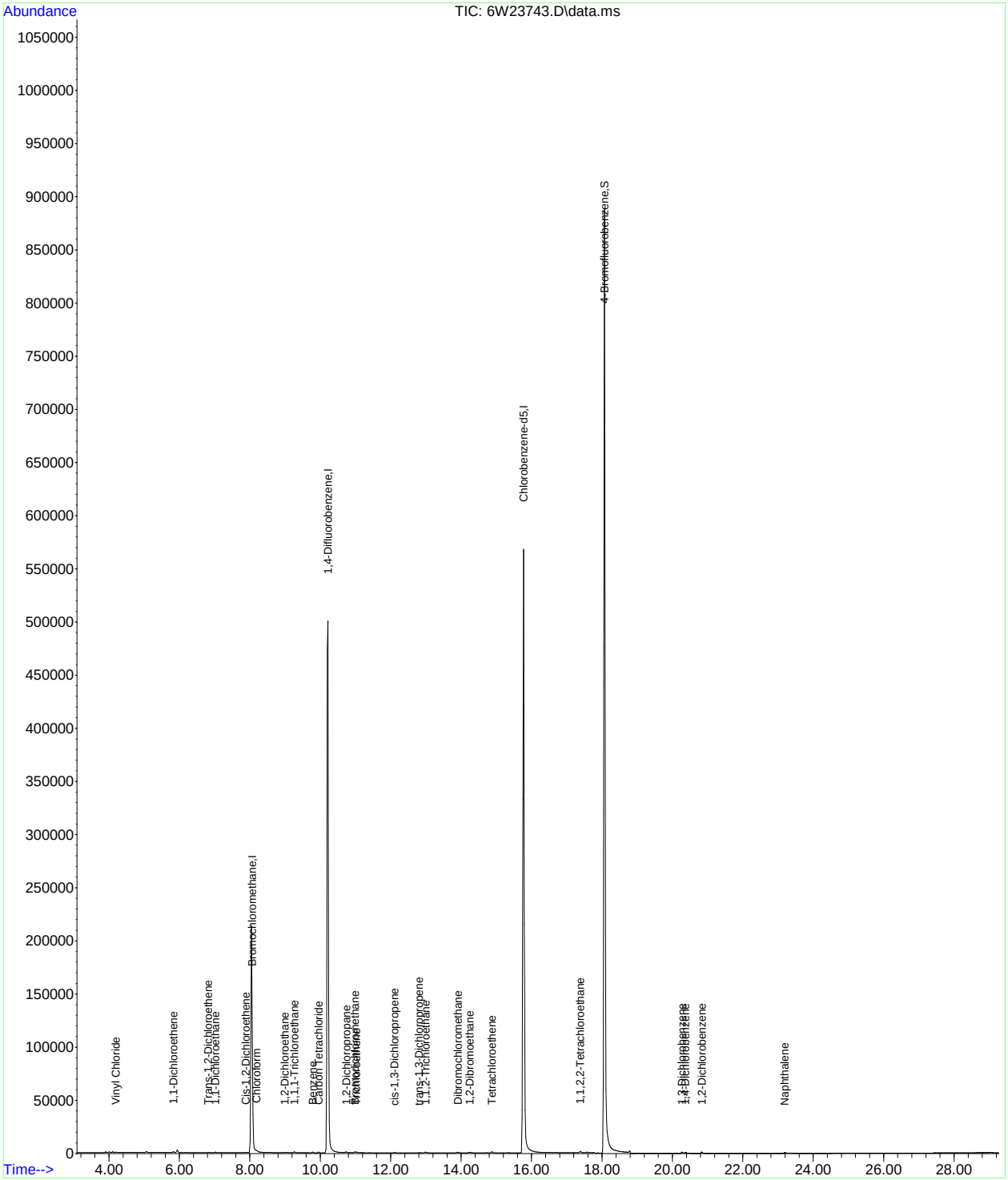
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	210696	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1142246	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	527287	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	640285	9.95	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.50%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	590	0.01	ppb(v	99
3) 1,1-Dichloroethene	5.834	61	1127	0.01	ppb(v	95
4) Trans-1,2-Dichloroethene	6.818	61	607	0.01	ppb(v	97
5) 1,1-Dichloroethane	7.023	63	919	0.01	ppb(v	99
6) Cis-1,2-Dichloroethene	7.884	61	648	0.01	ppb(v	94
7) Chloroform	8.191	83	1155	0.01	ppb(v	99
8) 1,1,1-Trichloroethane	9.257	97	1165	0.01	ppb(v	100
9) 1,2-Dichloroethane	8.991	62	804	0.01	ppb(v	98
10) Benzene	9.783	78	1854	0.01	ppb(v	98
11) Carbon Tetrachloride	9.953	117	1085	0.01	ppb(v	99
13) Trichloroethene	11.025	95	947	0.01	ppb(v	96
14) 1,2-Dichloropropane	10.743	65	218	0.01	ppb(v	99
15) Bromodichloromethane	10.987	83	1558	0.01	ppb(v	100
16) cis-1,3-Dichloropropene	12.106	75	899	0.01	ppb(v	98
17) trans-1,3-Dichloropropene	12.803	75	833	0.01	ppb(v	99
18) 1,1,2-Trichloroethane	12.987	83	838	0.01	ppb(v	98
19) Dibromochloromethane	13.910	129	1359	0.01	ppb(v	100
20) Tetrachloroethene	14.873	166	1620	0.01	ppb(v	97
21) 1,2-Dibromoethane	14.238	107	1177	0.01	ppb(v	99
23) 1,1,2,2-Tetrachloroethane	17.374	83	2432	0.01	ppb(v	99
25) 1,3-Dichlorobenzene	20.269	146	1735	0.01	ppb(v	99
26) 1,4-Dichlorobenzene	20.367	146	2021	0.01	ppb(v	99
27) 1,2-Dichlorobenzene	20.832	146	2134	0.01	ppb(v	95
28) Naphthalene	23.185	128	2598	0.01	ppb(v	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23743.D
Acq On : 21 Jan 2022 4:15 pm
Operator : thomash
Sample : bs
Misc : MS56242,V6W1016,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 24 09:53:22 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23744.D
Acq On : 21 Jan 2022 5:03 pm
Operator : thomash
Sample : bsd
Misc : MS56242,V6W1016,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 24 09:53:30 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

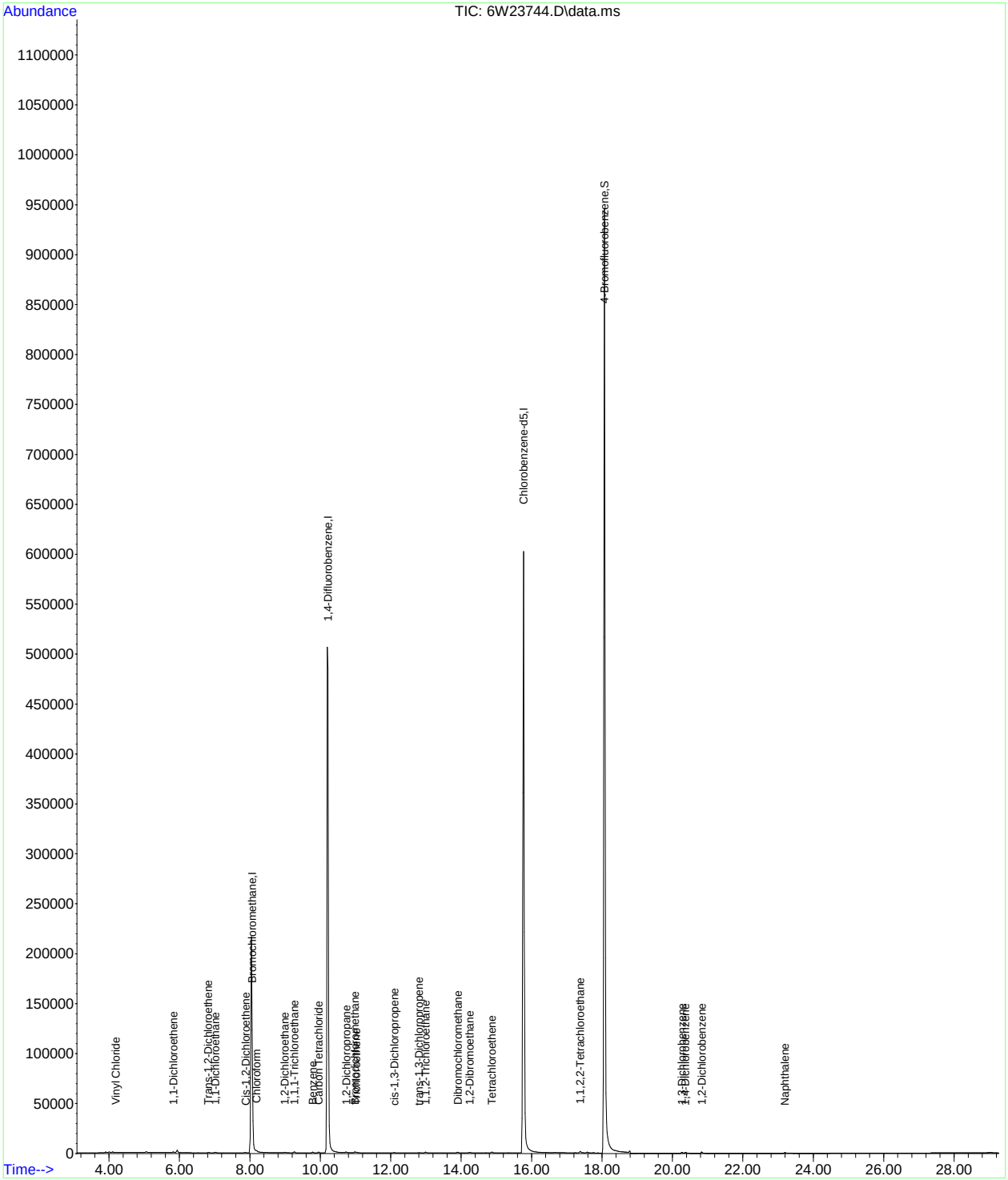
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	212251	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1157905	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	558710	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	673352	9.87	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.70%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	577	0.01	ppb(v	97
3) 1,1-Dichloroethene	5.834	61	1144	0.01	ppb(v	96
4) Trans-1,2-Dichloroethene	6.818	61	608	0.01	ppb(v	98
5) 1,1-Dichloroethane	7.023	63	903	0.01	ppb(v	98
6) Cis-1,2-Dichloroethene	7.883	61	636	0.01	ppb(v	95
7) Chloroform	8.191	83	1145	0.01	ppb(v	99
8) 1,1,1-Trichloroethane	9.257	97	1140	0.01	ppb(v	98
9) 1,2-Dichloroethane	8.990	62	802	0.01	ppb(v	99
10) Benzene	9.783	78	1836	0.01	ppb(v	98
11) Carbon Tetrachloride	9.952	117	1094	0.01	ppb(v	99
13) Trichloroethene	11.025	95	806	0.01	ppb(v	98
14) 1,2-Dichloropropane	10.743	65	233	0.01	ppb(v	100
15) Bromodichloromethane	10.987	83	1541	0.01	ppb(v	99
16) cis-1,3-Dichloropropene	12.106	75	900	0.01	ppb(v	99
17) trans-1,3-Dichloropropene	12.803	75	819	0.01	ppb(v	99
18) 1,1,2-Trichloroethane	12.987	83	838	0.01	ppb(v	96
19) Dibromochloromethane	13.910	129	1347	0.01	ppb(v	99
20) Tetrachloroethene	14.873	166	1427	0.01	ppb(v	97
21) 1,2-Dibromoethane	14.238	107	1166	0.01	ppb(v	99
23) 1,1,2,2-Tetrachloroethane	17.374	83	2402	0.01	ppb(v	99
25) 1,3-Dichlorobenzene	20.268	146	1701	0.01	ppb(v	99
26) 1,4-Dichlorobenzene	20.367	146	1982	0.01	ppb(v	99
27) 1,2-Dichlorobenzene	20.832	146	2090	0.01	ppb(v	94
28) Naphthalene	23.192	128	2421	0.01	ppb(v	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23744.D
Acq On : 21 Jan 2022 5:03 pm
Operator : thomash
Sample : bsd
Misc : MS56242,V6W1016,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 24 09:53:30 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23757.D
Acq On : 24 Jan 2022 9:05 am
Operator : thomash
Sample : bs2
Misc : MS56249,V6W1016,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 10:31:59 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

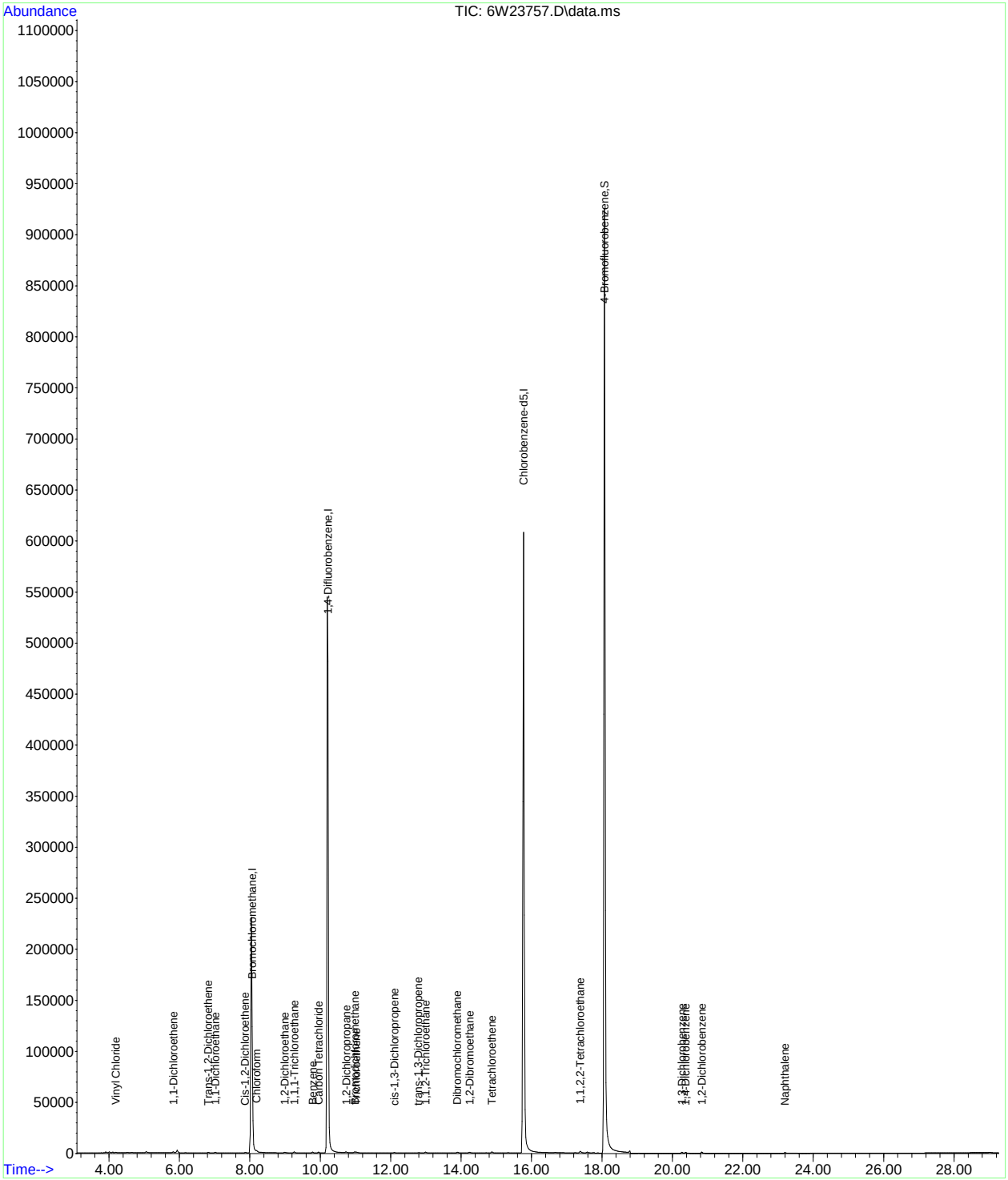
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	218599	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1192973	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	565588	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	682210	9.88	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.80%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	620	0.01	ppb(v	99
3) 1,1-Dichloroethene	5.834	61	1111	0.01	ppb(v#	68
4) Trans-1,2-Dichloroethene	6.818	61	664	0.01	ppb(v	93
5) 1,1-Dichloroethane	7.023	63	997	0.01	ppb(v	99
6) Cis-1,2-Dichloroethene	7.863	61	695	0.01	ppb(v	90
7) Chloroform	8.191	83	1232	0.01	ppb(v	99
8) 1,1,1-Trichloroethane	9.257	97	1199	0.01	ppb(v	99
9) 1,2-Dichloroethane	8.990	62	867	0.01	ppb(v	99
10) Benzene	9.783	78	1993	0.01	ppb(v	98
11) Carbon Tetrachloride	9.953	117	1135	0.01	ppb(v	99
13) Trichloroethene	11.025	95	1014	0.01	ppb(v	98
14) 1,2-Dichloropropane	10.743	65	243	0.01	ppb(v	99
15) Bromodichloromethane	10.987	83	1620	0.01	ppb(v	100
16) cis-1,3-Dichloropropene	12.106	75	959	0.01	ppb(v	96
17) trans-1,3-Dichloropropene	12.782	75	887	0.01	ppb(v	99
18) 1,1,2-Trichloroethane	12.987	83	888	0.01	ppb(v	99
19) Dibromochloromethane	13.889	129	1392	0.01	ppb(v	93
20) Tetrachloroethene	14.873	166	1594	0.01	ppb(v	97
21) 1,2-Dibromoethane	14.238	107	1229	0.01	ppb(v	99
23) 1,1,2,2-Tetrachloroethane	17.374	83	2507	0.01	ppb(v	98
25) 1,3-Dichlorobenzene	20.268	146	1661	0.01	ppb(v	97
26) 1,4-Dichlorobenzene	20.374	146	1926	0.01	ppb(v	98
27) 1,2-Dichlorobenzene	20.832	146	2097	0.01	ppb(v	97
28) Naphthalene	23.192	128	2358	0.01	ppb(v	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23757.D
Acq On : 24 Jan 2022 9:05 am
Operator : thomash
Sample : bs2
Misc : MS56249,V6W1016,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 10:31:59 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23758.D
Acq On : 24 Jan 2022 9:53 am
Operator : thomash
Sample : bsd2
Misc : MS56249,V6W1016,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 10:32:23 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

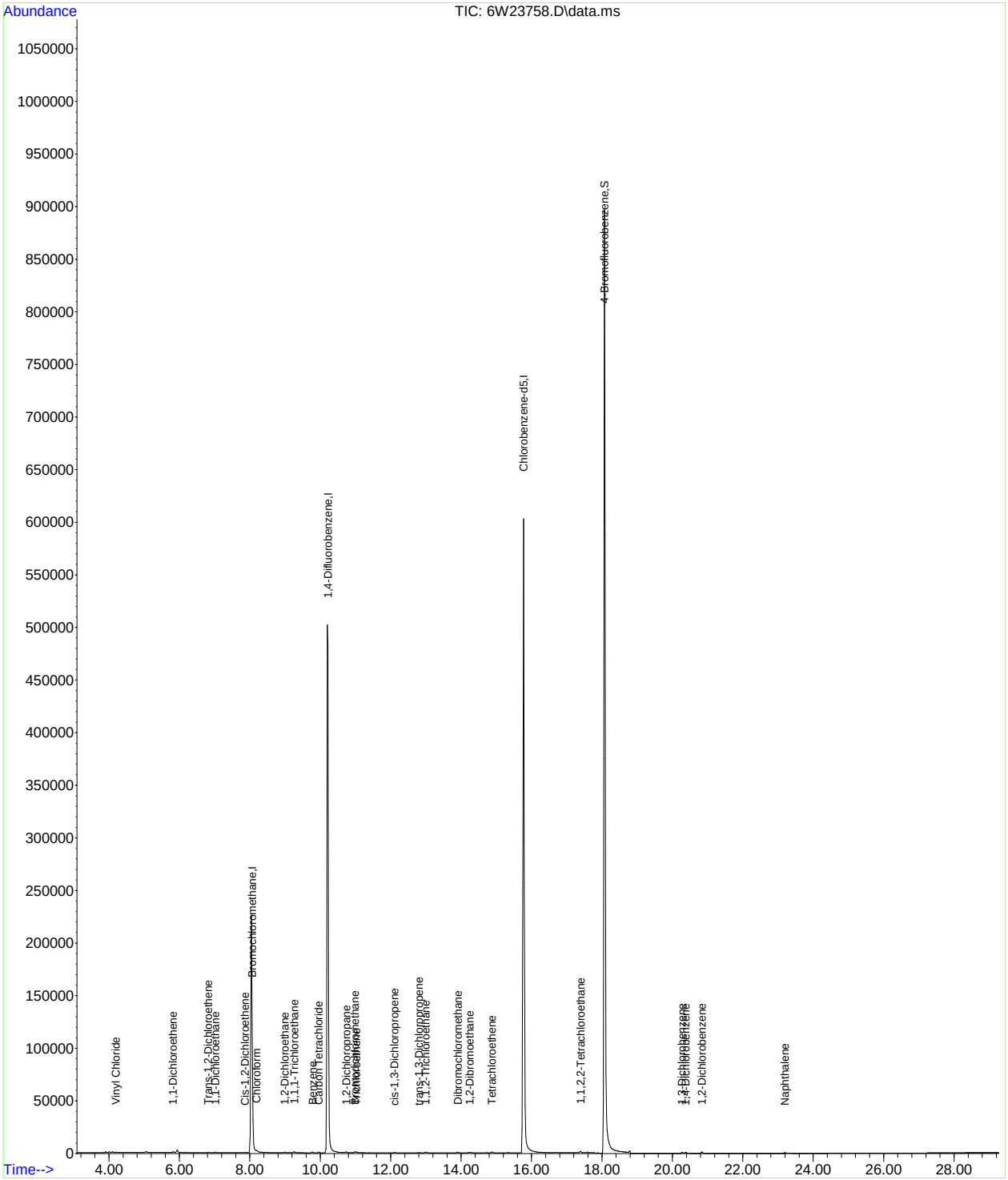
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	211814	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1140479	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	548721	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	673759	10.06	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.60%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	606	0.01	ppb(v	98
3) 1,1-Dichloroethene	5.813	61	1048	0.01	ppb(v#	62
4) Trans-1,2-Dichloroethene	6.818	61	678	0.01	ppb(v	95
5) 1,1-Dichloroethane	7.023	63	970	0.01	ppb(v	100
6) Cis-1,2-Dichloroethene	7.863	61	686	0.01	ppb(v	91
7) Chloroform	8.191	83	1220	0.01	ppb(v	100
8) 1,1,1-Trichloroethane	9.257	97	1199	0.01	ppb(v	99
9) 1,2-Dichloroethane	8.990	62	847	0.01	ppb(v	99
10) Benzene	9.783	78	1931	0.01	ppb(v	99
11) Carbon Tetrachloride	9.952	117	1119	0.01	ppb(v	98
13) Trichloroethene	11.025	95	972	0.01	ppb(v	97
14) 1,2-Dichloropropane	10.743	65	251	0.01	ppb(v	99
15) Bromodichloromethane	10.987	83	1621	0.01	ppb(v	99
16) cis-1,3-Dichloropropene	12.106	75	921	0.01	ppb(v	97
17) trans-1,3-Dichloropropene	12.803	75	855	0.01	ppb(v	98
18) 1,1,2-Trichloroethane	12.987	83	867	0.01	ppb(v	98
19) Dibromochloromethane	13.910	129	1368	0.01	ppb(v	100
20) Tetrachloroethene	14.873	166	1552	0.01	ppb(v	95
21) 1,2-Dibromoethane	14.238	107	1191	0.01	ppb(v	98
23) 1,1,2,2-Tetrachloroethane	17.395	83	2485	0.01	ppb(v	92
25) 1,3-Dichlorobenzene	20.268	146	1582	0.01	ppb(v	98
26) 1,4-Dichlorobenzene	20.374	146	1835	0.01	ppb(v	99
27) 1,2-Dichlorobenzene	20.832	146	2008	0.01	ppb(v	98
28) Naphthalene	23.192	128	2082	0.01	ppb(v	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23758.D
Acq On : 24 Jan 2022 9:53 am
Operator : thomash
Sample : bsd2
Misc : MS56249,V6W1016,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 10:32:23 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23468.D
Acq On : 17 Dec 2021 12:45 pm
Operator : danat
Sample : bs
Misc : MS55468,V6W998,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 17 14:06:10 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:15:22 2021
Response via : Initial Calibration

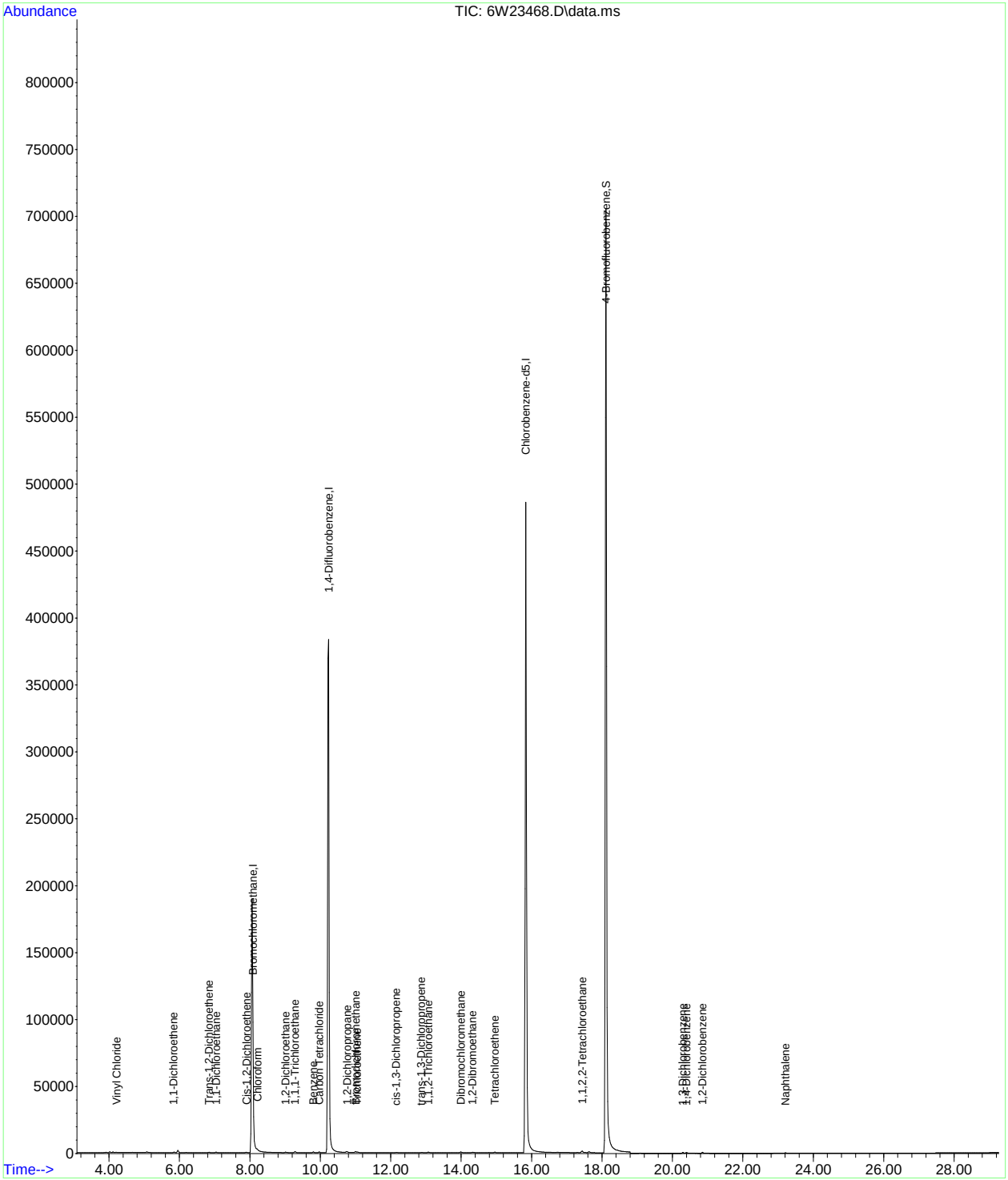
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.088	128	141842	10.00	ppb(v	# 0.00
12) 1,4-Difluorobenzene	10.235	114	847649	10.00	ppb(v	# 0.00
22) Chlorobenzene-d5	15.837	82	488281	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.114	95	571617	9.56	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 95.60%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.214	62	363	0.01	ppb(v	98
3) 1,1-Dichloroethene	5.834	61	647	0.01	ppb(v	92
4) Trans-1,2-Dichloroethene	6.838	61	576	0.01	ppb(v#	88
5) 1,1-Dichloroethane	7.043	63	834	0.01	ppb(v	98
6) Cis-1,2-Dichloroethene	7.904	61	601	0.01	ppb(v#	87
7) Chloroform	8.211	83	1011	0.01	ppb(v	94
8) 1,1,1-Trichloroethane	9.277	97	961	0.01	ppb(v	98
9) 1,2-Dichloroethane	9.011	62	814	0.01	ppb(v	97
10) Benzene	9.802	78	1531	0.01	ppb(v	96
11) Carbon Tetrachloride	9.971	117	913	0.01	ppb(v	99
13) Trichloroethene	11.044	95	642	0.01	ppb(v	88
14) 1,2-Dichloropropane	10.762	65	213	0.01	ppb(v	90
15) Bromodichloromethane	11.006	83	1387	0.01	ppb(v	99
16) cis-1,3-Dichloropropene	12.147	75	790	0.01	ppb(v	100
17) trans-1,3-Dichloropropene	12.864	75	732	0.01	ppb(v	100
18) 1,1,2-Trichloroethane	13.069	83	699	0.01	ppb(v	88
19) Dibromochloromethane	13.992	129	1119	0.01	ppb(v	99
20) Tetrachloroethene	14.955	166	777	0.01	ppb(v	91
21) 1,2-Dibromoethane	14.320	107	898	0.01	ppb(v	98
23) 1,1,2,2-Tetrachloroethane	17.436	83	2060	0.01	ppb(v	99
25) 1,3-Dichlorobenzene	20.289	146	971	0.01	ppb(v	100
26) 1,4-Dichlorobenzene	20.395	146	1125	0.01	ppb(v	96
27) 1,2-Dichlorobenzene	20.853	146	1220	0.01	ppb(v	94
28) Naphthalene	23.206	128	1146	0.00	ppb(v#	79

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23468.D
Acq On : 17 Dec 2021 12:45 pm
Operator : danat
Sample : bs
Misc : MS55468,V6W998,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 17 14:06:10 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:15:22 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23469.D
Acq On : 17 Dec 2021 1:35 pm
Operator : danat
Sample : bsd
Misc : MS55468,V6W998,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 17 14:06:46 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:15:22 2021
Response via : Initial Calibration

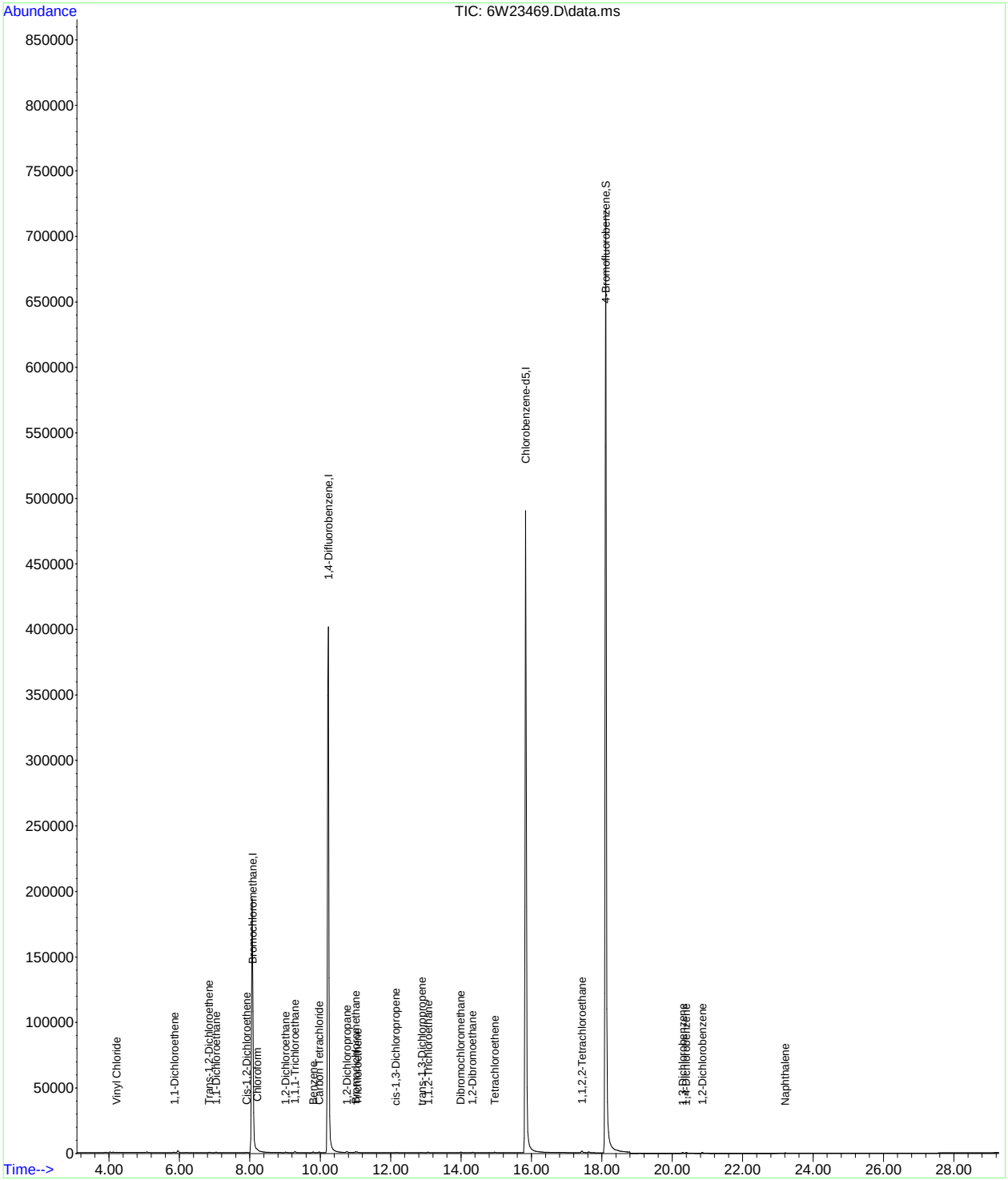
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.088	128	143118	10.00	ppb(v	# 0.00
12) 1,4-Difluorobenzene	10.235	114	849269	10.00	ppb(v	# 0.00
22) Chlorobenzene-d5	15.837	82	487285	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.114	95	577178	9.67	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 96.70%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.214	62	357	0.01	ppb(v	98
3) 1,1-Dichloroethene	5.854	61	627	0.01	ppb(v#	55
4) Trans-1,2-Dichloroethene	6.838	61	573	0.01	ppb(v	94
5) 1,1-Dichloroethane	7.043	63	830	0.01	ppb(v	99
6) Cis-1,2-Dichloroethene	7.904	61	596	0.01	ppb(v	88
7) Chloroform	8.211	83	1005	0.01	ppb(v	94
8) 1,1,1-Trichloroethane	9.277	97	942	0.01	ppb(v	100
9) 1,2-Dichloroethane	9.011	62	823	0.01	ppb(v	97
10) Benzene	9.802	78	1490	0.01	ppb(v	96
11) Carbon Tetrachloride	9.971	117	907	0.01	ppb(v	100
13) Trichloroethene	11.062	95	610	0.01	ppb(v	80
14) 1,2-Dichloropropane	10.761	65	210	0.01	ppb(v	91
15) Bromodichloromethane	11.006	83	1386	0.01	ppb(v	98
16) cis-1,3-Dichloropropene	12.147	75	771	0.01	ppb(v	99
17) trans-1,3-Dichloropropene	12.885	75	716	0.01	ppb(v	96
18) 1,1,2-Trichloroethane	13.069	83	680	0.01	ppb(v	87
19) Dibromochloromethane	13.992	129	1121	0.01	ppb(v	99
20) Tetrachloroethene	14.955	166	787	0.01	ppb(v	93
21) 1,2-Dibromoethane	14.320	107	873	0.01	ppb(v	97
23) 1,1,2,2-Tetrachloroethane	17.436	83	2007	0.01	ppb(v	99
25) 1,3-Dichlorobenzene	20.296	146	951	0.01	ppb(v	97
26) 1,4-Dichlorobenzene	20.395	146	1078	0.01	ppb(v	96
27) 1,2-Dichlorobenzene	20.853	146	1209	0.01	ppb(v	96
28) Naphthalene	23.206	128	1057	0.00	ppb(v#	76

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23469.D
Acq On : 17 Dec 2021 1:35 pm
Operator : danat
Sample : bsd
Misc : MS55468,V6W998,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 17 14:06:46 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:15:22 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23748.D
Acq On : 21 Jan 2022 8:24 pm
Operator : thomash
Sample : jd38295-3dup
Misc : MS56242,V6W1016,400,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 10:05:05 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

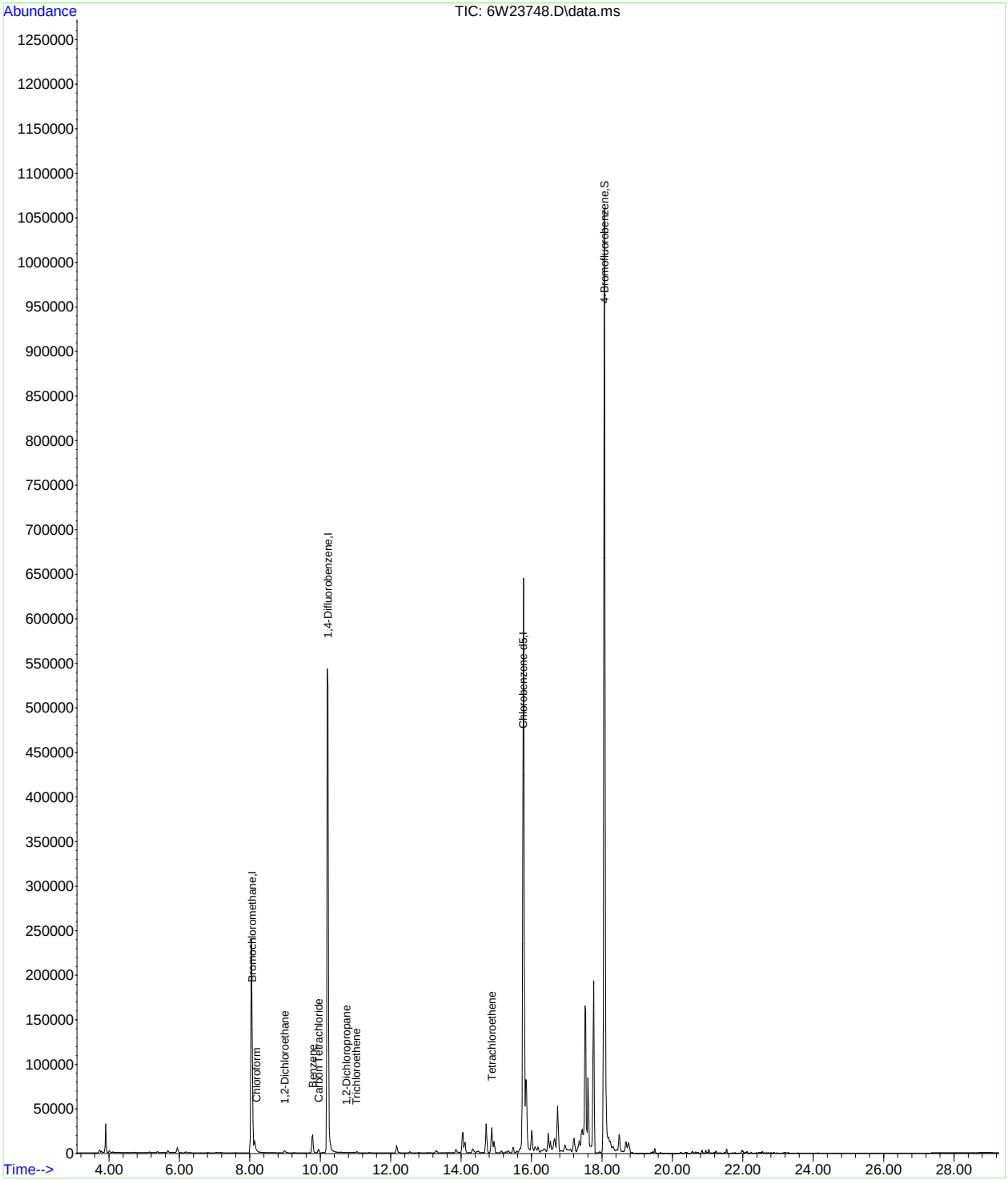
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	228223	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1243595	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.755	82	686157	10.00	ppb(v	#-0.02
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	833671	9.95	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.50%			
Target Compounds						Qvalue
7) Chloroform	8.191	83	1543	0.01	ppb(v	94
9) 1,2-Dichloroethane	8.990	62	2809	0.04	ppb(v	91
10) Benzene	9.783	78	44769	0.24	ppb(v	89
11) Carbon Tetrachloride	9.952	117	5346	0.05	ppb(v	99
13) Trichloroethene	11.025	95	721	0.01	ppb(v	88
14) 1,2-Dichloropropane	10.743	65	230	0.01	ppb(v	96
20) Tetrachloroethene	14.873	166	38087	0.20	ppb(v	97

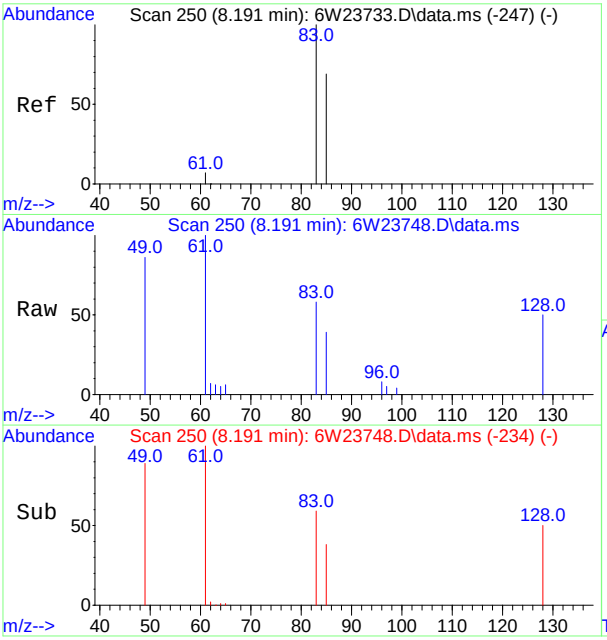
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23748.D
Acq On : 21 Jan 2022 8:24 pm
Operator : thomash
Sample : jd38295-3dup
Misc : MS56242,V6W1016,400,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 10:05:05 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

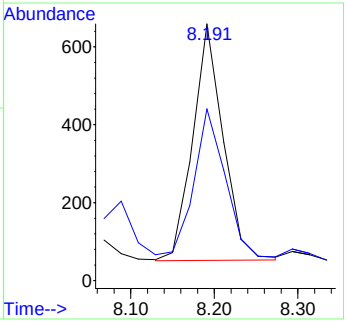


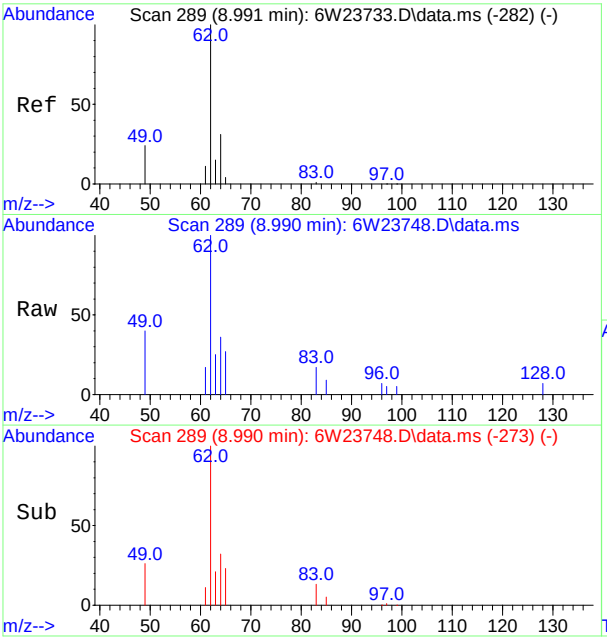


#7
Chloroform
Concen: 0.01 ppb(v)
RT: 8.191 min Scan# 250
Delta R.T. 0.000 min
Lab File: 6W23748.D
Acq: 21 Jan 2022 8:24 pm

Tgt Ion: 83 Resp: 1543

Ion	Ratio	Lower	Upper
83	100		
85	66.9	50.2	93.2

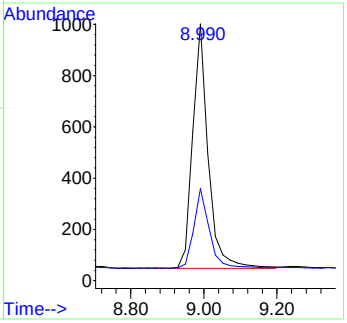


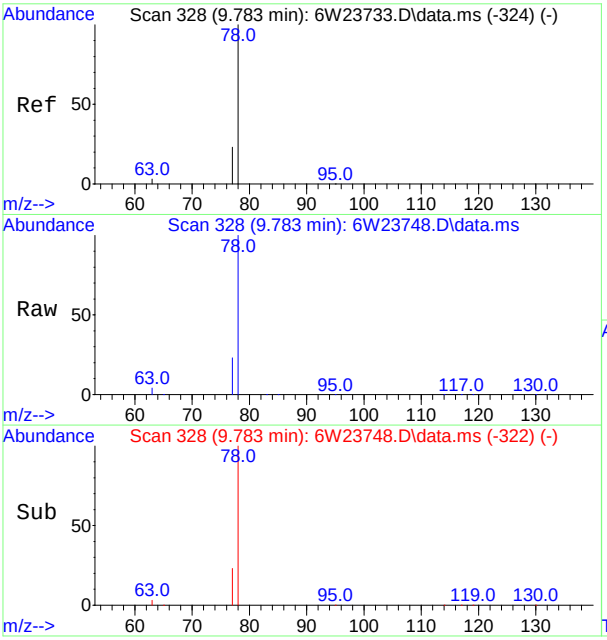


#9
1,2-Dichloroethane
Concen: 0.04 ppb(v)
RT: 8.990 min Scan# 289
Delta R.T. -0.001 min
Lab File: 6W23748.D
Acq: 21 Jan 2022 8:24 pm

Tgt Ion: 62 Resp: 2809

Ion	Ratio	Lower	Upper
62	100		
64	35.8	29.0	53.9

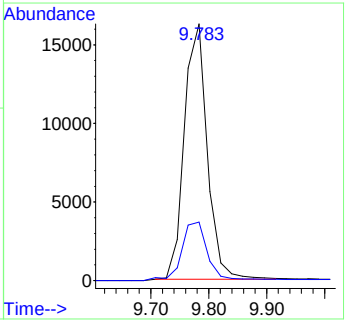


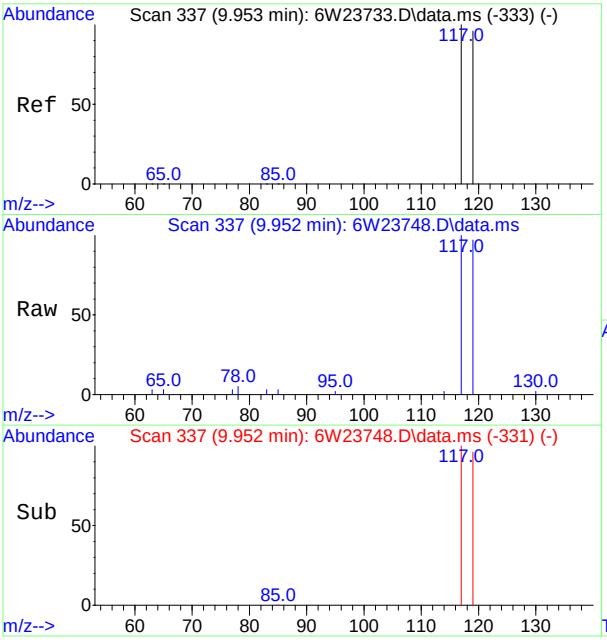


#10
Benzene
Concen: 0.24 ppb(v)
RT: 9.783 min Scan# 328
Delta R.T. 0.000 min
Lab File: 6W23748.D
Acq: 21 Jan 2022 8:24 pm

Tgt Ion: 78 Resp: 44769

Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.9	37.0

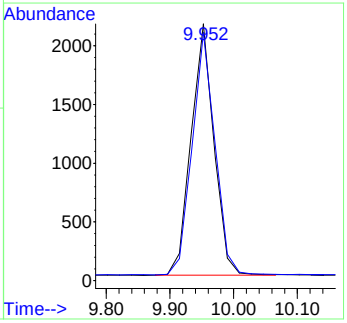


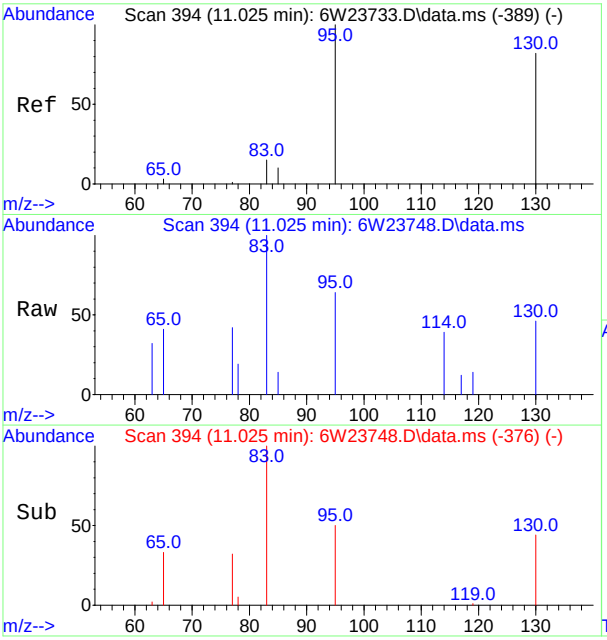


#11
Carbon Tetrachloride
Concen: 0.05 ppb(v)
RT: 9.952 min Scan# 337
Delta R.T. -0.001 min
Lab File: 6W23748.D
Acq: 21 Jan 2022 8:24 pm

Tgt Ion:117 Resp: 5346

Ion	Ratio	Lower	Upper
117	100		
119	96.6	68.5	127.1

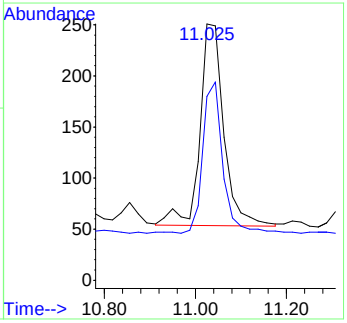


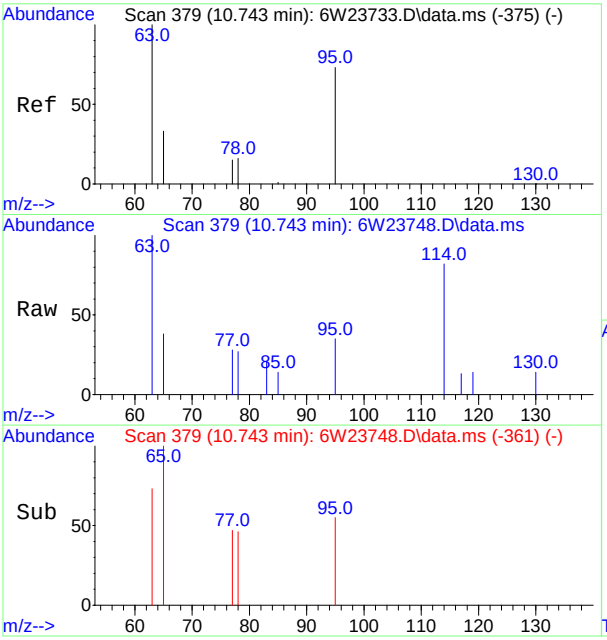


#13
Trichloroethene
Concen: 0.01 ppb(v)
RT: 11.025 min Scan# 394
Delta R.T. -0.000 min
Lab File: 6W23748.D
Acq: 21 Jan 2022 8:24 pm

Tgt Ion: 95 Resp: 721

Ion	Ratio	Lower	Upper
95	100		
130	71.7	57.8	107.4

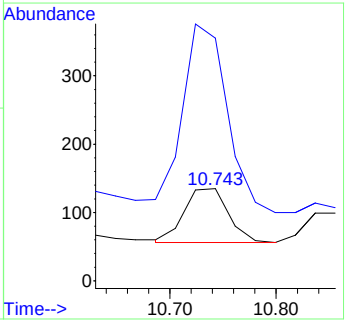


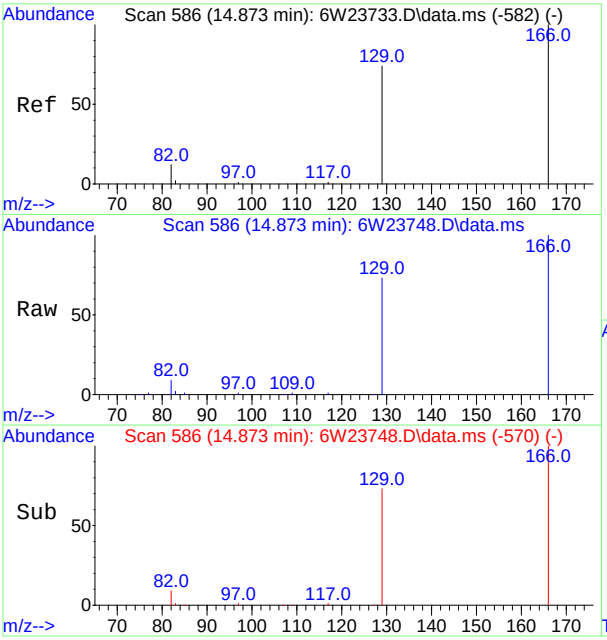


#14
1,2-Dichloropropane
Concen: 0.01 ppb(v)
RT: 10.743 min Scan# 379
Delta R.T. -0.000 min
Lab File: 6W23748.D
Acq: 21 Jan 2022 8:24 pm

Tgt Ion: 65 Resp: 230

Ion	Ratio	Lower	Upper
65	100		
63	263.0	189.6	352.0

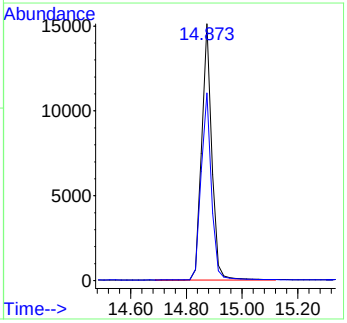




#20
Tetrachloroethene
Concen: 0.20 ppb(v)
RT: 14.873 min Scan# 586
Delta R.T. 0.000 min
Lab File: 6W23748.D
Acq: 21 Jan 2022 8:24 pm

Tgt Ion:166 Resp: 38087

Ion	Ratio	Lower	Upper
166	100		
129	73.0	52.8	98.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23472.D
Acq On : 17 Dec 2021 4:15 pm
Operator : danat
Sample : scc(a320),cp11472
Misc : MS55468,V6W998,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 10:07:58 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:15:22 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.089	128	141536	10.00	ppb(v	# 0.00
12) 1,4-Difluorobenzene	10.235	114	832112	10.00	ppb(v	# 0.00
22) Chlorobenzene-d5	15.837	82	477843	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.114	95	550218	9.40	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 94.00%			
Target Compounds						Qvalue

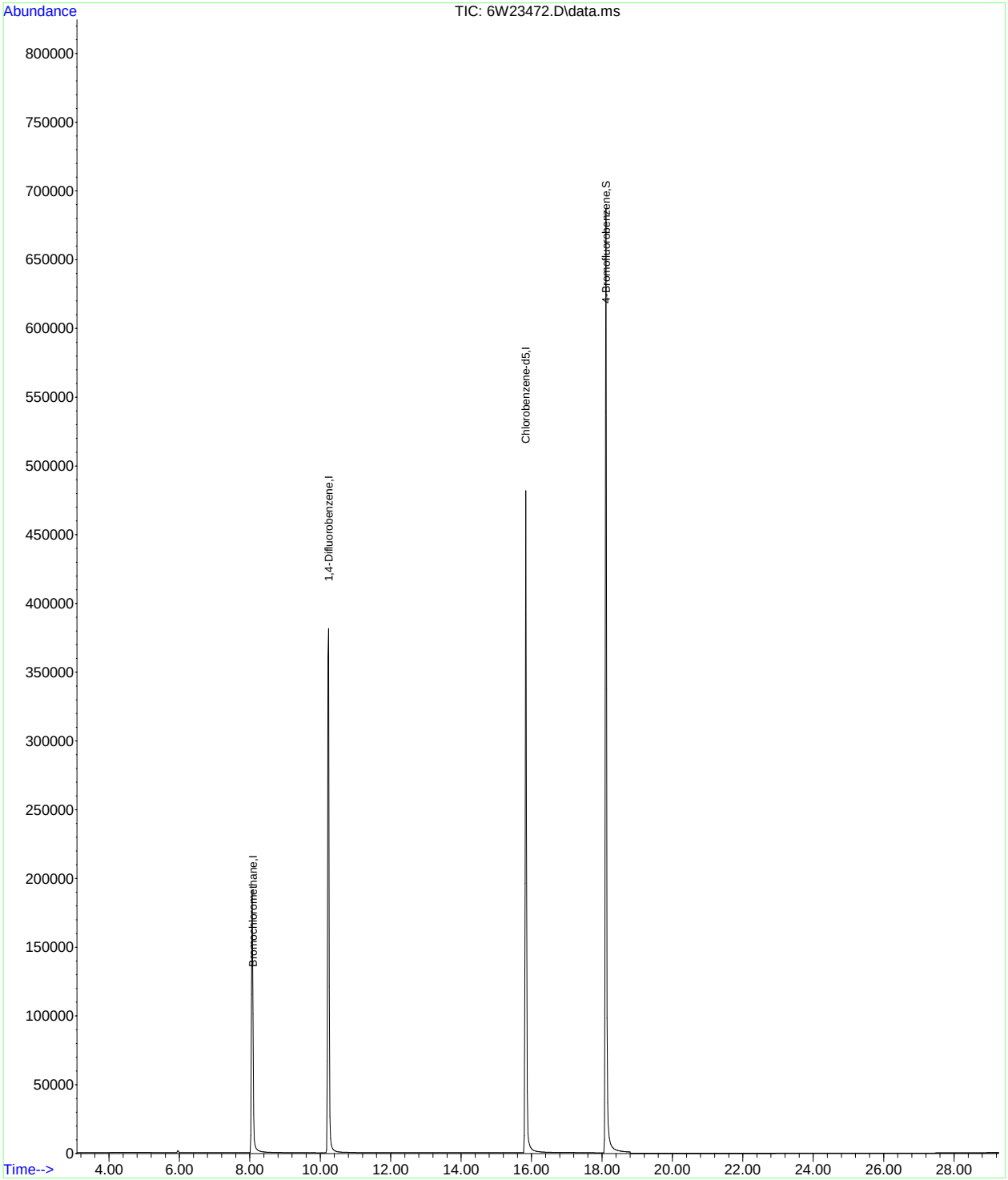
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.5.1
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23472.D
Acq On : 17 Dec 2021 4:15 pm
Operator : danat
Sample : scc(a320),cp11472
Misc : MS55468,V6W998,,,,,1
ALS Vial : 3 Sample Multiplier: 1

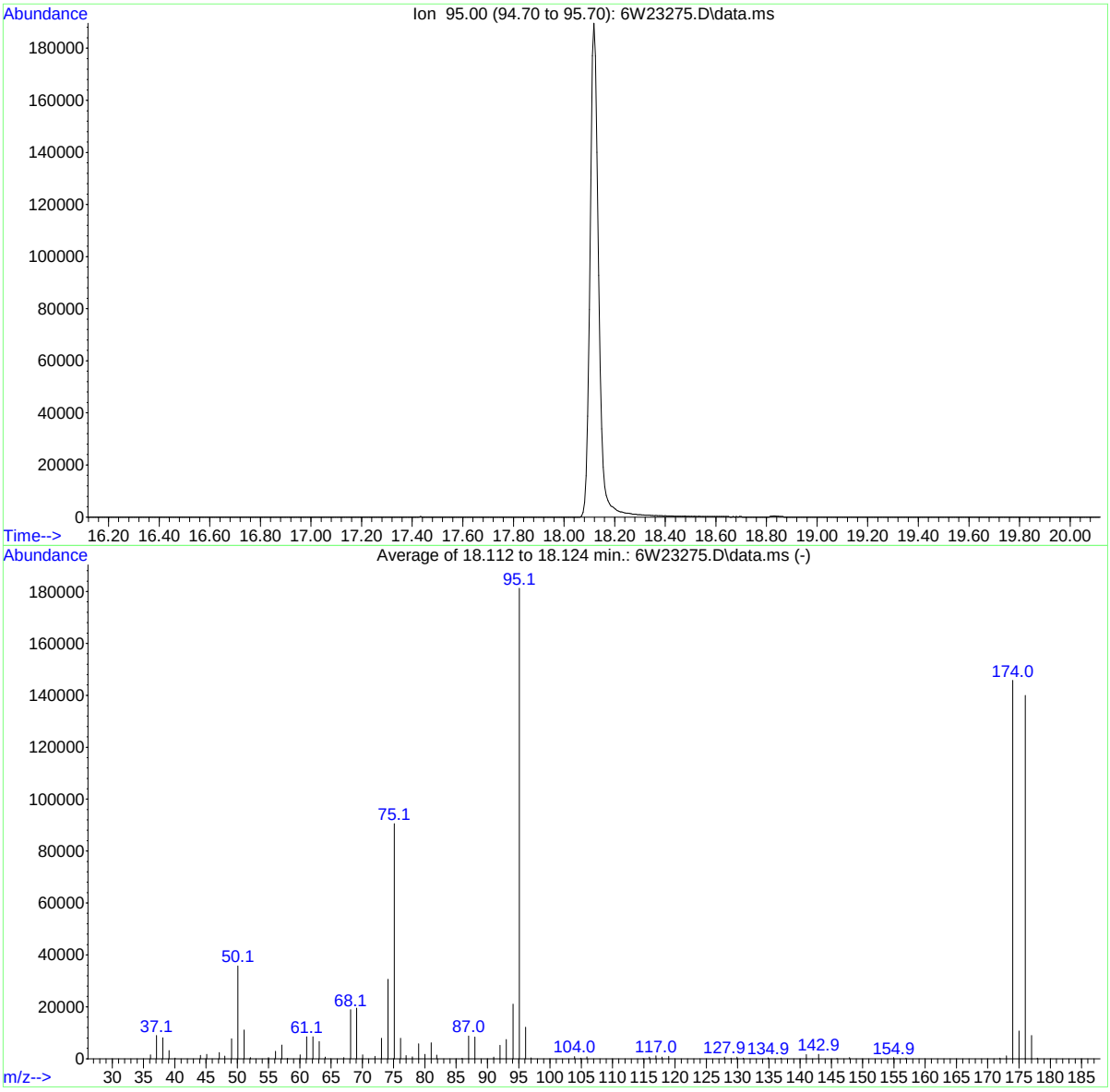
Quant Time: Dec 20 10:07:58 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:15:22 2021
Response via : Initial Calibration



BFB

Data File : C:\msdchem\1\data\6W23275.D Vial: 1
Acq On : 30 Nov 2021 9:40 am Operator: danat
Sample : bfb Inst : GCMS6W
Misc : MS55213,V6W990,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m6w990.M (RTE Integrator)
Title : TO-15 SIM Mode



AutoFind: Scans 2456, 2457, 2458; Background Corrected with Scan 2446

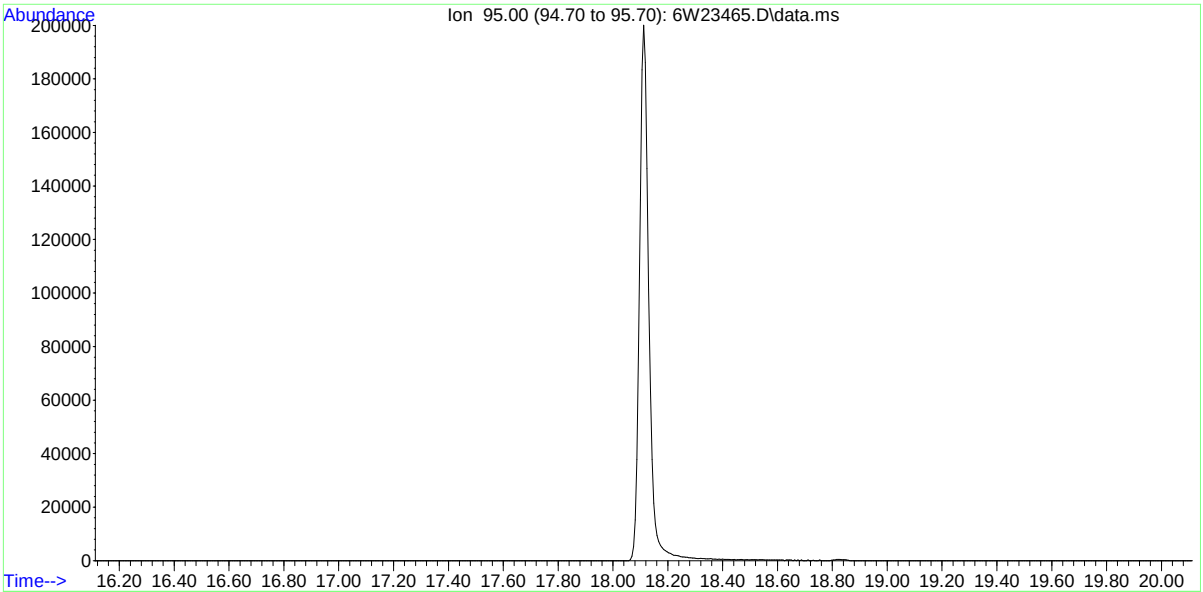
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.7	35741	PASS
75	95	30	66	50.0	90576	PASS
95	95	100	100	100.0	181248	PASS
96	95	5	9	6.7	12163	PASS
173	174	0.00	2	0.8	1161	PASS
174	95	50	120	80.4	145749	PASS
175	174	4	9	7.3	10704	PASS
176	174	93	101	96.1	140021	PASS
177	176	5	9	6.4	8968	PASS

6W23275.D m6w990.M Wed Dec 01 09:39:26 2021

BFB

Data File : C:\msdchem\1\data\6W23465.D Vial: 1
Acq On : 17 Dec 2021 10:16 am Operator: danat
Sample : bfb Inst : GCMS6W
Misc : MS55468,V6W998,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m6w986.M (RTE Integrator)
Title : TO-15 Full Scan Mode



AutoFind: Scans 2455, 2456, 2457; Background Corrected with Scan 2445

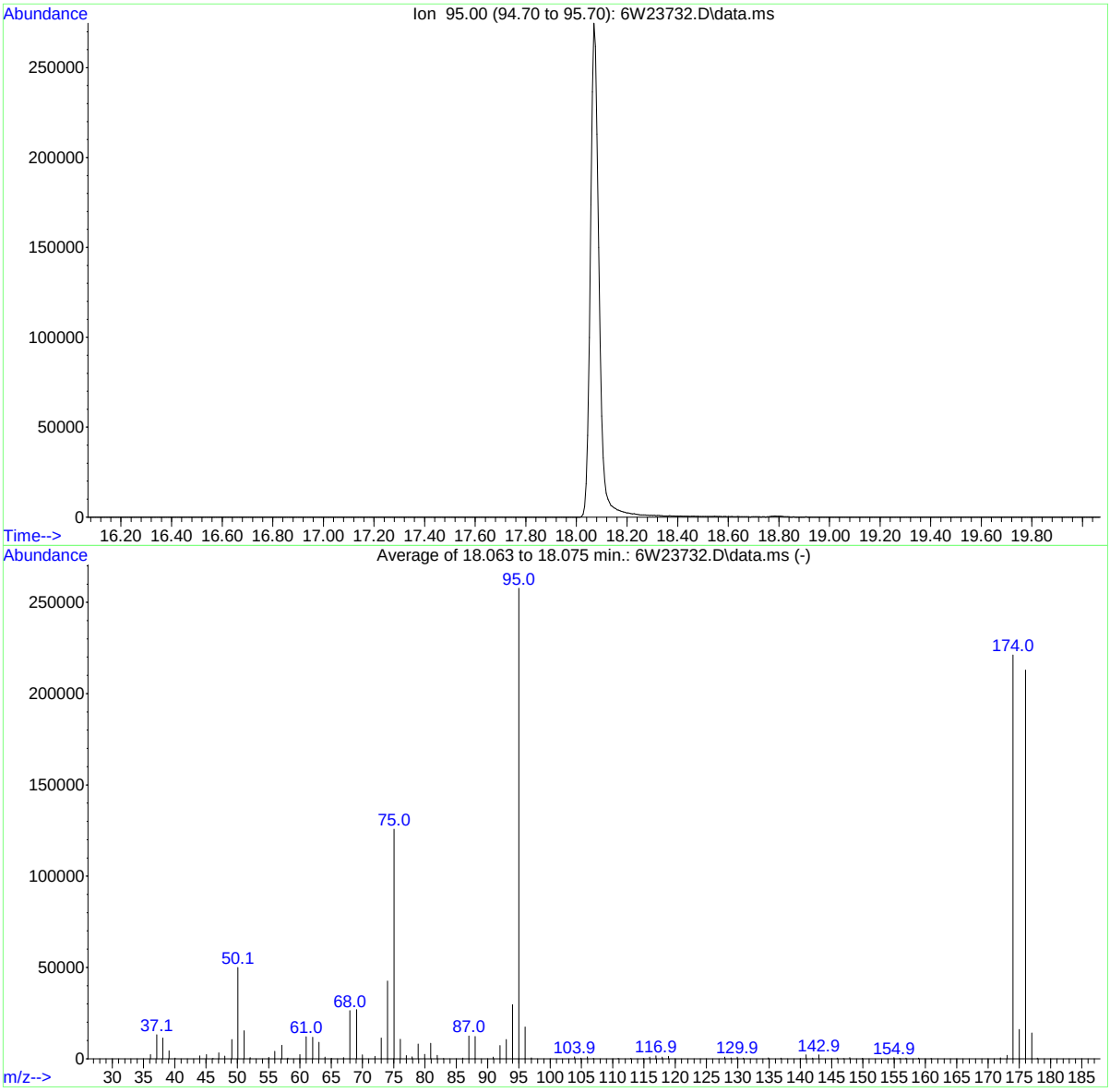
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	26.0	49277	PASS
75	95	30	66	56.5	107363	PASS
95	95	100	100	100.0	189888	PASS
96	95	5	9	6.7	12656	PASS
173	174	0.00	2	0.9	1116	PASS
174	95	50	120	64.3	122176	PASS
175	174	4	9	7.3	8972	PASS
176	174	93	101	95.4	116592	PASS
177	176	5	9	6.5	7627	PASS

6W23465.D m6w986.M Mon Dec 20 10:05:30 2021

BFB

Data File : C:\msdchem\1\data\6W23732.D Vial: 1
Acq On : 21 Jan 2022 7:19 am Operator: thomash
Sample : bfb Inst : GCMS6W
Misc : MS56216,V6W1015,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m6w1015.M (RTE Integrator)
Title : TO-15 SIM Mode



AutoFind: Scans 2448, 2449, 2450; Background Corrected with Scan 2438

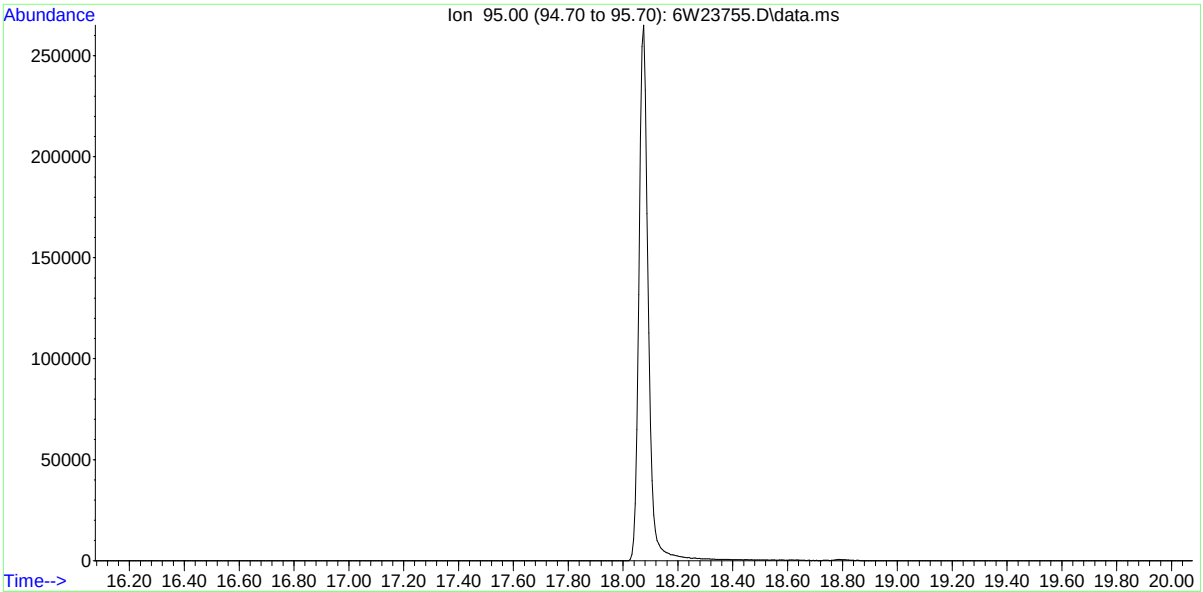
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.4	49963	PASS
75	95	30	66	48.8	125723	PASS
95	95	100	100	100.0	257707	PASS
96	95	5	9	6.8	17432	PASS
173	174	0.00	2	0.8	1849	PASS
174	95	50	120	85.8	221227	PASS
175	174	4	9	7.3	16095	PASS
176	174	93	101	96.2	212928	PASS
177	176	5	9	6.6	14123	PASS

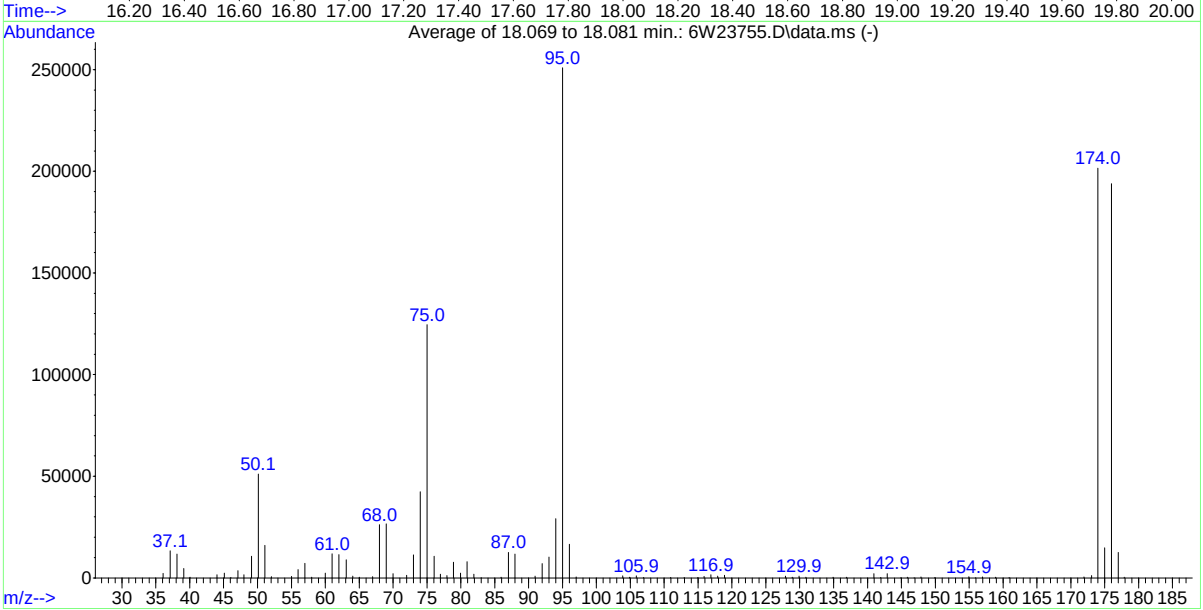
6W23732.D m6w1015.M Mon Jan 24 09:30:46 2022

BFB

Data File : C:\msdchem\1\data\6W23755.D Vial: 1
Acq On : 24 Jan 2022 7:12 am Operator: thomash
Sample : bfb2 Inst : GCMS6W
Misc : MS56249,V6W1016,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\msdchem\1\methods\m6w1015.M (RTE Integrator)
Title : TO-15 SIM Mode





AutoFind: Scans 2449, 2450, 2451; Background Corrected with Scan 2439

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.4	51085	PASS
75	95	30	66	49.7	124635	PASS
95	95	100	100	100.0	250901	PASS
96	95	5	9	6.6	16502	PASS
173	174	0.00	2	0.6	1180	PASS
174	95	50	120	80.3	201515	PASS
175	174	4	9	7.4	14862	PASS
176	174	93	101	96.2	193877	PASS
177	176	5	9	6.5	12583	PASS

6W23755.D m6w1015.M Mon Jan 24 13:58:43 2022

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23277.D
Acq On : 30 Nov 2021 1:41 pm
Operator : danat
Sample : icc990-0.01
Misc : MS55213,V6W990,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 14:25:16 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Tue Nov 30 09:13:46 2021
Response via : Initial Calibration

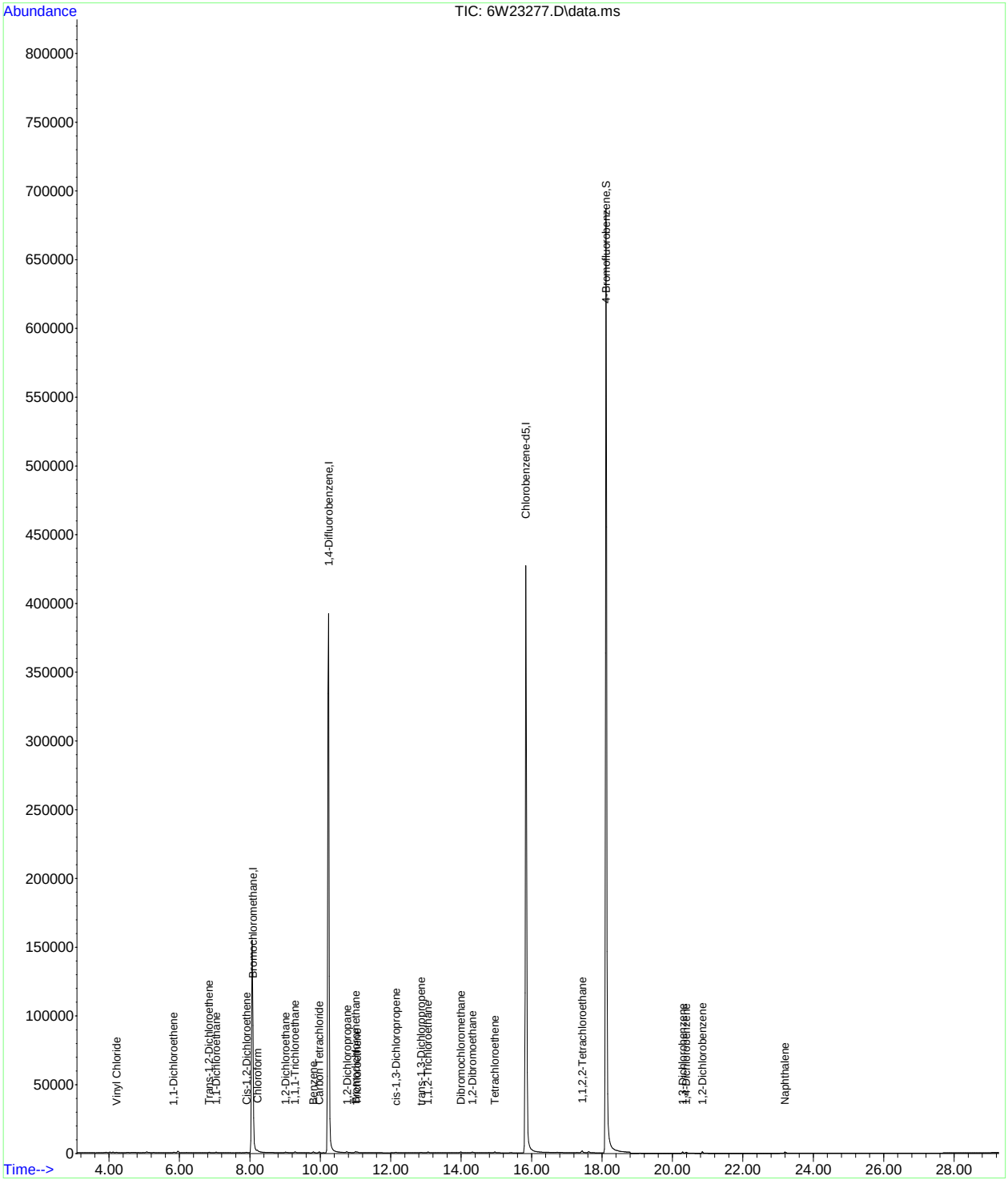
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.088	128	156791	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.235	114	865797	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.837	82	395214	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.114	95	490670	9.52	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 95.20%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.214	62	342	0.01	ppb(v	92
3) 1,1-Dichloroethene	5.834	61	556	0.01	ppb(v#	39
4) Trans-1,2-Dichloroethene	6.838	61	491	0.01	ppb(v	89
5) 1,1-Dichloroethane	7.043	63	700	0.01	ppb(v	95
6) Cis-1,2-Dichloroethene	7.904	61	549	0.01	ppb(v	95
7) Chloroform	8.211	83	933	0.01	ppb(v	95
8) 1,1,1-Trichloroethane	9.277	97	892	0.01	ppb(v	92
9) 1,2-Dichloroethane	9.011	62	676	0.01	ppb(v	98
10) Benzene	9.802	78	1600	0.01	ppb(v	94
11) Carbon Tetrachloride	9.971	117	888	0.01	ppb(v	98
13) Trichloroethene	11.044	95	642	0.01	ppb(v	76
14) 1,2-Dichloropropane	10.761	65	184	0.01	ppb(v	91
15) Bromodichloromethane	11.006	83	1246	0.01	ppb(v	97
16) cis-1,3-Dichloropropene	12.147	75	770	0.01	ppb(v	96
17) trans-1,3-Dichloropropene	12.864	75	722	0.01	ppb(v	97
18) 1,1,2-Trichloroethane	13.049	83	696	0.01	ppb(v	85
19) Dibromochloromethane	13.992	129	1183	0.01	ppb(v	96
20) Tetrachloroethene	14.955	166	929	0.01	ppb(v	90
21) 1,2-Dibromoethane	14.320	107	1000	0.01	ppb(v	97
23) 1,1,2,2-Tetrachloroethane	17.436	83	2031	0.01	ppb(v	98
25) 1,3-Dichlorobenzene	20.289	146	1370	0.01	ppb(v	100
26) 1,4-Dichlorobenzene	20.388	146	1582	0.01	ppb(v	99
27) 1,2-Dichlorobenzene	20.846	146	1717	0.00	ppb(v	99
28) Naphthalene	23.192	128	2480	0.00	ppb(v	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23277.D
Acq On : 30 Nov 2021 1:41 pm
Operator : danat
Sample : icc990-0.01
Misc : MS55213,V6W990,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 14:25:16 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Tue Nov 30 09:13:46 2021
Response via : Initial Calibration



m6w990.M Wed Dec 01 09:39:39 2021 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23278.D
Acq On : 30 Nov 2021 2:27 pm
Operator : danat
Sample : ic990-0.005
Misc : MS55213,V6W990,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 15:06:15 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Tue Nov 30 14:26:30 2021
Response via : Initial Calibration

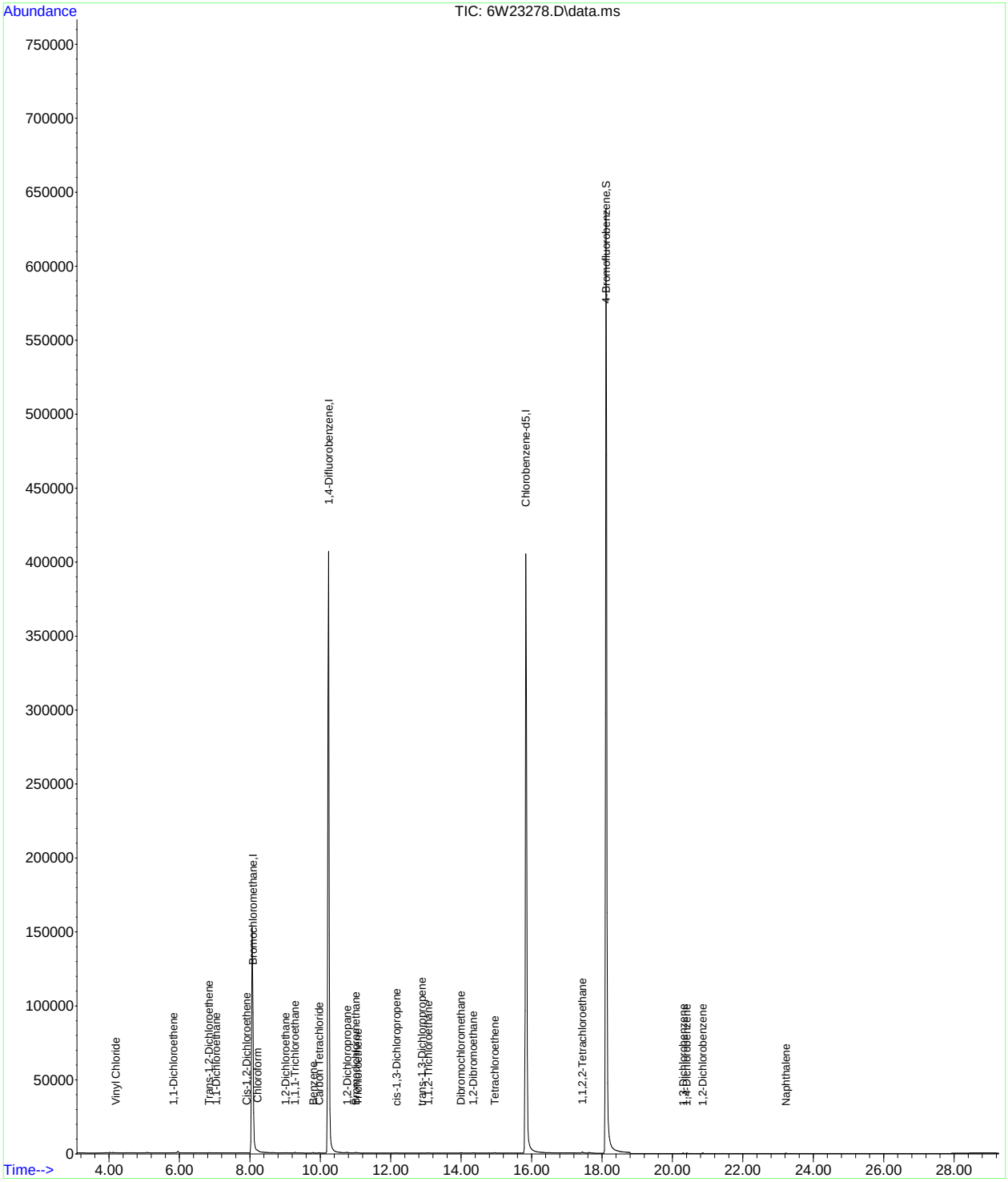
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.088	128	155496	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.235	114	864503	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.837	82	392330	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.114	95	469768	9.64	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 96.40%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	178	0.01	ppb(v	92
3) 1,1-Dichloroethene	5.834	61	291	0.01	ppb(v#	1
4) Trans-1,2-Dichloroethene	6.838	61	258	0.01	ppb(v	90
5) 1,1-Dichloroethane	7.043	63	357	0.01	ppb(v	97
6) Cis-1,2-Dichloroethene	7.904	61	280	0.01	ppb(v	97
7) Chloroform	8.211	83	490	0.01	ppb(v	98
8) 1,1,1-Trichloroethane	9.277	97	496	0.01	ppb(v	99
9) 1,2-Dichloroethane	9.011	62	341	0.01	ppb(v	88
10) Benzene	9.802	78	890	0.01	ppb(v	92
11) Carbon Tetrachloride	9.971	117	450	0.01	ppb(v	98
13) Trichloroethene	11.063	95	342	0.01	ppb(v	73
14) 1,2-Dichloropropane	10.761	65	106	0.01	ppb(v	89
15) Bromodichloromethane	11.006	83	664	0.01	ppb(v	99
16) cis-1,3-Dichloropropene	12.167	75	370	0.00	ppb(v	81
17) trans-1,3-Dichloropropene	12.885	75	375	0.01	ppb(v	79
18) 1,1,2-Trichloroethane	13.069	83	363	0.01	ppb(v	92
19) Dibromochloromethane	13.992	129	633	0.01	ppb(v	94
20) Tetrachloroethene	14.955	166	497	0.01	ppb(v	95
21) 1,2-Dibromoethane	14.340	107	520	0.01	ppb(v	98
23) 1,1,2,2-Tetrachloroethane	17.436	83	1060	0.01	ppb(v	99
25) 1,3-Dichlorobenzene	20.304	146	605	0.00	ppb(v	94
26) 1,4-Dichlorobenzene	20.402	146	745	0.00	ppb(v	94
27) 1,2-Dichlorobenzene	20.860	146	772	0.00	ppb(v	92
28) Naphthalene	23.220	128	945	0.00	ppb(v#	75

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23278.D
Acq On : 30 Nov 2021 2:27 pm
Operator : danat
Sample : ic990-0.005
Misc : MS55213,V6W990,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 15:06:15 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Tue Nov 30 14:26:30 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23279.D
Acq On : 30 Nov 2021 3:12 pm
Operator : danat
Sample : ic990-0.002
Misc : MS55213,V6W990,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 17:13:51 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Tue Nov 30 15:06:44 2021
Response via : Initial Calibration

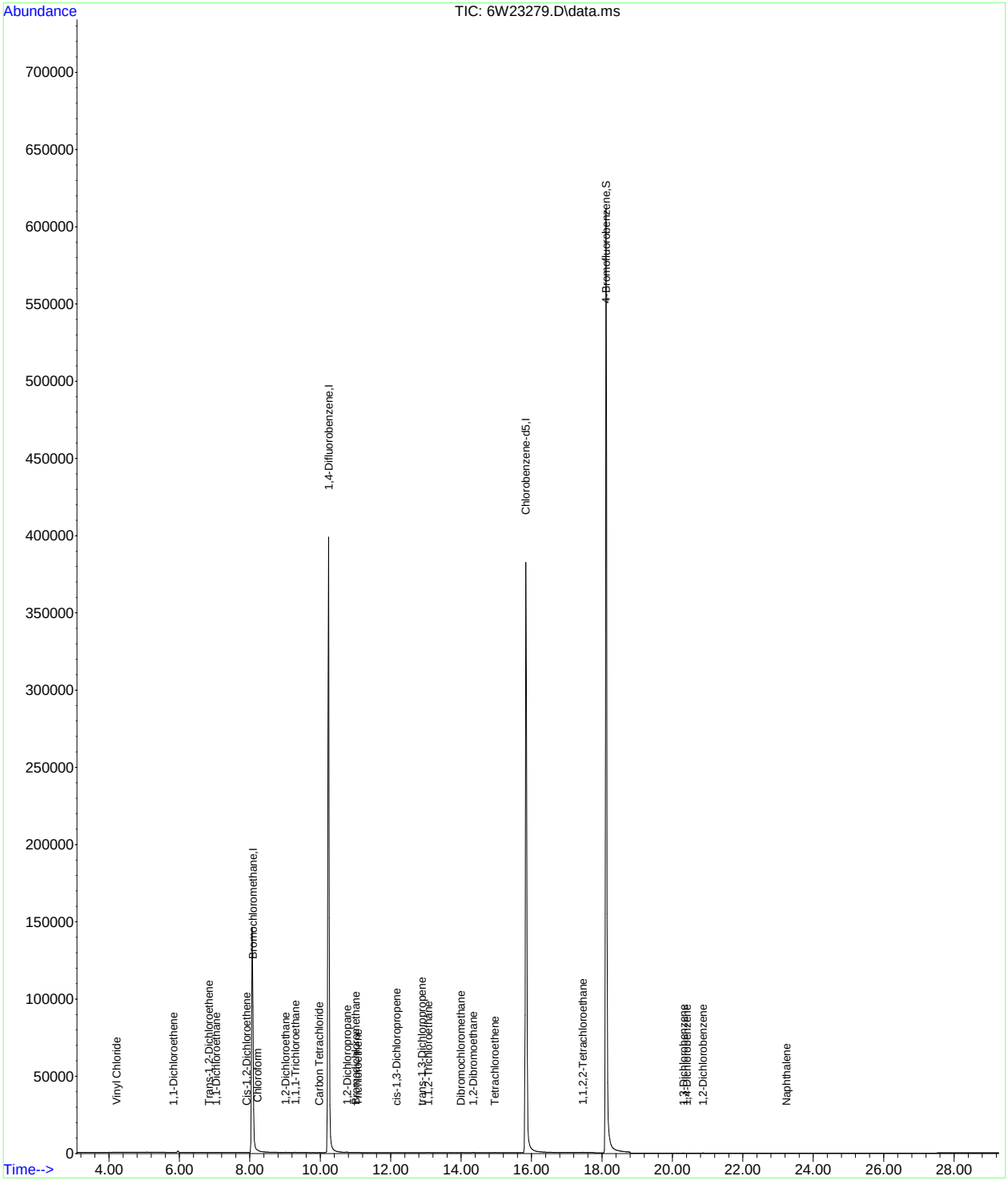
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.089	128	148205	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.235	114	819700	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.837	82	374234	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.114	95	449952	9.86	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.60%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.214	62	82	0.00	ppb(v#	68
3) 1,1-Dichloroethene	5.834	61	129	0.00	ppb(v#	1
4) Trans-1,2-Dichloroethene	6.838	61	111	0.00	ppb(v#	84
5) 1,1-Dichloroethane	7.043	63	157	0.00	ppb(v	96
6) Cis-1,2-Dichloroethene	7.904	61	114	0.00	ppb(v#	69
7) Chloroform	8.212	83	219	0.00	ppb(v	96
8) 1,1,1-Trichloroethane	9.298	97	207	0.00	ppb(v	86
9) 1,2-Dichloroethane	9.011	62	148	0.00	ppb(v#	64
11) Carbon Tetrachloride	9.971	117	190	0.00	ppb(v	94
13) Trichloroethene	11.063	95	146	0.00	ppb(v	75
14) 1,2-Dichloropropane	10.762	65	50	0.00	ppb(v	70
15) Bromodichloromethane	11.006	83	309	0.00	ppb(v	96
16) cis-1,3-Dichloropropene	12.167	75	156	0.00	ppb(v#	58
17) trans-1,3-Dichloropropene	12.885	75	149	0.00	ppb(v#	52
18) 1,1,2-Trichloroethane	13.069	83	149	0.00	ppb(v	95
19) Dibromochloromethane	13.992	129	257	0.00	ppb(v	91
20) Tetrachloroethene	14.955	166	203	0.00	ppb(v	91
21) 1,2-Dibromoethane	14.340	107	210	0.00	ppb(v	97
23) 1,1,2,2-Tetrachloroethane	17.456	83	456	0.00	ppb(v	90
25) 1,3-Dichlorobenzene	20.311	146	234	0.00	ppb(v	85
26) 1,4-Dichlorobenzene	20.409	146	289	0.00	ppb(v	85
27) 1,2-Dichlorobenzene	20.867	146	297	0.00	ppb(v	84
28) Naphthalene	23.235	128	377	0.00	ppb(v#	30

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23279.D
Acq On : 30 Nov 2021 3:12 pm
Operator : danat
Sample : ic990-0.002
Misc : MS55213,V6W990,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 17:13:51 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Tue Nov 30 15:06:44 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23280.D
Acq On : 30 Nov 2021 4:04 pm
Operator : danat
Sample : ic990-0.02
Misc : MS55213,V6W990,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 17:12:45 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Tue Nov 30 16:25:12 2021
Response via : Initial Calibration

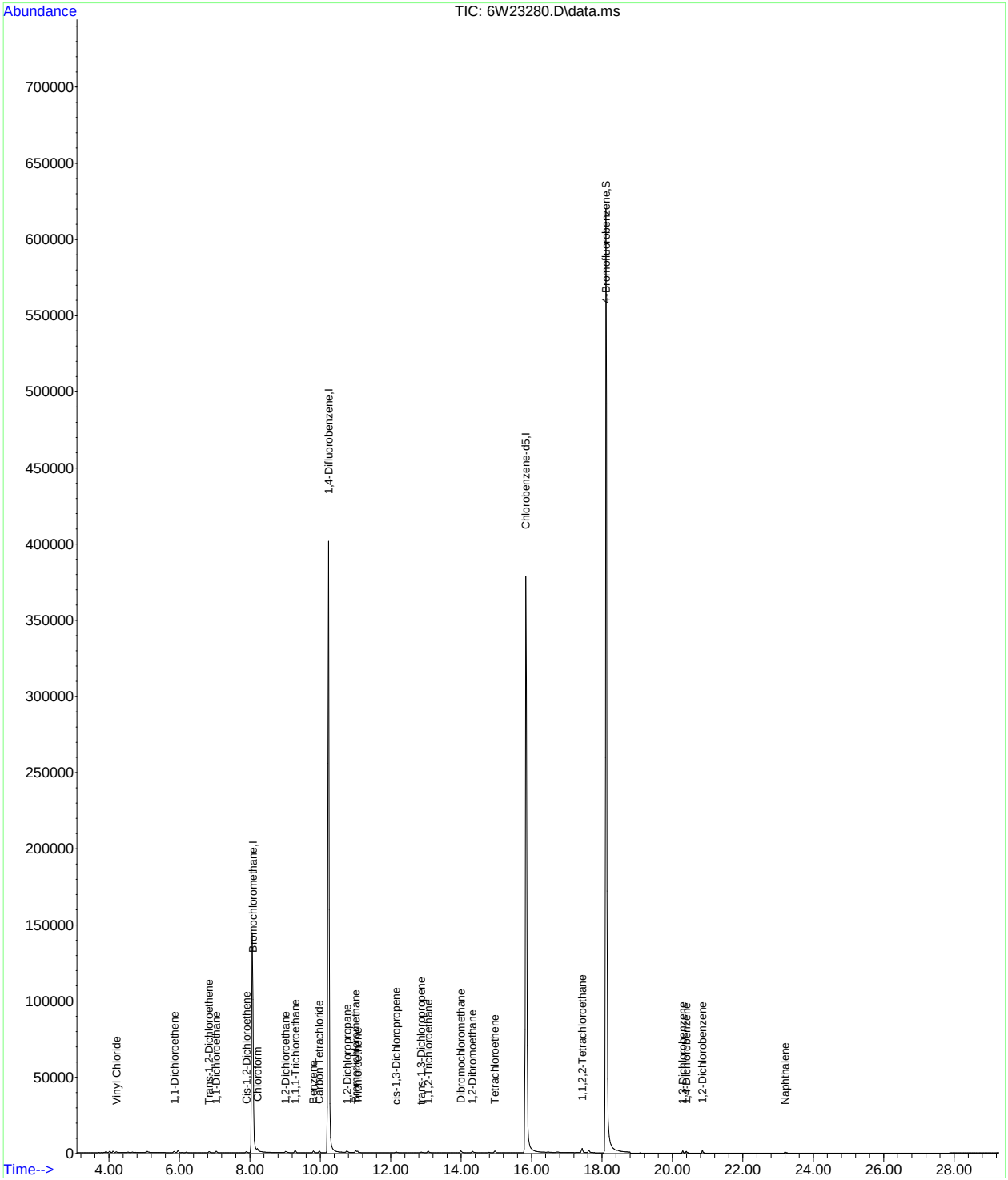
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.088	128	147468	10.00	ppb(v	# 0.00
12) 1,4-Difluorobenzene	10.235	114	813750	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.837	82	374487	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.114	95	459150	10.10	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.00%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.214	62	664	0.02	ppb(v	89
3) 1,1-Dichloroethene	5.854	61	1039	0.02	ppb(v#	35
4) Trans-1,2-Dichloroethene	6.838	61	872	0.02	ppb(v	99
5) 1,1-Dichloroethane	7.043	63	1320	0.02	ppb(v	98
6) Cis-1,2-Dichloroethene	7.904	61	959	0.02	ppb(v	98
7) Chloroform	8.211	83	1733	0.02	ppb(v	99
8) 1,1,1-Trichloroethane	9.298	97	1642	0.02	ppb(v	93
9) 1,2-Dichloroethane	9.011	62	1219	0.02	ppb(v	91
10) Benzene	9.802	78	2552	0.01	ppb(v	97
11) Carbon Tetrachloride	9.971	117	1653	0.02	ppb(v	98
13) Trichloroethene	11.062	95	1158	0.02	ppb(v#	69
14) 1,2-Dichloropropane	10.761	65	338	0.02	ppb(v	91
15) Bromodichloromethane	11.006	83	2345	0.02	ppb(v	97
16) cis-1,3-Dichloropropene	12.147	75	1304	0.02	ppb(v	90
17) trans-1,3-Dichloropropene	12.864	75	1229	0.02	ppb(v	88
18) 1,1,2-Trichloroethane	13.069	83	1295	0.02	ppb(v	82
19) Dibromochloromethane	13.992	129	2202	0.02	ppb(v	99
20) Tetrachloroethene	14.955	166	1716	0.02	ppb(v	99
21) 1,2-Dibromoethane	14.320	107	1806	0.02	ppb(v	99
23) 1,1,2,2-Tetrachloroethane	17.436	83	4025	0.02	ppb(v	98
25) 1,3-Dichlorobenzene	20.289	146	2277	0.02	ppb(v	97
26) 1,4-Dichlorobenzene	20.395	146	2487	0.02	ppb(v	98
27) 1,2-Dichlorobenzene	20.853	146	2838	0.02	ppb(v	98
28) Naphthalene	23.199	128	2746	0.01	ppb(v	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23280.D
Acq On : 30 Nov 2021 4:04 pm
Operator : danat
Sample : ic990-0.02
Misc : MS55213,V6W990,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 17:12:45 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Tue Nov 30 16:25:12 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23281.D
Acq On : 30 Nov 2021 5:02 pm
Operator : danat
Sample : ic990-0.04
Misc : MS55213,V6W990,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 01 09:13:36 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Tue Nov 30 17:13:40 2021
Response via : Initial Calibration

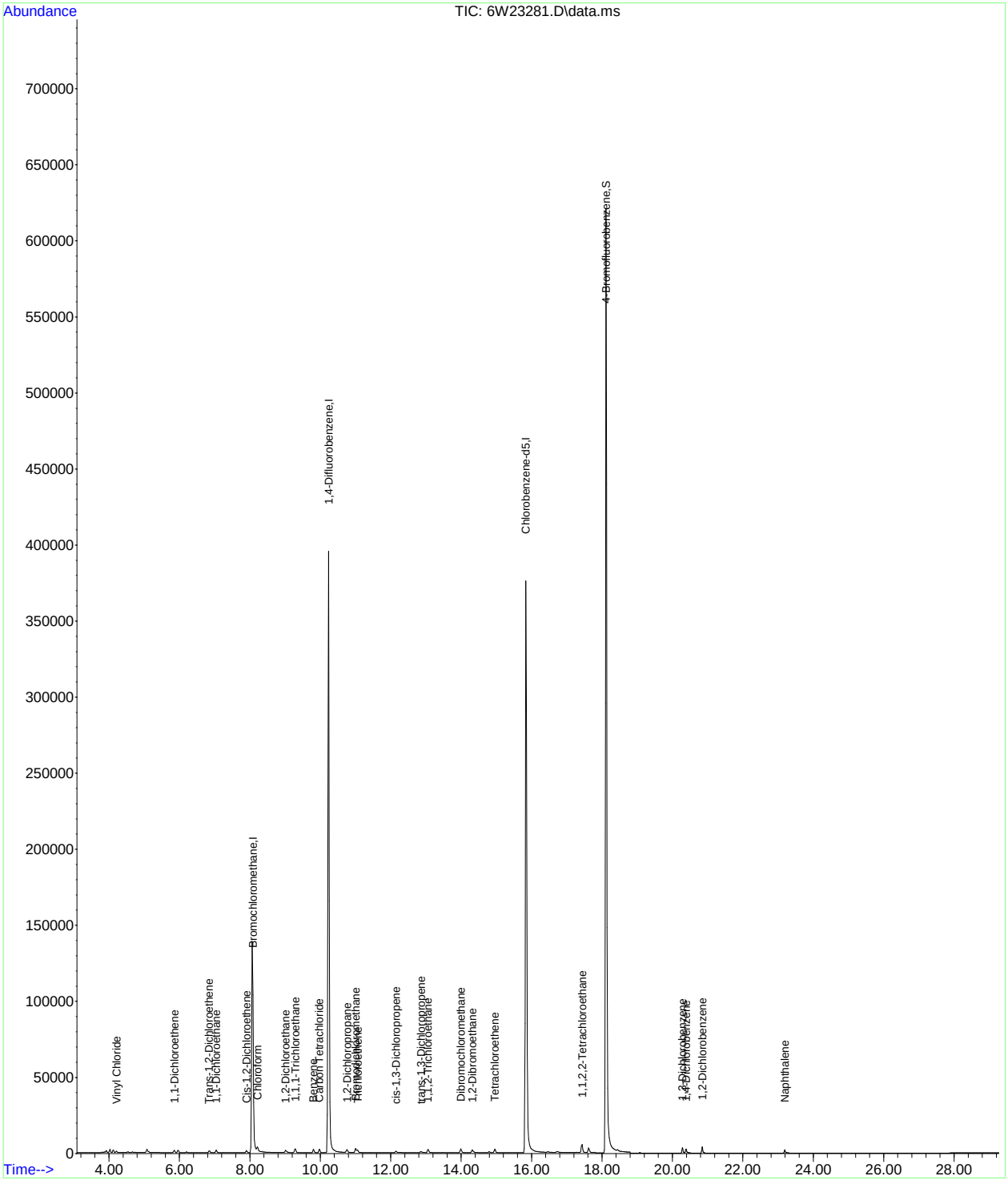
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.088	128	142913	10.00	ppb(v	# 0.00
12) 1,4-Difluorobenzene	10.235	114	788804	10.00	ppb(v	# 0.00
22) Chlorobenzene-d5	15.837	82	366249	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.114	95	449316	10.08	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.80%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.214	62	1321	0.04	ppb(v	81
3) 1,1-Dichloroethene	5.854	61	1989	0.04	ppb(v#	68
4) Trans-1,2-Dichloroethene	6.838	61	1695	0.04	ppb(v	98
5) 1,1-Dichloroethane	7.043	63	2591	0.04	ppb(v	100
6) Cis-1,2-Dichloroethene	7.904	61	1861	0.04	ppb(v	99
7) Chloroform	8.211	83	3389	0.04	ppb(v	100
8) 1,1,1-Trichloroethane	9.298	97	3254	0.04	ppb(v	95
9) 1,2-Dichloroethane	9.011	62	2391	0.04	ppb(v	86
10) Benzene	9.802	78	4798	0.03	ppb(v	94
11) Carbon Tetrachloride	9.971	117	3268	0.04	ppb(v	96
13) Trichloroethene	11.062	95	2247	0.04	ppb(v#	68
14) 1,2-Dichloropropane	10.761	65	688	0.04	ppb(v	84
15) Bromodichloromethane	11.006	83	4577	0.04	ppb(v	97
16) cis-1,3-Dichloropropene	12.147	75	2624	0.04	ppb(v	83
17) trans-1,3-Dichloropropene	12.864	75	2462	0.04	ppb(v	82
18) 1,1,2-Trichloroethane	13.049	83	2559	0.04	ppb(v	100
19) Dibromochloromethane	13.992	129	4408	0.04	ppb(v	97
20) Tetrachloroethene	14.955	166	3385	0.04	ppb(v	98
21) 1,2-Dibromoethane	14.320	107	3634	0.04	ppb(v	99
23) 1,1,2,2-Tetrachloroethane	17.436	83	8133	0.04	ppb(v	100
25) 1,3-Dichlorobenzene	20.282	146	4953	0.04	ppb(v	96
26) 1,4-Dichlorobenzene	20.388	146	5258	0.04	ppb(v	99
27) 1,2-Dichlorobenzene	20.846	146	5991	0.04	ppb(v	99
28) Naphthalene	23.192	128	5764	0.03	ppb(v	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23281.D
Acq On : 30 Nov 2021 5:02 pm
Operator : danat
Sample : ic990-0.04
Misc : MS55213,V6W990,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 01 09:13:36 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Tue Nov 30 17:13:40 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23282.D
Acq On : 30 Nov 2021 5:51 pm
Operator : danat
Sample : ic990-0.5
Misc : MS55213,V6W990,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 01 09:15:16 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:14:00 2021
Response via : Initial Calibration

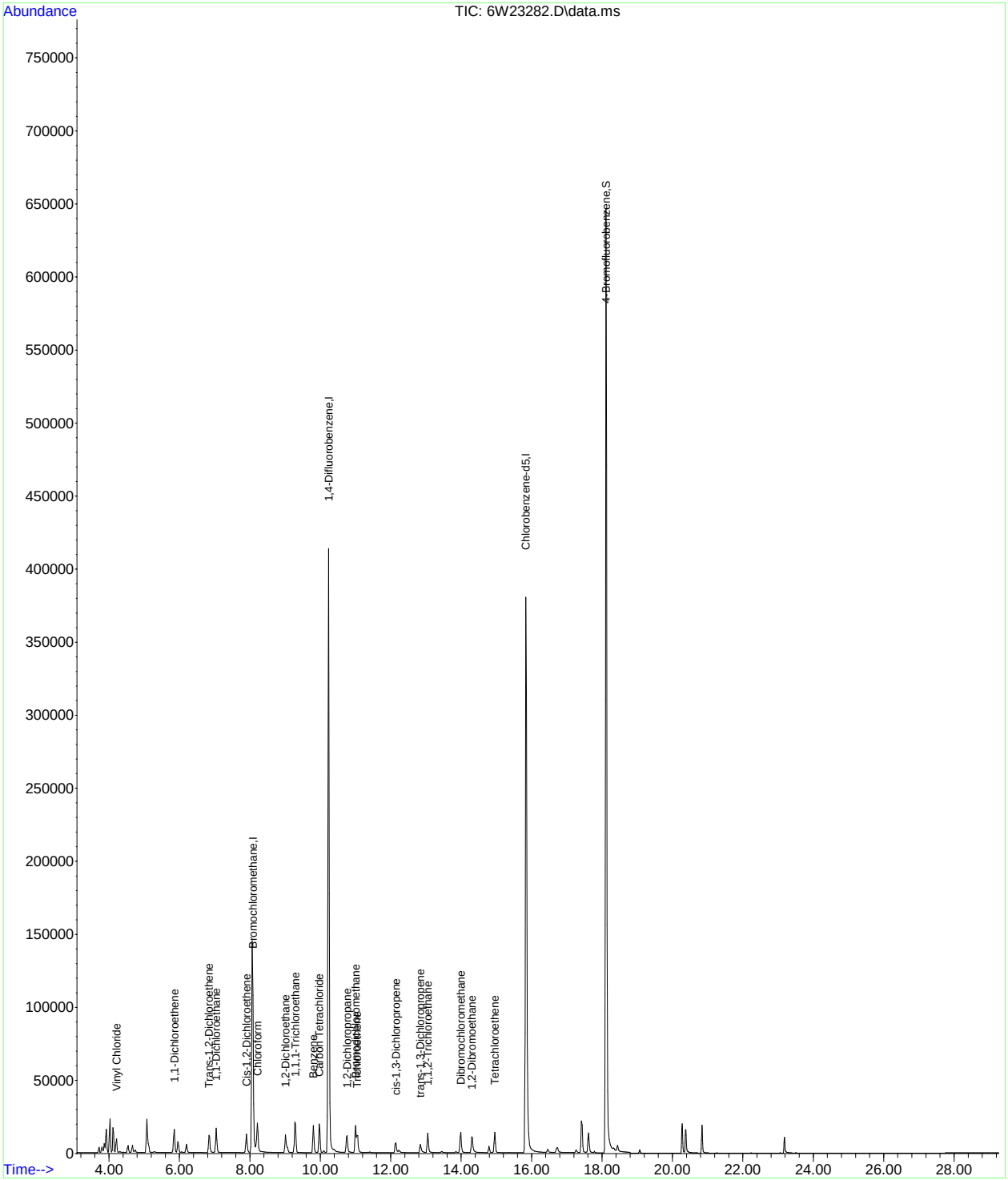
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.088	128	146067	10.00	ppb(v	# 0.00
12) 1,4-Difluorobenzene	10.235	114	811773	10.00	ppb(v	# 0.00
22) Chlorobenzene-d5	15.837	82	377327	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.114	95	472317	10.27	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.70%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.214	62	14612	0.42	ppb(v#	74
3) 1,1-Dichloroethene	5.854	61	20842	0.38	ppb(v#	65
4) Trans-1,2-Dichloroethene	6.838	61	17090	0.36	ppb(v	99
5) 1,1-Dichloroethane	7.043	63	24436	0.36	ppb(v	98
6) Cis-1,2-Dichloroethene	7.904	61	16359	0.32	ppb(v	99
7) Chloroform	8.211	83	28251	0.31	ppb(v	91
8) 1,1,1-Trichloroethane	9.298	97	26949	0.30	ppb(v	95
9) 1,2-Dichloroethane	9.011	62	17569	0.27	ppb(v	83
10) Benzene	9.802	78	37320	0.26	ppb(v	89
11) Carbon Tetrachloride	9.971	117	26311	0.31	ppb(v	96
13) Trichloroethene	11.044	95	16496	0.26	ppb(v	93
14) 1,2-Dichloropropane	10.761	65	4702	0.24	ppb(v	77
15) Bromodichloromethane	11.006	83	30328	0.24	ppb(v	98
16) cis-1,3-Dichloropropene	12.147	75	16978	0.24	ppb(v	81
17) trans-1,3-Dichloropropene	12.844	75	14713	0.22	ppb(v#	74
18) 1,1,2-Trichloroethane	13.049	83	13269	0.20	ppb(v	92
19) Dibromochloromethane	13.992	129	23183	0.20	ppb(v	94
20) Tetrachloroethene	14.955	166	18376	0.20	ppb(v	97
21) 1,2-Dibromoethane	14.299	107	20075	0.21	ppb(v	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23282.D
Acq On : 30 Nov 2021 5:51 pm
Operator : danat
Sample : ic990-0.5
Misc : MS55213,V6W990,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 01 09:15:16 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:14:00 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23285.D
Acq On : 30 Nov 2021 8:18 pm
Operator : danat
Sample : icv990-0.01
Misc : MS55213,V6W990,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 01 09:42:40 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:15:22 2021
Response via : Initial Calibration

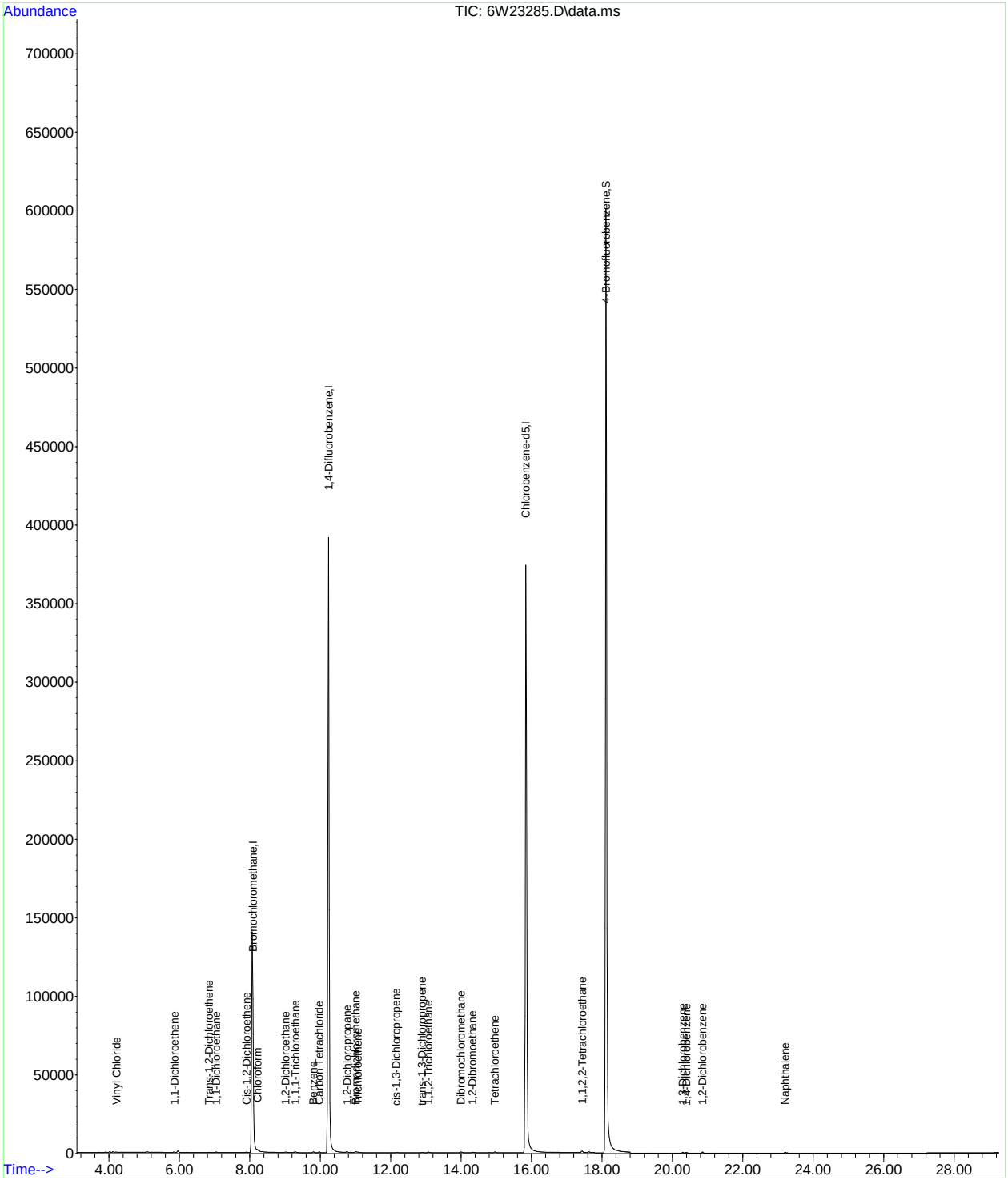
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.088	128	141314	10.00	ppb(v	# 0.00
12) 1,4-Difluorobenzene	10.235	114	781518	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.837	82	363112	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.114	95	438676	9.87	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 98.70%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.214	62	317	0.01	ppb(v	99
3) 1,1-Dichloroethene	5.854	61	462	0.01	ppb(v#	1
4) Trans-1,2-Dichloroethene	6.838	61	387	0.01	ppb(v	93
5) 1,1-Dichloroethane	7.043	63	593	0.01	ppb(v	98
6) Cis-1,2-Dichloroethene	7.904	61	422	0.01	ppb(v	98
7) Chloroform	8.211	83	767	0.01	ppb(v	95
8) 1,1,1-Trichloroethane	9.298	97	748	0.01	ppb(v	91
9) 1,2-Dichloroethane	9.011	62	523	0.01	ppb(v	96
10) Benzene	9.802	78	1268	0.01	ppb(v	96
11) Carbon Tetrachloride	9.971	117	734	0.01	ppb(v	97
13) Trichloroethene	11.063	95	500	0.01	ppb(v	76
14) 1,2-Dichloropropane	10.762	65	150	0.01	ppb(v	96
15) Bromodichloromethane	11.006	83	1057	0.01	ppb(v	98
16) cis-1,3-Dichloropropene	12.147	75	536	0.01	ppb(v	92
17) trans-1,3-Dichloropropene	12.885	75	487	0.01	ppb(v	90
18) 1,1,2-Trichloroethane	13.069	83	530	0.01	ppb(v	89
19) Dibromochloromethane	13.992	129	922	0.01	ppb(v	97
20) Tetrachloroethene	14.955	166	704	0.01	ppb(v	95
21) 1,2-Dibromoethane	14.320	107	711	0.01	ppb(v	97
23) 1,1,2,2-Tetrachloroethane	17.436	83	1592	0.01	ppb(v	99
25) 1,3-Dichlorobenzene	20.290	146	953	0.01	ppb(v	99
26) 1,4-Dichlorobenzene	20.395	146	991	0.01	ppb(v	96
27) 1,2-Dichlorobenzene	20.853	146	1223	0.01	ppb(v	96
28) Naphthalene	23.199	128	2198	0.01	ppb(v	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23285.D
Acq On : 30 Nov 2021 8:18 pm
Operator : danat
Sample : icv990-0.01
Misc : MS55213,V6W990,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 01 09:42:40 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:15:22 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23467.D
Acq On : 17 Dec 2021 11:55 am
Operator : danat
Sample : cc990-0.01
Misc : MS55468,V6W998,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 17 14:05:29 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:15:22 2021
Response via : Initial Calibration

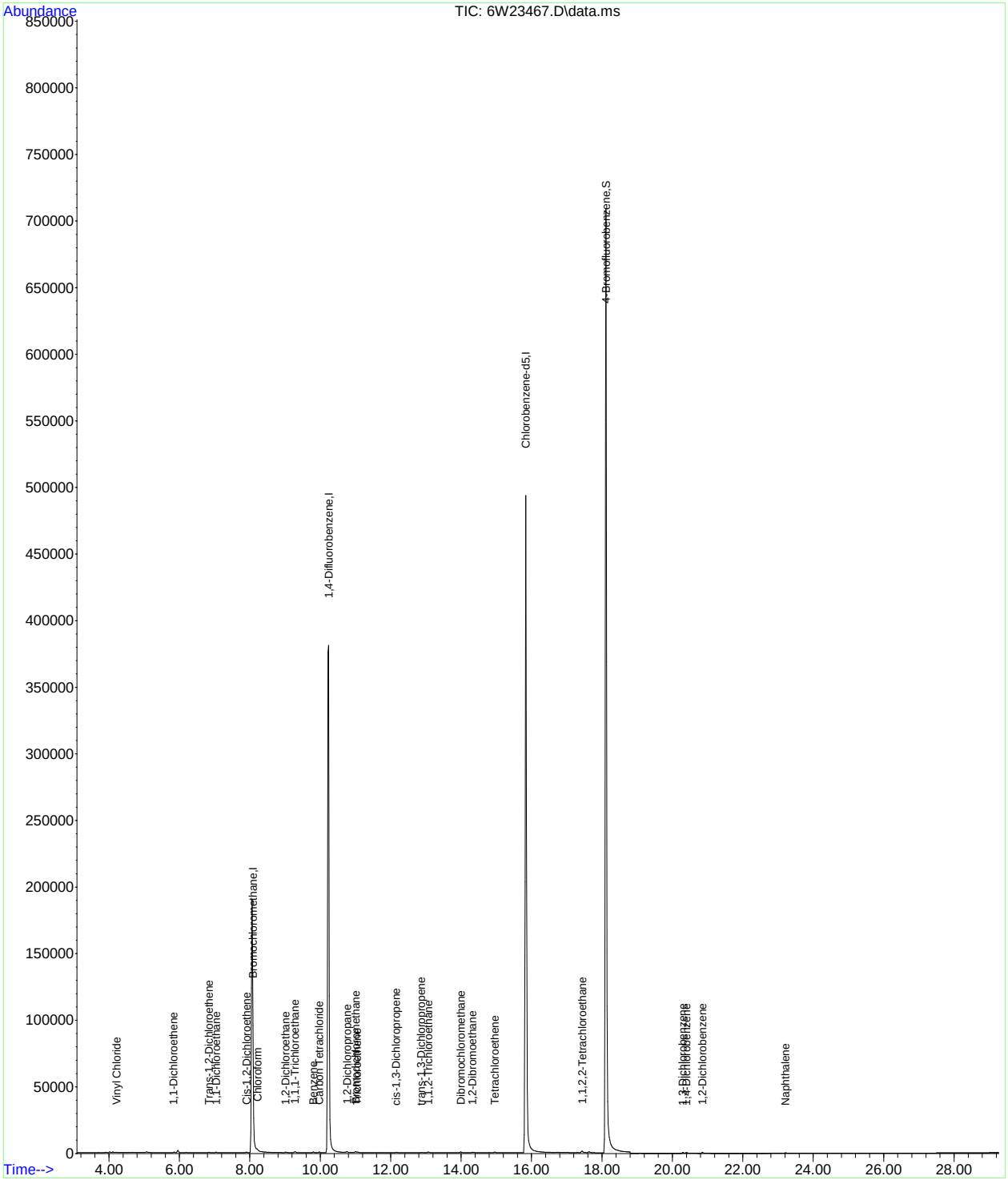
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.089	128	142988	10.00	ppb(v	# 0.00
12) 1,4-Difluorobenzene	10.235	114	852737	10.00	ppb(v	# 0.00
22) Chlorobenzene-d5	15.837	82	494253	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.114	95	577294	9.54	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 95.40%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.214	62	373	0.01	ppb(v	98
3) 1,1-Dichloroethene	5.834	61	660	0.01	ppb(v	91
4) Trans-1,2-Dichloroethene	6.838	61	598	0.01	ppb(v#	87
5) 1,1-Dichloroethane	7.043	63	852	0.01	ppb(v	99
6) Cis-1,2-Dichloroethene	7.904	61	622	0.01	ppb(v#	88
7) Chloroform	8.212	83	999	0.01	ppb(v	93
8) 1,1,1-Trichloroethane	9.278	97	972	0.01	ppb(v	98
9) 1,2-Dichloroethane	9.011	62	828	0.01	ppb(v	97
10) Benzene	9.802	78	1580	0.01	ppb(v	97
11) Carbon Tetrachloride	9.971	117	904	0.01	ppb(v	100
13) Trichloroethene	11.044	95	646	0.01	ppb(v	89
14) 1,2-Dichloropropane	10.762	65	226	0.01	ppb(v	93
15) Bromodichloromethane	11.006	83	1387	0.01	ppb(v	99
16) cis-1,3-Dichloropropene	12.147	75	817	0.01	ppb(v	99
17) trans-1,3-Dichloropropene	12.864	75	768	0.01	ppb(v	98
18) 1,1,2-Trichloroethane	13.069	83	707	0.01	ppb(v	87
19) Dibromochloromethane	13.992	129	1130	0.01	ppb(v	100
20) Tetrachloroethene	14.955	166	798	0.01	ppb(v	93
21) 1,2-Dibromoethane	14.320	107	921	0.01	ppb(v	96
23) 1,1,2,2-Tetrachloroethane	17.436	83	2058	0.01	ppb(v	99
25) 1,3-Dichlorobenzene	20.290	146	1001	0.01	ppb(v	99
26) 1,4-Dichlorobenzene	20.395	146	1196	0.01	ppb(v	95
27) 1,2-Dichlorobenzene	20.846	146	1301	0.01	ppb(v	99
28) Naphthalene	23.207	128	1246	0.01	ppb(v#	81

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23467.D
Acq On : 17 Dec 2021 11:55 am
Operator : danat
Sample : cc990-0.01
Misc : MS55468,V6W998,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 17 14:05:29 2021
Quant Method : C:\msdchem\1\methods\m6w990.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Dec 01 09:15:22 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23733.D
Acq On : 21 Jan 2022 8:06 am
Operator : thomash
Sample : icc1015-0.01
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 21 10:06:23 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Jan 12 16:40:55 2022
Response via : Initial Calibration

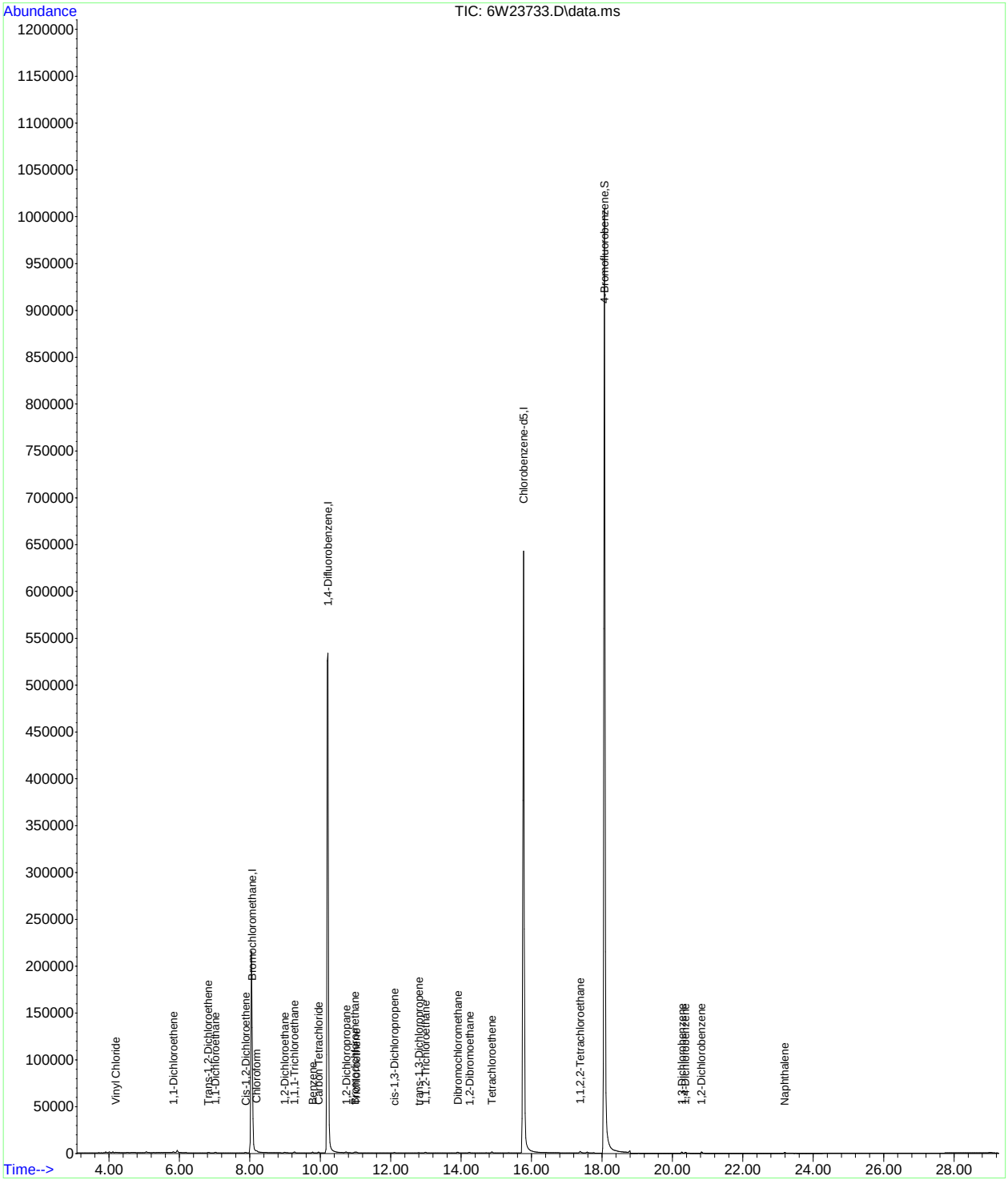
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	229908	10.00	ppb(v	# 0.00
12) 1,4-Difluorobenzene	10.216	114	1258980	10.00	ppb(v	# 0.00
22) Chlorobenzene-d5	15.775	82	577459	10.00	ppb(v	# 0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	714962	11.39	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 113.90%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	589	0.01	ppb(v	98
3) 1,1-Dichloroethene	5.834	61	1050	0.01	ppb(v#	56
4) Trans-1,2-Dichloroethene	6.818	61	608	0.01	ppb(v#	74
5) 1,1-Dichloroethane	7.023	63	874	0.01	ppb(v	98
6) Cis-1,2-Dichloroethene	7.884	61	648	0.01	ppb(v#	74
7) Chloroform	8.191	83	1144	0.01	ppb(v	96
8) 1,1,1-Trichloroethane	9.257	97	1177	0.01	ppb(v	98
9) 1,2-Dichloroethane	8.991	62	818	0.01	ppb(v	94
10) Benzene	9.783	78	1898	0.01	ppb(v	99
11) Carbon Tetrachloride	9.953	117	1144	0.01	ppb(v	96
13) Trichloroethene	11.025	95	1001	0.01	ppb(v	76
14) 1,2-Dichloropropane	10.743	65	221	0.01	ppb(v	84
15) Bromodichloromethane	10.987	83	1554	0.01	ppb(v	95
16) cis-1,3-Dichloropropene	12.106	75	956	0.01	ppb(v	99
17) trans-1,3-Dichloropropene	12.803	75	887	0.01	ppb(v	93
18) 1,1,2-Trichloroethane	12.987	83	873	0.01	ppb(v	92
19) Dibromochloromethane	13.910	129	1428	0.01	ppb(v	94
20) Tetrachloroethene	14.873	166	1916	0.02	ppb(v	82
21) 1,2-Dibromoethane	14.238	107	1264	0.01	ppb(v	99
23) 1,1,2,2-Tetrachloroethane	17.374	83	2449	0.01	ppb(v	98
25) 1,3-Dichlorobenzene	20.268	146	1947	0.02	ppb(v	96
26) 1,4-Dichlorobenzene	20.367	146	2350	0.02	ppb(v	98
27) 1,2-Dichlorobenzene	20.825	146	2392	0.02	ppb(v	100
28) Naphthalene	23.185	128	3012	0.03	ppb(v	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23733.D
Acq On : 21 Jan 2022 8:06 am
Operator : thomash
Sample : icc1015-0.01
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 21 10:06:23 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Wed Jan 12 16:40:55 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23734.D
Acq On : 21 Jan 2022 8:52 am
Operator : thomash
Sample : ic1015-0.005
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 21 10:07:46 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 10:07:31 2022
Response via : Initial Calibration

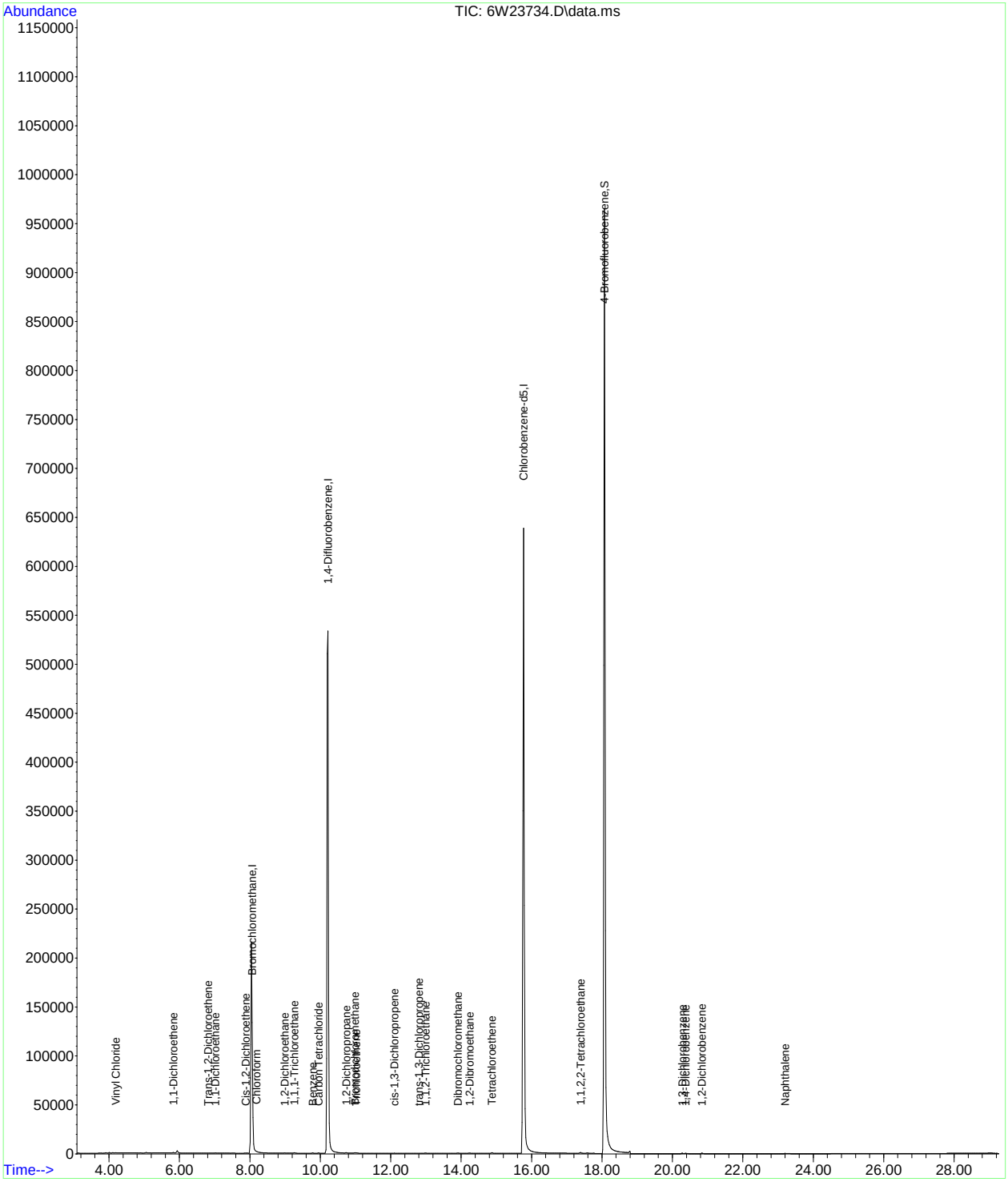
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	228331	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1239921	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	573297	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	690119	9.72	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 97.20%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	300	0.01	ppb(v	85
3) 1,1-Dichloroethene	5.834	61	675	0.01	ppb(v#	65
4) Trans-1,2-Dichloroethene	6.817	61	311	0.01	ppb(v	93
5) 1,1-Dichloroethane	7.022	63	460	0.01	ppb(v	99
6) Cis-1,2-Dichloroethene	7.883	61	330	0.01	ppb(v	98
7) Chloroform	8.191	83	587	0.01	ppb(v	100
8) 1,1,1-Trichloroethane	9.257	97	594	0.01	ppb(v	97
9) 1,2-Dichloroethane	8.990	62	416	0.01	ppb(v	87
10) Benzene	9.783	78	1053	0.01	ppb(v	91
11) Carbon Tetrachloride	9.952	117	571	0.01	ppb(v	97
13) Trichloroethene	11.025	95	527	0.01	ppb(v	98
14) 1,2-Dichloropropane	10.743	65	117	0.01	ppb(v	93
15) Bromodichloromethane	10.987	83	829	0.01	ppb(v	100
16) cis-1,3-Dichloropropene	12.106	75	461	0.00	ppb(v	86
17) trans-1,3-Dichloropropene	12.803	75	448	0.01	ppb(v	85
18) 1,1,2-Trichloroethane	12.987	83	421	0.00	ppb(v	95
19) Dibromochloromethane	13.910	129	718	0.01	ppb(v	97
20) Tetrachloroethene	14.873	166	1039	0.01	ppb(v	96
21) 1,2-Dibromoethane	14.238	107	625	0.01	ppb(v	99
23) 1,1,2,2-Tetrachloroethane	17.395	83	1213	0.00	ppb(v	91
25) 1,3-Dichlorobenzene	20.275	146	920	0.00	ppb(v	98
26) 1,4-Dichlorobenzene	20.374	146	1152	0.00	ppb(v	97
27) 1,2-Dichlorobenzene	20.832	146	1147	0.00	ppb(v	96
28) Naphthalene	23.199	128	1442	0.00	ppb(v#	85

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23734.D
Acq On : 21 Jan 2022 8:52 am
Operator : thomash
Sample : ic1015-0.005
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 21 10:07:46 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 10:07:31 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23735.D
Acq On : 21 Jan 2022 9:38 am
Operator : thomash
Sample : ic1015-0.002
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 21 10:08:21 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 10:08:12 2022
Response via : Initial Calibration

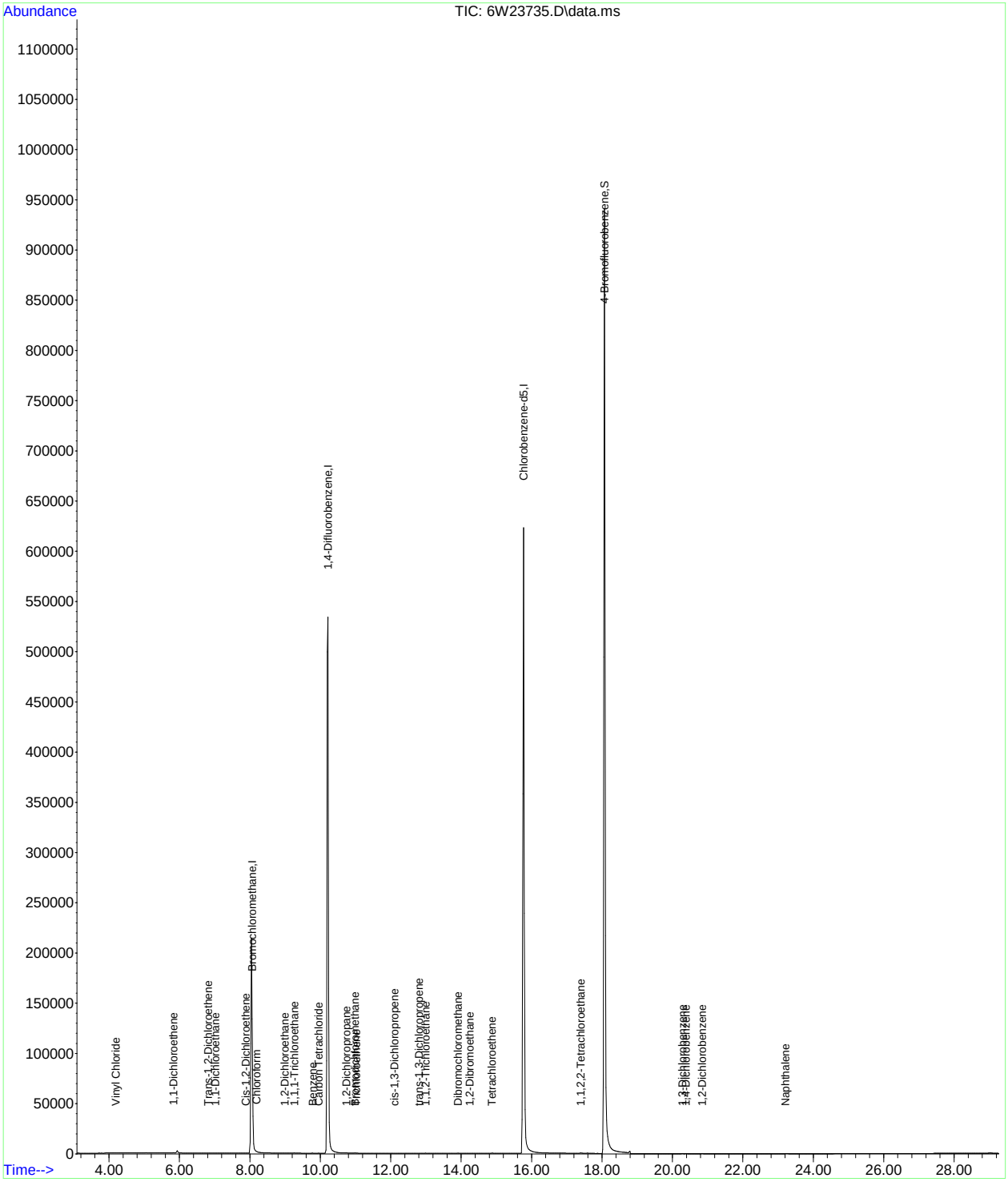
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	224938	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1227321	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	566023	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	674952	9.77	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 97.70%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	143	0.00	ppb(v#	63
3) 1,1-Dichloroethene	5.834	61	232	0.00	ppb(v#	11
4) Trans-1,2-Dichloroethene	6.818	61	134	0.00	ppb(v#	91
5) 1,1-Dichloroethane	7.023	63	194	0.00	ppb(v	90
6) Cis-1,2-Dichloroethene	7.883	61	156	0.00	ppb(v#	46
7) Chloroform	8.191	83	251	0.00	ppb(v	97
8) 1,1,1-Trichloroethane	9.257	97	260	0.00	ppb(v	94
9) 1,2-Dichloroethane	8.990	62	191	0.00	ppb(v#	65
10) Benzene	9.783	78	527	0.00	ppb(v#	76
11) Carbon Tetrachloride	9.952	117	243	0.00	ppb(v	96
13) Trichloroethene	11.025	95	256	0.00	ppb(v	98
14) 1,2-Dichloropropane	10.743	65	56	0.00	ppb(v	80
15) Bromodichloromethane	10.987	83	378	0.00	ppb(v	97
16) cis-1,3-Dichloropropene	12.106	75	194	0.00	ppb(v#	62
17) trans-1,3-Dichloropropene	12.803	75	192	0.00	ppb(v#	61
18) 1,1,2-Trichloroethane	12.987	83	183	0.00	ppb(v	88
19) Dibromochloromethane	13.910	129	322	0.00	ppb(v	93
20) Tetrachloroethene	14.873	166	523	0.00	ppb(v	93
21) 1,2-Dibromoethane	14.238	107	268	0.00	ppb(v	98
23) 1,1,2,2-Tetrachloroethane	17.395	83	499	0.00	ppb(v	90
25) 1,3-Dichlorobenzene	20.282	146	375	0.00	ppb(v	89
26) 1,4-Dichlorobenzene	20.381	146	478	0.00	ppb(v	92
27) 1,2-Dichlorobenzene	20.839	146	458	0.00	ppb(v	87
28) Naphthalene	23.213	128	625	0.00	ppb(v#	48

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23735.D
Acq On : 21 Jan 2022 9:38 am
Operator : thomash
Sample : ic1015-0.002
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 21 10:08:21 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 10:08:12 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23736.D
Acq On : 21 Jan 2022 10:27 am
Operator : thomash
Sample : ic1015-0.015
Misc : MS56216,V6W1015,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 21 10:57:01 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 10:08:48 2022
Response via : Initial Calibration

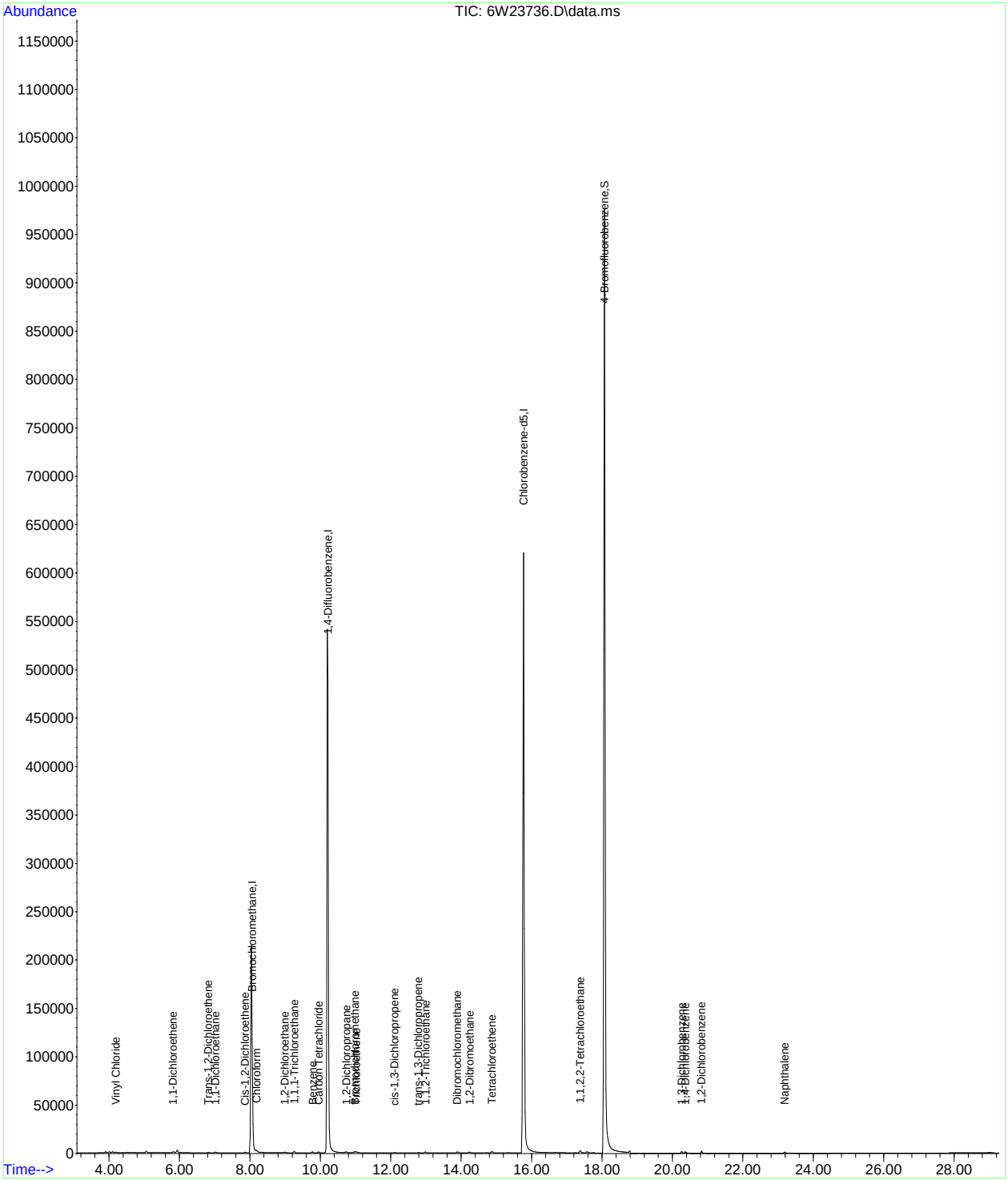
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	223339	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1211761	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	569896	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	697004	10.10	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 101.00%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	866	0.01	ppb(v	99
3) 1,1-Dichloroethene	5.813	61	1494	0.01	ppb(v#	51
4) Trans-1,2-Dichloroethene	6.818	61	888	0.01	ppb(v	96
5) 1,1-Dichloroethane	7.023	63	1333	0.01	ppb(v	100
6) Cis-1,2-Dichloroethene	7.863	61	935	0.01	ppb(v	94
7) Chloroform	8.191	83	1702	0.01	ppb(v	100
8) 1,1,1-Trichloroethane	9.257	97	1710	0.01	ppb(v	99
9) 1,2-Dichloroethane	8.990	62	1191	0.01	ppb(v	98
10) Benzene	9.783	78	2670	0.01	ppb(v	97
11) Carbon Tetrachloride	9.952	117	1672	0.01	ppb(v	99
13) Trichloroethene	11.025	95	1278	0.01	ppb(v	98
14) 1,2-Dichloropropane	10.743	65	343	0.01	ppb(v	97
15) Bromodichloromethane	10.987	83	2266	0.01	ppb(v	100
16) cis-1,3-Dichloropropene	12.106	75	1381	0.01	ppb(v	98
17) trans-1,3-Dichloropropene	12.782	75	1278	0.01	ppb(v	90
18) 1,1,2-Trichloroethane	12.987	83	1263	0.01	ppb(v	97
19) Dibromochloromethane	13.889	129	2107	0.01	ppb(v	93
20) Tetrachloroethene	14.873	166	2367	0.01	ppb(v	99
21) 1,2-Dibromoethane	14.238	107	1827	0.01	ppb(v	97
23) 1,1,2,2-Tetrachloroethane	17.374	83	3648	0.01	ppb(v	100
25) 1,3-Dichlorobenzene	20.261	146	2814	0.01	ppb(v	96
26) 1,4-Dichlorobenzene	20.367	146	3317	0.01	ppb(v	100
27) 1,2-Dichlorobenzene	20.825	146	3396	0.01	ppb(v	100
28) Naphthalene	23.185	128	3993	0.01	ppb(v	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23736.D
Acq On : 21 Jan 2022 10:27 am
Operator : thomash
Sample : ic1015-0.015
Misc : MS56216,V6W1015,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 21 10:57:01 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 10:08:48 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23737.D
Acq On : 21 Jan 2022 11:17 am
Operator : thomash
Sample : ic1015-0.02
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 21 12:43:48 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 10:57:28 2022
Response via : Initial Calibration

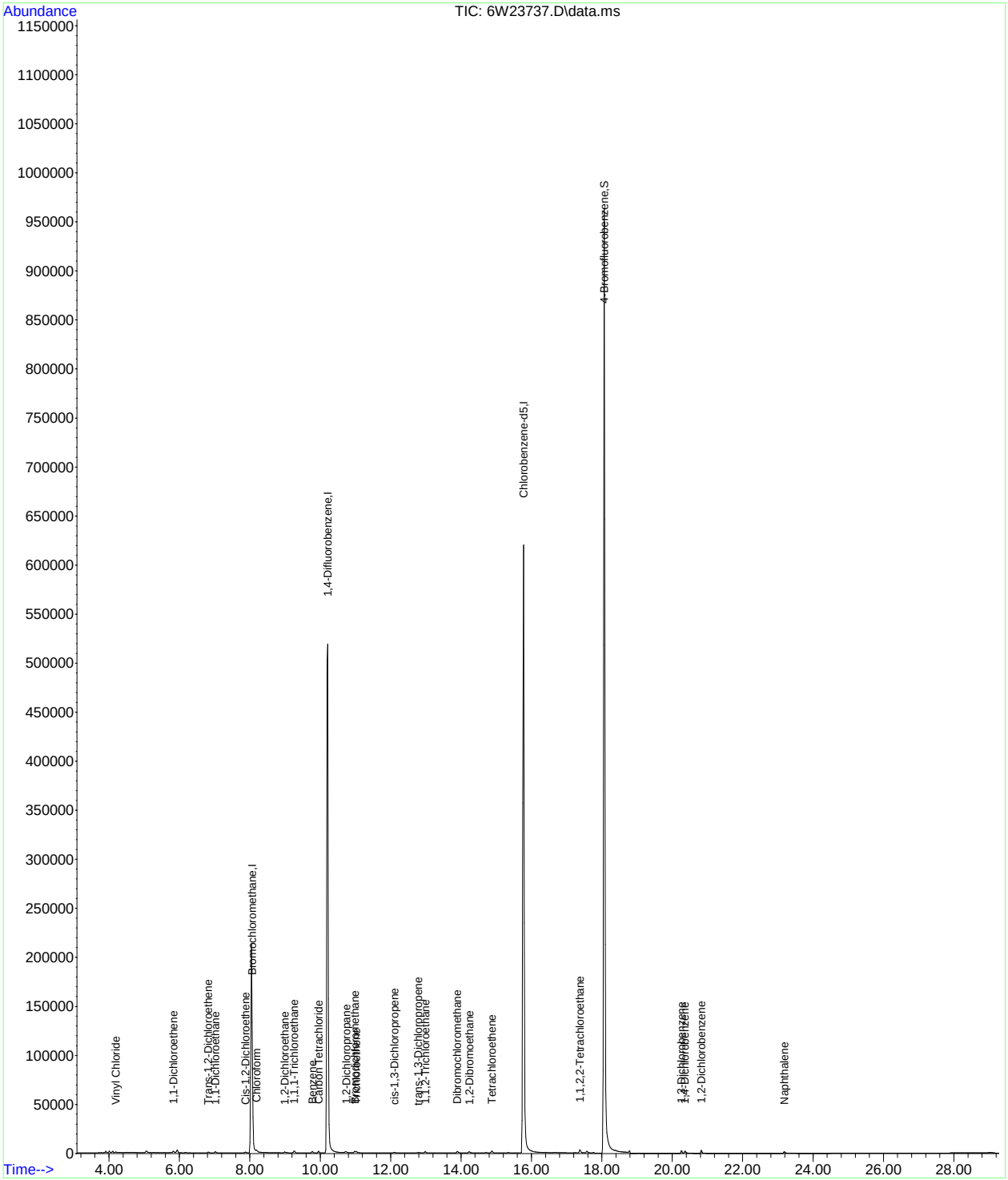
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	219217	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1203554	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	563008	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	687573	10.06	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.60%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	1139	0.02	ppb(v	91
3) 1,1-Dichloroethene	5.834	61	2044	0.02	ppb(v	70
4) Trans-1,2-Dichloroethene	6.818	61	1170	0.02	ppb(v	96
5) 1,1-Dichloroethane	7.023	63	1755	0.02	ppb(v	99
6) Cis-1,2-Dichloroethene	7.883	61	1241	0.02	ppb(v	93
7) Chloroform	8.191	83	2253	0.02	ppb(v	98
8) 1,1,1-Trichloroethane	9.257	97	2256	0.02	ppb(v	99
9) 1,2-Dichloroethane	8.990	62	1583	0.02	ppb(v	93
10) Benzene	9.783	78	3441	0.02	ppb(v	95
11) Carbon Tetrachloride	9.952	117	2238	0.02	ppb(v	98
13) Trichloroethene	11.025	95	1655	0.02	ppb(v	98
14) 1,2-Dichloropropane	10.743	65	447	0.02	ppb(v	93
15) Bromodichloromethane	10.987	83	3019	0.02	ppb(v	100
16) cis-1,3-Dichloropropene	12.106	75	1802	0.02	ppb(v	94
17) trans-1,3-Dichloropropene	12.782	75	1657	0.02	ppb(v	86
18) 1,1,2-Trichloroethane	12.987	83	1713	0.02	ppb(v	97
19) Dibromochloromethane	13.889	129	2787	0.02	ppb(v	93
20) Tetrachloroethene	14.873	166	2979	0.01	ppb(v	99
21) 1,2-Dibromoethane	14.238	107	2392	0.02	ppb(v	97
23) 1,1,2,2-Tetrachloroethane	17.374	83	4917	0.02	ppb(v	100
25) 1,3-Dichlorobenzene	20.261	146	3808	0.02	ppb(v	97
26) 1,4-Dichlorobenzene	20.360	146	4328	0.02	ppb(v	96
27) 1,2-Dichlorobenzene	20.825	146	4645	0.02	ppb(v	100
28) Naphthalene	23.178	128	5206	0.02	ppb(v	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23737.D
Acq On : 21 Jan 2022 11:17 am
Operator : thomash
Sample : ic1015-0.02
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 21 12:43:48 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 10:57:28 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23738.D
Acq On : 21 Jan 2022 12:16 pm
Operator : thomash
Sample : ic1015-0.04
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 21 12:46:07 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 12:44:14 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	213647	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1170664	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.755	82	551300	10.00	ppb(v	#-0.02
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	673982	10.06	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.60%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	2273	0.04	ppb(v	87
3) 1,1-Dichloroethene	5.834	61	3879	0.04	ppb(v#	64
4) Trans-1,2-Dichloroethene	6.818	61	2342	0.04	ppb(v	94
5) 1,1-Dichloroethane	7.023	63	3490	0.04	ppb(v	98
6) Cis-1,2-Dichloroethene	7.863	61	2497	0.04	ppb(v	92
7) Chloroform	8.191	83	4463	0.04	ppb(v	97
8) 1,1,1-Trichloroethane	9.257	97	4479	0.04	ppb(v	98
9) 1,2-Dichloroethane	8.991	62	3134	0.04	ppb(v	90
10) Benzene	9.783	78	6714	0.03	ppb(v	93
11) Carbon Tetrachloride	9.953	117	4482	0.04	ppb(v	99
13) Trichloroethene	11.025	95	3196	0.03	ppb(v	97
14) 1,2-Dichloropropane	10.743	65	887	0.04	ppb(v	90
15) Bromodichloromethane	10.987	83	5946	0.04	ppb(v	100
16) cis-1,3-Dichloropropene	12.106	75	3688	0.04	ppb(v	90
17) trans-1,3-Dichloropropene	12.782	75	3413	0.04	ppb(v	81
18) 1,1,2-Trichloroethane	12.967	83	3417	0.04	ppb(v	84
19) Dibromochloromethane	13.889	129	5628	0.04	ppb(v	96
20) Tetrachloroethene	14.873	166	5898	0.03	ppb(v	97
21) 1,2-Dibromoethane	14.217	107	4894	0.04	ppb(v	97
23) 1,1,2,2-Tetrachloroethane	17.374	83	10163	0.04	ppb(v	98
25) 1,3-Dichlorobenzene	20.254	146	8383	0.05	ppb(v	94
26) 1,4-Dichlorobenzene	20.360	146	9185	0.04	ppb(v	99
27) 1,2-Dichlorobenzene	20.825	146	9969	0.04	ppb(v	97
28) Naphthalene	23.171	128	11358	0.04	ppb(v	93

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

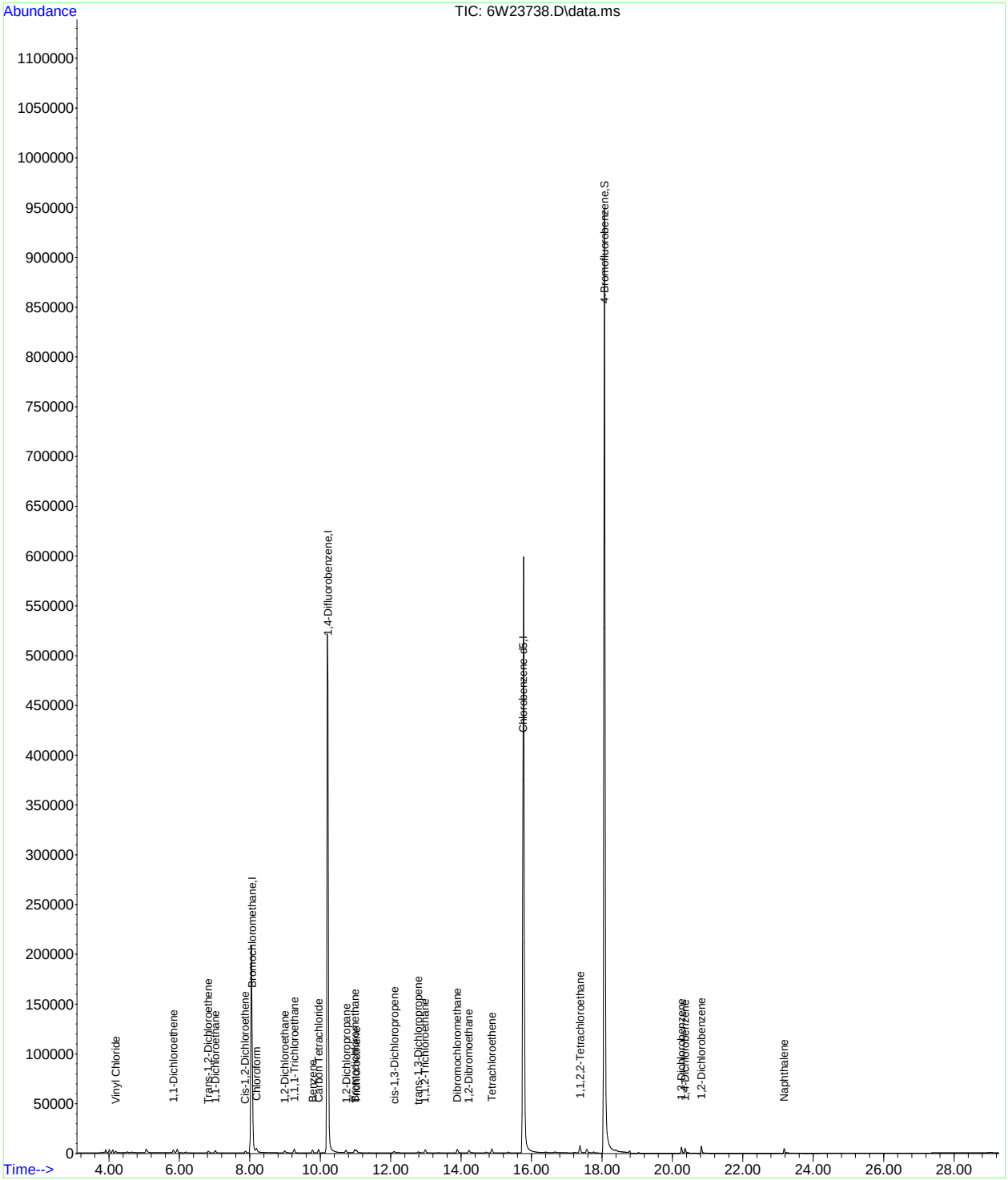
7.7.14

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23738.D
Acq On : 21 Jan 2022 12:16 pm
Operator : thomash
Sample : ic1015-0.04
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 21 12:46:07 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 12:44:14 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23739.D
Acq On : 21 Jan 2022 1:04 pm
Operator : thomash
Sample : ic1015-0.5
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 21 13:42:59 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 12:46:37 2022
Response via : Initial Calibration

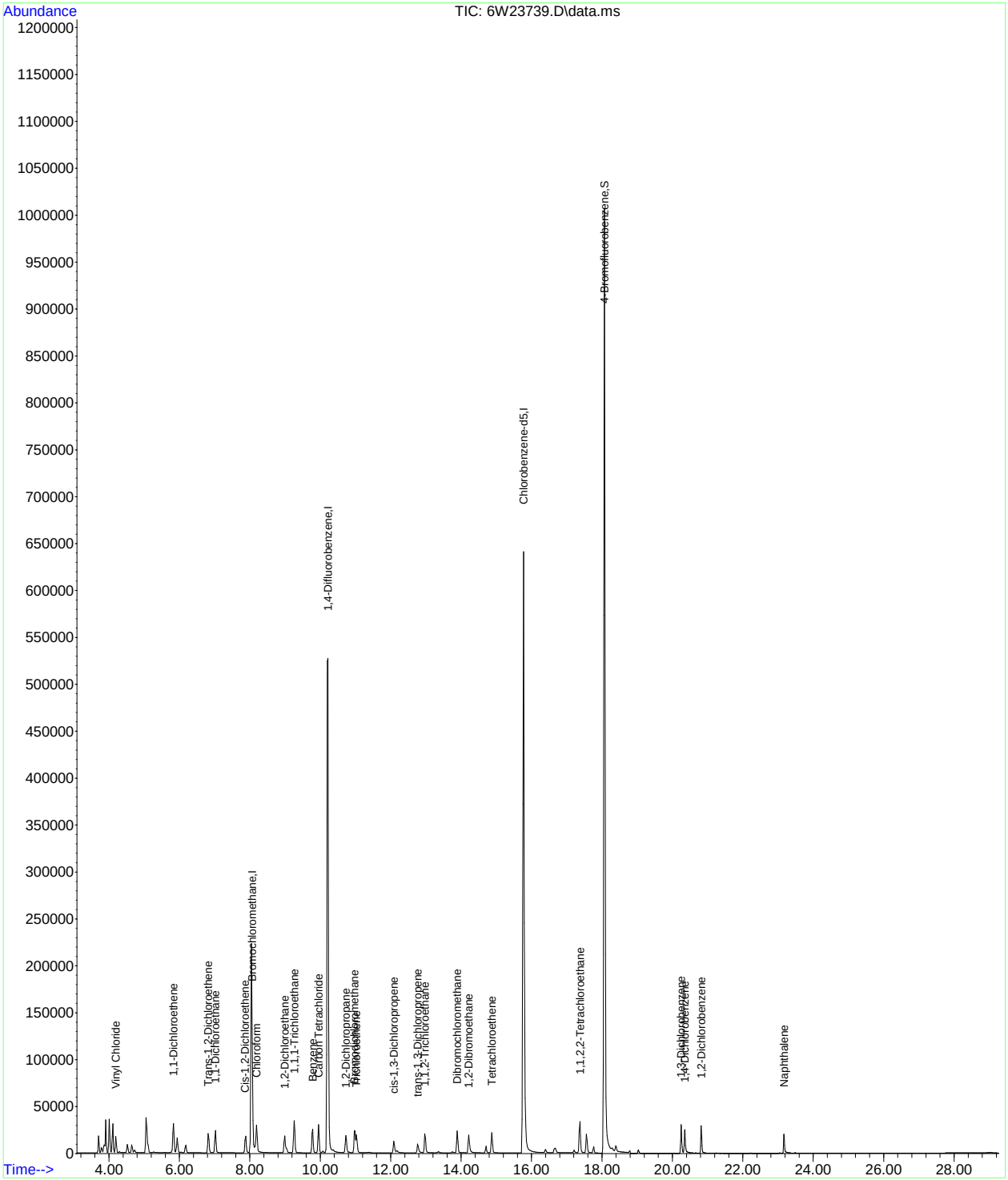
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	222798	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1229860	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	581776	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	722989	10.21	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 102.10%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	25432	0.42	ppb(v	80
3) 1,1-Dichloroethene	5.834	61	41535	0.38	ppb(v#	57
4) Trans-1,2-Dichloroethene	6.818	61	26104	0.43	ppb(v	94
5) 1,1-Dichloroethane	7.023	63	34468	0.38	ppb(v	98
6) Cis-1,2-Dichloroethene	7.863	61	23620	0.36	ppb(v	93
7) Chloroform	8.191	83	40802	0.35	ppb(v	92
8) 1,1,1-Trichloroethane	9.257	97	39629	0.34	ppb(v	97
9) 1,2-Dichloroethane	8.991	62	25900	0.31	ppb(v	88
10) Benzene	9.783	78	55331	0.28	ppb(v	89
11) Carbon Tetrachloride	9.953	117	38490	0.34	ppb(v	99
13) Trichloroethene	11.025	95	24223	0.25	ppb(v	95
14) 1,2-Dichloropropane	10.724	65	6842	0.29	ppb(v	62
15) Bromodichloromethane	10.969	83	43747	0.27	ppb(v	90
16) cis-1,3-Dichloropropene	12.086	75	27005	0.29	ppb(v	81
17) trans-1,3-Dichloropropene	12.762	75	23306	0.26	ppb(v#	73
18) 1,1,2-Trichloroethane	12.967	83	20525	0.24	ppb(v	91
19) Dibromochloromethane	13.889	129	34726	0.24	ppb(v	98
20) Tetrachloroethene	14.873	166	29111	0.16	ppb(v	97
21) 1,2-Dibromoethane	14.217	107	30558	0.24	ppb(v	100
23) 1,1,2,2-Tetrachloroethane	17.374	83	44575	0.18	ppb(v	95
25) 1,3-Dichlorobenzene	20.247	146	37586	0.19	ppb(v	94
26) 1,4-Dichlorobenzene	20.353	146	38967	0.17	ppb(v	98
27) 1,2-Dichlorobenzene	20.818	146	37018	0.15	ppb(v	99
28) Naphthalene	23.171	128	41536	0.14	ppb(v	89

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23739.D
Acq On : 21 Jan 2022 1:04 pm
Operator : thomash
Sample : ic1015-0.5
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 21 13:42:59 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 12:46:37 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23742.D
Acq On : 21 Jan 2022 3:28 pm
Operator : thomash
Sample : icv1015-0.01
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 09:38:02 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

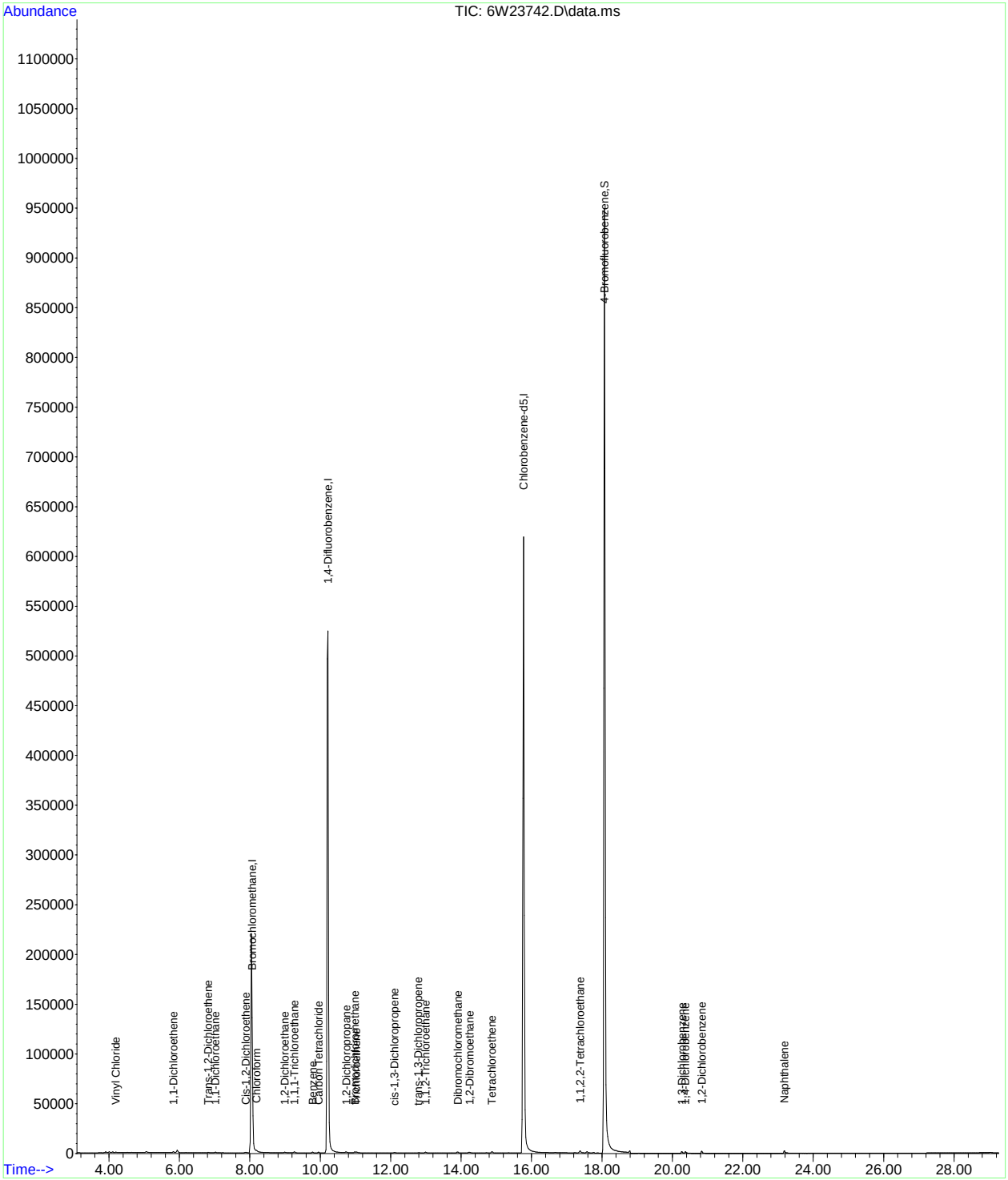
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	218394	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1199221	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	570610	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	691804	9.93	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.30%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	646	0.01	ppb(v	99
3) 1,1-Dichloroethene	5.834	61	1266	0.01	ppb(v	91
4) Trans-1,2-Dichloroethene	6.818	61	705	0.01	ppb(v	96
5) 1,1-Dichloroethane	7.023	63	1006	0.01	ppb(v	99
6) Cis-1,2-Dichloroethene	7.884	61	826	0.01	ppb(v	92
7) Chloroform	8.191	83	1285	0.01	ppb(v	100
8) 1,1,1-Trichloroethane	9.257	97	1261	0.01	ppb(v	99
9) 1,2-Dichloroethane	8.990	62	945	0.01	ppb(v	99
10) Benzene	9.783	78	2126	0.01	ppb(v	100
11) Carbon Tetrachloride	9.952	117	1207	0.01	ppb(v	99
13) Trichloroethene	11.025	95	1051	0.01	ppb(v	96
14) 1,2-Dichloropropane	10.743	65	264	0.01	ppb(v	98
15) Bromodichloromethane	10.987	83	1760	0.01	ppb(v	99
16) cis-1,3-Dichloropropene	12.106	75	1087	0.01	ppb(v	100
17) trans-1,3-Dichloropropene	12.782	75	1042	0.01	ppb(v	94
18) 1,1,2-Trichloroethane	12.987	83	989	0.01	ppb(v	100
19) Dibromochloromethane	13.910	129	1605	0.01	ppb(v	99
20) Tetrachloroethene	14.873	166	1855	0.01	ppb(v	97
21) 1,2-Dibromoethane	14.238	107	1444	0.01	ppb(v	98
23) 1,1,2,2-Tetrachloroethane	17.374	83	3207	0.01	ppb(v	99
25) 1,3-Dichlorobenzene	20.268	146	2674	0.01	ppb(v	99
26) 1,4-Dichlorobenzene	20.367	146	2931	0.01	ppb(v	98
27) 1,2-Dichlorobenzene	20.832	146	3285	0.01	ppb(v	97
28) Naphthalene	23.178	128	7242	0.03	ppb(v	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23742.D
Acq On : 21 Jan 2022 3:28 pm
Operator : thomash
Sample : icv1015-0.01
Misc : MS56076,V6W1015,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 09:38:02 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23754.D
Acq On : 22 Jan 2022 1:28 am
Operator : thomash
Sample : ecc1015-0.01
Misc : MS56249,V6W1016,400,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 24 09:55:11 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

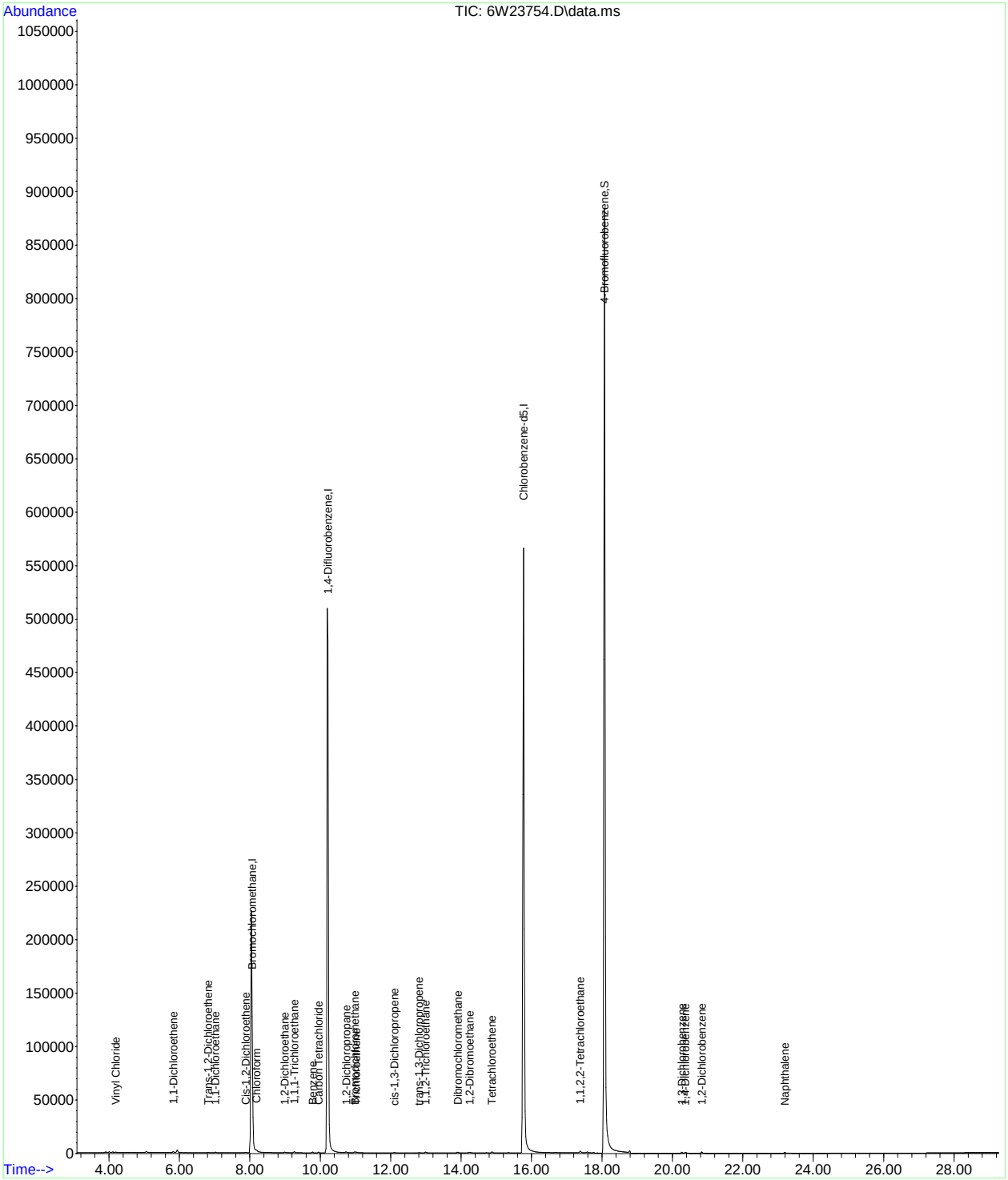
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	212413	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1151768	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	532325	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	650186	10.01	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 100.10%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	584	0.01	ppb(v	99
3) 1,1-Dichloroethene	5.834	61	1040	0.01	ppb(v	94
4) Trans-1,2-Dichloroethene	6.818	61	672	0.01	ppb(v	95
5) 1,1-Dichloroethane	7.023	63	977	0.01	ppb(v	99
6) Cis-1,2-Dichloroethene	7.884	61	700	0.01	ppb(v	92
7) Chloroform	8.191	83	1189	0.01	ppb(v	100
8) 1,1,1-Trichloroethane	9.257	97	1176	0.01	ppb(v	100
9) 1,2-Dichloroethane	8.991	62	850	0.01	ppb(v	100
10) Benzene	9.783	78	1991	0.01	ppb(v	99
11) Carbon Tetrachloride	9.953	117	1128	0.01	ppb(v	99
13) Trichloroethene	11.025	95	926	0.01	ppb(v	96
14) 1,2-Dichloropropane	10.743	65	233	0.01	ppb(v	96
15) Bromodichloromethane	10.987	83	1608	0.01	ppb(v	100
16) cis-1,3-Dichloropropene	12.106	75	968	0.01	ppb(v	100
17) trans-1,3-Dichloropropene	12.803	75	857	0.01	ppb(v	99
18) 1,1,2-Trichloroethane	12.987	83	872	0.01	ppb(v	97
19) Dibromochloromethane	13.910	129	1367	0.01	ppb(v	99
20) Tetrachloroethene	14.873	166	1579	0.01	ppb(v	95
21) 1,2-Dibromoethane	14.238	107	1207	0.01	ppb(v	98
23) 1,1,2,2-Tetrachloroethane	17.374	83	2485	0.01	ppb(v	100
25) 1,3-Dichlorobenzene	20.268	146	1693	0.01	ppb(v	100
26) 1,4-Dichlorobenzene	20.367	146	1940	0.01	ppb(v	99
27) 1,2-Dichlorobenzene	20.832	146	2083	0.01	ppb(v	97
28) Naphthalene	23.192	128	2385	0.01	ppb(v	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23754.D
Acq On : 22 Jan 2022 1:28 am
Operator : thomash
Sample : ecc1015-0.01
Misc : MS56249,V6W1016,400,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 24 09:55:11 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23756.D
Acq On : 24 Jan 2022 8:00 am
Operator : thomash
Sample : cc1015-0.01
Misc : MS56249,V6W1016,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 08:42:28 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 13:44:22 2022
Response via : Initial Calibration

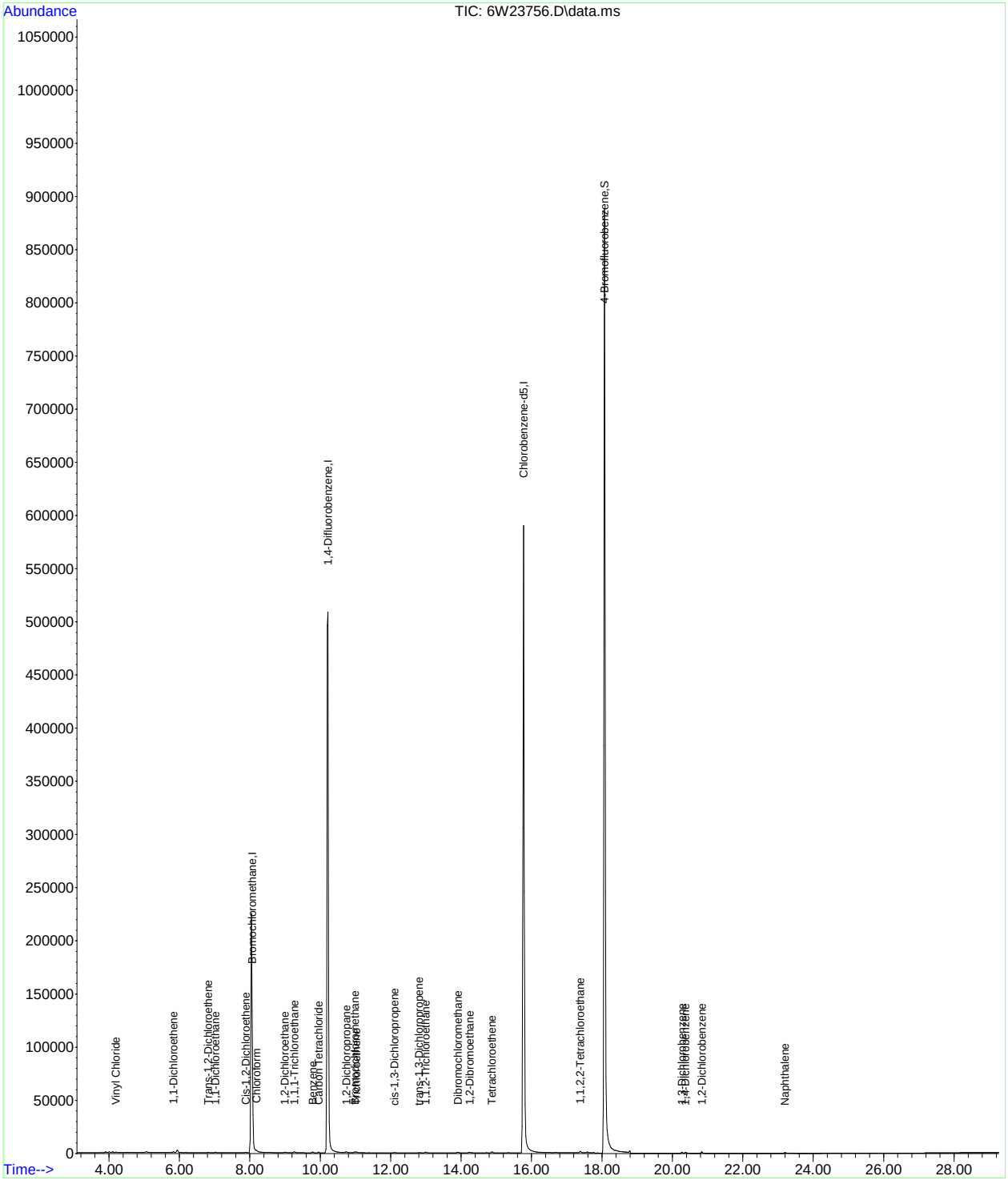
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	214779	10.00	ppb(v	0.00
12) 1,4-Difluorobenzene	10.216	114	1171724	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	543170	10.00	ppb(v	0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	660104	9.96	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 99.60%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	599	0.01	ppb(v	99
3) 1,1-Dichloroethene	5.834	61	1091	0.01	ppb(v	92
4) Trans-1,2-Dichloroethene	6.818	61	662	0.01	ppb(v	91
5) 1,1-Dichloroethane	7.023	63	963	0.01	ppb(v	97
6) Cis-1,2-Dichloroethene	7.884	61	694	0.01	ppb(v	92
7) Chloroform	8.191	83	1211	0.01	ppb(v	100
8) 1,1,1-Trichloroethane	9.257	97	1200	0.01	ppb(v	99
9) 1,2-Dichloroethane	8.991	62	840	0.01	ppb(v	100
10) Benzene	9.783	78	1998	0.01	ppb(v	99
11) Carbon Tetrachloride	9.953	117	1124	0.01	ppb(v	99
13) Trichloroethene	11.025	95	1014	0.01	ppb(v	97
14) 1,2-Dichloropropane	10.743	65	240	0.01	ppb(v	96
15) Bromodichloromethane	10.987	83	1603	0.01	ppb(v	99
16) cis-1,3-Dichloropropene	12.106	75	938	0.01	ppb(v	99
17) trans-1,3-Dichloropropene	12.803	75	883	0.01	ppb(v	99
18) 1,1,2-Trichloroethane	12.987	83	892	0.01	ppb(v	99
19) Dibromochloromethane	13.910	129	1406	0.01	ppb(v	100
20) Tetrachloroethene	14.873	166	1604	0.01	ppb(v	96
21) 1,2-Dibromoethane	14.238	107	1241	0.01	ppb(v	99
23) 1,1,2,2-Tetrachloroethane	17.374	83	2526	0.01	ppb(v	98
25) 1,3-Dichlorobenzene	20.269	146	1697	0.01	ppb(v	99
26) 1,4-Dichlorobenzene	20.367	146	1967	0.01	ppb(v	98
27) 1,2-Dichlorobenzene	20.832	146	2085	0.01	ppb(v	97
28) Naphthalene	23.192	128	2394	0.01	ppb(v	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23756.D
Acq On : 24 Jan 2022 8:00 am
Operator : thomash
Sample : cc1015-0.01
Misc : MS56249,V6W1016,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 08:42:28 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Fri Jan 21 13:44:22 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23768.D
Acq On : 24 Jan 2022 6:07 pm
Operator : thomash
Sample : ecc1015-0.01
Misc : MS56249,V6W1016,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:02:27 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration

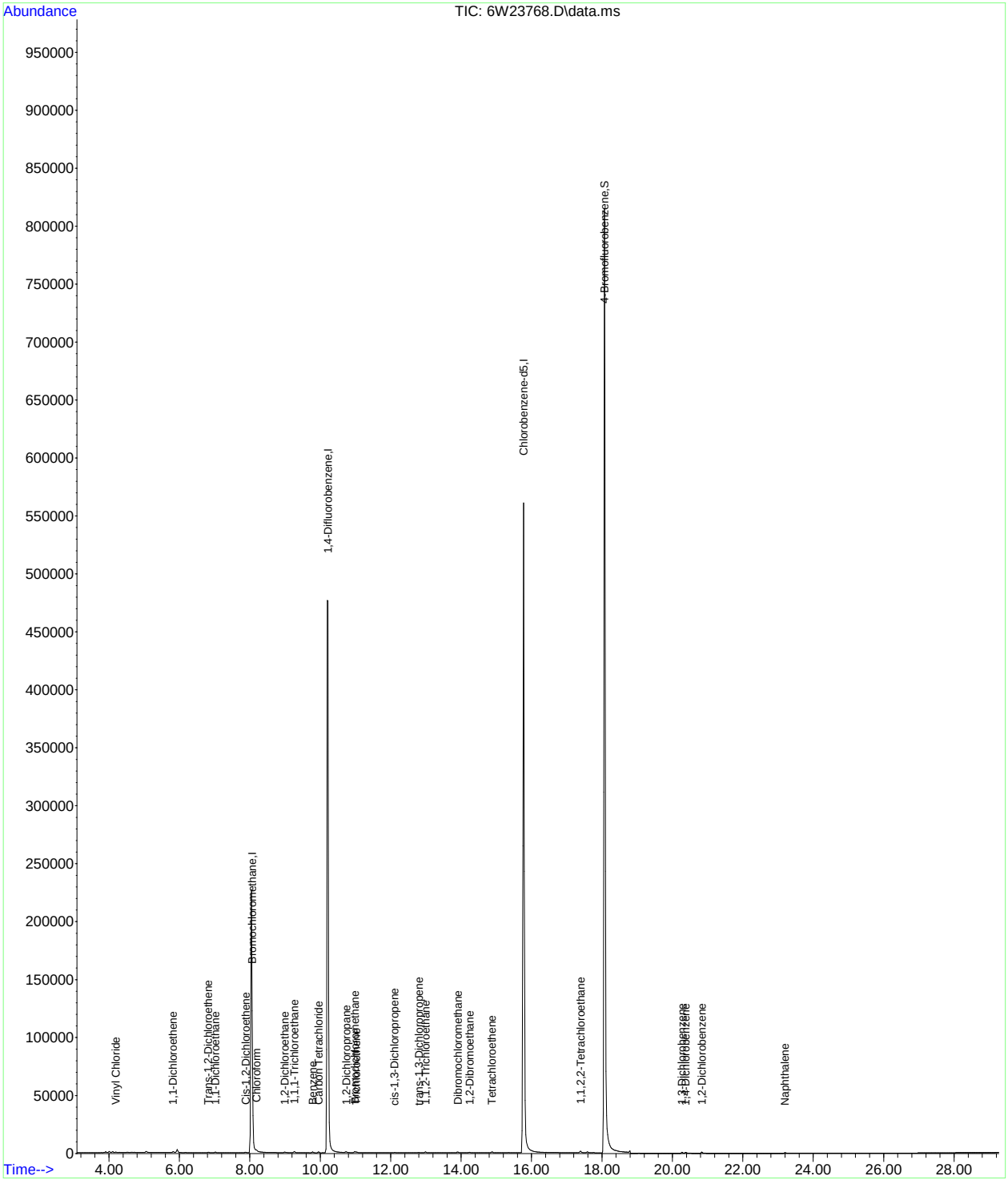
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	8.068	128	197214	10.00	ppb(v	# 0.00
12) 1,4-Difluorobenzene	10.216	114	1084834	10.00	ppb(v	0.00
22) Chlorobenzene-d5	15.775	82	525391	10.00	ppb(v	# 0.00
System Monitoring Compounds						
24) 4-Bromofluorobenzene	18.068	95	622751	9.71	ppb(v	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery = 97.10%			
Target Compounds						Qvalue
2) Vinyl Chloride	4.194	62	587	0.01	ppb(v	97
3) 1,1-Dichloroethene	5.813	61	1163	0.01	ppb(v#	56
4) Trans-1,2-Dichloroethene	6.818	61	628	0.01	ppb(v	92
5) 1,1-Dichloroethane	7.023	63	977	0.01	ppb(v	98
6) Cis-1,2-Dichloroethene	7.884	61	640	0.01	ppb(v	89
7) Chloroform	8.191	83	1181	0.01	ppb(v	99
8) 1,1,1-Trichloroethane	9.257	97	1151	0.01	ppb(v	98
9) 1,2-Dichloroethane	8.991	62	839	0.01	ppb(v	100
10) Benzene	9.783	78	1804	0.01	ppb(v	97
11) Carbon Tetrachloride	9.953	117	1086	0.01	ppb(v	98
13) Trichloroethene	11.025	95	916	0.01	ppb(v	93
14) 1,2-Dichloropropane	10.743	65	234	0.01	ppb(v	100
15) Bromodichloromethane	10.987	83	1587	0.01	ppb(v	98
16) cis-1,3-Dichloropropene	12.106	75	828	0.01	ppb(v	96
17) trans-1,3-Dichloropropene	12.803	75	766	0.01	ppb(v	97
18) 1,1,2-Trichloroethane	12.987	83	834	0.01	ppb(v	94
19) Dibromochloromethane	13.910	129	1263	0.01	ppb(v	99
20) Tetrachloroethene	14.873	166	1364	0.01	ppb(v	92
21) 1,2-Dibromoethane	14.238	107	1079	0.01	ppb(v	100
23) 1,1,2,2-Tetrachloroethane	17.395	83	2395	0.01	ppb(v	93
25) 1,3-Dichlorobenzene	20.269	146	1327	0.01	ppb(v	98
26) 1,4-Dichlorobenzene	20.374	146	1533	0.01	ppb(v	98
27) 1,2-Dichlorobenzene	20.832	146	1692	0.01	ppb(v	98
28) Naphthalene	23.192	128	1668	0.01	ppb(v#	86

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W23768.D
Acq On : 24 Jan 2022 6:07 pm
Operator : thomash
Sample : ecc1015-0.01
Misc : MS56249,V6W1016,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 25 09:02:27 2022
Quant Method : C:\msdchem\1\methods\m6w1015.M
Quant Title : TO-15 SIM Mode
QLast Update : Mon Jan 24 09:38:00 2022
Response via : Initial Calibration



SGS

TO-15

Batch ID: V6W 1015
V6W 1016

Date: 1/21/22

Analyst Signature:

Columns: RTX1 - 60m x 0.32mm x 1.0

Method: 6WTO15, 6W-SIM-TO15

Seq. File: 6W20220121.S

Initial Cal. Method: M6W1015.M

AS Data

Method: 6WTO15, CTD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
A39188	Int Surr	100 ppbV
A39405	TO15 Sim Std (A978)	0.02 ppbV
A39405	TO15 Std (A1261)	1.0 ppbV
A39406	TO15 Sim Lcs (A967)	0.02 ppbV

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the crite of SGS SOP EQA044.

Supervisor Signature: Date: 1/25/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	6W23732	BFB		A978	100					dh	
1	6W23733	ICC1015-0.01		A978	200			✓	✓	dh	time 719
1	6W23734	IC1015-0.005		A978	100			✓	✓	dh	
1	6W23735	IC1015-0.002		A978	40			✓	✓	dh	
1	6W23736	IC1015-0.015		A978	300			✓	✓	dh	
1	6W23737	IC1015-0.02		A978	400			✓	✓	dh	
1	6W23738	IC1015-0.04		A978	800			✓	✓	dh	
2	6W23739	IC1015-0.5		A1261	200			✓	✓	dh	
2	6W23740	IC1015-1.0		A1261	400					dh	not used
3	6W23741	IB		A959	100						
4	6W23742	ICV1015-0.01		A967	200			✓	✓	dh	
1	6W23743	BFB		A967	200			✓	✓	dh	
1	6W23744	BFB		A967	200			✓	✓	dh	
3	6W23745	IB		A959	100			✓	✓	dh	
3	6W23746	MB		A959	400			✓	✓	dh	
5	6W23747	TO38295-3	TO15SIM	A1157	400	1		✓	✓	dh	MPCE1
5	6W23748	TO38295-3	MS56242	A1157	400	1		✓	✓	dh	
6	6W23749	TO38295-4		M478	400	1		✓	✓	dh	
7	6W23750	TO38291-1	TO15SIM	A1111	400	1		✓	✓	dh	
8	6W23751	TO38291-5	MS56249	A775	400	1		✓	✓	dh	
9	6W23752	TO38291-3		A893	400	1		✓	✓	dh	
10	6W23753	TO38291-7	MS56256	A780	400	1		✓	✓	dh	MPCE1
1	6W23754	ICC1015-0.01		A978	200			✓	✓	dh	

1/24/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

TO-15

Batch ID: V6W 1016

Analyst Signature:

Date: 1/24/22

Columns: RTX-624 60m x 0.32mm x 1.8µm
Method: 6W-SIM-TO15
Seq. File: 6W20220124.s
Initial Cal. Method: M6W1015.m

AS Data

Method: 6W TO15.CFG

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9188	Int/Surr	100 ppbv
AS9405	TO15 SIM Std (A978)	0.02 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the crite of SGS SOP EQA044.

Supervisor Signature: Date: 1/25/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comment
1	6W23755	BFB2		A978	200			✓	✓	QM	time 7/2
1	6W23756	CC1015-0.01		A978	200			✓	✓	QM	
1	6W23757	BS2		A978	200			✓	✓	QM	
1	6W23758	BSD2		A978	200			✓	✓	QM	
3	6W23759	I3		A959	100			✓	✓	QM	
3	6W23760	M3		A959	400			✓	✓	QM	
5	6W23761	ICV38295-3		A157	40	1		✓	✓	QM	
10	6W23762	ID38291-17		A780	40	1		✓	✓	RR	pCET
10	6W23763	ID38291-17		A780	10	1		✓	✓	QM	
1	6W23764	ID37747-1A	VTO15SIMSC	A978	40			✓	✓	QM	a1 LOQ
1	6W23765	ID37747-1B	MS56268	A978	100			✓	✓	QM	
1	6W23766	ID37747-2A		A978	40			✓	✓	QM	a1 MDLV
1	6W23767	ID37747-2B		A978	100			✓	✓	QM	
1	6W23768	ECC1015-0.01		A978	200			✓	✓	QM	

1/25/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

TO-15

Batch ID: V6W 1015
V6W 1016

Date: 1/21/22

Analyst Signature:

Columns: RTX1 - 60m x 0.32mm x 1.0
Method: 6WTO15, 6W-SIM-TO15
Seq. File: 6W20220121.S
Initial Cal. Method: M6W1015-14

AS Data

Method: 6WTO15, CTO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
A59488	Int Surr	100 ppbV
A54405	TO15 Sim Std (A978)	0.01 ppbV
A54405	TO15 Std (A1261)	1.0 ppbV
A59406	TO15 Sim Lcs (A967)	0.02 ppbV

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the crite of SGS SOP EQA044.

Supervisor Signature: Date: 1/25/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	6W23732	BFB		A978	100					dlh	
1	6W23733	ICC1015-0.01		A978	200			✓	✓	dlh	
1	6W23734	IC1015-0.005		A978	100			✓	✓	dlh	
1	6W23735	IC1015-0.002		A978	40			✓	✓	dlh	
1	6W23736	IC1015-0.015		A978	300			✓	✓	dlh	
1	6W23737	IC1015-0.02		A978	400			✓	✓	dlh	
1	6W23738	IC1015-0.04		A978	800			✓	✓	dlh	
2	6W23739	IC1015-0.5		A1261	200			✓	✓	dlh	
2	6W23740	IC1015-1.0		A1261	400					dlh	
3	6W23741	IB		A959	100					not used	
4	6W23742	ICV1015-0.01		A967	200			✓	✓	dlh	
1	6W23743	BFB		A967	200			✓	✓	dlh	
1	6W23744	BFB		A967	200			✓	✓	dlh	
3	6W23745	IB		A959	100						
3	6W23746	MB		A959	400			✓	✓	dlh	
5	6W23747	TO38295-3	TO15SIM	A1157	400	1		✓	✓	dlh	MPCE1
5	6W23748	TO38295-3	MS56242	A1157	400	1		✓	✓	dlh	
6	6W23749	TO38295-4		M478	400	1		✓	✓	dlh	
7	6W23750	TO38291-1	TO15SIM	A1111	400	1		✓	✓	dlh	
8	6W23751	TO38291-5	MS5624	A775	400	1		✓	✓	dlh	
9	6W23752	TO38291-3		A893	400	1		✓	✓	dlh	
10	6W23753	TO38291-7	MS5625	A780	400	1		✓	✓	dlh	MPCE1
1	6W23754	ICC1015-0.01		A978	200			✓	✓	dlh	

1/24/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

TO-15

Batch ID: V6W990

Date: 11/30/21

Analyst Signature:

Columns: RTX-1 60mx0.32mmx1.0µm

Method: 6WTO15

Seq. File: 6W20211130.S

Initial Cal. Method: M6W990

AS Data

Method: 6WTO15.CTO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9188	Int'l Surr.	100ppbv
AS9351	TO15 SIM Std (A1978)	0.02ppbv
AS4350	TO15 Std (A1261)	1.0ppbv
AS9352	TO15 LCS (A1959)	0.62ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the crite of SGS SOP EQA044.

Supervisor Signature: Date: 1/11/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comment
1	6W23275	BFB		A9785	200					OK	time 940
1	6W23276	ICV982-0.01		A9785	200					OK	recal: 6W23
1	6W23277	ICC98290.01		A978	200			✓	✓	OK	
1	6W23278	IC98290.005		A978	100			✓	✓	OK	
1	6W23279	IC98290.002		A978	40			✓	✓	OK	
1	6W23280	IC98290.01		A978	400			✓	✓	OK	
1	6W23281	IC98290.04		A978	800			✓	✓	OK	
2	6W23282	IC98290.5		A1261	200			✓	✓	OK	
2	6W23283	IC98290.1		A1261	400					Not used	
3	6W23284	IB			200						
4	6W23285	ICV98290.01		A959	200			✓	✓	OK	
3	6W23286	IB			200						

12/1/21

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

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SGS

TO-15

Batch ID: V6W998

Date: 12/7/21

Analyst Signature:

Columns: RTX-1 60m x 0.32mm x 1.0µ

Method: 6W-SIM-TO15

Seq. File: 6W20211207-5

Initial Cal. Method: M6W990

AS Data

Method: 6WTO15.CTO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9188	Int/Surr	100 ppbv
AS9379	TO15 SIM std (1478)	0.02 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the crit of SGS SOP EQA044.

Supervisor Signature: Date: 1/31/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comment
1	6W23465	BFB		A478	200					QM	from 1016
1	6W23466	CC990-0.01		A478	200					WR	wrong position
1	6W23467	CC990-0.01		A478	200			✓	✓	QM	put 3rd
1	6W23468	CC990-0.01 BB		A478	200			✓	✓	QM	
1	6W23469	BSD	12/7/21	A478	200			✓	✓	QM	
2	6W23470	BSD J3	12/7/21	A454	100						
2	6W23471	MJ3		A459	400			✓	✓	QM	
2	6W23472	CC CP11472	MS5213	A320	400			✓	✓	QM	
	473										

12/20/21

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

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The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report



Technical Report for

Bhate Environmental Associates, Inc.

BECOS Former Griffiss AFB, Rome, NY

BHATCOL90098

SGS Job Number: JD42062

Sampling Date: 03/25/22

Report to:

molive@bhate.com

ATTN: Distribution4

Total number of pages in report: 5

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

Sample Summary

Bhate Environmental Associates, Inc.

Job No: JD42062

BECOS Former Griffiss AFB, Rome, NY
Project No: BHATCOL90098

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD42062-1	03/25/22	16:11	BP	03/28/22	AIR	Indoor Air Comp.	776-IA-1_0322

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

Report of Analysis

Client Sample ID: 776-IA-1_0322
Lab Sample ID: JD42062-1
Matrix: AIR - Indoor Air Comp. Summa ID: A1293
Method: TO-15 (BY SIM)
Project: BECOS Former Griffiss AFB, Rome, NY

Date Sampled: 03/25/22
Date Received: 03/28/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6W24677.D	1	04/03/22 08:46	TCH	n/a	n/a	V6W1058
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
71-43-2	78.11	Benzene	0.11	0.0050	0.0021	ppbv		0.35	0.016	0.0067	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.075	0.0050	0.00060	ppbv		0.47	0.031	0.0038	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.0033	0.0020	0.00060	ppbv		0.013	0.0079	0.0024	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20		ppbv		ND	0.79		ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.0057	0.0020	0.0010	ppbv		0.031	0.011	0.0055	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.010	0.0020	0.0011	ppbv		0.068	0.014	0.0075	ug/m3
79-01-6	131.4	Trichloroethylene	0.039	0.0020	0.0014	ppbv		0.21	0.011	0.0075	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.0020	0.0011	ppbv		ND	0.0051	0.0028	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		65-128%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS

Cert air

CHAIN OF CUSTODY - AIR

PAGE 1 OF 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking # 5272 0640 0433
Bottle Order Control # PEM-031122.9C
SGS Quote #
SGS Job # JD42062

Client / Reporting Information

Company Name: Bhate Environmental Associates, Inc.
Address: 445 Union Blvd Ste 129, ~~CO~~ BP
City: Lakewood State: CO Zip: 80226
Project Contact: Marcia Olive E-mail: molive@bhate.com
Phone #: 303-597-2450
Sampler(s) Name(s): B. Pollard

Project Information

Project Name: GAFB, Indoor/SIM
Street: ← SAME →
City: ↓ State:
Project #: BHATCOL90098
Client Purchase Order #: ~~MM~~ BP

Weather Parameters

Temperature (Fahrenheit)
Start: Maximum:
Stop: Minimum:
Atmoshpheric Pressure (inches of Hg)
Start: Maximum:
Stop: Minimum:
Other weather comment:

Requested Analysis

VOC TO-15

Lab Sample #	Field ID / Point of Collection	Air Type: Ind (I) Soil Vap (SV) Amb (A)	Air Type: Res (R) Non-Res (NR)	Sampling Equipment Info: Canister Serial #	Sampling Equipment Info: Canister Size 6L or 1L	Sampling Equipment Info: Flow Controller Serial #	Start Sampling Information: Date	Start: Time (24hr clock)	Start: Canister Pressure ("Hg)	Start: Interior Temp (F)	Start: Sampler Init.	Stop Sampling Information: Date	Stop: Time (24hr clock)	Stop: Canister Pressure ("Hg)	Stop: Interior Temp (F)	Stop: Sampler Init.	
1	776-IA-1_0322	I	NR	A1293	6L	FC923	03/25/22	0810	0"Hg	70	BP	03/25/22	1611	0"Hg	70	BP	X Summa

↑ Regulator gauge did not work,
~~sent a heat gun to flow through to proceed~~ BP

Turnaround Time (Business days)

- 15 Business Days
- 10 Business Days
- 5 Business Days
- 3 Business Days *
- 2 Business Days *
- 1 Business Day *
- Other

Approved By:
Date:
* Approval needed for 1-3 Business Day TAT

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

- Comm A
- Comm B
- Reduced T2
- Full T1
- Other:
- DKQP reporting

Comments / Remarks

Initial Assessment MA/HP
Label Verification
Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	3/25/22 1425	1	2 B Pollard (FCC)	3/25/22 1630	2 FedEx
Relinquished by: ~~BP~~ fedex	Date / Time: 3/28/22 8:30	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal # 4720		

http://www.sgs.com/en/terms-and-conditions

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

SGS Sample Receipt Summary

Job Number: JD42062 **Client:** BHATE ENVIRONMENTAL ASSOCIATES, **Project:** GAFB, INDOOR/SIM

Date / Time Received: 3/28/2022 9:30:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD42062: Chain of Custody
Page 2 of 2

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APPENDIX C
DATA VALIDATION REPORTS

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Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Griffiss Air Force Base, New York, on January 14, 2022 (the sample ID reflects the final collection date). Seventeen air samples and two field duplicates were collected from sites SD052-SVI Buildings 774/776 and Buildings 785/786 for long term management. All analyses were performed by SGS North America, Inc., Dayton, NJ. The specific samples included in this validation were:

Sample ID	Matrix	Final Collection Date	Analyses
774-VMP-1_011422	Air	1/14/22	VOCs (TO-15)
774-VMP-2_011422			
774-VMP-3_011422			
774-IA-1_011422			VOCs (TO-15 SIM)
776-VMP-1_011422			VOCs (TO-15)
776-VMP-2_011422			
776-VMP-2_011422-A			
776-VMP-3_011422			
776-OA-1_011422			
776-IA-1_011422			VOCs (TO-15 SIM)
785-VMP-2_011422			VOCs (TO-15)
785-VMP-2_011422-A			
785-VMP-4_011422			
785-VMP-5_011422			
785-IA-1_011422			VOCs (TO-15 SIM)
785-OA-1_011422			VOCs (TO-15)
786-VMP-1 (not collected)			
786-VMP-2_011422			
786-VMP-3_011422			
786-IA-1_011422			VOCs (TO-15 SIM)

This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, November 2020) and per requirements of the DOD QSM, Version 5.3, as specified in the project-specific QAPP.

Sample Handling and Holding times

All samples were analyzed within the method defined hold time.

Method Blank

No compounds were detected in the method blanks.

Blank spike sample (laboratory control sample-LCS)/surrogates

The LCS and surrogate recoveries were within control limits.

Matrix spike/matrix spike duplicates (MS/MSD)

The MS/MSD recoveries and/or relative percent difference (RPD), when reported, were within control limits.

Project specific quality assurance/quality control

The field duplicate RPD for chloromethane and trichloroethene were outside project defined control limits between sample 785-VMP-2_011422 and its duplicate. The RPD for acetone was outside control limits for sample 776-VMP-2_011422 and its duplicate. These compounds were qualified estimated and flagged "J".

Calibration Verification Data

The calibration verification data was within control limits for all reported analytes.

Overall assessment of data

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Sample ID	Compound	Qualifier (µg/m^3)	Reason Code
785-VMP-2_011422	Chloromethane Trichloroethene	1.9 J 3.1 J	FD RPD
785-VMP-2_011422-A	Chloromethane Trichloroethene	2.9 J 7.5 J	FD RPD
776-VMP-2_011422	Acetone	30.4 J	FD RPD
776-VMP-2_011422-A	Acetone	14 J	FD RPD
Notes: µg/m^3 – micrograms per cubic meter, FD RPD – RPD between parent and duplicate is outside project defined control limits			

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers the sample taken from Griffiss Air Force Base, New York, on March 25, 2022. One indoor air sample was collected from sites SD052-SVI Buildings 774/776 for long term management and to confirm no exceedances. All analyses were performed by SGS North America, Inc., Dayton, NJ. The specific samples included in this validation were:

Sample ID	**Matrix**	**Final Collection Date**	Analyses
776-IA-1_0322	Air	3/25/22	VOCs (TO-15 SIM)
This data was validated against the laboratory's QA/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, November 2020) and per requirements of the DOD QSM, Version 5.3, as specified in the project-specific QAPP.			

Sample Handling and Holding times

The sample was analyzed within the method defined hold time.

Method Blank

No compounds were detected in the method blanks.

Blank spike sample (laboratory control sample-LCS)/surrogates

The LCS and surrogate recoveries were within control limits.

Matrix spike/matrix spike duplicates (MS/MSD)

The MS/MSD recoveries and/or relative percent difference (RPD), when reported, were within control limits.

Project specific quality assurance/quality control

No field duplicate was collected. The lab duplicate relative percent difference for all compounds were within control limits.

Overall assessment of data

All analyses were performed, and the data met the required QC criteria. The data is 100% complete.

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APPENDIX D
REMEDIATION SYSTEM O&M FORMS

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Griffiss Monthly System O&M

Date:	4/19/2021			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
15:55	61°F	moderate	yes	yes
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
15:45	61°F	moderate	yes	yes
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
10:17	-2.5 in H2O	-4.5 in H2O	0.5 in H2O	60°F
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
1 in H2O		33792.45	0.0 ppm	0.0 ppm
Wind Speed - light, moderate, heavy Intermittent Turbines Spinning - Yes, no, do any appear to be stuck				

Griffiss Monthly System O&M

Date:	5/17/2021			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
14:07	74°F	light	yes	yes
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
14:02	74°F	light	yes	yes
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
Not Applicable - system placed in passive mode in April 2021				
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
Not Applicable				
Wind Speed - light, moderate, heavy Intermittent Turbines Spinning - Yes, no, do any appear to be stuck				

Griffiss Monthly System O&M

Date:	6/8/2021			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
17:15	81°F	light	yes	yes
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
17:09	81°F	light	yes	yes
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
Not Applicable - system placed in passive mode in April 2021				
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
Not Applicable				
Wind Speed - light, moderate, heavy Intermittent Turbines Spinning - Yes, no, do any appear to be stuck				

Griffiss Monthly System O&M

Date:	7/21/2021			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
14:27	73°F	light	yes	yes
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
14:22	73°F	light	yes	yes
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
Not Applicable - system placed in passive mode in April 2021				
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
Not Applicable				
Wind Speed - light, moderate, heavy Intermittent Turbines Spinning - Yes, no, do any appear to be stuck				

Griffiss Monthly System O&M

Date:	8/23/2021			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
14:05	80°F	light	yes	yes
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
14:14	80°F	light	yes	yes
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
Not Applicable - system placed in passive mode in April 2021				
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
Not Applicable				
Wind Speed - light, moderate, heavy Intermittent Turbines Spinning - Yes, no, do any appear to be stuck				

Griffiss Monthly System O&M

Date:	9/21/2021			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
14:19	72°F	moderate	yes	yes
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
14:09	72°F	moderate	yes	yes
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
Not Applicable - system placed in passive mode in April 2021				
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
Not Applicable				
Wind Speed - light, moderate, heavy Intermittent Turbines Spinning - Yes, no, do any appear to be stuck				

Griffiss Monthly System O&M

Date:	10/22/2021			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
10:20	52°F	light (10 mph)	yes, both	yes
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
10:26	52°F	light (10 mph)	yes, all three	yes
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
Not Applicable - system placed in passive mode in April 2021				
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
Not Applicable				
Wind Speed - light, moderate, heavy Intermittent Turbines Spinning - Yes, no, do any appear to be stuck				

Griffiss Monthly System O&M

Date:	11/15/2021			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
12:25	33°F	light	yes, both	yes
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	33°F	light	yes, all three	yes
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
Not Applicable - system placed in passive mode in April 2021				
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
Not Applicable				
Wind Speed - light, moderate, heavy Intermittent Turbines Spinning - Yes, no, do any appear to be stuck				

Griffiss Monthly System O&M

Date:	12/3/2021			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
10:45	35°F	moderate	yes, both	yes
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
12:50	35°F	moderate	yes, all three	yes
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
Not Applicable - system placed in passive mode in April 2021				
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
Not Applicable				
Wind Speed - light, moderate, heavy Intermittent Turbines Spinning - Yes, no, do any appear to be stuck				

Griffiss Monthly System O&M

Date:	1/14/2022			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
14:00	20°F	15 mph	yes	yes
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
14:15	20°F	15 mph	yes	yes
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
Not Applicable - system placed in passive mode in April 2021				
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
Not Applicable				
Wind Speed - light, moderate, heavy Intermittent Turbines Spinning - Yes, no, do any appear to be stuck				

Griffiss Monthly System O&M

Date:	2/17/2022			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
14:20	50°F	light (8mph)	yes	yes
Site: SD052-02-SVI. 454 Phoenix Dr.				
B774/776 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
14:30	50°F	light (8mph)	1 of 3 turbines lightly rotating	yes
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
Not Applicable - system placed in passive mode in April 2021				
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
Not Applicable				
Wind Speed - light, moderate, heavy Intermittent Turbines Spinning - Yes, no, do any appear to be stuck				

Griffiss Monthly System O&M

Date:	3/26/2022			
Site: SD052-01-SVI. 640 Ellsworth Road				
B785/786 SSVM Passive System				
Time	Outdoor temp	Wind Speed	Turbines Spinning	Valves in Passive Mode
11:50	40°F	Light (6 mph)	yes	yes
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	40°F	Light (6 mph)	No, none spinning	yes
Site ST006	B101, 394 Hangar Road			
SVE System				
Time	Vacuum gauge Before filter	Vacuum Gauge After Filter	Differential gauge	Temp
Not Applicable - system placed in passive mode in April 2021				
Blower Outlet Presure		Hours	Inlet PID reading	Outlet PID reading
Not Applicable				
Wind Speed - light, moderate, heavy Intermittent Turbines Spinning - Yes, no, do any appear to be stuck				

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)

FORMER GRIFFISS AIR FORCE BASE
ROME, NEW YORK

Prepared for:

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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.